Spacial Thalassa ClimaSys

Universal Enclosures Catalogue 2020

More than 60 years protecting your equipment



se.com/enclosures

Life Is On Schneider Electric



Green Premium™

An industry leading portfolio of offers delivering sustainable value

More than 75% of our product sales offer superior transparency on the material content, regulatory information and environmental impact of our products:

- RoHS compliance
- REACh substance information
- Industry leading # of PEP's*
- Circularity instructions

Discover what we mean by green
Check your products!

The Green Premium program stands for our commitment to deliver customer valued sustainable performance. It has been upgraded with recognized environmental claims and extended to cover all offers including Products, Services and Solutions.

CO_2 and P&L impact through… Resource Performance

Green Premium brings improved resource efficiency throughout an asset's lifecycle. This includes efficient use of energy and natural resources, along with the minimization of CO_2 emissions.

Cost of ownership optimization through… Circular Performance

We're helping our customers optimize the total cost of ownership of their assets. To do this, we provide IoT-enabled solutions, as well as upgrade, repair, retrofit, and remanufacture services.

Peace of mind through… Well-being Performance

Green Premium products are RoHS and REACh compliant. We're going beyond regulatory compliance with step-by-step substitution of certain materials and substances from our products.

Improved sales through… Differentiation

Green Premium delivers strong value propositions through third-party labels and services. By collaborating with third-party organizations we can support our customers in meeting their sustainability goals such as green building certifications.

*PEP: Product Environmental Profile (i.e. Environmental Product Declaration)

Schneider Electric

Our Universal Enclosures ranges, solutions for each application

PB500005



Spacial
Metal enclosures and boxes

From our small boxes to large suitable floor-standing enclosures, with the Spacial range you can find the perfect fit for your applications. Our extensive range of easy-to-use accessories helps you save time during your projects.

Select between steel or stainless steel to better suit the installation environment. In our stainless-steel offer you can find the optimal solution where cleanliness is required, or for highly corrosive environments.

PB500006



Thalassa
Insulating enclosures

Working in difficult environments can, without the right protection, expose your installation to chemical or aggressive substances. Developed to efficiently protect it; our Thalassa offer, from boxes to floor-standing enclosures, made in fibreglass-reinforced polyester, resists in hard conditions and outdoor applications.

Our Thalassa industrial boxes in ABS or polycarbonate are strong, easy to install and designed to be used in highly demanding environments.

PB502596-21

PB502612-30



ClimaSys
Thermal management

Preserving and keeping the right temperature inside your enclosure is vital for maximising the lifetime of your installed devices. With our ClimaSys offer you can find the right solution, be it Ventilation, Cooling or Heating, including control units for temperature, humidity and much more.

Best materials for any application

Always a solution for any environment

PB500013-56



> Solution:
The Spacial range in steel (wall-mounting, monobloc and suitable floor-standing enclosures).

> Steel

Indoor industrial environment

The industrial environment in mechanical plants is especially demanding as regards the protection of electric and electronic components against dust, splashing with oil and impacts. This environment therefore requires a range that is suited to the applications and easy to implement.

- **Standard range**, for industry.
- **E.M.C. range**, against electromagnetic disturbances (treated with Aluzinc).
- **Range of ATEX enclosures**, for potentially explosive atmospheres.

PB500014-55



> Solution:
The Spacial range in stainless steel (wall-mounting, monobloc and suitable floor-standing enclosures).

> 304L - 316L stainless steel

Demanding industrial environment

Food and beverage, pharmaceutical, petrochemical and infrastructure industries are particularly demanding in terms of hygiene and resistance to corrosion.
With two grades of stainless steel:

- **304L stainless steel:**
Resistance to corrosion and cleanability (often used in food production environments).
- **316L stainless steel, also known as "marine stainless steel":**
Very high resistance to corrosion (saline or chlorinated environment).

PB500015-26



PB500016-48



> Solution:
The Thalassa range (boxes, wall-mounting and floor-standing enclosures).

> Insulating polyester and plastic materials (ABS, polycarbonate)

Infrastructures and industrial environments

Outdoor infrastructures and electrical installations are exposed to direct sunlight, rain, saline mist, extreme temperatures, oil splashes, chemical and corrosive agents.

- **Standard range**, for industry and infrastructures.

PB502732-46



PB502733-26



> Solution:
The Thalassa PHD and Spacial S3HD and SFHD ranges (wall-mounting and floor-standing).

> Heavy Duty materials

Severe outdoor environments, generally requested by OEMs, telecom, water treatment and transportation

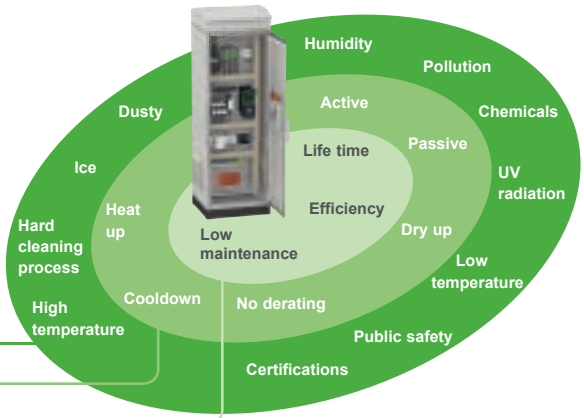
- Polyester Heavy Duty is suitable for outdoor public areas thanks to its multiple virtues:
  - pressure and shock resistant (IEC 61439-5: 2010),
  - anti-posting thanks to its special ribbed-surface door,
  - insulated (ready to be Class II according to IEC 61439-1: 2011).
- Steel Heavy Duty enclosures are designed for outdoor private areas:
  - they are engineered to resist aggressive environments (anti-corrosion certification class C4H, ISO 12944:1999).

How to define an enclosures solution?

Invariables

Switchgear and Controlgear are the cornerstone of all electrical system. Industry, infrastructure, building, energy, transport, every segment.

The correct enclosure and thermal management selection is crucial to guaranty the targeted performance.
Safeguards of equipment installed inside and consequently, service continuity.



The correct selection of an enclosure and thermal solution

Many influences must be considered when defining an enclosure system.
They may be grouped in three groups:

- **Protection (Equipment and people)**
- **Thermal management**
- **Solution profitability**

The environment and the enclosure

The table below is only indicative and not binding. It shows, in a general concept, the optimized performance of the Universal Enclosures ranges according to de environment conditions taking into account technical and commercial criteria:

- ■■■ Very recommended
- ■ Recommended
- - Not recommended

Environment	Enclosure material						
	Steel	Steel Heavy Duty	Stainless-steel 304L	Stainless-steel 316L	Stainless-steel 316L Paint	Polyester	Polyester Heavy Duty
Indoor clean environment [1]	■■■	■	■	■	■	■	■
Hard cleaning process [2]	-	-	■■■	■■■	-	-	-
Outdoor (no public access)	-	■■■	■	■	■	■■■	■■■
Outdoor (public access)	-	■	■	■	■	■	■■■
Harsh chemicals	-	■	■■■	■■■	■■■	■■■	■■■
Solar radiation	-	■■■	-	■ [4]	■ [4]	■■■	■■■
Sand storm	-	-	■■■	■■■	-	■	■
Temperature > 40°C [3]	■■■	■■■	■■■	■■■	■■■	■■■	■■■
Temperature < 5°C [3]	■■■	■■■	■■■	■■■	■■■	■■■	■■■
Salty environment	-	-	-	■■■	■■■	■■■	■■■
Sea water splashes	-	-	-	■■■	■■■	■■■	■■■
Humidity > 70% [3]	-	■■■	■■■	■■■	■■■	■■■	■■■
Impact	■■■	■■■	■■■	■■■	■■■	■■■	■■■
Vandalism	-	■■■	■	■	■	■	■■■
Burglary	-	■■■	■	■	■	■	■■■
Strong pollution	■	■■■	■■■	■■■	■■■	■■■	■■■
Vibration (Marine application)	■■■	-	■■■	■■■	■■■	■■■	-
Seismic	■■■	-	-	-	-	-	-
Electro Magnetic Interference	■■■	-	-	-	-	-	-

[1] Not considering F&B process
[2] e.g. F&B process
[3] Always using ClimaSys solutions
[4] Marine solar plants

Thermal management

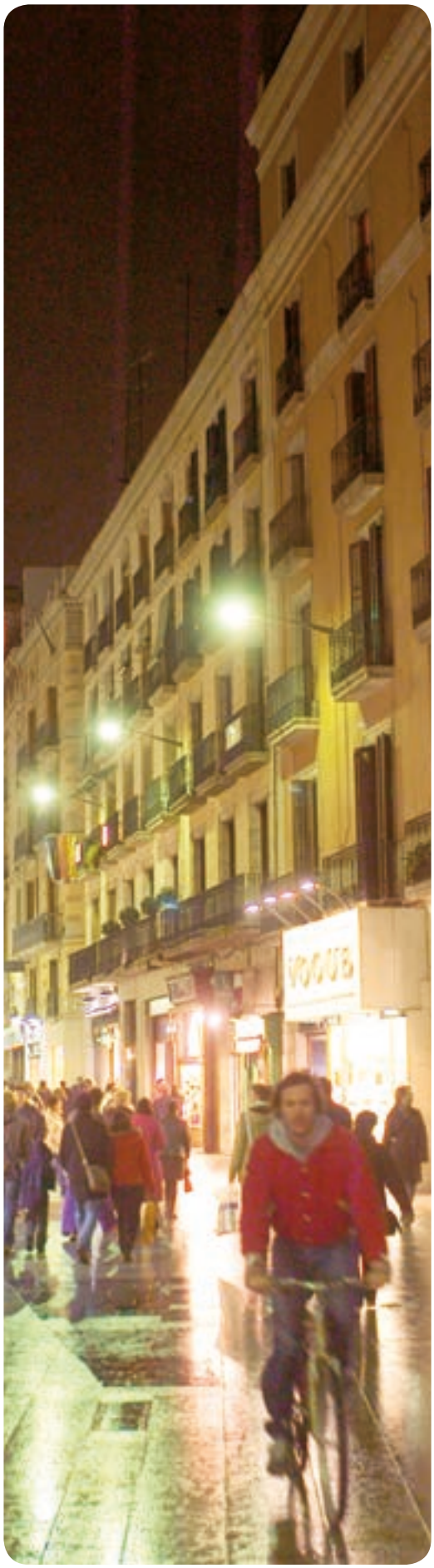
Thermal management system must guaranty the temperature and humidity controlled inside the enclosure.

The correct solution must be based on a robust process starting on the environment diagnostic, going to the parameters calculations and defining the best architecture (Enclosures + Equipment installed + Thermal solution).

ClimaSys is the definitive solution based on ClimaSys DT / EffiClima / ProClima.

Selection tools

PB500009-165



> www.schneider-electric.com/enclosures

Our web site allows you to access all the Schneider Electric products in just two clicks with direct links to:

- A complete library of technical documents, catalogues, FAQs brochures, etc.
- Certificates.
- 2D & 3D drawings.
- Selection Guides from the e-catalogue.
- Product discovery sites.

DB301271

You may also find illustrated overviews, news to which you can subscribe, a list of country contacts and more useful information.

Our software suite

> Digital Rules

Find the accessories that suit your enclosure

The digital rules allow you to select the best components from the current product range. There will be no risk of mistake, since product and accessory selection take place automatically, saving you time and money.

Download Digital Rules.
Scan this >

DB301275

PB500011-38



> ProClima

Find the best thermal solution for your enclosure

Select and calculate your thermal management requirements, according to the environment and the electrical/electronic devices installed inside the enclosure.

Download ProClima.
Scan this >

DB301223

DB300837-21



> Spacial.conf

Get your enclosure pre-engineered for your special needs

Spacial.conf software gives you total autonomy to configure and quote enclosures with services (cut-outs, painting, accessory mounting) in less than 3 minutes. Spacial.conf is designed for convenient, error-free, and time-saving orders.

Have a smartphone or a tablet?
Scan this >

DB301238

DB301274



> EffiClima

Create a complete and accurate tracking report of thermal conditions

EffiClima software translates data into a report on temperature, humidity, and dew point.
It provides security for your enclosures by monitoring and controlling the entire application environment directly.

Download EffiClima.
Scan this >

DB3012221

Customised solutions

Over **50 years** of experience, knowledge and expertise to have the best enclosure solution that meets your needs.

Three offer levels to cover your different requirements

The tailored solution for special needs.

If you need special enclosures or thermal system, customized to improve technical data, mounting time, aesthetic or other characteristics, we offer you the customization possibility on three levels:

Configured offer (CTO)

Configure any standard enclosure, right from your desktop…
in under 5 min.

Specific offer (ETO)

On-demand solution, optimized efficient integration of any complexity.

CO-engineering

Meet any demanding specification, integration challenge, budget constraint, or supply chain need.

PB500518-182



Time saving

Delivered with cut-outs & painting: no waste of time

Logistics

- Flexible management of your logistic option (scheduled delivery service for on-going orders)
- Special packaging

Installation simplified

Enclosures delivered with cut-outs: you don't need special tools

Ergonomic design

Customized project dedicated to your personal concern

Life time increased

- Cut-outs done before painting, guarantees anti-corrosion performance and safe sealing
- Painting service for better protection

Quality improved

- No burrs on edges of cut-outs
- Guaranteed machining tolerances

Aesthetics

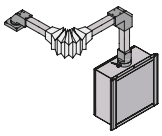
- Large choice of colours
- No scratches in external surfaces

Higher performances

- Adapted thermal management
- Upgraded stainless steel type

Offers overview

Spacial enclosures

	Steel	Stainless-steel
Boxes	 PB500198-13 PB503351-20 **SDB** Derivation boxe p. 34 **SBM** Steel industrial boxes p. 36 **Characteristics** ■ From 85 x 85 x 49 to 400 x 800 x 120 mm ■ IP55 or IP66 ■ Up to IK10	**Consult us**
Wall-mounting	 PB500066-84 **CRN** Wall-mounting steel p. 48 • **CRN** 19" enclosures p. 413 • **S3DB** Terminal enclosures p. 282 • **S3DBFL** Terminal enclosures with FL21 cut-out p. 282 • **S3DM** Modular wall-mounting enclosures p. 286 • **VDM** 19" enclosures p. 410 • **S3DEX** Potentially explosive atmospheres p. 445 • **S3HF** Electromagnetic compatibility p. 436 • **S3D 6G, S3D 6G K3** Seismic and nuclear enclosures p. 386 **Characteristics** ■ From 300 x 200 x 150 to 1400 x 1000 x 300 mm ■ Up to IP66 ■ Up to IK10	 PB500075-42 **S3X** Wall-mounting p. 114 **Characteristics** ■ From 300 x 200 x 150 to 1200 x 1000 x 300 mm ■ Up to IP66 ■ Up to IK10
Floor-standing	 PB500067-82 **SM** Floor-standing compact p. 72 **SF** Floor-standing suitable p. 73 • 19" electronic enclosure p. 416 • Automobile application p. 486 • Accessories for modular floor-standing enclosures p. 292 • Accessories for low voltage switchboards p. 298 • **SFM** Motor control centers p. 340 • **SFP** Prisma application p. 319 • **SFHF** Electromagnetic compatibility p. 437 • **SF 6G, SFP 5G** Seismic and nuclear enclosures p. 386 **Characteristics** ■ From 1200 x 600 x 400 to 2200 x 1200 x 800 mm ■ IP55 ■ Up to IK10	 PB500138-26 **SMX** Floor-standing monobloc p. 124 **SFX** Floor-standing suitable p. 124 **Characteristics** ■ From 1400 x 1000 x 300 to 2000 x 1600 x 600 mm ■ IP66 ■ Up to IK10
Outdoor	 PB502665-21 PB502653-21 **S3HD** Wall-mounting Heavy Duty enclosures p. 372 **SFHD** Floor-standing Heavy Duty enclosures p. 372 Spacial S3HD and SFHD are engineered to resist aggressive environments (anti-corrosion certification class C4 H, ISO 12.944). **Options** Ventilated plinths, roof ventilation module, slim fanbox, Heavy Duty fixings. **Why should I choose it?** Designed to resist in outdoor private areas. **Characteristics** ■ From 300 x 200 x 180 to 2000 x 800 x 430 mm ■ Up to IP66 ■ IK10	**Consult us**
Interface Human-Machine	 PB502000-32 **S3CM** Control enclosures with suspension system p. 450 **SD** Compact control desks p. 460 **SDF** Control desks with console p. 460 **SF** PC rack p. 476	 PB501267-30 **SDX** Control desk p. 461 **SMX** PC rack p. 480
ClimaSys Thermal management	New PB503599 PB500069-30 **CV** Smart ventilation systems p. 500 **CV** Ventilation Systems p. 510 **CA** Natural airing p. 526 PB502625-8 PB502618-9 **CE** Exchangers p. 528 **CU** Cooling Units p. 539	PB502624-10 PB502047-10 **CC** Thermal Control p. 563 **CR** Resistance Heaters p. 556 **DT** Dataloggers p. 566

Offers overview

Thalassa enclosures

Insulating materials



PLS Insulating modular boxes p. 148
TBP Polycarbonate industrial boxes p. 134
TBS ABS industrial boxes p. 134

Characteristics
- From 74 x 74 x 54 to 540 x 720 x 230 mm
- Up to IP66
- Up to IK09



PLM Wall-mounting polyester p. 158

Characteristics
- From 308 x 215 x 160 to 1056 x 852 x 350 mm
- Up to IP66
- Up to IK10



PLA Floor-standing polyester enclosures p. 174
PLD Floor-standing DIN polyester enclosures p. 198

Characteristics
- From 500 x 500 x 320 to 2000 x 750 x 420 mm
- Up to IP65
- Up to IK10



PHD Polyester Heavy Duty enclosures p. 372

Thalassa PHD has multiple virtues:
- pressure and shock resistant (IEC 61439-5),
- anti-posting thanks to its special front door,
- insulated (Class II).

Options
Anti-burglary accessory, ventilated plinths, roof ventilation module, slim fanbox.

Why should I choose it?
Suitable for harsh environments in outdoor public areas.

Characteristics
- From 500 x 500 x 320 to 2000 x 750 x 420 mm
- Up to IP65
- IK10

Details and technical datasheets available on www.se.com/enclosures

softwares



Digital Rules
Enclosures selector



Spacial.conf
Services configurator



ProClima
Thermal calculation software



EffiClima
Thermal tracking software

Accessories



Mounting p. 206



Lighting and power sockets p. 268

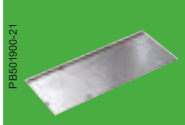


Cable management p. 242

Project & Services

- CTO Customized to order
- ETO Engineered to order
- Co-engineering

Spare Parts p. 586



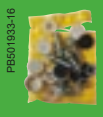
Cable gland plate



Doors



Door accessories



Fixing hardware



Roof accessories



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Selection guide
Steel industrial boxes

Metallic junction boxes SDB IP55

	External dimensions (mm)			Models without knock-outs	Models with knock-outs, n° of drill holes, knock-outs and group			Dimensions (mm)			Plain mounting plate	Weight (kg)
	Height (A)	Width (B)	Depth (C)	References	References	Height (A)	Width (B)	D	E	F	References	
Low cover models	85	85	49	**NSYDBN88**	**NSYDB88M**	1 n° 1	1 n° 1	58	58	-	-	0.18
	105	105	49	**NSYDBN1010**	**NSYDB1010M**	2 n° 1	1 n° 1	76	76	-	-	0.25
	155	105	61	**NSYDBN1510**	**NSYDB1510M**	3 n° 1	1 n° 1	124	74	56	**NSYPMD1510**	0.38
	206	156	83	**NSYDBN2015**	**NSYDB2015M**	3 n° 3	2 n° 3	172	122	78	**NSYPMD2015**	1
	256	206	93	**NSYDBN2520**	-	-	-	220	170	88	**NSYPMD2520**	1.5
	307	257	116	**NSYDBN3025**	-	-	-	268	218	110	**NSYPMD3025**	3.3

Metallic modular boxes

External dimensions (mm)			SBM
Height	Width	Depth	
150	150	80	**NSYSBM15158**
		120	**NSYSBM151512**
	200	80	**NSYSBM15208**
		120	**NSYSBM152012**
	300	80	**NSYSBM15308**
		120	**NSYSBM153012**
	400	80	**NSYSBM15408**
		120	**NSYSBM154012**
200	200	80	**NSYSBM20208**
		120	**NSYSBM202012**
	300	80	**NSYSBM20308**
		120	**NSYSBM203012**
	400	80	**NSYSBM20408**
		120	**NSYSBM204012**
	500	80	**NSYSBM20508**
		120	**NSYSBM205012**
	600	80	**NSYSBM20608**
		120	**NSYSBM206012**
	800	120	**NSYSBM208012**
300	300	120	**NSYSBM303012**
	400	120	**NSYSBM304012**
	500	120	**NSYSBM305012**
	600	120	**NSYSBM306012**
	800	120	**NSYSBM308012**
400	400	120	**NSYSBM404012**
	500	120	**NSYSBM405012**
	600	120	**NSYSBM406012**
	800	120	**NSYSBM408012**

> Accessories and mounting plates for metallic modular boxes

All informations about accessories and mounting plate on page 40

Selection guide
Insulating industrial boxes

Universal boxes with IP66





Overall external dimensions (mm)			Overall internal dimensions (mm)			Body (mm)	Cover (mm)	Material			
								ABS IP66 IK07		PC-UL IP66 IK08	
Height	Width	Depth	Height	Width	Depth			Opaque cover	Transparent cover	Opaque cover	Transparent cover
74	74	54	65	65	47	37	10	NSYTBS775	-	NSYTBP775	-
89	89	54	80	80	47	37	10	NSYTBS885	-	NSYTBP885	-
116	74	62	105	65	55	45	10	NSYTBS1176	-	NSYTBP1176	-
		94	105	65	85	45	40	NSYTBS1179H	-	-	-
	116	62	105	105	55	45	10	NSYTBS11116	-	NSYTBP11116	-
		133	105	105	125	45	80	NSYTBS111113H	-	-	-
138	93	72	125	80	65	45	20	NSYTBS1397	NSYTBS1397T	NSYTBP1397	NSYTBP1397T
164	121	87	150	105	80	60	20	NSYTBS16128	NSYTBS16128T	NSYTBP16128	NSYTBP16128T
192	121	87	175	105	80	60	20	NSYTBS19128	NSYTBS19128T	NSYTBP19128	NSYTBP19128T
		105	175	105	100	60	40	NSYTBS191210H	NSYTBS191210HT	NSYTBP191210H	NSYTBP191210HT
	164	87	175	150	80	60	20	NSYTBS19168	NSYTBS19168T	NSYTBP19168	NSYTBP19168T
		105	175	150	100	60	40	NSYTBS191610H	NSYTBS191610HT	NSYTBP191610H	NSYTBP191610HT
241	194	87	225	175	80	60	20	NSYTBS24198	NSYTBS24198T	NSYTBP24198	NSYTBP24198T
		107	225	175	100	80	20	NSYTBS241910	NSYTBS241910T	NSYTBP241910	NSYTBP241910T
		107	225	175	100	60	40	NSYTBS241910H	NSYTBS241910HT	NSYTBP241910H	NSYTBP241910HT
		127	225	175	120	80	40	NSYTBS241912H	NSYTBS241912HT	NSYTBP241912H	NSYTBP241912HT
291	241	88	275	225	80	60	20	NSYTBS29248	NSYTBS29248T	NSYTBP29248	NSYTBP29248T
		128	275	225	120	100	20	NSYTBS292412	NSYTBS292412T	NSYTBP292412	NSYTBP292412T
		128	275	225	120	60	60	NSYTBS292412H	NSYTBS292412HT	NSYTBP292412H	NSYTBP292412HT
		168	275	225	160	100	60	NSYTBS292416H	NSYTBS292416HT	NSYTBP292416H	NSYTBP292416HT
341	291	128	325	275	120	100	20	NSYTBS342912	NSYTBS342912T	NSYTBP342912	NSYTBP342912T
		168	325	275	160	100	60	NSYTBS342916H	NSYTBS342916HT	NSYTBP342916H	NSYTBP342916HT

> Accessories and mounting plates for universal boxes with IP66

All informations about accessories and mounting plate on page 142

Modular boxes



Dimensions (mm)			Complete box			Complete boxes in batches	
Height	Width	Depth	Transparent cover	Opaque cover	Polyester cover	Transparent cover	Amount per batch
180	270	180	NSYPLS1827G	NSYPLSC1827G	NSYPLSP1827G	NSYPLS1827LG	56
270	270	180	NSYPLS2727G	NSYPLSC2727G	NSYPLSP2727G	NSYPLS2727LG	56
		230	NSYPLS2727AG	NSYPLSC2727AG	-	NSYPLS2727ALG	56
	360	180	NSYPLS2736G	NSYPLSC2736G	NSYPLSP2736G	NSYPLS2736LG	56
		230	NSYPLS2736AG	NSYPLSC2736AG	-	NSYPLS2736ALG	56
	540	180	NSYPLS2754G	NSYPLSC2754G	NSYPLSP2754G	NSYPLS2754LG	28
		230	NSYPLS2754AG	NSYPLSC2754AG	-	NSYPLS2754ALG	28
360	360	180	NSYPLS3636G	NSYPLSC3636G	NSYPLSP3636G	NSYPLS3636LG	18
	540	180	NSYPLS3654G	NSYPLSC3654G	NSYPLSP3654G	NSYPLS3654LG	28
		230	NSYPLS3654AG	NSYPLSC3654AG	-	NSYPLS3654ALG	28
	720	230	NSYPLS3672AG	NSYPLSC3672AG	-	NSYPLS3672ALG	27
540	540	180	NSYPLS5454G	NSYPLSC5454G	NSYPLSP5454G	NSYPLS5454LG	14
		230	NSYPLS5454AG	NSYPLSC5454AG	-	NSYPLS5454ALG	14
	720	230	NSYPLS5472AG	NSYPLSC5472AG	-	NSYPLS5472ALG	14

> Accessories and mounting plates for modular boxes

All informations about accessories and mounting plate on page 153

Selection guide
Steel wall-mounting enclosures


PB500109-15


PB500110-12


PB500072-10


PB500100-10


PB500101-13

Characteristics						Spacial CRN - CRNG			Mounting plate		
Dimensions			No. of doors	IP	Weight (1)	Plain door with mounting plate	Plain door without mounting plate	Glazed door without mounting plate	Plain	Silkscreened	Microperforated
H	W	D				Page 49			Page 206		Page 206
CRN Wall-mounting steel enclosures											
200	200	150	1	66	2.5	-	**NSYCRN22150** (2)	-	**NSYMM22**	-	-
	300	150	1	66	3.9	-	**NSYCRN23150** (2)	-	**NSYMM32**	-	**NSYMF32**
250	200	150	1	66	3.2	**NSYCRN252150P**	**NSYCRN252150**	-	**NSYMM2520**	-	-
300	250	150	1	66	4.2	**NSYCRN325150P**	**NSYCRN325150**	**NSYCRN325150T**	**NSYMM3025**	-	-
		200	1	66	4.9	**NSYCRN325200P**	**NSYCRN325200**	**NSYCRN325200T**	**NSYMM3025**	-	-
	300	150	1	66	5.0	**NSYCRN33150P**	**NSYCRN33150**	**NSYCRN33150T**	**NSYMM33**	-	**NSYMF33**
		200	1	66	6.0	**NSYCRN33200P**	**NSYCRN33200**	**NSYCRN33200T**	**NSYMM33**	-	**NSYMF33**
	400	200	1	66	6.4	-	**NSYCRN34200**	**NSYCRN34200T**	**NSYMM43**	**NSYMS43**	**NSYMF43**
	450	150	1	66	6.7	-	**NSYCRN345150** (2)	-	**NSYMM3045**	-	-
400	300	150	1	66	6.0	**NSYCRN43150P**	**NSYCRN43150**	**NSYCRN43150T**	**NSYMM43**	**NSYMS43**	**NSYMF43**
		200	1	66	6.8	**NSYCRN43200P**	**NSYCRN43200**	**NSYCRN43200T**	**NSYMM43**	**NSYMS43**	**NSYMF43**
	400	200	1	66	8.0	**NSYCRN44200P**	**NSYCRN44200**	**NSYCRN44200T**	**NSYMM44**	**NSYMS44**	**NSYMF44**
	600	250	1	66	10.0	**NSYCRN46250P**	**NSYCRN46250**	**NSYCRN46250T**	**NSYMM64**	**NSYMS64**	**NSYMF64**
		300	1	66	11.2	-	**NSYCRN46300**	**NSYCRN46300T**	**NSYMM64**	**NSYMS64**	**NSYMF64**
500	400	150	1	66	8.7	**NSYCRN54150P**	**NSYCRN54150**	**NSYCRN54150T**	**NSYMM54**	**NSYMS54**	**NSYMF54**
		200	1	66	9.8	**NSYCRN54200P**	**NSYCRN54200**	**NSYCRN54200T**	**NSYMM54**	**NSYMS54**	**NSYMF54**
		250	1	66	11.0	**NSYCRN54250P**	**NSYCRN54250**	**NSYCRN54250T**	**NSYMM54**	**NSYMS54**	**NSYMF54**
	500	250	1	66	12.8	**NSYCRN55250P**	**NSYCRN55250**	**NSYCRN55250T**	**NSYMM55**	**NSYMS55**	**NSYMF55**
600	400	150	1	66	9.3	**NSYCRN64150P**	**NSYCRN64150**	**NSYCRN64150T**	**NSYMM64**	**NSYMS64**	**NSYMF64**
		200	1	66	10.8	**NSYCRN64200P**	**NSYCRN64200**	**NSYCRN64200T**	**NSYMM64**	**NSYMS64**	**NSYMF64**
		250	1	66	12.3	**NSYCRN64250P**	**NSYCRN64250**	**NSYCRN64250T**	**NSYMM64**	**NSYMS64**	**NSYMF64**
	500	150	1	66	11.3	**NSYCRN65150P**	**NSYCRN65150**	**NSYCRN65150T**	**NSYMM65**	-	**NSYMF65**
		200	1	66	14.3	**NSYCRN65200P**	**NSYCRN65200**	**NSYCRN65200T**	**NSYMM65**	-	**NSYMF65**
		250	1	66	16.2	**NSYCRN65250P**	**NSYCRN65250**	**NSYCRN65250T**	**NSYMM65**	-	**NSYMF65**
	600	200	1	66	16.3	**NSYCRN66200P**	**NSYCRN66200**	**NSYCRN66200T**	**NSYMM66**	**NSYMS66**	**NSYMF66**
		250	1	66	18.2	**NSYCRN66250P**	**NSYCRN66250**	**NSYCRN66250T**	**NSYMM66**	**NSYMS66**	**NSYMF66**
		300	1	66	19.8	**NSYCRN66300P**	**NSYCRN66300**	**NSYCRN66300T**	**NSYMM66**	**NSYMS66**	**NSYMF66**
	800	300	1	66	26.0	-	**NSYCRN68300**	**NSYCRN68300T**	**NSYMM86**	**NSYMS86**	**NSYMF86**
700	500	200	1	66	17.3	**NSYCRN75200P**	**NSYCRN75200**	**NSYCRN75200T**	**NSYMM75**	**NSYMS75**	**NSYMF75**
		250	1	66	19.3	**NSYCRN75250P**	**NSYCRN75250**	**NSYCRN75250T**	**NSYMM75**	**NSYMS75**	**NSYMF75**
800	600	200	1	66	21.8	**NSYCRN86200P**	**NSYCRN86200**	**NSYCRN86200T**	**NSYMM86**	**NSYMS86**	**NSYMF86**
		250	1	66	24.8	**NSYCRN86250P**	**NSYCRN86250**	**NSYCRN86250T**	**NSYMM86**	**NSYMS86**	**NSYMF86**
		300	1	66	26.3	**NSYCRN86300P**	**NSYCRN86300**	**NSYCRN86300T**	**NSYMM86**	**NSYMS86**	**NSYMF86**
	800	200	1	66	29.5	**NSYCRN88200P**	**NSYCRN88200**	**NSYCRN88200T**	**NSYMM88**	-	**NSYMF88**
		300	1	66	32.5	**NSYCRN88300P**	**NSYCRN88300**	**NSYCRN88300T**	**NSYMM88**	-	**NSYMF88**
1000	600	250	1	66	28.4	**NSYCRN106250P**	**NSYCRN106250**	**NSYCRN106250T**	**NSYMM106**	-	**NSYMF106**
		300	1	66	30.6	**NSYCRN106300P**	**NSYCRN106300**	**NSYCRN106300T**	**NSYMM106**	-	**NSYMF106**
	800	250	1	66	34.5	**NSYCRN108250P**	**NSYCRN108250**	**NSYCRN108250T**	**NSYMM108**	-	**NSYMF108**
		300	1	66	37.4	**NSYCRN108300P**	**NSYCRN108300**	**NSYCRN108300T**	**NSYMM108**	-	**NSYMF108**
CRNG Wall-mounting steel enclosures with three-point locking system											
800	600	400	1	66	30.0	-	**NSYCRNG86400**	**NSYCRNG86400T**	**NSYMM86**	**NSYMS86**	**NSYMF86**
	1000	300	2	55	40.0	-	**NSYCRNG810300D**	-	**NSYMM108**	-	**NSYMF108**
	1200	300	2	55	46.0	-	**NSYCRNG812300D**	-	**NSYMM128**	-	**NSYMF128**
1000	600	400	1	66	36.0	-	**NSYCRNG106400**	**NSYCRNG106400T**	**NSYMM106**	-	**NSYMF106**
	800	400	1	66	43.0	-	**NSYCRNG108400**	**NSYCRNG108400T**	**NSYMM108**	-	**NSYMF108**
	1000	300	2 (3)	55	47.0	-	**NSYCRNG1010300D**	**NSYCRNG1010300T**	**NSYMM1010**	-	**NSYMF1010**
	1200	300	2	55	55.0	-	**NSYCRNG1012300D**	-	**NSYMM1210**	-	**NSYMF1210**
		400	2	55	60.0	-	**NSYCRNG1012400D**	-	**NSYMM1210**	-	**NSYMF1210**
1200	600	300	1	66	37.0	-	**NSYCRNG126300**	**NSYCRNG126300T**	**NSYMM126**	-	**NSYMF126**
		400	1	66	42.0	-	**NSYCRNG126400**	**NSYCRNG126400T**	**NSYMM126**	-	**NSYMF126**
	800	300	1	66	45.0	-	**NSYCRNG128300**	**NSYCRNG128300T**	**NSYMM128**	-	**NSYMF128**
		400	1	66	50.0	-	**NSYCRNG128400**	**NSYCRNG128400T**	**NSYMM128**	-	**NSYMF128**
	1000	300	2	55	56.0	-	**NSYCRNG1210300D**	-	**NSYMM1210**	-	**NSYMF1210**
		400	2	55	61.0	-	**NSYCRNG1210400D**	-	**NSYMM1210**	-	**NSYMF1210**
	1200	300	2	55	64.0	-	**NSYCRNG1212300D**	-	**NSYMM1212**	-	2 x **NSYMF126***
		400	2	55	90.0	-	**NSYCRNG1212400D**	-	**NSYMM1212**	-	2 x **NSYMF126***
1400	1000	300	2	55	80.0	-	**NSYCRNG1410300D**	-	**NSYMM1410**	-	-

(1) Enclosure without mounting plate.
(2) Two cable gland plates, one on the top, one on the bottom.
(3) Except glazed door in single door.

Selection guide
Steel wall-mounting enclosures



Characteristics			Mounting plate		Accessories		Electric distribution					
Dimensions			Telequick	Bakelite	DIN rails chassis	Step slides	DLA insulated distribution chassis	DL fixed metal distribution chassis	DLM adjustable metal distribution chassis	Plain cover plate for DLM	Mounting plate for DLM	Blanking plate
H	W	D	Page 206	Page 207	Page 207	Page 210	Page 170	Page 289	Page 288	Page 288	Page 288	Page 289
CRN Wall-mounting steel enclosures												
200	200	150	-	-	-	-	-	-	-	-	-	-
	300	150	-	NSYMB32	-	-	-	-	-	-	-	-
250	200	150	-	-	-	-	-	-	-	-	-	-
300	250	150	NSYMR3025	NSYMB3025	-	-	-	NSYDLCR18	-	-	-	-
		200	NSYMR3025	NSYMB3025	-	NSYSDCR200	-	NSYDLCR18	-	-	-	-
	300	150	NSYMR33	NSYMB33	NSYMD33	-	-	-	-	-	-	-
		200	NSYMR33	NSYMB33	NSYMD33	NSYSDCR200	-	-	-	-	-	-
	400	200	NSYMR34	NSYMB43	-	NSYSDCR200	-	-	-	-	-	-
	450	150	-	NSYMB43	-	-	-	-	-	-	-	-
400	300	150	NSYMR43	NSYMB43	NSYMD43	-	NSYDLA24G	NSYDLCR24	NSYDLM24	NSYCTL300DLM	NSYPMP300DLM	NSYATP72G
		200	NSYMR43	NSYMB43	NSYMD43	NSYSDCR200	NSYDLA24G	NSYDLCR36	NSYDLM24	NSYCTL300DLM	NSYPMP300DLM	NSYATP72G
	400	200	NSYMR44	-	-	NSYSDCR200	-	-	-	-	-	-
	600	250	NSYMR46	NSYMB64	-	NSYSDCR250	-	-	-	-	-	-
		300	NSYMR46	NSYMB64	-	NSYSDCR300	-	-	-	-	-	-
500	400	150	NSYMR54	NSYMB54	NSYMD54	-	NSYDLA48G	-	NSYDLM48	NSYCTL400DLM	NSYPMP400DLM	NSYATP72G
		200	NSYMR54	NSYMB54	NSYMD54	NSYSDCR200	NSYDLA48G	-	NSYDLM48	NSYCTL400DLM	NSYPMP400DLM	NSYATP72G
		250	NSYMR54	NSYMB54	NSYMD54	NSYSDCR250	NSYDLA48G	NSYDLCR48	NSYDLM48	NSYCTL400DLM	NSYPMP400DLM	NSYATP72G
	500	250	NSYMR55	-	-	NSYSDCR250	-	-	-	-	-	-
600	400	150	NSYMR64	NSYMB64	NSYMD64	-	NSYDLA48PG	-	NSYDLM48P	NSYCTL400DLM	NSYPMP400DLM	NSYATP72G
		200	NSYMR64	NSYMB64	NSYMD64	NSYSDCR200	NSYDLA48PG	-	NSYDLM48P	NSYCTL400DLM	NSYPMP400DLM	NSYATP72G
		250	NSYMR64	NSYMB64	NSYMD64	NSYSDCR250	NSYDLA48PG	NSYDLCR64	NSYDLM48P	NSYCTL400DLM	NSYPMP400DLM	NSYATP72G
	500	150	NSYMR65	NSYMB65	-	-	-	NSYDLCR64	-	-	-	-
		200	NSYMR65	NSYMB65	-	NSYSDCR200	-	-	-	-	-	-
		250	NSYMR65	NSYMB65	-	NSYSDCR250	-	NSYDLCR88	-	-	-	-
	600	200	NSYMR66	-	NSYMD66	NSYSDCR200	-	NSYDLCR88	NSYDLM84P	NSYCTL600DLM	NSYPMP600DLM	NSYATP72G
		250	NSYMR66	-	NSYMD66	NSYSDCR250	-	-	NSYDLM84P	NSYCTL600DLM	NSYPMP600DLM	NSYATP72G
		300	NSYMR66	-	NSYMD66	NSYSDCR300	-	-	NSYDLM84P	NSYCTL600DLM	NSYPMP600DLM	NSYATP72G
	800	300	NSYMR68	-	-	NSYSDCR300	-	-	-	-	-	-
700	500	200	NSYMR75	NSYMB75	NSYMD75	NSYSDCR200	NSYDLA66G/ NSYDLA88G	-	NSYDLM66/ NSYDLM88	NSYCTL500DLM	NSYPMP500DLM	NSYATP72G
		250	NSYMR75	NSYMB75	NSYMD75	NSYSDCR250	NSYDLA66G/ NSYDLA88G	-	NSYDLM66/ NSYDLM88	NSYCTL500DLM	NSYPMP500DLM	NSYATP72G
800	600	200	NSYMR86	NSYMB86	NSYMD86	NSYSDCR200	NSYDLA84G/ NSYDLA112G	NSYDLCR110	NSYDLM84/ NSYDLM112	NSYCTL600DLM	NSYPMP600DLM	NSYATP72G
		250	NSYMR86	NSYMB86	NSYMD86	NSYSDCR250	NSYDLA84G/ NSYDLA112G	-	NSYDLM84/ NSYDLM112	NSYCTL600DLM	NSYPMP600DLM	NSYATP72G
		300	NSYMR86	NSYMB86	NSYMD86	NSYSDCR300	NSYDLA84G/ NSYDLA112G	NSYDLCR135	NSYDLM84/ NSYDLM112	NSYCTL600DLM	NSYPMP600DLM	NSYATP72G
	800	200	NSYMR88	-	-	NSYSDCR200	-	-	-	-	-	-
		300	NSYMR88	-	-	NSYSDCR300	-	-	-	-	-	-
1000	600	250	NSYMR106	NSYMB106	-	NSYSDCR250	-	-	NSYDLM168	NSYCTL600DLM	NSYPMP600DLM	NSYATP72G
		300	NSYMR106	NSYMB106	-	NSYSDCR300	-	-	NSYDLM168	NSYCTL600DLM	NSYPMP600DLM	NSYATP72G
	800	250	NSYMR108	NSYMB108	NSYMD108	NSYSDCR250	NSYDLA234G	-	NSYDLM240	NSYCTL800DLM	NSYPMP800DLM	NSYATP72G
		300	NSYMR108	NSYMB108	NSYMD108	NSYSDCR300	NSYDLA234G	-	NSYDLM240	NSYCTL800DLM	NSYPMP800DLM	NSYATP72G
CRNG Wall-mounting steel enclosures with three-point locking system												
800	600	400	NSYMR86	NSYMB86	NSYMD86	NSYSDCR400	NSYDLA84G/ NSYDLA112G	-	NSYDLM84/ NSYDLM112	NSYCTL600DLM	NSYPMP600DLM	NSYATP72G
	1000	300	NSYMR810	-	-	NSYSDCR300	-	-	-	-	-	-
	1200	300	2 x NSYMR86*	-	-	NSYSDCR300**	-	-	-	-	-	-
1000	600	400	NSYMR106	NSYMB106	-	NSYSDCR400	-	-	NSYDLM168	NSYCTL600DLM	NSYPMP600DLM	NSYATP72G
	800	400	NSYMR108	NSYMB108	NSYMD108	NSYSDCR400	NSYDLA234G	-	NSYDLM240	NSYCTL800DLM	NSYPMP800DLM	NSYATP72G
	1000	300	NSYMR1010 (4)	NSYMB1210	-	NSYSDCR300	-	-	-	-	-	-
	1200	300	NSYMR1012 (4)	NSYMB1210	-	NSYSDCR300**	-	-	-	-	-	-
		400	NSYMR1012 (4)	-	-	NSYSDCR400**	-	-	-	-	-	-
1200	600	300	NSYMR126	-	-	NSYSDCR300	-	-	-	-	-	-
		400	NSYMR126	-	-	NSYSDCR400	-	-	-	-	-	-
	800	300	NSYMR128	-	NSYMD128	NSYSDCR300	-	-	-	-	-	-
		400	NSYMR128	-	NSYMD128	NSYSDCR400	-	-	-	-	-	-
	1000	300	NSYMR1210 (4)	NSYMB1210	-	NSYSDCR300	-	-	-	-	-	-
		400	NSYMR1210 (4)	NSYMB1210	-	NSYSDCR400	-	-	-	-	-	-
	1200	300	2 x NSYMR126*	-	-	NSYSDCR300**	-	-	-	-	-	-
		400	2 x NSYMR126*	-	-	NSYSDCR400**	-	-	-	-	-	-
1400	1000	300	NSYMR1410 (4)	-	-	NSYSDCR300	-	-	-	-	-	-

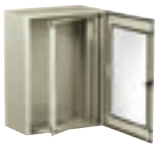
*(4) Ref. **NSYEMR** mandatory.*
** Order **NSYCRNGSDR** to mount double mounting plate.*
*** Except for double mounting plate, order in addition ref. **NSYSDRSDCR300** (D300) or **NSYSDRSDCR400** (D400).*

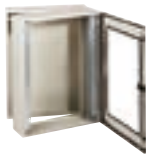
Selection guide
for applicative and customised solutions wall-mounting enclosures


PB500229-22


PB500201-21


PB500202-20


PB500403-25


PB500203-19

Characteristics					Basic enclosures						
					Empty application enclosures			19″ enclosure with glazed door (1)			
Dimensions (mm)			No. of doors	IP	S3DB terminal enclosures	S3DBFL terminal enclosures with FL21 cut-out	S3DM modular enclosures with glazed door	VDM steel enclosures with 19″ swing rack	No. of U	1-body 19″ fixed rack	No. of U
H	W	D			Page 283	Page 283	Page 287	Page 410		Page 410	
200	300	150	1	66	-	-	-	-	-	-	-
250	300	150	1	66	**NSYS3DB25315**	-	-	-	-	-	-
	400	150	1	66	**NSYS3DB25415**	-	-	-	-	-	-
	500	150	1	66	**NSYS3DB25515**	-	-	-	-	-	-
300	300	150	1	66	**NSYS3DB3315**	-	-	-	-	-	-
		170	1	66	-	**NSYS3DBFL3317**	-	-	-	-	-
	400	150	1	66	**NSYS3DB3415**	-	-	-	-	-	-
		170	1	66	-	**NSYS3DBFL3417**	-	-	-	-	-
	500	150	1	66	**NSYS3DB3515**	-	-	-	-	-	-
		200	1	66	-	-	-	-	-	-	-
	600	150	1	66	**NSYS3DB3615**	-	-	-	-	-	-
		400	1	66	-	-	-	**NSYVDM4U4P**	4	**NSYVDM5U4F**	5
		500	1	66	-	-	-	-	-	-	-
400	300	150	1	66	**NSYS3DB4315**	-	**NSYS3DM4315T**	-	-	-	-
		170	1	66	-	**NSYS3DBFL4317**	-	-	-	-	-
	600	400	1	66	-	-	-	**NSYVDM7U4P**	7	**NSYVDM8U4F**	8
		500	1	66	-	-	-	-	-	-	-
	800	150	1	66	**NSYS3DB4815**	-	-	-	-	-	-
500	400	150	1	66	**NSYS3DB5415**	-	**NSYS3DM5415T**	-	-	-	-
	600	400	1	66	-	-	-	**NSYVDM9U4P**	9	**NSYVDM10U4F**	10
		500	1	66	-	-	-	-	-	-	-
600	400	150	1	66	**NSYS3DB6415**	-	**NSYS3DM6415T**	-	-	-	-
	600	150	1	66	-	-	**NSYS3DM6615T**	-	-	-	-
700	500	150	1	66	-	-	-	-	-	-	-
		150	1	66	-	-	**NSYS3DM7515T**	-	-	-	-
	600	400	1	66	-	-	-	**NSYVDM13U4P**	13	**NSYVDM14U4F**	14
		500	1	66	-	-	-	-	-	-	-
800	600	150	1	66	-	-	-	-	-	-	-
		150	1	66	-	-	**NSYS3DM8615T**	-	-	-	-
		400	1	66	-	-	-	**NSYVDM16U4P**	16	**NSYVDM17U4F**	17
		500	1	66	-	-	-	-	-	-	-
1000	600	150	1	66	-	-	**NSYS3DM10615T**	-	-	-	-
	800	150	1	66	-	-	**NSYS3DM10815T**	-	-	-	-

(1) Plain door, please consult us.

Wall-fixing brackets


PB502979-6

Steel: **NSYAEFPFSC**
Stainless steel: **NSYAEFPFXSC**
Page 58

Reinforcement for heavy loads


PB502980-10

NSYAEFAHLBSC
Page 58

Cable gland


PB500099-19

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PB500203-19


PB500408-19


PB500404-12


PB500072-13


PB500102-15


PB500105-15

Characteristics					Basic enclosures 19″ enclosure with glazed door (1)		Accessories Electricity distribution		Automatism			
Dimensions (mm)			No. of doors	IP	2 parts with 19″ fixed rack	No. of U	Modular mounting chassis (metallic)	No. of modules	DIN rail support and DIN rail	Plain mounting plate	Telequick mounting plate	Aluminium vertical rails
H	W	D			Page 410		Page 288			Page 206	Page 206	Page 211
200	300	150	1	66	-	-	-	-	NSYAMRD2030	NSYMM32	-	-
250	300	150	1	66	-	-	-	-	NSYAMRD2530	NSYMM3025	-	-
	400	150	1	66	-	-	-	-	NSYAMRD2540	NSYMM2540	-	-
	500	150	1	66	-	-	-	-	NSYAMRD2550	NSYMM2550	-	-
300	300	150	1	66	-	-	-	-	NSYAMRD3030	NSYMM33	NSYMR33	NSYMDVR3
		170	1	66	-	-	-	-	NSYAMRD3030	NSYMM33	NSYMR33	-
	400	150	1	66	-	-	-	-	NSYAMRD3040	NSYMM43	NSYMR34	NSYMDVR3
		170	1	66	-	-	-	-	NSYAMRD3040	NSYMM43	NSYMR34	-
	500	150	1	66	-	-	-	-	NSYAMRD3050	NSYMM53	-	NSYMDVR3
		200	1	66	-	-	-	-	NSYAMRD3050	NSYMM53	-	NSYMDVR3
	600	150	1	66	-	-	-	-	NSYAMRD36	NSYMM36	-	NSYMDVR3
		400	1	66	NSYVD2M5U4	5	-	-	NSYAMRD36	NSYMM36	-	NSYMDVR3
		500	1	66	NSYVD2M5U5	5	-	-	NSYAMRD36	NSYMM36	-	NSYMDVR3
400	300	150	1	66	-	-	NSYDLM24	24	NSYAMRD43	NSYMM43	NSYMR43	NSYMDVR4
		170	1	66	-	-	-	-	NSYAMRD43	NSYMM43	NSYMR43	-
	600	400	1	66	NSYVD2M8U4	8	-	-	-	NSYMM64	NSYMR46	NSYMDVR4
		500	1	66	NSYVD2M8U5	8	-	-	NSYAMRD48	NSYMM64	NSYMR46	NSYMDVR4
	800	150	1	66	-	-	-	-	NSYAMRD54	NSYMM48	-	NSYMDVR4
500	400	150	1	66	-	-	NSYDLM48	48	-	NSYMM54	NSYMR54	NSYMDVR5
	600	400	1	66	NSYVD2M10U4	10	-	-	-	NSYMM65	-	NSYMDVR5
		500	1	66	NSYVD2M10U5	10	-	-	-	NSYMM65	-	NSYMDVR5
600	400	150	1	66	-	-	NSYDLM48P	48	NSYAMRD64	NSYMM64	NSYMR64	NSYMDVR6
	600	150	1	66	-	-	NSYDLM84P	84	-	NSYMM66	NSYMR66	NSYMDVR6
700	500	150	1	66	-	-	NSYDLM66	66	-	NSYMM75	NSYMR75	NSYMDVR7
		150	1	66	-	-	NSYDLM88	88	-	NSYMM75	NSYMR75	NSYMDVR7
	600	400	1	66	NSYVD2M14U4	14	-	-	-	NSYMM76	NSYMR76	NSYMDVR7
		500	1	66	NSYVD2M14U5	14	-	-	-	NSYMM76	NSYMR76	NSYMDVR7
800	600	150	1	66	-	-	NSYDLM84	84	-	NSYMM86	NSYMR86	NSYMDVR8
		150	1	66	-	-	NSYDLM112	112	-	NSYMM86	NSYMR86	NSYMDVR8
		400	1	66	NSYVD2M17U4	17	-	-	-	NSYMM86	NSYMR86	NSYMDVR8
		500	1	66	NSYVD2M17U5	17	-	-	-	NSYMM86	NSYMR86	NSYMDVR8
1000	600	150	1	66	-	-	NSYDLM168	168	-	NSYMM106	NSYMR106	NSYMDVR10
	800	150	1	66	-	-	NSYDLM240	234	-	NSYMM108	NSYMR108	NSYMDVR10

Other cable entries


PB500106-18


PB500023-19

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Clip-on nuts


PB500107-17

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Self-tapping screw

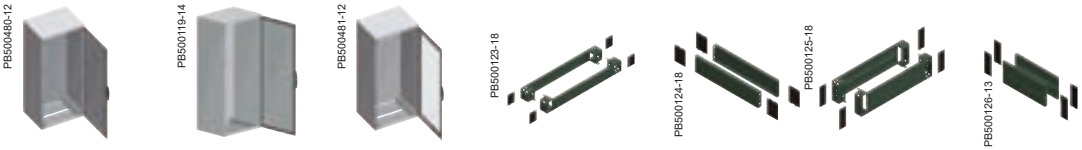

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NSYS13M5HS

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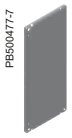
Characteristics				Door			Plinth			
Dimensions (mm)			No. of doors	Plain		Transparent	Height 100 mm		Height 200 mm	
H (A)	W (B)	D (C)		With mounting plate	Without mounting plate	Without mounting plate	Front kit (corners + front panels)	Side panels, 2 u.	Front kit (corners + front panels)	Side panels, 4 u.
1200	800	300	1	NSYSM12830P	NSYSM12830	-	NSYSPF8100	NSYSPS3100	NSYSPF8200	NSYSPS3200
	1000	300	2	NSYSM1210302DP	NSYSM1210302D	-	NSYSPF10100	NSYSPS3100	NSYSPF10200	NSYSPS3200
	1200	400	2	NSYSM1212402DP	NSYSM1212402D	-	NSYSPF12100	NSYSPS4100	NSYSPF12200	NSYSPS4200
1400	600	300	1	NSYSM14630P	NSYSM14630	-	NSYSPF6100	NSYSPS3100	NSYSPF6200	NSYSPS3200
		400	1	NSYSM14640P	NSYSM14640	-	NSYSPF6100	NSYSPS4100	NSYSPF6200	NSYSPS4200
	800	300	1	NSYSM14830P	NSYSM14830	-	NSYSPF8100	NSYSPS3100	NSYSPF8200	NSYSPS3200
		400	1	NSYSM14840P	NSYSM14840	NSYSM14840T	NSYSPF8100	NSYSPS4100	NSYSPF8200	NSYSPS4200
	1000	400	2	NSYSM1410402DP	NSYSM1410402D	-	NSYSPF10100	NSYSPS4100	NSYSPF10200	NSYSPS4200
	1200	400	2	NSYSM1412402DP	NSYSM1412402D	-	NSYSPF12100	NSYSPS4100	NSYSPF12200	NSYSPS4200
1600	600	300	1	NSYSM16630P	NSYSM16630	-	NSYSPF6100	NSYSPS3100	NSYSPF6200	NSYSPS3200
		400	1	NSYSM16640P	NSYSM16640	NSYSM16640T	NSYSPF6100	NSYSPS4100	NSYSPF6200	NSYSPS4200
	800	300	1	NSYSM16830P	NSYSM16830	NSYSM16830T	NSYSPF8100	NSYSPS3100	NSYSPF8200	NSYSPS3200
		400	1	NSYSM16840P	NSYSM16840	NSYSM16840T	NSYSPF8100	NSYSPS4100	NSYSPF8200	NSYSPS4200
	1000	300	2	NSYSM1610302DP	NSYSM1610302D	-	NSYSPF10100	NSYSPS3100	NSYSPF10200	NSYSPS3200
		400	2	NSYSM1610402DP	NSYSM1610402D	-	NSYSPF10100	NSYSPS4100	NSYSPF10200	NSYSPS4200
	1200	300	2	NSYSM1612302DP	NSYSM1612302D	-	NSYSPF12100	NSYSPS3100	NSYSPF12200	NSYSPS3200
		400	2	NSYSM1612402DP	NSYSM1612402D	-	NSYSPF12100	NSYSPS4100	NSYSPF12200	NSYSPS4200
1800	600	300	1	NSYSM18630P	NSYSM18630	-	NSYSPF6100	NSYSPS3100	NSYSPF6200	NSYSPS3200
		400	1	NSYSM18640P	NSYSM18640	NSYSM18640T	NSYSPF6100	NSYSPS4100	NSYSPF6200	NSYSPS4200
		500	1	NSYSM18650P	NSYSM18650	-	NSYSPF6100	NSYSPS5100	NSYSPF6200	NSYSPS5200
	800	300	1	NSYSM18830P	NSYSM18830	NSYSM18830T	NSYSPF8100	NSYSPS3100	NSYSPF8200	NSYSPS3200
		400	1	NSYSM18840P	NSYSM18840	NSYSM18840T	NSYSPF8100	NSYSPS4100	NSYSPF8200	NSYSPS4200
		500	1	NSYSM18850P	NSYSM18850	NSYSM18850T	NSYSPF8100	NSYSPS5100	NSYSPF8200	NSYSPS5200
		600	1	NSYSM18860P	NSYSM18860	-	NSYSPF8100	NSYSPS6100	NSYSPF8200	NSYSPS6200
	1000	400	1	NSYSM181040P	NSYSM181040	-	NSYSPF10100	NSYSPS4100	NSYSPF10200	NSYSPS4200
		400	2	NSYSM1810402DP	NSYSM1810402D	-	NSYSPF10100	NSYSPS4100	NSYSPF10200	NSYSPS4200
		500	2	NSYSM1810502DP	NSYSM1810502D	-	NSYSPF10100	NSYSPS5100	NSYSPF10200	NSYSPS5200
	1200	400	2	NSYSM1812402DP	NSYSM1812402D	-	NSYSPF12100	NSYSPS4100	NSYSPF12200	NSYSPS4200
		500	2	NSYSM1812502DP	NSYSM1812502D	-	NSYSPF12100	NSYSPS5100	NSYSPF12200	NSYSPS5200
	1600	400	2	NSYSM1816402DP	NSYSM1816402D	-	NSYSPF16100	NSYSPS4100	NSYSPF16200	NSYSPS4200
		500	2	NSYSM1816502DP	NSYSM1816502D	-	NSYSPF16100	NSYSPS5100	NSYSPF16200	NSYSPS5200
2000	600	300	1	NSYSM20630P	NSYSM20630	-	NSYSPF6100	NSYSPS3100	NSYSPF6200	NSYSPS3200
		400	1	NSYSM20640P	NSYSM20640	NSYSM20640T	NSYSPF6100	NSYSPS4100	NSYSPF6200	NSYSPS4200
		500	1	NSYSM20650P	NSYSM20650	-	NSYSPF6100	NSYSPS5100	NSYSPF6200	NSYSPS5200
	800	300	1	NSYSM20830P	NSYSM20830	NSYSM20830T	NSYSPF8100	NSYSPS3100	NSYSPF8200	NSYSPS3200
		400	1	NSYSM20840P	NSYSM20840	NSYSM20840T	NSYSPF8100	NSYSPS4100	NSYSPF8200	NSYSPS4200
		500	1	NSYSM20850P	NSYSM20850	NSYSM20850T	NSYSPF8100	NSYSPS5100	NSYSPF8200	NSYSPS5200
		600	1	NSYSM20860P	NSYSM20860	NSYSM20860T	NSYSPF8100	NSYSPS6100	NSYSPF8200	NSYSPS6200
	1000	400	2	NSYSM2010402DP	NSYSM2010402D	-	NSYSPF10100	NSYSPS4100	NSYSPF10200	NSYSPS4200
		500	2	NSYSM2010502DP	NSYSM2010502D	-	NSYSPF10100	NSYSPS5100	NSYSPF10200	NSYSPS5200
	1200	400	2	NSYSM2012402DP	NSYSM2012402D	-	NSYSPF12100	NSYSPS4100	NSYSPF12200	NSYSPS4200
		500	2	NSYSM2012502DP	NSYSM2012502D	-	NSYSPF12100	NSYSPS5100	NSYSPF12200	NSYSPS5200
		600	2	NSYSM2012602DP	NSYSM2012602D	-	NSYSPF12100	NSYSPS6100	NSYSPF12200	NSYSPS6200
	1600	400	2	NSYSM2016402DP	NSYSM2016402D	-	NSYSPF16100	NSYSPS4100	NSYSPF16200	NSYSPS4200
		500	2	NSYSM2016502DP	NSYSM2016502D	-	NSYSPF16100	NSYSPS5100	NSYSPF16200	NSYSPS5200
		600	2	NSYSM2016602DP	NSYSM2016602D	-	NSYSPF16100	NSYSPS6100	NSYSPF16200	NSYSPS6200

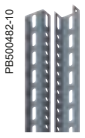
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Steel floor-standing enclosures

SM











Characteristics				Inner door	Mounting plate	Vertical uprights		Off-centre 19" swing rack	Centred 19" swing rack
Dimensions (mm)			No. of doors			Standard	Technical		
H (A)	W (B)	D (C)							
1200	800	300	1	-	NSYMP128	-	NSYTVR12	-	-
	1000	300	2	-	NSYMP1210	-	NSYTVR12	-	-
	1200	400	2	-	NSYMP1212	-	NSYTVR12	-	-
1400	600	300	1	-	NSYMP146	-	NSYTVR14	-	-
		400	1	-	NSYMP146	-	NSYTVR14	-	-
	800	300	1	-	NSYMP148	-	NSYTVR14	NSYRSW27	NSYRSWC27
		400	1	-	NSYMP148	-	NSYTVR14	NSYRSW27	NSYRSWC27
	1000	400	2	-	NSYMP1410	-	NSYTVR14	-	-
	1200	400	2	-	NSYMP1412	-	NSYTVR14	-	-
1600	600	300	1	NSYID166	NSYMP166	-	NSYTVR16	-	-
		400	1	NSYID166	NSYMP166	-	NSYTVR16	-	-
	800	300	1	NSYID168	NSYMP168	-	NSYTVR16	NSYRSW31	NSYRSWC31
		400	1	NSYID168	NSYMP168	-	NSYTVR16	NSYRSW31	NSYRSWC31
	1000	300	2	-	NSYMP1610	-	NSYTVR16	-	-
		400	2	-	NSYMP1610	-	NSYTVR16	-	-
	1200	300	2	-	NSYMP1612	-	NSYTVR16	-	-
		400	2	-	NSYMP1612	-	NSYTVR16	-	-
1800	600	300	1	NSYID186	NSYMP186	NSYVR18	NSYTVR18	-	-
		400	1	NSYID186	NSYMP186	NSYVR18	NSYTVR18	-	-
		500	1	NSYID186	NSYMP186	NSYVR18	NSYTVR18	-	-
	800	300	1	NSYID188	NSYMP188	NSYVR18	NSYTVR18	NSYRSW36	NSYRSWC36
		400	1	NSYID188	NSYMP188	NSYVR18	NSYTVR18	NSYRSW36	NSYRSWC36
		500	1	NSYID188	NSYMP188	NSYVR18	NSYTVR18	NSYRSW36	NSYRSWC36
		600	1	NSYID188	NSYMP188	NSYVR18	NSYTVR18	NSYRSW36	NSYRSWC36
	1000	400	1	NSYID1810	NSYMP1810	NSYVR18	NSYTVR18	-	-
		400	2	NSYID1810	NSYMP1810	NSYVR18	NSYTVR18	-	-
		500	2	NSYID1810	NSYMP1810	NSYVR18	NSYTVR18	-	-
	1200	400	2	-	NSYMP1812	NSYVR18	NSYTVR18	-	-
		500	2	-	NSYMP1812	NSYVR18	NSYTVR18	-	-
	1600	400	2	-	NSYMP1816	NSYVR18	NSYTVR18	-	-
		500	2	-	NSYMP1816	NSYVR18	NSYTVR18	-	-
2000	600	300	1	NSYID206	NSYMP206	NSYVR20	NSYTVR20	-	-
		400	1	NSYID206	NSYMP206	NSYVR20	NSYTVR20	-	-
		500	1	NSYID206	NSYMP206	NSYVR20	NSYTVR20	-	-
	800	300	1	NSYID208	NSYMP208	NSYVR20	NSYTVR20	NSYRSW40	NSYRSWC40
		400	1	NSYID208	NSYMP208	NSYVR20	NSYTVR20	NSYRSW40	NSYRSWC40
		500	1	NSYID208	NSYMP208	NSYVR20	NSYTVR20	NSYRSW40	NSYRSWC40
		600	1	NSYID208	NSYMP208	NSYVR20	NSYTVR20	NSYRSW40	NSYRSWC40
	1000	400	2	NSYID2010	NSYMP2010	NSYVR20	NSYTVR20	-	-
		500	2	NSYID2010	NSYMP2010	NSYVR20	NSYTVR20	-	-
	1200	400	2	-	NSYMP2012	NSYVR20	NSYTVR20	-	-
		500	2	-	NSYMP2012	NSYVR20	NSYTVR20	-	-
		600	2	-	NSYMP2012	NSYVR20	NSYTVR20	-	-
	1600	400	2	-	NSYMP2016	NSYVR20	NSYTVR20	-	-
		500	2	-	NSYMP2016	NSYVR20	NSYTVR20	-	-
		600	2	-	NSYMP2016	NSYVR20	NSYTVR20	-	-

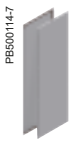
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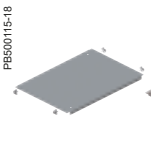
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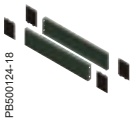


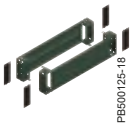
Nominal dimensions (mm)			No. of doors	Door			Side panels	Cable-entry plate		
				Plain		Transparent				
Height (A)	Width (B)	Depth (C)		With mounting plate	Without mounting plate	Without mounting plate		Plain	1 entry	2 entries
1200	600	400	1	NSYSF12640P	NSYSF12640	-	NSY2SP124	NSYEC64	NSYEC641	-
		600	1	NSYSF12660P	NSYSF12660	-	NSY2SP126	NSYEC66	NSYEC661	NSYEC662
	800	400	1	NSYSF12840P	NSYSF12840	-	NSY2SP124	NSYEC84	NSYEC841	-
		600	1	NSYSF12860P	NSYSF12860	-	NSY2SP126	NSYEC86	NSYEC861	NSYEC862
1400	600	400	1	NSYSF14640P	NSYSF14640	-	NSY2SP144	NSYEC64	NSYEC641	-
	800	400	1	NSYSF14840P	NSYSF14840	-	NSY2SP144	NSYEC84	NSYEC841	-
1600	600	600	1	NSYSF16660P	NSYSF16660	-	NSY2SP166	NSYEC66	NSYEC661	NSYEC662
		800	1	NSYSF16680P	NSYSF16680	-	NSY2SP168	NSYEC68	NSYEC681	NSYEC682
	800	600	1	NSYSF16860P	NSYSF16860	-	NSY2SP166	NSYEC86	NSYEC861	NSYEC862
		800	1	NSYSF16880P	NSYSF16880	-	NSY2SP168	NSYEC88	NSYEC881	NSYEC882
1800	400	400	1	-	NSYSF18440	-	NSY2SP184	NSYEC44	NSYEC441	-
		500	1	-	NSYSF18450	-	NSY2SP185	NSYEC45	NSYEC451	-
		600	1	-	NSYSF18460	-	NSY2SP186	-	NSYEC461	-
	600	400	1	NSYSF18640P	NSYSF18640	NSYSF18640T	NSY2SP184	NSYEC64	NSYEC641	-
		500	1	NSYSF18650P	NSYSF18650	NSYSF18650T	NSY2SP185	NSYEC65	NSYEC651	-
		600	1	NSYSF18660P	NSYSF18660	-	NSY2SP186	NSYEC66	NSYEC661	NSYEC662
		800	1	-	-	NSYSF18680T	NSY2SP188	NSYEC68	NSYEC681	NSYEC682
	800	400	1	NSYSF18840P	NSYSF18840	NSYSF18840T	NSY2SP184	NSYEC84	NSYEC841	-
		500	1	NSYSF18850P	NSYSF18850	NSYSF18850T	NSY2SP185	NSYEC85	NSYEC851	-
		600	1	NSYSF18860P	NSYSF18860	NSYSF18860T	NSY2SP186	NSYEC86	NSYEC861	NSYEC862
		600	2	NSYSF188602DP	NSYSF188602D	-	NSY2SP186	NSYEC86	NSYEC861	NSYEC862
	1000	400	1	NSYSF181040P	NSYSF181040	-	NSY2SP184	NSYEC104	NSYEC1041	-
		400	2	NSYSF1810402DP	NSYSF1810402D	-	NSY2SP184	NSYEC104	NSYEC1041	-
		500	1	NSYSF181050P	NSYSF181050	-	NSY2SP185	NSYEC105	NSYEC1051	-
		600	1	NSYSF181060P	NSYSF181060	-	NSY2SP186	NSYEC106	NSYEC1061	NSYEC1062
		600	2	NSYSF1810602DP	NSYSF1810602D	-	NSY2SP186	NSYEC106	NSYEC1061	NSYEC1062
	1200	400	2	NSYSF1812402DP	NSYSF1812402D	-	NSY2SP184	NSYEC124	NSYEC1241	-
		500	2	NSYSF1812502DP	NSYSF1812502D	-	NSY2SP185	NSYEC125	NSYEC1251	-
		600	2	NSYSF1812602DP	NSYSF1812602D	-	NSY2SP186	NSYEC126	NSYEC1261	NSYEC1262
2000	300	500	1	-	NSYSF20350	-	NSY2SP205	NSYEC35	NSYEC351	-
		600	1	-	NSYSF20360	-	NSY2SP206	NSYEC36	NSYEC361	-
		800	1	-	NSYSF20380	-	NSY2SP208	-	NSYEC381	-
	400	400	1	-	NSYSF20440	-	NSY2SP204	NSYEC44	NSYEC441	-
		500	1	-	NSYSF20450	-	NSY2SP205	NSYEC45	NSYEC451	-
		600	1	-	NSYSF20460	-	NSY2SP206	NSYEC64	NSYEC461	-
		800	1	-	NSYSF20480	-	NSY2SP208	NSYEC84	NSYEC481	-
	600	400	1	NSYSF20640P	NSYSF20640	NSYSF20640T	NSY2SP204	NSYEC64	NSYEC641	-
		500	1	NSYSF20650P	NSYSF20650	NSYSF20650T	NSY2SP205	NSYEC65	NSYEC651	-
		600	1	NSYSF20660P	NSYSF20660	-	NSY2SP206	NSYEC66	NSYEC661	NSYEC662
		800	1	NSYSF20680P	NSYSF20680	-	NSY2SP208	NSYEC68	NSYEC681	NSYEC682
	800	400	1	NSYSF20840P	NSYSF20840	NSYSF20840T	NSY2SP204	NSYEC84	NSYEC841	-
		500	1	NSYSF20850P	NSYSF20850	NSYSF20850T	NSY2SP205	NSYEC85	NSYEC851	-
		600	1	NSYSF20860P	NSYSF20860	NSYSF20860T	NSY2SP206	NSYEC86	NSYEC861	NSYEC862
		600	2	NSYSF208602DP	NSYSF208602D	-	NSY2SP206	NSYEC86	NSYEC861	NSYEC862
		800	1	NSYSF20880P	NSYSF20880	NSYSF20880T	NSY2SP208	NSYEC88	NSYEC881	NSYEC882
	1000	400	1	NSYSF201040P	NSYSF201040	NSYSF201040T	NSY2SP204	NSYEC104	NSYEC1041	-
		400	2	NSYSF2010402DP	NSYSF2010402D	-	NSY2SP204	NSYEC104	NSYEC1041	-
		500	1	NSYSF201050P	NSYSF201050	NSYSF201050T	NSY2SP205	NSYEC105	NSYEC1051	-
		500	2	NSYSF2010502DP	NSYSF2010502D	-	NSY2SP205	NSYEC105	NSYEC1051	-
		600	1	NSYSF201060P	NSYSF201060	NSYSF201060T	NSY2SP206	NSYEC106	NSYEC1061	NSYEC1062
		600	2	NSYSF2010602DP	NSYSF2010602D	-	NSY2SP206	NSYEC106	NSYEC1061	NSYEC1062
		800	1	NSYSF201080P	NSYSF201080	-	NSY2SP208	NSYEC108	NSYEC1081	NSYEC1082
	1200	400	2	NSYSF2012402DP	NSYSF2012402D	-	NSY2SP204	NSYEC124	NSYEC1241	-
		500	2	NSYSF2012502DP	NSYSF2012502D	-	NSY2SP205	NSYEC125	NSYEC1251	-
		600	2	NSYSF2012602DP	NSYSF2012602D	-	NSY2SP206	NSYEC126	NSYEC1261	NSYEC1262
		800	2	NSYSF2012802DP	NSYSF2012802D	-	NSY2SP208	NSYEC128	NSYEC1281	NSYEC1282
	1600	400	2	NSYSF2016402DP	NSYSF2016402D	-	NSY2SP204	NSYEC164	NSYEC1641	-
		500	2	NSYSF2016502DP	NSYSF2016502D	-	NSY2SP205	NSYEC165	NSYEC1651	-
		600	2	NSYSF2016602DP	NSYSF2016602D	-	NSY2SP206	NSYEC166	NSYEC1661	NSYEC1662
2200	400	600	1	-	NSYSF22460	-	NSY2SP226	-	NSYEC461	-
	600	600	1	NSYSF22660P	NSYSF22660	-	NSY2SP226	NSYEC66	NSYEC661	NSYEC662
		800	1	NSYSF22680P	NSYSF22680	-	NSY2SP228	NSYEC68	NSYEC681	NSYEC682
	800	600	1	NSYSF22860P	NSYSF22860	-	NSY2SP226	NSYEC86	NSYEC861	NSYEC862
		800	1	NSYSF22880P	NSYSF22880	NSYSF22880T	NSY2SP228	NSYEC88	NSYEC881	NSYEC882
	1000	600	1	NSYSF221060P	NSYSF221060	-	NSY2SP226	NSYEC106	NSYEC1061	NSYEC1062
	1200	600	2	NSYSF2212602DP	NSYSF2212602D	-	NSY2SP226	NSYEC126	NSYEC1261	NSYEC1262
		800	2	NSYSF2212802DP	NSYSF2212802D	-	NSY2SP228	NSYEC128	NSYEC1281	NSYEC1282

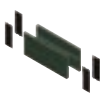
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Steel floor-standing enclosures

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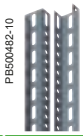

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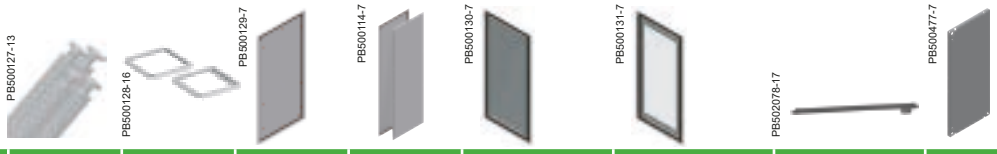

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PB500483-13

Nominal dimensions (mm)			Plinth				Mounting plate	Intermediate mounting plate	Vertical uprights	
			Height 100 mm		Height 200 mm				Standard	Technical
Height (A)	Width (B)	Depth (C)	Front kit (corners + front panels)	Side panels, 2 u.	Front kit (corners + front panels)	Side panels, 4 u.				
1200	600	400	NSYSPF6100	NSYSPS4100	NSYSPF6200	NSYSPS4200	NSYMP126	NSYSIMP12	-	NSYTVR12
		600	NSYSPF6100	NSYSPS6100	NSYSPF6200	NSYSPS6200	NSYMP126	NSYSIMP12	-	NSYTVR12
	800	400	NSYSPF8100	NSYSPS4100	NSYSPF8200	NSYSPS4200	NSYMP128	NSYSIMP12	-	NSYTVR12
		600	NSYSPF8100	NSYSPS6100	NSYSPF8200	NSYSPS6200	NSYMP128	NSYSIMP12	-	NSYTVR12
1400	600	400	NSYSPF6100	NSYSPS4100	NSYSPF6200	NSYSPS4200	NSYMP146	NSYSIMP14	-	NSYTVR14
	800	400	NSYSPF8100	NSYSPS4100	NSYSPF8200	NSYSPS4200	NSYMP148	NSYSIMP14	-	NSYTVR14
1600	600	600	NSYSPF6100	NSYSPS6100	NSYSPF6200	NSYSPS6200	NSYMP166	NSYSIMP16	-	NSYTVR16
		800	NSYSPF6100	NSYSPS8100	NSYSPF6200	NSYSPS8200	NSYMP166	NSYSIMP16	-	NSYTVR16
	800	600	NSYSPF8100	NSYSPS6100	NSYSPF8200	NSYSPS6200	NSYMP168	NSYSIMP16	-	NSYTVR16
		800	NSYSPF8100	NSYSPS8100	NSYSPF8200	NSYSPS8200	NSYMP168	NSYSIMP16	-	NSYTVR16
1800	400	400	NSYSPF4100	NSYSPS4100	NSYSPF4200	NSYSPS4200	-	-	NSYVR18	NSYTVR18
		500	NSYSPF4100	NSYSPS5100	NSYSPF4200	NSYSPS5200	-	-	NSYVR18	NSYTVR18
		600	NSYSPF4100	NSYSPS6100	NSYSPF4200	NSYSPS6200	-	-	NSYVR18	NSYTVR18
	600	400	NSYSPF6100	NSYSPS4100	NSYSPF6200	NSYSPS4200	NSYMP186	NSYSIMP18	NSYVR18	NSYTVR18
		500	NSYSPF6100	NSYSPS5100	NSYSPF6200	NSYSPS5200	NSYMP186	NSYSIMP18	NSYVR18	NSYTVR18
		600	NSYSPF6100	NSYSPS6100	NSYSPF6200	NSYSPS6200	NSYMP186	NSYSIMP18	NSYVR18	NSYTVR18
		800	NSYSPF6100	NSYSPS8100	NSYSPF6200	NSYSPS8200	NSYMP186	NSYSIMP18	NSYVR18	NSYTVR18
	800	400	NSYSPF8100	NSYSPS4100	NSYSPF8200	NSYSPS4200	NSYMP188	NSYSIMP18	NSYVR18	NSYTVR18
		500	NSYSPF8100	NSYSPS5100	NSYSPF8200	NSYSPS5200	NSYMP188	NSYSIMP18	NSYVR18	NSYTVR18
		600	NSYSPF8100	NSYSPS6100	NSYSPF8200	NSYSPS6200	NSYMP188	NSYSIMP18	NSYVR18	NSYTVR18
		600	NSYSPF8100	NSYSPS6100	NSYSPF8200	NSYSPS6200	NSYMP188	NSYSIMP18	NSYVR18	NSYTVR18
	1000	400	NSYSPF10100	NSYSPS4100	NSYSPF10200	NSYSPS4200	NSYMP1810	NSYSIMP18	NSYVR18	NSYTVR18
		400	NSYSPF10100	NSYSPS4100	NSYSPF10200	NSYSPS4200	NSYMP1810	NSYSIMP18	NSYVR18	NSYTVR18
		500	NSYSPF10100	NSYSPS5100	NSYSPF10200	NSYSPS5200	NSYMP1810	NSYSIMP18	NSYVR18	NSYTVR18
		600	NSYSPF10100	NSYSPS6100	NSYSPF10200	NSYSPS6200	NSYMP1810	NSYSIMP18	NSYVR18	NSYTVR18
		600	NSYSPF10100	NSYSPS6100	NSYSPF10200	NSYSPS6200	NSYMP1810	NSYSIMP18	NSYVR18	NSYTVR18
	1200	400	NSYSPF12100	NSYSPS4100	NSYSPF12200	NSYSPS4200	NSYMP1812	NSYSIMP18	NSYVR18	NSYTVR18
		500	NSYSPF12100	NSYSPS5100	NSYSPF12200	NSYSPS5200	NSYMP1812	NSYSIMP18	NSYVR18	NSYTVR18
		600	NSYSPF12100	NSYSPS6100	NSYSPF12200	NSYSPS6200	NSYMP1812	NSYSIMP18	NSYVR18	NSYTVR18
2000	300	500	NSYSPF3100	NSYSPS5100	NSYSPF3200	NSYSPS5200	-	-	NSYVR20	NSYTVR20
		600	NSYSPF3100	NSYSPS6100	NSYSPF3200	NSYSPS6200	-	-	NSYVR20	NSYTVR20
		800	NSYSPF3100	NSYSPS8100	NSYSPF3200	NSYSPS8200	-	-	NSYVR20	NSYTVR20
	400	400	NSYSPF4100	NSYSPS4100	NSYSPF4200	NSYSPS4200	-	-	NSYVR20	NSYTVR20
		500	NSYSPF4100	NSYSPS5100	NSYSPF4200	NSYSPS5200	-	-	NSYVR20	NSYTVR20
		600	NSYSPF4100	NSYSPS6100	NSYSPF4200	NSYSPS6200	-	-	NSYVR20	NSYTVR20
		800	NSYSPF4100	NSYSPS8100	NSYSPF4200	NSYSPS8200	-	-	NSYVR20	NSYTVR20
	600	400	NSYSPF6100	NSYSPS4100	NSYSPF6200	NSYSPS4200	NSYMP206	NSYSIMP20	NSYVR20	NSYTVR20
		500	NSYSPF6100	NSYSPS5100	NSYSPF6200	NSYSPS5200	NSYMP206	NSYSIMP20	NSYVR20	NSYTVR20
		600	NSYSPF6100	NSYSPS6100	NSYSPF6200	NSYSPS6200	NSYMP206	NSYSIMP20	NSYVR20	NSYTVR20
		800	NSYSPF6100	NSYSPS8100	NSYSPF6200	NSYSPS8200	NSYMP206	NSYSIMP20	NSYVR20	NSYTVR20
	800	400	NSYSPF8100	NSYSPS4100	NSYSPF8200	NSYSPS4200	NSYMP208	NSYSIMP20	NSYVR20	NSYTVR20
		500	NSYSPF8100	NSYSPS5100	NSYSPF8200	NSYSPS5200	NSYMP208	NSYSIMP20	NSYVR20	NSYTVR20
		600	NSYSPF8100	NSYSPS6100	NSYSPF8200	NSYSPS6200	NSYMP208	NSYSIMP20	NSYVR20	NSYTVR20
		600	NSYSPF8100	NSYSPS6100	NSYSPF8200	NSYSPS6200	NSYMP208	NSYSIMP20	NSYVR20	NSYTVR20
		800	NSYSPF8100	NSYSPS8100	NSYSPF8200	NSYSPS8200	NSYMP208	NSYSIMP20	NSYVR20	NSYTVR20
	1000	400	NSYSPF10100	NSYSPS4100	NSYSPF10200	NSYSPS4200	NSYMP2010	NSYSIMP20	NSYVR20	NSYTVR20
		400	NSYSPF10100	NSYSPS4100	NSYSPF10200	NSYSPS4200	NSYMP2010	NSYSIMP20	NSYVR20	NSYTVR20
		500	NSYSPF10100	NSYSPS5100	NSYSPF10200	NSYSPS5200	NSYMP2010	NSYSIMP20	NSYVR20	NSYTVR20
		500	NSYSPF10100	NSYSPS5100	NSYSPF10200	NSYSPS5200	NSYMP2010	NSYSIMP20	NSYVR20	NSYTVR20
		600	NSYSPF10100	NSYSPS6100	NSYSPF10200	NSYSPS6200	NSYMP2010	NSYSIMP20	NSYVR20	NSYTVR20
		600	NSYSPF10100	NSYSPS6100	NSYSPF10200	NSYSPS6200	NSYMP2010	NSYSIMP20	NSYVR20	NSYTVR20
		800	NSYSPF10100	NSYSPS8100	NSYSPF10200	NSYSPS8200	NSYMP2010	NSYSIMP20	NSYVR20	NSYTVR20
	1200	400	NSYSPF12100	NSYSPS4100	NSYSPF12200	NSYSPS4200	NSYMP2012	NSYSIMP20	NSYVR20	NSYTVR20
		500	NSYSPF12100	NSYSPS5100	NSYSPF12200	NSYSPS5200	NSYMP2012	NSYSIMP20	NSYVR20	NSYTVR20
		600	NSYSPF12100	NSYSPS6100	NSYSPF12200	NSYSPS6200	NSYMP2012	NSYSIMP20	NSYVR20	NSYTVR20
		800	NSYSPF12100	NSYSPS8100	NSYSPF12200	NSYSPS8200	NSYMP2012	NSYSIMP20	NSYVR20	NSYTVR20
	1600	400	NSYSPF16100	NSYSPS4100	NSYSPF16200	NSYSPS4200	NSYMP2016	NSYSIMP20	NSYVR20	NSYTVR20
		500	NSYSPF16100	NSYSPS5100	NSYSPF16200	NSYSPS5200	NSYMP2016	NSYSIMP20	NSYVR20	NSYTVR20
		600	NSYSPF16100	NSYSPS6100	NSYSPF16200	NSYSPS6200	NSYMP2016	NSYSIMP20	NSYVR20	NSYTVR20
2200	400	600	NSYSPF4100	NSYSPS6100	NSYSPF4200	NSYSPS6200	-	-	NSYVR22	NSYTVR22
	600	600	NSYSPF6100	NSYSPS6100	NSYSPF6200	NSYSPS6200	NSYMP226	NSYSIMP22	NSYVR22	NSYTVR22
		800	NSYSPF6100	NSYSPS8100	NSYSPF6200	NSYSPS8200	NSYMP226	NSYSIMP22	NSYVR22	NSYTVR22
	800	600	NSYSPF8100	NSYSPS6100	NSYSPF8200	NSYSPS6200	NSYMP228	NSYSIMP22	NSYVR22	NSYTVR22
		800	NSYSPF8100	NSYSPS8100	NSYSPF8200	NSYSPS8200	NSYMP228	NSYSIMP22	NSYVR22	NSYTVR22
	1000	600	NSYSPF10100	NSYSPS6100	NSYSPF10200	NSYSPS6200	NSYMP2210	NSYSIMP22	NSYVR22	NSYTVR22
	1200	600	NSYSPF12100	NSYSPS6100	NSYSPF12200	NSYSPS6200	NSYMP2212	NSYSIMP22	NSYVR22	NSYTVR22
		800	NSYSPF12100	NSYSPS8100	NSYSPF12200	NSYSPS8200	NSYMP2212	NSYSIMP22	NSYVR22	NSYTVR22

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Steel floor-standing enclosures

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Nominal dimensions (mm)			No. of doors	Vertical uprights	Bottom frame and top frame with roof	Rear panel	Side panels	Plain door (1)	Transparent door (Securit® glass) (1)	Door Trim plate	Mounting plate
Height (A)	Width (B)	Depth (C)									
1200	600	400	1	NSYSFV12	NSYSFC64	NSYBP126	NSY2SP124	NSYSFD126	NSYSFD126T	NSYTRIM6SF	NSYMP126
		500	1	NSYSFV12	NSYSFC65	NSYBP126	NSY2SP125	NSYSFD126	NSYSFD126T	NSYTRIM6SF	NSYMP126
		600	1	NSYSFV12	NSYSFC66	NSYBP126	NSY2SP126	NSYSFD126	NSYSFD126T	NSYTRIM6SF	NSYMP126
		800	1	NSYSFV12	NSYSFC68	NSYBP126	NSY2SP128	NSYSFD126	NSYSFD126T	NSYTRIM6SF	NSYMP126
	800	400	1	NSYSFV12	NSYSFC84	NSYBP128	NSY2SP124	NSYSFD128	NSYSFD128T	NSYTRIM8SF	NSYMP128
		500	1	NSYSFV12	NSYSFC85	NSYBP128	NSY2SP125	NSYSFD128	NSYSFD128T	NSYTRIM8SF	NSYMP128
		600	1	NSYSFV12	NSYSFC86	NSYBP128	NSY2SP126	NSYSFD128	NSYSFD128T	NSYTRIM8SF	NSYMP128
		800	1	NSYSFV12	NSYSFC88	NSYBP128	NSY2SP128	NSYSFD128	NSYSFD128T	NSYTRIM8SF	NSYMP128
1400	600	400	1	NSYSFV14	NSYSFC64	NSYBP146	NSY2SP144	NSYSFD146	NSYSFD146T	NSYTRIM6SF	NSYMP146
		500	1	NSYSFV14	NSYSFC65	NSYBP146	NSY2SP145	NSYSFD146	NSYSFD146T	NSYTRIM6SF	NSYMP146
		600	1	NSYSFV14	NSYSFC66	NSYBP146	NSY2SP146	NSYSFD146	NSYSFD146T	NSYTRIM6SF	NSYMP146
		800	1	NSYSFV14	NSYSFC68	NSYBP146	NSY2SP148	NSYSFD146	NSYSFD146T	NSYTRIM6SF	NSYMP146
	800	400	1	NSYSFV14	NSYSFC84	NSYBP148	NSY2SP144	NSYSFD148	NSYSFD148T	NSYTRIM8SF	NSYMP148
		500	1	NSYSFV14	NSYSFC85	NSYBP148	NSY2SP145	NSYSFD148	NSYSFD148T	NSYTRIM8SF	NSYMP148
		600	1	NSYSFV14	NSYSFC86	NSYBP148	NSY2SP146	NSYSFD148	NSYSFD148T	NSYTRIM8SF	NSYMP148
		800	1	NSYSFV14	NSYSFC88	NSYBP148	NSY2SP148	NSYSFD148	NSYSFD148T	NSYTRIM8SF	NSYMP148
1600	600	400	1	NSYSFV16	NSYSFC64	NSYBP166	NSY2SP164	NSYSFD166	NSYSFD166T	NSYTRIM6SF	NSYMP166
		500	1	NSYSFV16	NSYSFC65	NSYBP166	NSY2SP165	NSYSFD166	NSYSFD166T	NSYTRIM6SF	NSYMP166
		600	1	NSYSFV16	NSYSFC66	NSYBP166	NSY2SP166	NSYSFD166	NSYSFD166T	NSYTRIM6SF	NSYMP166
		800	1	NSYSFV16	NSYSFC68	NSYBP166	NSY2SP168	NSYSFD166	NSYSFD166T	NSYTRIM6SF	NSYMP166
	800	400	1	NSYSFV16	NSYSFC84	NSYBP168	NSY2SP164	NSYSFD168	NSYSFD168T	NSYTRIM8SF	NSYMP168
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		600	1	NSYSFV16	NSYSFC86	NSYBP168	NSY2SP166	NSYSFD168	NSYSFD168T	NSYTRIM8SF	NSYMP168
		800	1	NSYSFV16	NSYSFC88	NSYBP168	NSY2SP168	NSYSFD168	NSYSFD168T	NSYTRIM8SF	NSYMP168
1800	400	400	1	NSYSFV18	NSYSFC44	NSYBP184	NSY2SP184	NSYSFD184	-	NSYTRIM4SF	-
		500	1	NSYSFV18	NSYSFC45	NSYBP184	NSY2SP185	NSYSFD184	-	NSYTRIM4SF	-
		600	1	NSYSFV18	NSYSFC46	NSYBP184	NSY2SP186	NSYSFD184	-	NSYTRIM4SF	-
		800	1	NSYSFV18	NSYSFC48	NSYBP184	NSY2SP188	NSYSFD184	-	NSYTRIM4SF	-
	600	400	1	NSYSFV18	NSYSFC64	NSYBP186	NSY2SP184	NSYSFD186	NSYSFD186T	NSYTRIM6SF	NSYMP186
		500	1	NSYSFV18	NSYSFC65	NSYBP186	NSY2SP185	NSYSFD186	NSYSFD186T	NSYTRIM6SF	NSYMP186
		600	1	NSYSFV18	NSYSFC66	NSYBP186	NSY2SP186	NSYSFD186	NSYSFD186T	NSYTRIM6SF	NSYMP186
		800	1	NSYSFV18	NSYSFC68	NSYBP186	NSY2SP188	NSYSFD186	NSYSFD186T	NSYTRIM6SF	NSYMP186
	800	400	1	NSYSFV18	NSYSFC84	NSYBP188	NSY2SP184	NSYSFD188	NSYSFD188T	NSYTRIM8SF	NSYMP188
		500	1	NSYSFV18	NSYSFC85	NSYBP188	NSY2SP185	NSYSFD188	NSYSFD188T	NSYTRIM8SF	NSYMP188
		600	1	NSYSFV18	NSYSFC86	NSYBP188	NSY2SP186	NSYSFD188	NSYSFD188T	NSYTRIM8SF	NSYMP188
		600	2	NSYSFV18	NSYSFC86	NSYBP188	NSY2SP186	NSYSFD1882D	-	NSYTRIM8SF2D	NSYMP188
		800	1	NSYSFV18	NSYSFC88	NSYBP188	NSY2SP188	NSYSFD188	NSYSFD188T	NSYTRIM8SF	NSYMP188
		800	2	NSYSFV18	NSYSFC88	NSYBP188	NSY2SP188	NSYSFD1882D	-	NSYTRIM8SF2D	NSYMP188
	1000	400	1	NSYSFV18	NSYSFC104	NSYBP1810	NSY2SP184	NSYSFD1810	NSYSFD1810T	NSYTRIM10SF	NSYMP1810
		400	2	NSYSFV18	NSYSFC104	NSYBP1810	NSY2SP184	NSYSFD18102D	-	NSYTRIM10SF2D	NSYMP1810
		500	1	NSYSFV18	NSYSFC105	NSYBP1810	NSY2SP185	NSYSFD1810	NSYSFD1810T	NSYTRIM10SF	NSYMP1810
		600	1	NSYSFV18	NSYSFC106	NSYBP1810	NSY2SP186	NSYSFD1810	NSYSFD1810T	NSYTRIM10SF	NSYMP1810
		600	2	NSYSFV18	NSYSFC106	NSYBP1810	NSY2SP186	NSYSFD18102D	-	NSYTRIM10SF2D	NSYMP1810
		800	1	NSYSFV18	NSYSFC108	NSYBP1810	NSY2SP188	NSYSFD1810	NSYSFD1810T	NSYTRIM10SF	NSYMP1810
		800	2	NSYSFV18	NSYSFC108	NSYBP1810	NSY2SP188	NSYSFD18102D	-	NSYTRIM10SF2D	NSYMP1810
	1200	400	2	NSYSFV18	NSYSFC124	NSYBP1812	NSY2SP184	NSYSFD18122D	NSYSFD18122DT	NSYTRIM12SF2D	NSYMP1812
		500	2	NSYSFV18	NSYSFC125	NSYBP1812	NSY2SP185	NSYSFD18122D	NSYSFD18122DT	NSYTRIM12SF2D	NSYMP1812
		600	2	NSYSFV18	NSYSFC126	NSYBP1812	NSY2SP186	NSYSFD18122D	NSYSFD18122DT	NSYTRIM12SF2D	NSYMP1812
		800	2	NSYSFV18	NSYSFC128	NSYBP1812	NSY2SP188	NSYSFD18122D	NSYSFD18122DT	NSYTRIM12SF2D	NSYMP1812

(1) Hinges, locking bar catches and handle with 5-mm double-bar insert included.

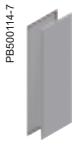
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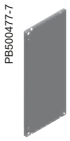












Nominal dimensions (mm)			No. of doors	Vertical uprights	Bottom frame and top frame with roof	Rear panel	Side panels	Plain door (1)	Transparent door (Securit® glass) (1)	Door Trim plate	Mounting plate
Height (A)	Width (B)	Depth (C)									
2000	300	500	1	NSYSFV20	NSYSFC35	NSYBP203	NSY2SP205	NSYSFD203	-	NSYTRIM3SF	-
		600	1	NSYSFV20	NSYSFC36	NSYBP203	NSY2SP206	NSYSFD203	-	NSYTRIM3SF	-
		800	1	NSYSFV20	NSYSFC38	NSYBP203	NSY2SP208	NSYSFD203	-	NSYTRIM3SF	-
	400	400	1	NSYSFV20	NSYSFC44	NSYBP204	NSY2SP204	NSYSFD204	-	NSYTRIM4SF	-
		500	1	NSYSFV20	NSYSFC45	NSYBP204	NSY2SP205	NSYSFD204	-	NSYTRIM4SF	-
		600	1	NSYSFV20	NSYSFC46	NSYBP204	NSY2SP206	NSYSFD204	-	NSYTRIM4SF	-
		800	1	NSYSFV20	NSYSFC48	NSYBP204	NSY2SP208	NSYSFD204	-	NSYTRIM4SF	-
	600	400	1	NSYSFV20	NSYSFC64	NSYBP206	NSY2SP204	NSYSFD206	NSYSFD206T	NSYTRIM6SF	NSYMP206
		500	1	NSYSFV20	NSYSFC65	NSYBP206	NSY2SP205	NSYSFD206	NSYSFD206T	NSYTRIM6SF	NSYMP206
		600	1	NSYSFV20	NSYSFC66	NSYBP206	NSY2SP206	NSYSFD206	NSYSFD206T	NSYTRIM6SF	NSYMP206
		800	1	NSYSFV20	NSYSFC68	NSYBP206	NSY2SP208	NSYSFD206	NSYSFD206T	NSYTRIM6SF	NSYMP206
	800	400	1	NSYSFV20	NSYSFC84	NSYBP208	NSY2SP204	NSYSFD208	NSYSFD208T	NSYTRIM8SF	NSYMP208
		500	1	NSYSFV20	NSYSFC85	NSYBP208	NSY2SP205	NSYSFD208	NSYSFD208T	NSYTRIM8SF	NSYMP208
		600	1	NSYSFV20	NSYSFC86	NSYBP208	NSY2SP206	NSYSFD208	NSYSFD208T	NSYTRIM8SF	NSYMP208
		600	2	NSYSFV20	NSYSFC86	NSYBP208	NSY2SP206	NSYSFD2082D	-	NSYTRIM8SF2D	NSYMP208
		800	1	NSYSFV20	NSYSFC88	NSYBP208	NSY2SP208	NSYSFD208	NSYSFD208T	NSYTRIM8SF	NSYMP208
		800	2	NSYSFV20	NSYSFC88	NSYBP208	NSY2SP208	NSYSFD2082D	-	NSYTRIM8SF2D	NSYMP208
	1000	400	1	NSYSFV20	NSYSFC104	NSYBP2010	NSY2SP204	NSYSFD2010	NSYSFD2010T	NSYTRIM10SF	NSYMP2010
		400	2	NSYSFV20	NSYSFC104	NSYBP2010	NSY2SP204	NSYSFD20102D	-	NSYTRIM10SF2D	NSYMP2010
		500	1	NSYSFV20	NSYSFC105	NSYBP2010	NSY2SP205	NSYSFD2010	NSYSFD2010T	NSYTRIM10SF	NSYMP2010
		500	2	NSYSFV20	NSYSFC105	NSYBP2010	NSY2SP205	NSYSFD20102D	-	NSYTRIM10SF2D	NSYMP2010
		600	1	NSYSFV20	NSYSFC106	NSYBP2010	NSY2SP206	NSYSFD2010	NSYSFD2010T	NSYTRIM10SF	NSYMP2010
		600	2	NSYSFV20	NSYSFC106	NSYBP2010	NSY2SP206	NSYSFD20102D	-	NSYTRIM10SF2D	NSYMP2010
		800	1	NSYSFV20	NSYSFC108	NSYBP2010	NSY2SP208	NSYSFD2010	NSYSFD2010T	NSYTRIM10SF	NSYMP2010
		800	2	NSYSFV20	NSYSFC108	NSYBP2010	NSY2SP208	NSYSFD20102D	-	NSYTRIM10SF2D	NSYMP2010
	1200	400	2	NSYSFV20	NSYSFC124	NSYBP2012	NSY2SP204	NSYSFD20122D	NSYSFD20122DT	NSYTRIM12SF2D	NSYMP2012
		500	2	NSYSFV20	NSYSFC125	NSYBP2012	NSY2SP205	NSYSFD20122D	NSYSFD20122DT	NSYTRIM12SF2D	NSYMP2012
		600	2	NSYSFV20	NSYSFC126	NSYBP2012	NSY2SP206	NSYSFD20122D	NSYSFD20122DT	NSYTRIM12SF2D	NSYMP2012
		800	2	NSYSFV20	NSYSFC128	NSYBP2012	NSY2SP208	NSYSFD20122D	NSYSFD20122DT	NSYTRIM12SF2D	NSYMP2012
	1600	400	2	NSYSFV20	NSYSFC164	NSYBP2016	NSY2SP204	NSYSFD20162D	-	NSYTRIM16SF2D	NSYMP2016
		500	2	NSYSFV20	NSYSFC165	NSYBP2016	NSY2SP205	NSYSFD20162D	-	NSYTRIM16SF2D	NSYMP2016
		600	2	NSYSFV20	NSYSFC166	NSYBP2016	NSY2SP206	NSYSFD20162D	-	NSYTRIM16SF2D	NSYMP2016
2200	400	400	1	NSYSFV22	NSYSFC44	NSYBP224	NSY2SP224	NSYSFD224	-	NSYTRIM4SF	-
		500	1	NSYSFV22	NSYSFC45	NSYBP224	NSY2SP225	NSYSFD224	-	NSYTRIM4SF	-
		600	1	NSYSFV22	NSYSFC46	NSYBP224	NSY2SP226	NSYSFD224	-	NSYTRIM4SF	-
		800	1	NSYSFV22	NSYSFC48	NSYBP224	NSY2SP228	NSYSFD224	-	NSYTRIM4SF	-
	600	400	1	NSYSFV22	NSYSFC64	NSYBP226	NSY2SP224	NSYSFD226	NSYSFD226T	NSYTRIM6SF	NSYMP226
		500	1	NSYSFV22	NSYSFC65	NSYBP226	NSY2SP225	NSYSFD226	NSYSFD226T	NSYTRIM6SF	NSYMP226
		600	1	NSYSFV22	NSYSFC66	NSYBP226	NSY2SP226	NSYSFD226	NSYSFD226T	NSYTRIM6SF	NSYMP226
		800	1	NSYSFV22	NSYSFC68	NSYBP226	NSY2SP228	NSYSFD226	NSYSFD226T	NSYTRIM6SF	NSYMP226
	800	400	1	NSYSFV22	NSYSFC84	NSYBP228	NSY2SP224	NSYSFD228	NSYSFD228T	NSYTRIM8SF	NSYMP228
		500	1	NSYSFV22	NSYSFC85	NSYBP228	NSY2SP225	NSYSFD228	NSYSFD228T	NSYTRIM8SF	NSYMP228
		600	1	NSYSFV22	NSYSFC86	NSYBP228	NSY2SP226	NSYSFD228	NSYSFD228T	NSYTRIM8SF	NSYMP228
		800	1	NSYSFV22	NSYSFC88	NSYBP228	NSY2SP228	NSYSFD228	NSYSFD228T	NSYTRIM8SF	NSYMP228
	1000	400	1	NSYSFV22	NSYSFC104	NSYBP2210	NSY2SP224	NSYSFD2210	NSYSFD2210T	NSYTRIM10SF	NSYMP2210
		500	1	NSYSFV22	NSYSFC105	NSYBP2210	NSY2SP225	NSYSFD2210	NSYSFD2210T	NSYTRIM10SF	NSYMP2210
		600	1	NSYSFV22	NSYSFC106	NSYBP2210	NSY2SP226	NSYSFD2210	NSYSFD2210T	NSYTRIM10SF	NSYMP2210
		800	1	NSYSFV22	NSYSFC108	NSYBP2210	NSY2SP228	NSYSFD2210	NSYSFD2210T	NSYTRIM10SF	NSYMP2210
	1200	400	2	NSYSFV22	NSYSFC124	NSYBP2212	NSY2SP224	NSYSFD22122D	NSYSFD22122DT	NSYTRIM12SF2D	NSYMP2212
		500	2	NSYSFV22	NSYSFC125	NSYBP2212	NSY2SP225	NSYSFD22122D	NSYSFD22122DT	NSYTRIM12SF2D	NSYMP2212
		600	2	NSYSFV22	NSYSFC126	NSYBP2212	NSY2SP226	NSYSFD22122D	NSYSFD22122DT	NSYTRIM12SF2D	NSYMP2212
		800	2	NSYSFV22	NSYSFC128	NSYBP2212	NSY2SP228	NSYSFD22122D	NSYSFD22122DT	NSYTRIM12SF2D	NSYMP2212

(1) Hinges, locking bar catches and handle with 5-mm double-bar insert included.

Selection guide
Stainless-steel wall-mounting enclosures











Dimensions (mm)			No. of locks	No. of doors	304L stainless-steel		316L stainless-steel	304L stainless-steel canopy	Plain mounting plate***
Height	Width	Depth			Plain door	Glazed door**	Plain door		
300	200	150	1	1	NSYS3X3215	-	NSYS3X3215H	NSYTX2015	NSYMM32
	250	150	1	1	NSYS3X302515	-	NSYS3X302515H	NSYTX2515	NSYMM3025
	300	150	1	1	NSYS3X3315	-	NSYS3X3315H	NSYTX3015	NSYMM33
400	300	150	1	1	NSYS3X4315	-	NSYS3X4315H	NSYTX3015	NSYMM43
		200	1	1	NSYS3X4320	NSYS3X4320T	NSYS3X4320H	NSYTX3020	NSYMM43
	400	200	1	1	NSYS3X4420	-	NSYS3X4420H	NSYTX4020	NSYMM44
	600	200	1	1	NSYS3X4620	-	NSYS3X4620H	NSYTX6020	NSYMM64
500	400	200	2	1	NSYS3X5420	NSYS3X5420T	NSYS3X5420H	NSYTX4020	NSYMM54
600	400	200	2	1	NSYS3X6420	NSYS3X6420T	NSYS3X6420H	NSYTX4020	NSYMM64
	600	250	2	1	NSYS3X6625	-	NSYS3X6625H	NSYTX6025	NSYMM66
	1000	300	*	2	NSYS3X601030	-	-	-	-
	1200	300	*	2	NSYS3X601230	-	-	NSYTX12030	-
700	500	250	2	1	NSYS3X7525	NSYS3X7525T	NSYS3X7525H	NSYTX5025	NSYMM75
800	600	250	2	1	NSYS3X8625	NSYS3X8625T	NSYS3X8625H	NSYTX6025	NSYMM86
	800	300	2	1	NSYS3X8830	-	NSYS3X8830H	NSYTX8030	NSYMM88
	1000	300	*	2	NSYS3X801030	-	-	-	-
	1200	300	*	2	NSYS3X801230	-	-	NSYTX12030	-
1000	800	300	2	1	NSYS3X10830	NSYS3X10830T	NSYS3X10830H	NSYTX8030	NSYMM108
	1000	300	*	2	NSYS3X101030	-	NSYS3X101030H	NSYTX10030	NSYMM1010
1200	800	300	2	1	NSYS3X12830	-	NSYS3X12830H	NSYTX8030	NSYMM128
	1000	300	*	2	NSYS3X121030	-	NSYS3X121030H	NSYTX10030	NSYMM1210

** Three-point closure system.*
*** The glazed door has no reinforcement.*
**** See other mounting plates in common accessories.*













External dimensions (mm)			No. of modules	References					
Height	Width	Depth		Mounting plate					Step slides
				Plain	Silkscreened	Microperforated	Telequick	Modular	
300	200	150	-	NSYMM32	-	NSYMF32	NSYMR32	-	-
	250	150	-	NSYMM3025	-	-	NSYMR3025	-	-
	300	150	-	NSYMM33	-	NSYMF33	NSYMR33	-	-
400	300	150	24	NSYMM43	NSYMS43	NSYMF43	NSYMR43	NSYDLM24	-
		200	24	NSYMM43	NSYMS43	NSYMF43	NSYMR43	NSYDLM24	NSYSDCR200
	400	200	-	NSYMM44	NSYMS44	NSYMF44	NSYMR44	-	NSYSDCR200
	600	200	-	NSYMM64	NSYMS64	NSYMF64	NSYMR46	-	NSYSDCR200
500	400	200	48	NSYMM54	NSYMS54	NSYMF54	NSYMR54	NSYDLM48	NSYSDCR200
600	400	200	48	NSYMM64	NSYMS64	NSYMF64	NSYMR64	NSYDLM48P	NSYSDCR200
	600	250	84	NSYMM66	NSYMS66	NSYMF66	NSYMR66	NSYDLM84P	NSYSDCR250
	1000	300	-	NSYMM106	-	NSYMF106	NSYMR106	-	NSYSDCR300
	1200	300	-	NSYMM126	-	NSYMF126	-	-	NSYSDCR300
700	500	250	66	NSYMM75	NSYMS75	NSYMF75	NSYMR75	NSYDLM66	NSYSDCR250
800	600	250	84	NSYMM86	NSYMS86	NSYMF86	NSYMR86	NSYDLM84	NSYSDCR250
	800	300	-	NSYMM88	-	NSYMF88	NSYMR88	-	NSYSDCR300
	1000	300	-	NSYMM108	-	NSYMF108	NSYMR108	-	NSYSDCR300
	1200	300	-	NSYMM128	-	NSYMF128	NSYMR128	-	NSYSDCR300
1000	800	300	234	NSYMM108	-	NSYMF108	NSYMR108	NSYDLM240	NSYSDCR300
	1000	300	-	NSYMM1010	-	NSYMF1010	NSYMR1010	-	NSYSDCR300
1200	800	300	-	NSYMM128	-	NSYMF128	NSYMR128	-	NSYSDCR300
	1000	300	-	NSYMM1210	-	NSYMF1210	NSYMR1210	-	NSYSDCR300

Selection guide
Stainless-steel floor-standing enclosures


PB500137-21


PB500138-23

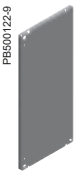
Stainless-steel floor-standing monobloc


PB502483-28

Plinth height 100 mm (4 corners + front and back)


PB502485-26

Plinth height 100 mm (Set of 2 side panels)


PB500122-9

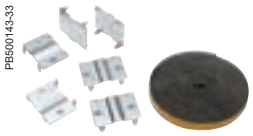
Dimensions (mm)			Number of front doors	Stainless-steel floor-standing enclosure 304L / 316L*	Brushed 304L / 316L* stainless-steel plinth height 100 mm**		Brushed 304L / 316L* stainless-steel plinth height 200 mm**		Plain mounting plate***
Height	Width	Depth			Kit (4 corners + front and back)	Set of 2 side panels	Kit (4 corners + front and back)	Set of 2 side panels (x2)	
1400	1000	300	2	NSYSMX141030	NSYSPFX10100	NSYSPSX3100	NSYSPFX10200	NSYSPSX3200	NSYMP1410
1600	800	400	1	NSYSMX16840	NSYSPFX8100	NSYSPSX4100	NSYSPFX8200	NSYSPSX4200	NSYMP168
1800	600	400	1	NSYSMX18640	-	NSYSPSX4100	-	NSYSPSX4200	NSYMP186
	800	400	1	NSYSMX18840*	NSYSPFX8100	NSYSPSX4100	NSYSPFX8200	NSYSPSX4200	NSYMP188
	1200	400	2	NSYSMX181240*	NSYSPFX12100	NSYSPSX4100	NSYSPFX12200	NSYSPSX4200	NSYMP1812
	1600	400	2	NSYSMX181640*	NSYSPFX16100	NSYSPSX4100	NSYSPFX16200	NSYSPSX4200	NSYMP1816
2000	800	500	1	NSYSMX20850	NSYSPFX8100	NSYSPSX5100	NSYSPFX8200	NSYSPSX5200	NSYMP208
	1000	400	2	NSYSMX201040*	NSYSPFX10100	NSYSPSX4100	NSYSPFX10200	NSYSPSX4200	NSYMP2010
	1200	500	2	NSYSMX201250*	NSYSPFX12100	NSYSPSX5100	NSYSPFX12200	NSYSPSX5200	NSYMP2012
	1600	600	2	NSYSMX201660*	NSYSPFX16100	NSYSPSX6100	NSYSPFX16200	NSYSPSX6200	NSYMP2016

** For version in AISI 316L stainless steel, add the lettre H to the end of the reference. Example NSYSMX18840H.*
*** See section on stainless-steel composition accessories. - *** See other mounting plates in common accessories.*


PB500141-21


PB500142-9

Stainless-steel floor-standing suitable


PB500143-33


PB502483-28

Plinth height 100 mm (4 corners + front and back)


PB502485-26

Plinth height 100 mm (Set of 2 side panels)


PB500122-9

Dimensions (mm)			No. of front doors	References in 304L stainless steel (1)			Brushed 304L stainless-steel plinth height 100 mm (2)		Brushed 304L stainless-steel plinth height 200 mm (2)		Plain mounting plate (3)
H	W	D		Suitable enclosure	Set of 2 side panels	Coupling kit	Kit (4 corners + front and back)	Set of 2 side panels	Kit (4 corners + front and back)	Side Set of 2 side panels (x2)	
1800	600	400	1	NSYSFX18640	NSY2SPX184	NSYSFBK19 + NSYSFXJG	NSYSPFX6100	NSYSPSX4100SF	NSYSPFX6200	NSYSPSX4200SF	NSYMP186
	800	400	1	NSYSFX18840	NSY2SPX184	NSYSFBK19 + NSYSFXJG	NSYSPFX8100	NSYSPSX4100SF	NSYSPFX8200	NSYSPSX4200SF	NSYMP188
	1200	400	2	NSYSFX181240	NSY2SPX184	NSYSFBK19 + NSYSFXJG	NSYSPFX12100	NSYSPSX4100SF	NSYSPFX12200	NSYSPSX4200SF	NSYMP1812
2000	600	500	1	NSYSFX20650	NSY2SPX205	NSYSFBK19 + NSYSFXJG	NSYSPFX6100	NSYSPSX5100SF	NSYSPFX6200	NSYSPSX5200SF	NSYMP206
	800	400	1	NSYSFX20840	NSY2SPX204	NSYSFBK19 + NSYSFXJG	NSYSPFX8100	NSYSPSX4100SF	NSYSPFX8200	NSYSPSX4200SF	NSYMP208
		600	1	NSYSFX20860	NSY2SPX206	NSYSFBK19 + NSYSFXJG	NSYSPFX8100	NSYSPSX6100SF	NSYSPFX8200	NSYSPSX6200SF	NSYMP208
	1000	600	2	NSYSFX201060	NSY2SPX206	NSYSFBK19 + NSYSFXJG	NSYSPFX10100	NSYSPSX6100SF	NSYSPFX10200	NSYSPSX6200SF	NSYMP2010
	1200	600	2	NSYSFX201260	NSY2SPX206	NSYSFBK19 + NSYSFXJG	NSYSPFX12100	NSYSPSX6100SF	NSYSPFX12200	NSYSPSX6200SF	NSYMP2012

(1) 316L stainless-steel enclosures on request.- (2) See section on stainless-steel composition accessories.- (3) See other mounting plates in common accessories.


PB501267-23

Stainless-steel floor-standing suitable


PB502589-30

Plinth height 100 mm (Front and rear)


PB502591-18

Plinth height 100 mm (Side panels)


PB500072-15

Dimensions (mm)			References	Number of front doors	304L stainless-steel plinth, height 100 mm (1)		304L stainless-steel plinth, height 200 mm (1)		Plain mounting plate (2)
Height	Width	Depth			Front and rear	side panels	Front and rear	side panels	
1000	600	500	NSYSDX6	1	NSYSPFX6100	NSYSPSX5100	NSYSPFX6200	2 x NSYSPSX5100	NSYPMP8560
	800	500	NSYSDX8	1	NSYSPFX8100	NSYSPSX5100	NSYSPFX8200	2 x NSYSPSX5100	NSYPMP8580
	1000	500	NSYSDX10	2	NSYSPFX10100	NSYSPSX5100	NSYSPFX10200	2 x NSYSPSX5100	NSYPMP85100
	1200	500	NSYSDX12	2	NSYSPFX12100	NSYSPSX5100	NSYSPFX12200	2 x NSYSPSX5100	NSYPMP85120

(1) See section on stainless-steel composition accessories. - (2) See other mounting plates in common accessories.

Stainless-steel plinths (standard plinths pages 128 and 129, ventilated plinths page 377) are compatible with steel offer using an earthing cable reference NSYEL226D13 (description page 278) to be ordered separately.

Selection guide
Polyester wall-mounting enclosures

Polyester wall-mounting enclosures IP66







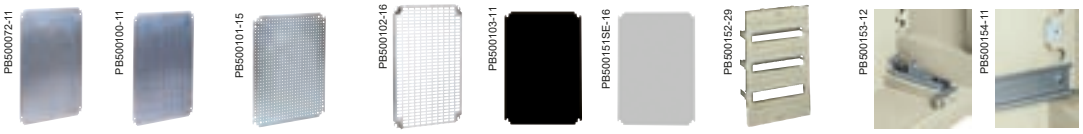




Dimensions (mm)			ABS/PC wall-mounting enclosures IP66		Polyester wall-mounting enclosures IP66			
Height	Width	Depth	Plain door	Transp. door	Plain door	Transp. door	Plain door 3-point closure	Transp. door 3-point closure
			Page 159					
310	215	160	**NSYPLM32G**	**NSYPLM32TG**	-	-	-	-
308	255	160	-	-	**NSYPLM3025G**	**NSYPLM3025TG**	-	-
430	330	200	-	-	**NSYPLM43G**	**NSYPLM43TG**	**NSYPLM43VG**	**NSYPLM43TVG**
530	430	200	-	-	**NSYPLM54G**	**NSYPLM54TG**	**NSYPLM54VG**	**NSYPLM54TVG**
647	436	250	-	-	**NSYPLM64G**	**NSYPLM64TG**	**NSYPLM64VG**	**NSYPLM64TVG**
747	536	300	-	-	**NSYPLM75G**	**NSYPLM75TG**	**NSYPLM75VG**	**NSYPLM75TVG**
847	636	300	-	-	**NSYPLM86G**	**NSYPLM86TG**	**NSYPLM86VG**	**NSYPLM86TVG**
1056	852	350	-	-	**NSYPLM108G**	**NSYPLM108TG**	-	-

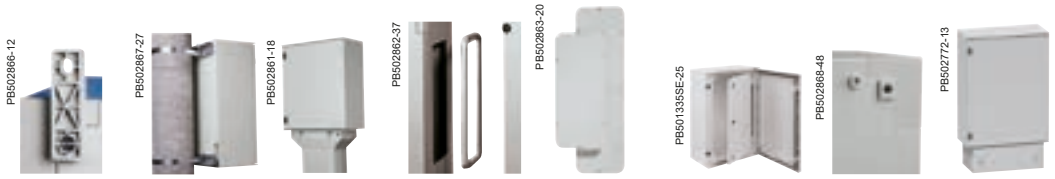
Selection guide
Polyester wall-mounting enclosures

Mounting accessories



Dimensions (mm)			Metallic mounting plates				Insulating mounting plates		Modular distribution chassis	Step slides	Symmetrical DIN rail
Height	Width	Depth	Plain	Silkscreened	Microperforated	Telequick	Bakelite	Polyester			
			Page 206				Page 207		Page 170	Page 168	
310	215	160	NSYMM32	-	-	NSYMR32	NSYMB32	NSYMPP32	-	-	NSYCS200PLM
308	255	160	NSYMM3025	-	-	NSYMR3025	NSYMB3025	NSYMPP3025	NSYDLPLM18G	-	-
430	330	200	NSYMM43	NSYMS43	NSYMF43	NSYMR43	NSYMB43	NSYMPP43	NSYDLA24G	NSYDPLM200	NSYCS300PLM
530	430	200	NSYMM54	NSYMS54	NSYMF54	NSYMR54	NSYMB54	NSYMPP54	NSYDLA48G	NSYDPLM200	NSYCS400PLM
647	436	250	NSYMM64	NSYMS46	NSYMF64	NSYMR64	NSYMB64	NSYMPP64	NSYDLA48PG	NSYDPLM250	NSYCS400PLM
747	536	300	NSYMM75	NSYMS75	NSYMF75	NSYMR75	NSYMB75	NSYMPP75	NSYDLA66G and NSYDLA88G	NSYDPLM300	NSYCS500PLM
847	636	300	NSYMM86	NSYMS86	NSYMF86	NSYMR86	NSYMB86	NSYMPP86	NSYDLA84G and NSYDLA112G	NSYDPLM300	NSYCS600PLM
1056	852	350	NSYMM108	-	NSYMF108	NSYMR108	NSYMB108	NSYMPP108	NSYDLA234G	NSYDPLM350	NSYCS800PLM

Main accessories



Dimensions (mm)			Fixing lugs	Post-fixing device	Floor-mounting pillar	Coupling frame	Cable-gland plate	Internal door	Blanking plates	Plinth ZM RAL 7032
Height	Width	Depth	Page 164			Page 169		Page 165	Page 164	Page 163
310	215	160	NSYPFPLM32G	-	-	-	-	-	NSYCEPLMAG	-
308	255	160	NSYPFPLMG	-	-	-	-	NSYPA3025PLMG	-	-
430	330	200	NSYPFPLMG	NSYSFP300	-	-	-	NSYPAP43G	NSYCEPLMBG	-
530	430	200	NSYPFPLMG	NSYSFP400	NSYSFSPLMG	-	-	NSYPAP54G	NSYCEPLMBG	-
647	436	250	NSYPFPLMG	NSYSFP400	NSYSFSPLMG	-	-	NSYPAP64G	NSYCEPLMCG	-
747	536	300	NSYPFPLMG	NSYSFP500	-	NSYBUPLMG	NSYTLA4420G	NSYPAP75G	NSYCEPLMCG	NSYZM253G
847	636	300	NSYPFPLMG	NSYSFP600	-	NSYBUPLMG	NSYTLA4420G	NSYPAP86G	NSYCEPLMCG	NSYZM263G
1056	852	350	NSYPFPLMG	-	-	NSYBU108PLMG	NSYTLA6420G	NSYPAP108G	-	NSYZM283G

Water drain plug



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Rail-fixing nuts



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Ventilation louvre



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Selection guide
Polyester floor-standing enclosures







Dimensions (mm)				Completely sealed enclosures, IP65		Enclosures with open bottom part, IP54
References of enclosures with door						
Height (A)	Width (B)	Depth (C)	N° of doors	Plain	Glazed (1)	Plain
500	500	320	1	NSYPLA553G	NSYPLA553TG	NSYPLAZ553G
		420	1	NSYPLA554G	NSYPLA554TG	NSYPLAZ554G
	750	320	1	NSYPLA573G	NSYPLA573TG	NSYPLAZ573G
		420	1	NSYPLA574G	NSYPLA574TG	NSYPLAZ574G
	1000	320	2	NSYPLA5103G	NSYPLA5103TG	NSYPLAZ5103G
		420	2	NSYPLA5104G	NSYPLA5104TG	NSYPLAZ5104G
	1250	320	2	NSYPLA5123G	NSYPLA5123TG	NSYPLAZ5123G
		420	2	NSYPLA5124G	NSYPLA5124TG	NSYPLAZ5124G
750	500	320	1	NSYPLA753G	NSYPLA753TG	NSYPLAZ753G
		420	1	NSYPLA754G	NSYPLA754TG	NSYPLAZ754G
	750	320	1	NSYPLA773G	NSYPLA773TG	NSYPLAZ773G
		420	1	NSYPLA774G	NSYPLA774TG	NSYPLAZ774G
		620	1	NSYPLA776G	NSYPLA776TG	NSYPLAZ776G
	1000	320	2	NSYPLA7103G	NSYPLA7103TG	NSYPLAZ7103G
		420	2	NSYPLA7104G	NSYPLA7104TG	NSYPLAZ7104G
	1250	320	2	NSYPLA7123G	NSYPLA7123TG	NSYPLAZ7123G
		420	2	NSYPLA7124G	NSYPLA7124TG	NSYPLAZ7124G
1000	500	320	1	NSYPLA1053G	NSYPLA1053TG	NSYPLAZ1053G
		420	1	NSYPLA1054G	NSYPLA1054TG	NSYPLAZ1054G
	750	320	1	NSYPLA1073G	NSYPLA1073TG	NSYPLAZ1073G
		420	1	NSYPLA1074G	NSYPLA1074TG	NSYPLAZ1074G
	1000	320	2	NSYPLA10103G	NSYPLA10103TG	NSYPLAZ10103G
		420	2	NSYPLA10104G	NSYPLA10104TG	NSYPLAZ10104G
	1250	320	2	NSYPLA10123G	NSYPLA10123TG	NSYPLAZ10123G
		420	2	NSYPLA10124G	NSYPLA10124TG	NSYPLAZ10124G
1250	500	320	1	NSYPLA1253G	NSYPLA1253TG	NSYPLAZ1253G
		420	1	NSYPLA1254G	NSYPLA1254TG	NSYPLAZ1254G
	750	320	1	NSYPLA1273G	NSYPLA1273TG	NSYPLAZ1273G
		420	1	NSYPLA1274G	NSYPLA1274TG	NSYPLAZ1274G
		620	1	NSYPLA1276G	NSYPLA1276TG	NSYPLAZ1276G
	1000	320	2	NSYPLA12103G	NSYPLA12103TG	NSYPLAZ12103G
		420	2	NSYPLA12104G	NSYPLA12104TG	NSYPLAZ12104G
	1250	320	2	NSYPLA12123G	NSYPLA12123TG	NSYPLAZ12123G
		420	2	NSYPLA12124G	NSYPLA12124TG	NSYPLAZ12124G
		620	2	NSYPLA12126G	NSYPLA12126TG	NSYPLAZ12126G
1500	500	320	1	NSYPLA1553G	NSYPLA1553TG	NSYPLAZ1553G
		420	1	NSYPLA1554G	NSYPLA1554TG	NSYPLAZ1554G
	750	320	1	NSYPLA1573G	NSYPLA1573TG	NSYPLAZ1573G
		420	1	NSYPLA1574G	NSYPLA1574TG	NSYPLAZ1574G
		620	1	NSYPLA1576G	NSYPLA1576TG	NSYPLAZ1576G
	1000	320	2	NSYPLA15103G	NSYPLA15103TG	NSYPLAZ15103G
		420	2	NSYPLA15104G	NSYPLA15104TG	NSYPLAZ15104G
	1250	320	2	NSYPLA15123G	NSYPLA15123TG	NSYPLAZ15123G
		420	2	NSYPLA15124G	NSYPLA15124TG	NSYPLAZ15124G
		620	2	NSYPLA15126G	NSYPLA15126TG	NSYPLAZ15126G
2000	750	420	2*	NSYPLA2074G	NSYPLA2074TG	NSYPLAZ2074G

** Two doors in vertical.*

(1) Recommended to protect against the direct sun radiation.

Selection guide
Polyester floor-standing enclosures





Dimensions (mm)				Enclosures with ventilated canopy, IP44	Enclosures with open bottom part and ventilated canopy, IP44
References of enclosures with door					
Height (A)	Width (B)	Depth (C)	N° of doors	Plain	Plain
500	500	320	1	NSYPLAT553G	NSYPLAZT553G
		420	1	NSYPLAT554G	NSYPLAZT554G
	750	320	1	NSYPLAT573G	NSYPLAZT573G
		420	1	NSYPLAT574G	NSYPLAZT574G
	1000	320	2	NSYPLAT5103G	NSYPLAZT5103G
		420	2	NSYPLAT5104G	NSYPLAZT5104G
	1250	320	2	NSYPLAT5123G	NSYPLAZT5123G
		420	2	NSYPLAT5124G	NSYPLAZT5124G
750	500	320	1	NSYPLAT753G	NSYPLAZT753G
		420	1	NSYPLAT754G	NSYPLAZT754G
	750	320	1	NSYPLAT773G	NSYPLAZT773G
		420	1	NSYPLAT774G	NSYPLAZT774G
		620	1	NSYPLAT776G	NSYPLAZT776G
	1000	320	2	NSYPLAT7103G	NSYPLAZT7103G
		420	2	NSYPLAT7104G	NSYPLAZT7104G
	1250	320	2	NSYPLAT7123G	NSYPLAZT7123G
		420	2	NSYPLAT7124G	NSYPLAZT7124G
1000	500	320	1	NSYPLAT1053G	NSYPLAZT1053G
		420	1	NSYPLAT1054G	NSYPLAZT1054G
	750	320	1	NSYPLAT1073G	NSYPLAZT1073G
		420	1	NSYPLAT1074G	NSYPLAZT1074G
	1000	320	2	NSYPLAT10103G	NSYPLAZT10103G
		420	2	NSYPLAT10104G	NSYPLAZT10104G
	1250	320	2	NSYPLAT10123G	NSYPLAZT10123G
		420	2	NSYPLAT10124G	NSYPLAZT10124G
1250	500	320	1	NSYPLAT1253G	NSYPLAZT1253G
		420	1	NSYPLAT1254G	NSYPLAZT1254G
	750	320	1	NSYPLAT1273G	NSYPLAZT1273G
		420	1	NSYPLAT1274G	NSYPLAZT1274G
		620	1	NSYPLAT1276G	NSYPLAZT1276G
	1000	320	2	NSYPLAT12103G	NSYPLAZT12103G
		420	2	NSYPLAT12104G	NSYPLAZT12104G
	1250	320	2	NSYPLAT12123G	NSYPLAZT12123G
		420	2	NSYPLAT12124G	NSYPLAZT12124G
		620	2	NSYPLAT12126G	NSYPLAZT12126G
1500	500	320	1	NSYPLAT1553G	NSYPLAZT1553G
		420	1	NSYPLAT1554G	NSYPLAZT1554G
	750	320	1	NSYPLAT1573G	NSYPLAZT1573G
		420	1	NSYPLAT1574G	NSYPLAZT1574G
		620	1	NSYPLAT1576G	NSYPLAZT1576G
	1000	320	2	NSYPLAT15103G	NSYPLAZT15103G
		420	2	NSYPLAT15104G	NSYPLAZT15104G
	1250	320	2	NSYPLAT15123G	NSYPLAZT15123G
		420	2	NSYPLAT15124G	NSYPLAZT15124G
		620	2	NSYPLAT15126G	NSYPLAZT15126G
2000	750	420	2*	NSYPLAT2074G	NSYPLAZT2074G

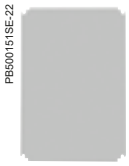
** Two doors in vertical.*

Selection guide
Polyester floor-standing enclosures

Mounting accessories


PB500072-16


PB500102-21


PB500151SE-22


PB500103-15


PB502917-22



Dimensions (mm)			Metallic mounting plates		Insulating mounting plates		Modular distribution chassis		Internal door
Height	Width	N° of doors	Plain	Telequick	Polyester	Bakelite			
			Page 190		Page 190		Page 192		Page 188
500	500	1	NSYPMM55	NSYPMR55	NSYPMA55	NSYPMB55	-	-	NSYPAPLA55G
	750	1	NSYPMM75	NSYPMR57	NSYPMA75	NSYPMB75	-	-	NSYPAPLA57G
	1000	2	NSYPMM510	2 x NSYPMR55	NSYPMA510	NSYPMB510	-	-	2 x NSYPAPLA55G
	1250	2	NSYPMM55 + NSYPMM75	NSYPMR55 + NSYPMR57	NSYPMA55 + NSYPMA75	NSYPMB55 + NSYPMB75	-	-	NSYPAPLA55G + NSYPAPLA57G
750	500	1	NSYPMM75	NSYPMR75	NSYPMA75	NSYPMB75	NSYDLP76G	NSYDLP57G	NSYPAPLA75G
	750	1	NSYPMM77	NSYPMR77	NSYPMA77	NSYPMB77	NSYDLP132G	NSYDLP99G	NSYPAPLA77G
	1000	2	NSYPMM710	2 x NSYPMR75	NSYPMA710	NSYPMB710	2 x NSYDLP76G	2 x NSYDLP57G	2 x NSYPAPLA75G
	1250	2	NSYPMM712	NSYPMR75 + NSYPMR77	NSYPMA712	NSYPMB712	NSYDLP76G + NSYDLP132G	NSYDLP57G + NSYDLP99G	NSYPAPLA75G + NSYPAPLA77G
1000	500	1	NSYPMM105	NSYPMR105	NSYPMA105	NSYPMB105	NSYDLP114G	NSYDLP95G	NSYPAPLA105G
	750	1	NSYPMM107	NSYPMR107	NSYPMA107	NSYPMB107	NSYDLP198G	NSYDLP165G	NSYPAPLA107G
	1000	2	NSYPMM1010	2 x NSYPMR105	NSYPMA1010	NSYPMB1010	2 x NSYDLP114G	2 x NSYDLP95G	2 x NSYPAPLA105G
	1250	2	NSYPMM1012	NSYPMR105 + NSYPMR107	NSYPMA1012	NSYPMB1012	NSYDLP114G + NSYDLP198G	NSYDLP95G + NSYDLP165G	NSYPAPLA105G + NSYPAPLA107G
1250	500	1	NSYPMM125	NSYPMR125	NSYPMA125	NSYPMB125	NSYDLP133G	NSYDLP114PG	NSYPAPLA125G
	750	1	NSYPMM127	NSYPMR127	NSYPMA127	NSYPMB127	NSYDLP231G	NSYDLP198PG	NSYPAPLA127G
	1000	2	NSYPMM1210	2 x NSYPMR125	NSYPMA1210	NSYPMB1210	2 x NSYDLP133G	2 x NSYDLP114PG	2 x NSYPAPLA125G
	1250	2	NSYPMM1212	NSYPMR125 + NSYPMR127	NSYPMA1212	NSYPMB1212	NSYDLP133G + NSYDLP231G	NSYDLP114PG + NSYDLP198PG	NSYPAPLA125G + NSYPAPLA127G
1500	500	1	NSYPMM155	NSYPMR155	-	NSYPMB155	NSYDLP171G	NSYDLP152G	NSYPAPLA155G
	750	1	NSYPMM157	NSYPMR157	-	NSYPMB157	NSYDLP297G	NSYDLP264G	NSYPAPLA157G
	1000	2	NSYPMM1510	2 x NSYPMR155	-	NSYPMB1510	2 x NSYDLP171G	2 x NSYDLP152G	2 x NSYPAPLA155G
	1250	2	NSYPMM1512	NSYPMR155 + NSYPMR157	-	NSYPMB1512	NSYDLP171G + NSYDLP297G	NSYDLP152G + NSYDLP264G	NSYPAPLA155G + NSYPAPLA157G
2000	750	2	NSYPMM207	2 x NSYPMR107	2 x NSYPMA107	2 x NSYPMB107	-	-	-

Step slides


PB500176-20

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Uprights and mounting rails


PB500177-40

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Door retainer

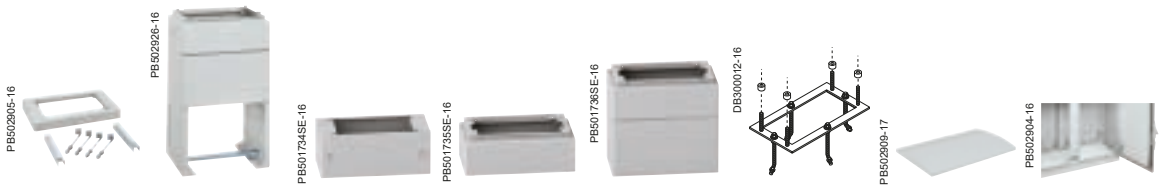

PB502913-18


PB502927-18

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Selection guide
Polyester floor-standing enclosures

Composition accessories



Dimensions (mm)		N plinth	H plinth	ZA plinth	ZZ plinth		Floor-fixing frame	Canopy	Cable-entry plate
Width	Depth	Height 60 mm	Height 900 mm	Height 200 mm	Height 200 mm	Height 500 mm			
		Page 185	Page 187	Page 184	Page 186		Page 187	Page 183	Page 183
500	320	NSYZNPLA53G	NSYZHPLA53G	NSYZA253G	NSYZZ253G	NSYZZ553G	NSYMFPLAZ53	NSYTJPLA53G	NSYECPLAZ53G
	420	NSYZNPLA54G	NSYZHPLA54G	NSYZA254G	NSYZZ254G	NSYZZ554G	NSYMFPLAZ54	NSYTJPLA54G	NSYECPLAZ54G
750	320	NSYZNPLA73G	NSYZHPLA73G	NSYZA273G	NSYZZ273G	NSYZZ573G	NSYMFPLAZ73	NSYTJPLA73G	NSYECPLAZ73G
	420	NSYZNPLA74G	NSYZHPLA74G	NSYZA274G	NSYZZ274G	NSYZZ574G	NSYMFPLAZ74	NSYTJPLA74G	NSYECPLAZ74G
	620	-	-	NSYZA276G	NSYZZ276G	-	NSYMFPLAZ76	NSYTJPLA76G	NSYECPLAZ76G
1000	320	NSYZNPLA103G	NSYZHPLA103G	NSYZA2103G	NSYZZ2103G	NSYZZ5103G	NSYMFPLAZ103	NSYTJPLA103G	NSYECPLAZ103G
	420	NSYZNPLA104G	NSYZHPLA104G	NSYZA2104G	NSYZZ2104G	NSYZZ5104G	NSYMFPLAZ104	NSYTJPLA104G	NSYECPLAZ104G
1250	320	NSYZNPLA123G	NSYZHPLA123G	NSYZA2123G	NSYZZ2123G	NSYZZ5123G	NSYMFPLAZ123	NSYTJPLA123G	NSYECPLAZ123G
	420	NSYZNPLA124G	NSYZHPLA124G	NSYZA2124G	NSYZZ2124G	NSYZZ5124G	NSYMFPLAZ124	NSYTJPLA124G	NSYECPLAZ124G
	620	-	-	NSYZA2126G	NSYZZ2126G	-	NSYMFPLAZ126	NSYTJPLA126G	NSYECPLAZ126G

VDI accessories



Dimensions (mm)		19" fixed chassis		19" swing chassis	
Height	Width	References	Number of U	References	Number of U
		Page 197		Page 197	
500	750	NSYBRF8PLAG	8	NSYBRP7PLAG	7
750	750	NSYBRF12PLAG + NSYSPLA75	12	NSYBRP11PLAG + NSYSPLA75	11
1000	750	NSYBRF17PLAG + NSYSPLA100	17	NSYBRP16PLAG + NSYSPLA100	16
1250	750	NSYBRF21PLAG + NSYSPLA125	21	NSYBRP20PLAG + NSYSPLA125	20
1500	750	NSYBRF26PLAG + NSYSPLA150*	26	NSYBRP25PLAG + NSYSPLA150*	25
2000	750	2 x NSYBRF17PLAG + 2 x NSYSPLA100 + NSYPTZ4	2 x 17	2 x NSYBRP16PLAG + 2 x NSYSPLA100	2 x 16

** not compatible with NSYCAAPVHD.*

Door switch


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Insert


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Document pocket


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VDI accessories and fixings


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Coupling Kit


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Anti-graffiti paint


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Handles and inserts


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Wall-fixing lug


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Steel
industrial boxes

Steel industrial boxes
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Metallic junction boxes

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PB503351-20

Spacial SBM **36**
Steel industrial boxes

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Common accessories overview 41
Mounting accessories 42
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Metallic junction boxes
Characteristics

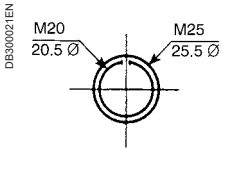




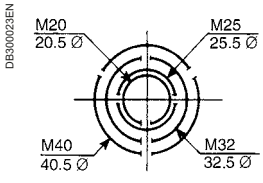
Characteristics	Metallic junction boxes
	■ PVC sealing gasket on sizes up to 20/15 and a rubber gasket for > 25/20. ■ Back ready for threaded drill holes for fixing equipment. From size 15/10 and up, there are four M4 threaded holes fitted with removable plugs for direct fixing of the mounting plate. ■ With low cover. ■ The SDB series consists of 2 basic models: □ without knock-outs: **NSYDB●●●** □ with knock-outs: **NSYDB●●●M** with low cover.
Material	Sheet steel
Finish	Structured finish, epoxy-polyester powder
Colour	RAL 7035 grey
Ingress protection rating	IP55 according to IEC 60529
Mechanical protection rating	IK07 according to IEC 62262
Installation	Indoor installation: direct wall-mounting by means of drill holes fitted with plastic plugs to ensure sealing Outdoor installation: compliant with IEC 62208 regarding type tests specified in §9.12 (resistance to ultra-violet (UV) radiation) and §9.13 (resistance to corrosion).

Dimensions

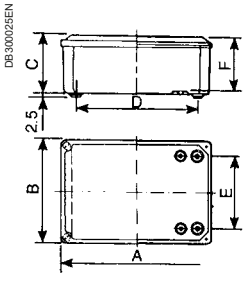
Models	External dimensions (mm)			Models without knock-outs	Models with knock-outs, no. of drill holes, knock-outs and group			Dimensions (mm)			Weight (kg)
	Height (A)	Width (B)	Depth (C)	References	References	Height (A)	Width (B)	D	E	F	
Low cover	85	85	49	**NSYDBN88**	**NSYDB88M**	1 n° 1	1 n° 1	58	58	-	0.18
	105	105	49	**NSYDBN1010**	**NSYDB1010M**	2 n° 1	1 n° 1	76	76	-	0.25
	155	105	61	**NSYDBN1510**	**NSYDB1510M**	3 n° 1	1 n° 1	124	74	56	0.38
	206	156	83	**NSYDBN2015**	**NSYDB2015M**	3 n° 2	2 n° 2	172	122	78	1
	256	206	93	**NSYDBN2520**	-	-	-	220	170	88	1.5
	307	257	116	**NSYDBN3025**	-	-	-	268	218	110	3.3



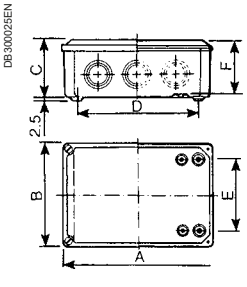
Group n° 1



Group n° 2



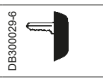
NSYDBN●●●



NSYDB●●●M

Metallic junction boxes
Characteristics

Conversions of standard lock into normalised solutions

Type and size		Operated with a key		References
Square insert	□ 6 mm	LC-7	 DB300027-9	**NSYTC6CRN**
	□ 7 mm	LC-7		**NSYTC7CRN**
	□ 8 mm	LC-8		**NSYTC8CRN**
Triangular insert	▲ 6 mm	LT-8	 DB300028-10	**NSYTT6CRN**
	▲ 7 mm	LT-8		**NSYTT7CRN**
	▲ 8 mm	LT-8		**NSYTT8CRN**
405 key-type lock			 DB300029-6	**NSYCL405CRN**

Plain mounting plate

Boxes SDB		Plain mounting plate		
Dimensions (mm)		References	Dimensions (mm)	
H	W		H	W
155	105	**NSYPMD1510**	136	88
206	156	**NSYPMD2015**	184	136
256	206	**NSYPMD2520**	234	184
307	257	**NSYPMD3025**	232	282

Steel industrial boxes
Introduction

> Simplicity, ergonomics and versatility, it's all in the box.

PB503350-61



PB503349-17



Selection
- 1 version: flat box (SBM).
- 80 mm and 120 mm depth.
- FL21 cable entries available according to the version.

PB503350-30



Modularity
- 28 sizes available.

PB503363-21



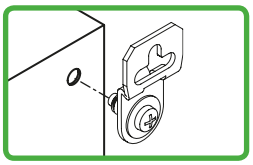
Ergonomics
- Cover opening and accessory mounting with **just a screwdriver**.

PB503351-20



Sturdy and good ingress protection
- Mechanical protection rating up to IK10.
- Ingress protection rating up to IP66.

DB300080



Easy installation
- Direct mounting though the rear.
- Mounting with versatile external lugs.

PB503351-20



Added value to your work
- Quality and aesthetics.

This range can be configured according to your needs

4 differents services available:

- Assemble to order
- Mounting of standard accessories
- Painting
- Machining

See page 488 for details or consult our web site www.se.com

Steel industrial boxes
Characteristics



Characteristics	Spacial SBM Flat box
	Box with plain faces. **Box body** Single-piece body (cross-shaped structure). Front design incorporating folded gutters. Flat rear. 2 (or 3*) drilled profiles for installing mounting plates and DIN rails, with mounting centres of 12.5 mm. 2 or more FL21 cable gland plates (1) for easy drilling and to maximum access area, delivered with the enclosure. **Box cover** Equipped with 2, 3, 4 or 6 half-turn thread screws, according to the version (2) to ensure maximum watertightness. Bus boxes equipped with cover hinges for a comfortable 180° door opening. Polyurethane sealing gasket. **Protection of personnel** Ground connection mandatory for all boxes: Spacial SBM steel boxes are equipped with a M6 x 16 ground stud welded in the cover, to be linked with the body for equipotential connection. Grounding strap to be ordered separately (Ø 6.4 mm terminal).
Material	Sheet steel
Finish	Structured finish, epoxy-polyester powder
Colour	RAL 7035 grey
Ingress protection rating	■ IP66 according to IEC 60529 ■ Type 4, 4X according to UL 50, 50E
Mechanical protection rating	IK10 according to IEC 62262
Standard	Compliance with enclosure standard IEC 62208 and the RoHS directive
Certifications (see page 574)	■ UL, BV, DNV, LR, GL ■ Fire class: M0 (EN 13501-1)
Installation	**Indoor installation** Direct wall-mounting (4 x Ø 10 mm holes) or with the help of mounting lugs installed from the outside (to be ordered separately, see the specific accessory pages). **Outdoor installation** Compliant with IEC 62208 regarding type tests specified in §9.12 (resistance to ultra-violet (UV) radiation) and §9.13 (resistance to corrosion). It is mandatory to place the box under shelter to avoid water accumulation on the upper part of the enclosure
Maximum load	Loading capacity on the body: 50 kg/m²
Other characteristics	**Vibration constraints** Specific construction of the Spacial SBM - Single-piece body (rectangular structure). The rear is flat without added parts - this ensures compliance with certain vibration constraints. **Seismic constraint** The seismic behavior of the industrial boxes Spacial SBM have been qualified according to MRI spectra "big material" specified in the standard IEC 60068-2-6 and IEC 60068-2-57 (see page 386 for more details). Tested enclosure configuration: ■ Plain door, ■ Plain mounting plate with a load of 200 kg/m² uniformly distributed on the mounting plate, ■ Fixing to the wall with M8 screws (tightening torque: 12 Nm ± 1 Nm). Level of the seismic behavior obtained: ■ 1G for boxes with the following dimensions: □ height = 400 mm and width ≥ 500 mm □ height = 300 mm and width ≥ 600 mm □ height = 200 mm and width ≥ 800 mm ■ 3G for other dimension

** 3 profiles for width 800 mm.*
(1) Only on Entry boxes and Bus boxes.
(2) 2 for Bus box (3 screws for width greater than 400 mm), 4 for Flat and Entry boxes (6 screws for width greater than 400 mm).

Steel industrial boxes
Technical characteristics

Box			SBM	Power dissipation*	Sheet thickness
Height (mm)	Width (mm)	Depth (mm)		(W)	(mm)
150	150	80	**NSYSBM15158**	13.5	10/10e
		120	**NSYSBM151512**	17.2	10/10e
	200	80	**NSYSBM15208**	16.6	10/10e
		120	**NSYSBM152012**	20.8	10/10e
	300	80	**NSYSBM15308**	22.8	10/10e
		120	**NSYSBM153012**	28.1	10/10e
	400	80	**NSYSBM15408**	29.0	10/10e
		120	**NSYSBM154012**	35.3	10/10e
200	200	80	**NSYSBM20208**	20.6	10/10e
		120	**NSYSBM202012**	25.6	10/10e
	300	80	**NSYSBM20308**	28.2	10/10e
		120	**NSYSBM203012**	34.2	10/10e
	400	80	**NSYSBM20408**	35.7	10/10e
		120	**NSYSBM204012**	42.8	10/10e
	500	80	**NSYSBM20508**	43.3	12/10e
		120	**NSYSBM205012**	51.4	12/10e
	600	80	**NSYSBM20608**	50.8	12/10e
		120	**NSYSBM206012**	60.1	12/10e
	800	120	**NSYSBM208012**	77.3	12/10e
300	300	120	**NSYSBM303012**	46.4	10/10e
	400	120	**NSYSBM304012**	57.8	10/10e
	500	120	**NSYSBM305012**	69.1	12/10e
	600	120	**NSYSBM306012**	80.4	12/10e
	800	120	**NSYSBM308012**	103.0	12/10e
400	400	120	**NSYSBM404012**	72.7	10/10e
	500	120	**NSYSBM405012**	86.7	12/10e
	600	120	**NSYSBM406012**	100.7	12/10e
	800	120	**NSYSBM408012**	128.7	12/10e

** Power dissipation calculated for a box mounted on a wall, at external temperature 25°C and maximum internal temperature 55°C.*

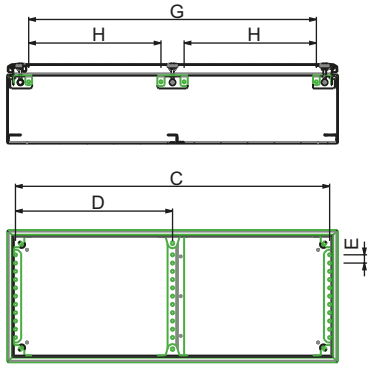
Steel industrial boxes
Dimensions

External mounting of the box and mounting accessories

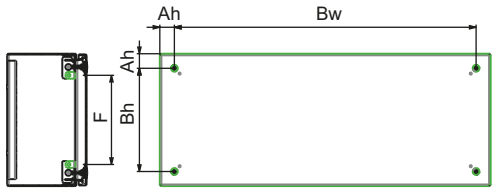
Box		Mounting								
Height (mm)	Width (mm)	Ah (mm)	Bh (mm)	Bw (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)
150	150	20.5	109	109	125	-	12.5	85	85	-
	200	20.5	109	159	175	-	12.5	85	135	-
	300	20.5	109	259	275	-	12.5	85	235	-
	400	20.5	109	359	375	-	12.5	85	335	-
200	200	20.5	159	159	175	-	12.5	135	135	-
	300	20.5	159	259	275	-	12.5	135	235	-
	400	20.5	159	359	375	-	12.5	135	335	-
	500	20.5	159	459	475	-	12.5	135	435	200
	600	20.5	159	559	575	-	12.5	135	535	250
	800	20.5	159	759	775	387.5	12.5	135	735	350
300	300	20.5	259	259	275	-	12.5	235	235	-
	400	20.5	259	359	375	-	12.5	235	335	-
	500	20.5	259	459	475	-	12.5	235	435	200
	600	20.5	259	559	575	-	12.5	235	535	250
	800	20.5	259	759	775	387.5	12.5	235	735	350
400	400	20.5	359	359	375	-	12.5	335	335	-
	500	20.5	359	459	475	-	12.5	335	435	200
	600	20.5	359	559	575	-	12.5	335	535	250
	800	20.5	359	759	775	387.5	12.5	335	735	350

DB300809EN

Section A-A



Section B-B



Steel industrial boxes
Specific accessories overview

Mounting accessories

Mounting plate

PB502100-29



Page 43

DIN rail

PB502101-29



Page 43

Post mounting

PB502099-20



Page 43

Coupling kit

PB502097-29



Page 43

Fixing accessories

Mounting lugs

PB502098-10



Page 45

Self-tapping screws

PB502104-8



Page 45

Hinges

PB502102-17



Page 45

Double-bar shaped head screw

PB502105-10



Page 45

Triangle shaped head screw

PB502106-7



Page 45

Sealing kit

PB502103-18



Page 45

Steel industrial boxes
Common accessories overview

Cable management

Cable entries



Page 242

Steel industrial boxes
Mounting accessories



Characteristics				Flat box
Material				
Colour				
Ingress protection rating				
Installation				
Maximum load				
Supply				1 unit
Dimensions (mm)			**Cover screws (1)**	**References**
Height	**Width**	**Depth**	**Qty**	**SBM**
150	150	80	4	**NSYSBM15158**
		120	4	**NSYSBM151512**
	200	80	4	**NSYSBM15208**
		120	4	**NSYSBM152012**
	300	80	4	**NSYSBM15308**
		120	4	**NSYSBM153012**
	400	80	4	**NSYSBM15408**
		120	4	**NSYSBM154012**
200	200	80	4	**NSYSBM20208**
		120	4	**NSYSBM202012**
	300	80	4	**NSYSBM20308**
		120	4	**NSYSBM203012**
	400	80	4	**NSYSBM20408**
		120	4	**NSYSBM204012**
	500	80	6	**NSYSBM20508**
		120	6	**NSYSBM205012**
	600	80	6	**NSYSBM20608**
		120	6	**NSYSBM206012**
	800	120	6	**NSYSBM208012**
300	300	120	4	**NSYSBM303012**
	400	120	4	**NSYSBM304012**
	500	120	6	**NSYSBM305012**
	600	120	6	**NSYSBM306012**
	800	120	6	**NSYSBM308012**
400	400	120	4	**NSYSBM404012**
	500	120	6	**NSYSBM405012**
	600	120	6	**NSYSBM406012**
	800	120	6	**NSYSBM408012**

(1) For Bus box, divide by 2.

Steel industrial boxes
Mounting accessories

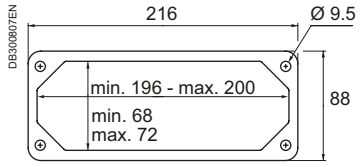








	Mounting plate		DIN rail (2)	Post mounting	Coupling kit
	-		Symmetrical DIN rails 35 x 7.5 mm.	Rail mounted externally to the rear of the box with 8 mm screws for installation on posts with diameters between 150 mm and 215 mm. For steel boxes with widths of 150, 200, 300, 400, 500, 600 and 800 mm.	Once FL21 cable openings as depicted below are made, SBM boxes can be coupled together in any combination.
	Galvanised steel		Galvanised steel	Galvanised steel	-
	-		-	-	-
	-		-	-	IP55 according to IEC 60529
	Mounting by means of 2* or 4 x Ø 5 mm self-tapping screws, Pozidriv head, ref. **NSYAMFSB** (3). Attachment points compatible with many other brands of accessories		Mounting by means of 2 x Ø 5 mm self-tapping screws, Pozidriv head, ref. **NSYAMFSB** (3)	-	For boxes bigger than 500 mm, order the same amount of units as the cable gland plate openings on the face of the box to be coupled, see table on page 38
	-		-	100 kg	-
	1 unit, supplied without screws		10 rails, supplied without screws	1 unit	1 gasket and necessary fixing hardware
	Dimensions (mm)	**References**	**References**	**References**	**References**
	H	**W**			
	125	135	**NSYMM11SB**	**NSYAMRD15357SB**	**NSYSFPSC15**	**NSYAEUBU148****
	125	135	**NSYMM11SB**	**NSYAMRD15357SB**	**NSYSFPSC15**	
	125	185	**NSYMM12SB**	**NSYAMRD20357SB**	**NSYSFPSC20**	
	125	185	**NSYMM12SB**	**NSYAMRD20357SB**	**NSYSFPSC20**	
	125	285	**NSYMM13SB**	**NSYAMRD30357SB**	**NSYSFPSC30**	
	125	285	**NSYMM13SB**	**NSYAMRD30357SB**	**NSYSFPSC30**	
	125	385	**NSYMM14SB**	**NSYAMRD40357SB**	**NSYSFPSC40**	
	125	385	**NSYMM14SB**	**NSYAMRD40357SB**	**NSYSFPSC40**	
	175	185	**NSYMM22SB**	**NSYAMRD20357SB**	**NSYSFPSC20**	
	175	185	**NSYMM22SB**	**NSYAMRD20357SB**	**NSYSFPSC20**	
	175	285	**NSYMM23SB**	**NSYAMRD30357SB**	**NSYSFPSC30**	
	175	285	**NSYMM23SB**	**NSYAMRD30357SB**	**NSYSFPSC30**	
	175	385	**NSYMM24SB**	**NSYAMRD40357SB**	**NSYSFPSC40**	
	175	385	**NSYMM24SB**	**NSYAMRD40357SB**	**NSYSFPSC40**	
	175	485	**NSYMM25SB**	**NSYAMRD50357SB**	**NSYSFPSC50**	
	175	485	**NSYMM25SB**	**NSYAMRD50357SB**	**NSYSFPSC50**	
	175	585	**NSYMM26SB**	**NSYAMRD60357SB**	**NSYSFPSC60**	
	175	585	**NSYMM26SB**	**NSYAMRD60357SB**	**NSYSFPSC60**	
	175	785	**NSYMM28SB**	**NSYAMRD80357SB**	**NSYSFPSC80**	
	275	285	**NSYMM33SB**	**NSYAMRD30357SB**	**NSYSFPSC30**	
	275	385	**NSYMM34SB**	**NSYAMRD40357SB**	**NSYSFPSC40**	
	275	485	**NSYMM35SB**	**NSYAMRD50357SB**	**NSYSFPSC50**	
	275	585	**NSYMM36SB**	**NSYAMRD60357SB**	**NSYSFPSC60**	
	275	785	**NSYMM38SB**	**NSYAMRD80357SB**	**NSYSFPSC80**	
	375	385	**NSYMM44SB**	**NSYAMRD40357SB**	**NSYSFPSC40**	
	375	485	**NSYMM45SB**	**NSYAMRD50357SB**	**NSYSFPSC50**	
	375	585	**NSYMM46SB**	**NSYAMRD60357SB**	**NSYSFPSC60**	
	375	785	**NSYMM48SB**	**NSYAMRD80357SB**	**NSYSFPSC80**	



(2) Standard equipped in Bus box.
(3) All boxes are delivered with 5 x Ø 5 mm self-tapping screws.
* *Only 2 screws for mounting plates with height 150 mm.*
** *Same reference for all dimensions. Only compatible with FL21 entry box and Bus box.*

Steel industrial boxes
Fixing accessories



Characteristics	Flat box
Colour	
Ingress protection rating	
Installation	
Maximum load	
Supply	1 unit

Dimensions (mm)			Cover screws (1)	References
Height	Width	Depth	Qty	SBM
150	150	80	4	**NSYSBM15158**
		120	4	**NSYSBM151512**
	200	80	4	**NSYSBM15208**
		120	4	**NSYSBM152012**
	300	80	4	**NSYSBM15308**
		120	4	**NSYSBM153012**
	400	80	4	**NSYSBM15408**
		120	4	**NSYSBM154012**
200	200	80	4	**NSYSBM20208**
		120	4	**NSYSBM202012**
	300	80	4	**NSYSBM20308**
		120	4	**NSYSBM203012**
	400	80	4	**NSYSBM20408**
		120	4	**NSYSBM204012**
	500	80	6	**NSYSBM20508**
		120	6	**NSYSBM205012**
	600	80	6	**NSYSBM20608**
		120	6	**NSYSBM206012**
	800	120	6	**NSYSBM208012**
300	300	120	4	**NSYSBM303012**
	400	120	4	**NSYSBM304012**
	500	120	6	**NSYSBM305012**
	600	120	6	**NSYSBM306012**
	800	120	6	**NSYSBM308012**
400	400	120	4	**NSYSBM404012**
	500	120	6	**NSYSBM405012**
	600	120	6	**NSYSBM406012**
	800	120	6	**NSYSBM408012**

(1) For Bus box, divide by 2.

Steel industrial boxes
Fixing accessories


PB502979-8


PB502104-6


PB502102-12


PB502105-7


PB502106-5


PB502103-13

	Mounting lugs	Self-tapping screws	Hinges (3)	Double-bar shaped head screw	Triangle shaped head screw	Sealing kit
	Wall-mounting lugs to be mounted directly on the rear of the box, either in horizontal or vertical position. Their versatile design complies with the mounting dimensions of many other enclosures.	Self-tapping, Pozidriv head, screws, for Ø 5 mm holes.	The hinges allow the cover to open to more than 180°. They can be installed on all covers in the range.	The standard Pozidriv head screws can be replaced with the Double-bar or Triangle shaped head screws, to discourage unauthorised opening of the cover with normal screwdrivers.		The sealing kit helps to set up a lead-sealed wire of cover opening.
	-	-	-	-		Green
	IP66 according to IEC 60529	-	IP66 according to IEC 60529	IP66 according to IEC 60529		IP66 according to IEC 60529
	Horizontal or vertical position, distance between wall and enclosure: 10 mm, only requires a screw driver	-	■ The box must be drilled before installing the 2 hinges on the body. 3 hinges are required for boxes of width more than 500 mm ■ A specific mark on the body helps to locate where the hole should be drilled	Simply replace the standard screw on the box		Replaces the standard sealing washer on the box
	70 kg	-	30 kg/m² on the hinged cover	-		-
	4 wall-mounting lugs, screws and pre-mounted sealing gaskets	100 units	Set of 6 hinges delivers with fixing hardware	20 units		1 unit
	NSYAEFPFSB*	**NSYAMFSB***	**NSYAEDHSB***	**NSYAEDSBSB***	**NSYAEDSTSB***	**NSYPPSB***

(3) Standard equipped in Bus box.
** Same reference for all dimensions.*

Steel
wall-mounting enclosures

Steel wall-mounting enclosures
Contents


PB500369-31

Spacial CRN **48**
Steel wall-mounting enclosures

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Common accessories overview 57
Accessories 58


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Associated applicative offers

S3DM Distribution modular enclosures 286
S3DB Terminal enclosures 282
S3DBFL Terminal enclosures with FL21 cut-out 282
S3HD Wall-mounting Heavy Duty enclosures 372
S3D 6G, S3D 6G K3 Seismic and nuclear enclosures 398
VDM 19" enclosures 410
CRN 19" enclosures 413
S3HF Electromagnetic compatibility 436
S3DEX Potentially explosive atmospheres 445

Steel wall-mounting enclosures
Introduction

> You need an enclosure for indoor non-clean industrial environment.

CRN

PB500369-68



CRNG

PB500373-70



PB500377-48



Time Lasting
- Industrial welding process.
- Epoxy-polyester painting.
- Foamed-in polyurethane gasket.

All of the above guarantees quality, water and dust tightness.

Front folded gutter prevents the entry of water, oil or liquids, ensuring IP66 protection.

PB500379-44



Safety
For people:
- Two welded M6 x 15 earth studs welded to the back and one M6 x 15 stud on the door.

For your installation:
- Water and dust tightness IP66.
- Ruggedness IK10 to protect your component from external impact.
- Hidden hinges to prevent the removal of the door.

PB500376-64



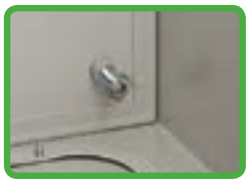
Smart
Welded door reinforcement profile allowing the fixing of equipment in models from 500 mm high.

PB500110-35



Sealed
Glazed tempered glass door that allow to maintain the IP66 and IK08 protection.

PB500369-187



Practical
4 welded M8 x 15 back studs shouldered 10 mm for direct installation of mounting plate.

PB500378



Convenient
- Large embedded cable-entry plate with a neoprene seal, flush with the back of the enclosure.
- Direct fixing or using the brackets fixed from outside.

This range can be configured according to your needs

4 differents services available:

Assemble to order

Mounting of standard accessories

Painting

Machining

See page 488 for details or consult our web site www.se.com

Steel wall-mounting enclosures
Characteristics

CRN



CRNG



Characteristics	Spacial CRN	Spacial CRNG
	39 dimensions for this metal monobloc. Back piece joined to the sides using a special profile forming a protected sealed area.	■ 17 dimensions with three-point locking system for this metal construction suite of enclosures. ■ All Spacial CRNG models include a three-point locking system.
Material	Steel	
Finish	Structured finish, epoxy-polyester powder	
Colour	RAL 7035 grey	
Ingress protection rating	■ IP66 for one-door enclosures ■ IP55 for two-door enclosures according to IEC 60529	
Mechanical protection rating	IK10 for plain door & IK08 for glazed door according to IEC 62262	
Standards	IEC 62208	
Certifications (see page 574)	■ UL, CUL ■ NEMA 4 for single-door enclosure according to NEMA 250 ■ NEMA 12, 12K and 13 for double-door enclosure according to NEMA 250 ■ RoHS compliance	
Installation	■ Given their strength, metal enclosures are particularly well suited to indoor areas where they may experience impacts ■ Outdoor installation: compliant with IEC 62208 regarding type tests specified in §9.12 (resistance to ultra-violet (UV) radiation) and §9.13 (resistance to corrosion). It is always advisable to install a canopy to avoid water stagnation on the upper part of the enclosure	
Supply	**Body** ■ 4 holes for direct fixing ■ Wall-fixing drill holes sealed with plastic plugs to ensure the degree of protection (supplied as standard) ■ Wall-fixing bracket fixed from outside (brackets to be ordered separately) ■ Direct cable entry ■ Built-in cable-entry plate, flush with the back of the enclosure (without foamed-in gasket to facilitate machining) ■ Insulated cable entries with knock-outs, available as an accessory ■ Easy to equip with 4 welded back studs shouldered 10 mm **Door** ■ 3-mm standard double-bar lock as standard. See page 64 (Wide choice of inserts as accessories) ■ Foamed-in polyurethane gasket on the doors to guarantee water and dust tightness ■ Easily reversible door, fixed with two or three invisible metal hinges allowing the door to open to 120° ■ Reinforcement on plain doors with welded perforated door profiles for equipment fixing from models NSYCRN54150 ■ Welded earth studs on door and body ■ Delivered with a reusable packaging and technical instructions	**Body** ■ 4 holes for direct fixing ■ Wall-fixing drill holes sealed with plastic plugs to ensure water and dust tightness (supplied as standard) ■ Wall-fixing bracket fixed from outside, specific for large dimensions (to be ordered separatly). See on page 58 ■ Built-in cable-entry plate, flush with the back of the enclosure (without foamed-in gasket to facilitate machining) ■ Easy to equip with 4 welded back studs shouldered 10 mm (6 for widths of 1000 mm and 1200 mm) **Door** ■ Three-point locking system for one and two doors. Standard 5-mm double-bar lock ■ Door-centring piece on two-door enclosures to ensure proper door alignment ■ Foamed-in polyurethane gasket on the doors to guarantee water and dust tightness ■ Reinforcement on plain doors with welded perforated door profiles for equipment fixing ■ Delivered with a reusable packaging and technical instructions ■ Easily reversible door, fixed with two or three invisible metal hinges allowing the door to open to 120° ■ Welded earth studs on door and body

Steel wall-mounting enclosures
Selection guide

CRN CRNG


PB500109-15


PB500110-12


PB500072-10


PB500100-10


PB500101-13

Dimensions (mm)			No. of doors	IP	Weight (1)	Door			Plain	Silkscreened	Microperforated
Height (A)	Width (B)	Depth (C)				Plain with mounting plate	Plain without mounting plate	Glazed without mounting plate			
CRN steel wall-mounting enclosures											
200	200	150	1	66	2.5	-	NSYCRN22150 (2)	-	NSYMM22	-	-
	300	150	1	66	3.9	-	NSYCRN23150 (2)	-	NSYMM32	-	NSYMF32
250	200	150	1	66	3.2	NSYCRN252150P	NSYCRN252150	-	NSYMM2520	-	-
300	250	150	1	66	4.2	NSYCRN325150P	NSYCRN325150	NSYCRN325150T	NSYMM3025	-	-
		200	1	66	4.9	NSYCRN325200P	NSYCRN325200	NSYCRN325200T	NSYMM3025	-	-
	300	150	1	66	5.0	NSYCRN33150P	NSYCRN33150	NSYCRN33150T	NSYMM33	-	NSYMF33
		200	1	66	6.0	NSYCRN33200P	NSYCRN33200	NSYCRN33200T	NSYMM33	-	NSYMF33
	400	200	1	66	6.4	-	NSYCRN34200	NSYCRN34200T	NSYMM43	NSYMS43	NSYMF43
	450	150	1	66	6.7	-	NSYCRN345150 (2)	-	NSYMM3045	-	-
400	300	150	1	66	6.0	NSYCRN43150P	NSYCRN43150	NSYCRN43150T	NSYMM43	NSYMS43	NSYMF43
		200	1	66	6.8	NSYCRN43200P	NSYCRN43200	NSYCRN43200T	NSYMM43	NSYMS43	NSYMF43
	400	200	1	66	8.0	NSYCRN44200P	NSYCRN44200	NSYCRN44200T	NSYMM44	NSYMS44	NSYMF44
	600	250	1	66	10.0	NSYCRN46250P	NSYCRN46250	NSYCRN46250T	NSYMM64	NSYMS64	NSYMF64
		300	1	66	11.2	-	NSYCRN46300	NSYCRN46300T	NSYMM64	NSYMS64	NSYMF64
500	400	150	1	66	8.7	NSYCRN54150P	NSYCRN54150	NSYCRN54150T	NSYMM54	NSYMS54	NSYMF54
		200	1	66	9.8	NSYCRN54200P	NSYCRN54200	NSYCRN54200T	NSYMM54	NSYMS54	NSYMF54
		250	1	66	11.0	NSYCRN54250P	NSYCRN54250	NSYCRN54250T	NSYMM54	NSYMS54	NSYMF54
	500	250	1	66	12.8	NSYCRN55250P	NSYCRN55250	NSYCRN55250T	NSYMM55	NSYMS55	NSYMF55
600	400	150	1	66	9.3	NSYCRN64150P	NSYCRN64150	NSYCRN64150T	NSYMM64	NSYMS64	NSYMF64
		200	1	66	10.8	NSYCRN64200P	NSYCRN64200	NSYCRN64200T	NSYMM64	NSYMS64	NSYMF64
		250	1	66	12.3	NSYCRN64250P	NSYCRN64250	NSYCRN64250T	NSYMM64	NSYMS64	NSYMF64
	500	150	1	66	11.3	NSYCRN65150P	NSYCRN65150	NSYCRN65150T	NSYMM65	-	NSYMF65
		200	1	66	14.3	NSYCRN65200P	NSYCRN65200	NSYCRN65200T	NSYMM65	-	NSYMF65
		250	1	66	16.2	NSYCRN65250P	NSYCRN65250	NSYCRN65250T	NSYMM65	-	NSYMF65
	600	200	1	66	16.3	NSYCRN66200P	NSYCRN66200	NSYCRN66200T	NSYMM66	NSYMS66	NSYMF66
		250	1	66	18.2	NSYCRN66250P	NSYCRN66250	NSYCRN66250T	NSYMM66	NSYMS66	NSYMF66
		300	1	66	19.8	NSYCRN66300P	NSYCRN66300	NSYCRN66300T	NSYMM66	NSYMS66	NSYMF66
	800	300	1	66	26.0	-	NSYCRN68300	NSYCRN68300T	NSYMM86	NSYMS86	NSYMF86
700	500	200	1	66	17.3	NSYCRN75200P	NSYCRN75200	NSYCRN75200T	NSYMM75	NSYMS75	NSYMF75
		250	1	66	19.3	NSYCRN75250P	NSYCRN75250	NSYCRN75250T	NSYMM75	NSYMS75	NSYMF75
800	600	200	1	66	21.8	NSYCRN86200P	NSYCRN86200	NSYCRN86200T	NSYMM86	NSYMS86	NSYMF86
		250	1	66	24.8	NSYCRN86250P	NSYCRN86250	NSYCRN86250T	NSYMM86	NSYMS86	NSYMF86
		300	1	66	26.3	NSYCRN86300P	NSYCRN86300	NSYCRN86300T	NSYMM86	NSYMS86	NSYMF86
	800	200	1	66	29.5	NSYCRN88200P	NSYCRN88200	NSYCRN88200T	NSYMM88	-	NSYMF88
		300	1	66	32.5	NSYCRN88300P	NSYCRN88300	NSYCRN88300T	NSYMM88	-	NSYMF88
1000	600	250	1	66	28.4	NSYCRN106250P	NSYCRN106250	NSYCRN106250T	NSYMM106	-	NSYMF106
		300	1	66	30.6	NSYCRN106300P	NSYCRN106300	NSYCRN106300T	NSYMM106	-	NSYMF106
	800	250	1	66	34.5	NSYCRN108250P	NSYCRN108250	NSYCRN108250T	NSYMM108	-	NSYMF108
		300	1	66	37.4	NSYCRN108300P	NSYCRN108300	NSYCRN108300T	NSYMM108	-	NSYMF108
CRNG Wall-mounting steel enclosures with three-point locking system											
800	600	400	1	66	30.0	-	NSYCRNG86400	NSYCRNG86400T	NSYMM86	NSYMS86	NSYMF86
	1000	300	2	55	40.0	-	NSYCRNG810300D	-	NSYMM108	-	NSYMF108
	1200	300	2	55	46.0	-	NSYCRNG812300D	-	NSYMM128	-	NSYMF128
1000	600	400	1	66	36.0	-	NSYCRNG106400	NSYCRNG106400T	NSYMM106	-	NSYMF106
	800	400	1	66	43.0	-	NSYCRNG108400	NSYCRNG108400T	NSYMM108	-	NSYMF108
	1000	300	2 (3)	55	47.0	-	NSYCRNG1010300D	NSYCRNG1010300T	NSYMM1010	-	NSYMF1010
	1200	300	2	55	55.0	-	NSYCRNG1012300D	-	NSYMM1210	-	NSYMF1210
		400	2	55	60.0	-	NSYCRNG1012400D	-	NSYMM1210	-	NSYMF1210
1200	600	300	1	66	37.0	-	NSYCRNG126300	NSYCRNG126300T	NSYMM126	-	NSYMF126
		400	1	66	42.0	-	NSYCRNG126400	NSYCRNG126400T	NSYMM126	-	NSYMF126
	800	300	1	66	45.0	-	NSYCRNG128300	NSYCRNG128300T	NSYMM128	-	NSYMF128
		400	1	66	50.0	-	NSYCRNG128400	NSYCRNG128400T	NSYMM128	-	NSYMF128
	1000	300	2	55	56.0	-	NSYCRNG1210300D	-	NSYMM1210	-	NSYMF1210
		400	2	55	61.0	-	NSYCRNG1210400D	-	NSYMM1210	-	NSYMF1210
	1200	300	2	55	64.0	-	NSYCRNG1212300D	-	NSYMM1212	-	2 x **NSYMF126***
		400	2	55	90.0	-	NSYCRNG1212400D	-	NSYMM1212	-	2 x **NSYMF126***
1400	1000	300	2	55	80.0	-	NSYCRNG1410300D	-	NSYMM1410	-	-

(1) Enclosure without mounting plate.
(2) Two cable gland plates, one on the top, one on the bottom.
(3) Except glazed door in single door.
(4) With two holes.
*(5) For flange openings type E, two **NSYTSACRNC** are required.*
*(6) Ref. **NSYEMR** mandatory.*

Steel wall-mounting enclosures
Selection guide


PB500102-13


PB500103-10


PB500104-12


PB500105-14


PB500111-19


PB500324-16


PB500397-31

PB500327-18

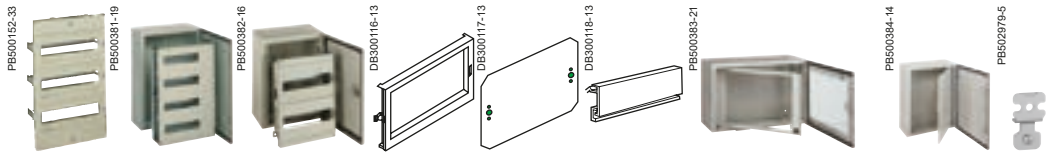

PB501865-16

	Telequick	Bakelite	DIN rails chassis	Aluminum upright (7)	Step slides	Cable entry					
						Fig.	Type of cable entry	Cable-gland plate standard	Cable-gland plate insulated	Cable-gland plate with FL cut-out	FlexiCable
	-	-	-	-	-	1	0	NSYTLCRNO	-	-	-
	-	NSYMB32	-	-	-	1	B	NSYTLCRNB	-	-	-
	-	-	-	-	-	1	0	NSYTLCRNO	-	-	-
	NSYMR3025	NSYMB3025	-	NSYMDVR3	-	1	A	NSYTLCRNA	NSYTSACRNA	-	-
	NSYMR3025	NSYMB3025	-	NSYMDVR3	NSYSDCR200	1	A	NSYTLCRNA	NSYTSACRNA	NSYTFL13CRNA	-
	NSYMR33	NSYMB33	NSYMD33	NSYMDVR3	-	1	B	NSYTLCRNB	NSYTSACRNB	NSYTFL13CRNB	-
	NSYMR33	NSYMB33	NSYMD33	NSYMDVR3	NSYSDCR200	1	B	NSYTLCRNB	NSYTSACRNB	NSYTFL13CRNB	-
	NSYMR34	NSYMB43	-	NSYMDVR3	NSYSDCR200	1	C	NSYTLCRNC	NSYTSACRNC	NSYTFL21CRNC	-
	-	NSYMB43	-	NSYMDVR3	-	1	B	NSYTLCRNB	NSYTSACRNB	NSYTFL13CRNB	-
	NSYMR43	NSYMB43	NSYMD43	NSYMDVR4	-	1	B	NSYTLCRNB	NSYTSACRNB	NSYTFL13CRNB	-
	NSYMR43	NSYMB43	NSYMD43	NSYMDVR4	NSYSDCR200	1	B	NSYTLCRNB	NSYTSACRNB	NSYTFL13CRNB	-
	NSYMR44	-	-	NSYMDVR4	NSYSDCR200	1	C	NSYTLCRNC	NSYTSACRNC	NSYTFL21CRNC	-
	NSYMR46	NSYMB64	-	NSYMDVR4	NSYSDCR250	1	D	NSYTLCRND	NSYTSACRND	NSYTFL21CRND	-
	NSYMR46	NSYMB64	-	NSYMDVR4	NSYSDCR300	1	D	NSYTLCRND	NSYTSACRND	NSYTFL21CRND	-
	NSYMR54	NSYMB54	NSYMD54	NSYMDVR5	-	2	B	NSYTLCRNB	NSYTSACRNB	NSYTFL13CRNB	-
	NSYMR54	NSYMB54	NSYMD54	NSYMDVR5	NSYSDCR200	2	C	NSYTLCRNC	NSYTSACRNC	NSYTFL21CRNC	-
	NSYMR54	NSYMB54	NSYMD54	NSYMDVR5	NSYSDCR250	2	C	NSYTLCRNC	NSYTSACRNC	NSYTFL21CRNC	-
	NSYMR55	-	-	NSYMDVR5	NSYSDCR250	2	D	NSYTLCRND	NSYTSACRND	NSYTFL21CRND	-
	NSYMR64	NSYMB64	NSYMD64	NSYMDVR6	-	2	B	NSYTLCRNB	NSYTSACRNB	NSYTFL13CRNB	-
	NSYMR64	NSYMB64	NSYMD64	NSYMDVR6	NSYSDCR200	2	C	NSYTLCRNC	NSYTSACRNC	NSYTFL21CRNC	-
	NSYMR64	NSYMB64	NSYMD64	NSYMDVR6	NSYSDCR250	2	C	NSYTLCRNC	NSYTSACRNC	NSYTFL21CRNC	-
	NSYMR65	NSYMB65	-	NSYMDVR6	-	2	B	NSYTLCRNB	NSYTSACRNB	NSYTFL13CRNB	-
	NSYMR65	NSYMB65	-	NSYMDVR6	NSYSDCR200	2	D	NSYTLCRND	NSYTSACRND	NSYTFL21CRND	-
	NSYMR65	NSYMB65	-	NSYMDVR6	NSYSDCR250	2	D	NSYTLCRND	NSYTSACRND	NSYTFL21CRND	-
	NSYMR66	-	NSYMD66	NSYMDVR6	NSYSDCR200	2	D	NSYTLCRND	NSYTSACRND	NSYTFL21CRND	-
	NSYMR66	-	NSYMD66	NSYMDVR6	NSYSDCR250	2	D	NSYTLCRND	NSYTSACRND	NSYTFL21CRND	-
	NSYMR66	-	NSYMD66	NSYMDVR6	NSYSDCR300	2	D	NSYTLCRND	NSYTSACRND	NSYTFL21CRND	-
	NSYMR68	-	-	NSYMDVR6	NSYSDCR300	2	E	NSYTLCRNC (4)	NSYTSACRNC	NSYTFL21CRNC	-
	NSYMR75	NSYMB75	NSYMD75	NSYMDVR7	NSYSDCR200	2	D	NSYTLCRND	NSYTSACRND	NSYTFL21CRND	-
	NSYMR75	NSYMB75	NSYMD75	NSYMDVR7	NSYSDCR250	2	D	NSYTLCRND	NSYTSACRND	NSYTFL21CRND	-
	NSYMR86	NSYMB86	NSYMD86	NSYMDVR8	NSYSDCR200	2	D	NSYTLCRND	NSYTSACRND	NSYTFL21CRND	-
	NSYMR86	NSYMB86	NSYMD86	NSYMDVR8	NSYSDCR250	2	D	NSYTLCRND	NSYTSACRND	NSYTFL21CRND	-
	NSYMR86	NSYMB86	NSYMD86	NSYMDVR8	NSYSDCR300	2	D	NSYTLCRND	NSYTSACRND	NSYTFL21CRND	-
	NSYMR88	-	-	NSYMDVR8	NSYSDCR200	2	E	NSYTLCRNC (4)	NSYTSACRNC (5)	NSYTFL21CRNC	-
	NSYMR88	-	-	NSYMDVR8	NSYSDCR300	2	E	NSYTLCRNC (4)	NSYTSACRNC (5)	NSYTFL21CRNC	-
	NSYMR106	NSYMB106	-	NSYMDVR10	NSYSDCR250	2	D	NSYTLCRND	NSYTSACRND	NSYTFL21CRND	-
	NSYMR106	NSYMB106	-	NSYMDVR10	NSYSDCR300	2	D	NSYTLCRND	NSYTSACRND	NSYTFL21CRND	-
	NSYMR108	NSYMB108	NSYMD108	NSYMDVR10	NSYSDCR250	2	E	NSYTLCRNC (4)	NSYTSACRNC (5)	NSYTFL21CRNC	-
	NSYMR108	NSYMB108	NSYMD108	NSYMDVR10	NSYSDCR300	2	E	NSYTLCRNC (4)	NSYTSACRNC (5)	NSYTFL21CRNC	-
	NSYMR86	NSYMB86	NSYMD86	NSYMDVR8	NSYSDCR400	3	G	NSYTLG	-	NSYTLG2FL	NSYTLGME
	NSYMR810	-	-	NSYMDVR8	NSYSDCR300	4	H	NSYTLE	-	NSYTLEFL	2 x NSYTLEME
	2 x NSYMR86*	-	-	NSYMDVR8	NSYSDCR300**	4	H	NSYTLE	-	NSYTLEFL	2 x NSYTLEME
	NSYMR106	NSYMB106	-	NSYMDVR10	NSYSDCR400	3	G	NSYTLG	-	NSYTLG2FL	NSYTLGME
	NSYMR108	NSYMB108	NSYMD108	NSYMDVR10	NSYSDCR400	4	H	NSYTLD	-	NSYTLDFL	2 x NSYTLDME
	NSYMR1010 (6)	NSYMB1210	-	NSYMDVR10	NSYSDCR300	4	H	NSYTLE	-	NSYTLEFL	2 x NSYTLEME
	NSYMR1012 (6)	NSYMB1210	-	NSYMDVR10	NSYSDCR300**	4	H	NSYTLE	-	NSYTLEFL	2 x NSYTLEME
	NSYMR1012 (6)	-	-	NSYMDVR10	NSYSDCR400**	4	H	NSYTLE	-	NSYTLEFL	2 x NSYTLEME
	NSYMR126	-	-	NSYMDVR12	NSYSDCR300	3	G	NSYTLG	-	NSYTLG2FL	NSYTLGME
	NSYMR126	-	-	NSYMDVR12	NSYSDCR400	3	G	NSYTLG	-	NSYTLG2FL	NSYTLGME
	NSYMR128	-	NSYMD128	NSYMDVR12	NSYSDCR300	4	H	NSYTLD	-	NSYTLDFL	2 x NSYTLDME
	NSYMR128	-	NSYMD128	NSYMDVR12	NSYSDCR400	4	H	NSYTLD	-	NSYTLDFL	2 x NSYTLDME
	NSYMR1210 (6)	NSYMB1210	-	NSYMDVR12	NSYSDCR300	4	H	NSYTLE	-	NSYTLEFL	2 x NSYTLEME
	NSYMR1210 (6)	NSYMB1210	-	NSYMDVR12	NSYSDCR400	4	H	NSYTLE	-	NSYTLEFL	2 x NSYTLEME
	2 x NSYMR126*	-	-	NSYMDVR12	NSYSDCR300**	4	H	NSYTLE	-	NSYTLEFL	2 x NSYTLEME
	2 x NSYMR126*	-	-	NSYMDVR12	NSYSDCR400**	4	H	NSYTLE	-	NSYTLEFL	2 x NSYTLEME
	NSYMR1410 (6)	-	-	-	NSYSDCR300	4	H	NSYTLE	-	NSYTLEFL	2 x NSYTLEME

*(7) Order **NSYAMCSF**, **NSYMDVR12** in steel.*
** Order **NSYCRNGSDR** to mount double mounting plate.*
*** Except for double mounting plate, order in addition ref. **NSYSDRSDCR300** (D300) or **NSYSDRSDCR400** (D400).*

Steel wall-mounting enclosures
Selection guide

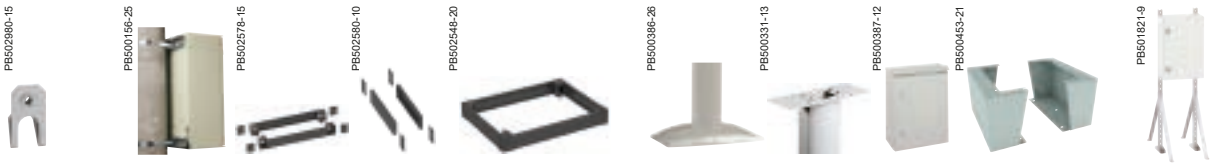
CRN CRNG



Nominal dimensions (mm)			No. of doors	Electric distribution						Electronic and network		Installation system	
Height (A)	Width (B)	Depth (C)		DLA insulated distribution chassis	DL fixed metal distribution chassis	DLM adjustable metal distribution chassis	Plain cover plate for DLM	Mounting plate for DLM	Blanking plate	Fixed 19" rack	Swing 19" rack	Inner door	Wall-fixing lugs
CRN steel wall-mounting enclosures													
200	200	150	1	-	-	-	-	-	-	-	-	-	NSYPFCR
	300	150	1	-	-	-	-	-	-	-	-	-	NSYPFCR
250	200	150	1	-	-	-	-	-	-	-	-	-	NSYPFCR
300	250	150	1	-	NSYDLCR18	-	-	-	-	-	-	-	NSYPFCR
		200	1	-	NSYDLCR18	-	-	-	-	-	-	-	NSYPFCR
	300	150	1	-	-	-	-	-	-	-	-	-	NSYPFCR
		200	1	-	-	-	-	-	-	-	-	-	NSYPFCR
	400	200	1	-	-	-	-	-	-	-	-	-	NSYPFCR
	450	150	1	-	-	-	-	-	-	-	-	-	NSYPFCR
400	300	150	1	NSYDLA24G	NSYDLCR24	NSYDLM24	NSYCTL300DLM	NSYPMP300DLM	NSYATP72G	-	-	NSYPIN43	NSYPFCR
		200	1	NSYDLA24G	NSYDLCR36	NSYDLM24	NSYCTL300DLM	NSYPMP300DLM	NSYATP72G	-	-	NSYPIN43	NSYPFCR
	400	200	1	-	-	-	-	-	-	-	-	-	NSYPFCR
	600	250	1	-	-	-	-	-	-	NSYVDM8UF	NSYVDM7UP	-	NSYPFCR
		300	1	-	-	-	-	-	-	NSYVDM8UF	NSYVDM7UP	-	NSYPFCR
500	400	150	1	NSYDLA48G	-	NSYDLM48	NSYCTL400DLM	NSYPMP400DLM	NSYATP72G	-	-	NSYPIN54	NSYPFCR
		200	1	NSYDLA48G	-	NSYDLM48	NSYCTL400DLM	NSYPMP400DLM	NSYATP72G	-	-	NSYPIN54	NSYPFCR
		250	1	NSYDLA48G	NSYDLCR48	NSYDLM48	NSYCTL400DLM	NSYPMP400DLM	NSYATP72G	-	-	NSYPIN54	NSYPFCR
	500	250	1	-	-	-	-	-	-	-	-	-	NSYPFCR
600	400	150	1	NSYDLA48PG	-	NSYDLM48P	NSYCTL400DLM	NSYPMP400DLM	NSYATP72G	-	-	NSYPIN64	NSYPFCR
		200	1	NSYDLA48PG	-	NSYDLM48P	NSYCTL400DLM	NSYPMP400DLM	NSYATP72G	-	-	NSYPIN64	NSYPFCR
		250	1	NSYDLA48PG	NSYDLCR64	NSYDLM48P	NSYCTL400DLM	NSYPMP400DLM	NSYATP72G	-	-	NSYPIN64	NSYPFCR
	500	150	1	-	NSYDLCR64	-	-	-	-	-	-	-	NSYPFCR
		200	1	-	-	-	-	-	-	-	-	-	NSYPFCR
		250	1	-	NSYDLCR88	-	-	-	-	-	-	-	NSYPFCR
	600	200	1	-	NSYDLCR88	NSYDLM84P	NSYCTL600DLM	NSYPMP600DLM	NSYATP72G	NSYVDM12UF	NSYVDM11UP	-	NSYPFCR
		250	1	-	-	NSYDLM84P	NSYCTL600DLM	NSYPMP600DLM	NSYATP72G	NSYVDM12UF	NSYVDM11UP	-	NSYPFCR
		300	1	-	-	NSYDLM84P	NSYCTL600DLM	NSYPMP600DLM	NSYATP72G	NSYVDM12UF	NSYVDM11UP	-	NSYPFCR
	800	300	1	-	-	-	-	-	-	-	-	-	NSYPFCR
700	500	200	1	NSYDLA66G/ NSYDLA88G	-	NSYDLM66/ NSYDLM88	NSYCTL500DLM	NSYPMP500DLM	NSYATP72G	-	-	NSYPIN75	NSYPFCR
		250	1	NSYDLA66G/ NSYDLA88G	-	NSYDLM66/ NSYDLM88	NSYCTL500DLM	NSYPMP500DLM	NSYATP72G	-	-	NSYPIN75	NSYPFCR
800	600	200	1	NSYDLA84G/ NSYDLA112G	NSYDLCR110	NSYDLM84/ NSYDLM112	NSYCTL600DLM	NSYPMP600DLM	NSYATP72G	NSYVDM17UF	-	NSYPIN86	NSYPFCR
		250	1	NSYDLA84G/ NSYDLA112G	-	NSYDLM84/ NSYDLM112	NSYCTL600DLM	NSYPMP600DLM	NSYATP72G	NSYVDM17UF	NSYVDM16UP	NSYPIN86	NSYPFCR
		300	1	NSYDLA84G/ NSYDLA112G	NSYDLCR135	NSYDLM84/ NSYDLM112	NSYCTL600DLM	NSYPMP600DLM	NSYATP72G	NSYVDM17UF	NSYVDM16UP	NSYPIN86	NSYPFCR
	800	200	1	-	-	-	-	-	-	-	-	-	NSYPFCR
		300	1	-	-	-	-	-	-	-	-	-	NSYPFCR
1000	600	250	1	-	-	NSYDLM168	NSYCTL600DLM	NSYPMP600DLM	NSYATP72G	NSYVDM21UF	NSYVDM20UP	NSYPIN106	NSYPFCR
		300	1	-	-	NSYDLM168	NSYCTL600DLM	NSYPMP600DLM	NSYATP72G	NSYVDM21UF	NSYVDM20UP	NSYPIN106	NSYPFCR
	800	250	1	NSYDLA234G	-	NSYDLM240	NSYCTL800DLM	NSYPMP800DLM	NSYATP72G	-	NSYVDM20U8P	NSYPIN108	NSYPFCR
		300	1	NSYDLA234G	-	NSYDLM240	NSYCTL800DLM	NSYPMP800DLM	NSYATP72G	-	NSYVDM20U8P	NSYPIN108	NSYPFCR
CRNG Wall-mounting steel enclosures with three-point locking system													
800	600	400	1	NSYDLA84G/ NSYDLA112G	-	NSYDLM84/ NSYDLM112	NSYCTL600DLM	NSYPMP600DLM	NSYATP72G	NSYVDM17UF	NSYVDM16UP	NSYPIN86	NSYAEFPFSC
	1000	300	2	-	-	-	-	-	-	-	-	-	NSYAEFPFSC
	1200	300	2	-	-	-	-	-	-	-	-	-	NSYAEFPFSC
1000	600	400	1	-	-	NSYDLM168	NSYCTL600DLM	NSYPMP600DLM	NSYATP72G	NSYVDM21UF	NSYVDM20UP	NSYPIN106	NSYAEFPFSC
	800	400	1	NSYDLA234G	-	NSYDLM240	NSYCTL800DLM	NSYPMP800DLM	NSYATP72G	-	NSYVDM20U8P	NSYPIN108	NSYAEFPFSC
	1000	300	2	-	-	-	-	-	-	-	-	-	NSYAEFPFSC
	1200	300	2	-	-	-	-	-	-	-	-	-	NSYAEFPFSC
		400	2	-	-	-	-	-	-	-	-	-	NSYAEFPFSC
1200	600	300	1	-	-	-	-	-	-	-	-	NSYPIN126	NSYAEFPFSC
		400	1	-	-	-	-	-	-	-	-	NSYPIN126	NSYAEFPFSC
	800	300	1	-	-	-	-	-	-	-	NSYVDM25U8P	NSYPIN128	NSYAEFPFSC
		400	1	-	-	-	-	-	-	-	NSYVDM25U8P	NSYPIN128	NSYAEFPFSC
	1000	300	2	-	-	-	-	-	-	-	-	-	NSYAEFPFSC
		400	2	-	-	-	-	-	-	-	-	-	NSYAEFPFSC
	1200	300	2	-	-	-	-	-	-	-	-	-	NSYAEFPFSC
		400	2	-	-	-	-	-	-	-	-	-	NSYAEFPFSC
1400	1000	300	2	-	-	-	-	-	-	-	-	-	NSYAEFPFSC

*(1) To be coupled in 200 mm depth enclosure, the lifting bracket ref. **NSYEX608** must be ordered separately.*
(2) 2 coupling plates and supporting poles are required.

Steel wall-mounting enclosures
Selection guide



Kit for heavy loads*	Post-fixing device	Single plinths side plate**		Single plinths front plate**		Supporting pole	Coupling plates	Canopies	Floor stand kit for WM		Support bracket for enclosure with anti-tilt kit and reinforcement
		100 mm	200 mm	100 mm	200 mm				300 mm	400 mm	1400 mm***
-	-	-	-	-	-	-	-	-	-	-	NSYCOCNS1400
-	-	-	-	-	-	-	-	-	-	-	NSYCOCNS1400
-	-	-	-	-	-	-	-	NSYTJ2015	-	-	NSYCOCNS1400
-	-	-	-	-	-	-	NSYCHCOA	NSYTJ2515	-	-	NSYCOCNS1400
-	-	-	-	-	-	NSYCOCN80	NSYCHCOA	NSYTJ2520	-	-	NSYCOCNS1400
-	NSYSFPSC30	-	-	-	-	NSYCOCN80	NSYCHCOB	NSYTJ3015	-	-	NSYCOCNS1400
-	NSYSFPSC30	-	-	-	-	NSYCOCN80	NSYCHCOB	NSYTJ3020	-	-	NSYCOCNS1400
-	NSYSFPSC40	-	-	-	-	NSYCOCN80	NSYCHCOC	NSYTJ4020	-	-	NSYCOCNS1400
-	-	-	-	-	-	-	-	-	-	-	NSYCOCNS1400
-	NSYSFPSC30	-	-	-	-	NSYCOCN80	NSYCHCOB	NSYTJ3015	-	-	NSYCOCNS1400
-	NSYSFPSC30	-	-	-	-	NSYCOCN80	NSYCHCOB	NSYTJ3020	-	-	NSYCOCNS1400
-	NSYSFPSC40	-	-	-	-	NSYCOCN80	NSYCHCOC	NSYTJ4020	-	-	NSYCOCNS1400
-	NSYSFPSC60	-	-	-	-	-	NSYCHCOD	NSYTJ6025	-	-	NSYCOCNS1400
-	NSYSFPSC60	NSYSPS3100SD	NSYSPS3200SD	NSYSPF6100	NSYSPF6200	-	-	NSYTJ6030	-	-	NSYCOCNS1400
-	NSYSFPSC40	-	-	-	-	-	NSYCHCOB	NSYTJ4015	-	-	NSYCOCNS1400
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-	NSYSFPSC50	-	-	-	-	-	NSYCHCOD	NSYTJ5020	-	-	NSYCOCNS1400
-	NSYSFPSC50	-	-	-	-	-	NSYCHCOD	NSYTJ5025	-	-	NSYCOCNS1400
-	NSYSFPSC60	-	-	-	-	-	NSYCHCOD	NSYTJ6020	-	-	NSYCOCNS1400
-	NSYSFPSC60	-	-	-	-	-	NSYCHCOD	NSYTJ6025	-	-	NSYCOCNS1400
-	NSYSFPSC60	NSYSPS3100SD	NSYSPS3200SD	NSYSPF6100	NSYSPF6200	-	-	NSYTJ6030	-	-	NSYCOCNS1400
-	NSYSFPSC80	-	-	-	-	-	NSYCHCOC (2)	NSYTJ8020	-	-	NSYCOCNS1400
-	NSYSFPSC80	NSYSPS3100SD	NSYSPS3200SD	NSYSPF8100	NSYSPF8200	-	NSYCHCOC (2)	NSYTJ8030	-	-	NSYCOCNS1400
-	-	-	-	-	-	-	NSYCHCOD	NSYTJ6025	-	-	NSYCOCNS1400
-	-	NSYSPS3100SD	NSYSPS3200SD	NSYSPF6100	NSYSPF6200	-	-	NSYTJ6030	-	-	NSYCOCNS1400
-	-	-	-	-	-	-	NSYCHCOC (2)	NSYTJ8025	-	-	NSYCOCNS1400
-	-	NSYSPS3100SD	NSYSPS3200SD	NSYSPF8100	NSYSPF8200	-	NSYCHCOC (2)	NSYTJ8030	-	-	NSYCOCNS1400
NSYAEFAHLBSC	NSYSFPSC60	NSYSPS4100SD	NSYSPS4200SD	NSYSPF6100	NSYSPF6200	-	-	NSYTJ6040	-	-	-
NSYAEFAHLBSC	-	NSYSPS3100SD	NSYSPS3200SD	NSYSPF10100	NSYSPF10200	-	-	NSYTJ10030	NSYWMK33	NSYWMK34	-
NSYAEFAHLBSC	-	NSYSPS3100SD	NSYSPS3200SD	NSYSPF12100	NSYSPF12200	-	-	NSYTJ12030	NSYWMK33	NSYWMK34	-
NSYAEFAHLBSC	-	NSYSPS4100SD	NSYSPS4200SD	NSYSPF6100	NSYSPF6200	-	-	NSYTJ6040	-	-	-
NSYAEFAHLBSC	-	NSYSPS4100SD	NSYSPS4200SD	NSYSPF8100	NSYSPF8200	-	-	NSYTJ8040	NSYWMK43	NSYWMK44	-
NSYAEFAHLBSC	-	NSYSPS3100SD	NSYSPS3200SD	NSYSPF10100	NSYSPF10200	-	-	NSYTJ10030	NSYWMK33	NSYWMK34	-
NSYAEFAHLBSC	-	NSYSPS3100SD	NSYSPS3200SD	NSYSPF12100	NSYSPF12200	-	-	NSYTJ12030	NSYWMK33	NSYWMK34	-
NSYAEFAHLBSC	-	NSYSPS4100SD	NSYSPS4200SD	NSYSPF12100	NSYSPF12200	-	-	NSYTJ12040	NSYWMK43	NSYWMK44	-
NSYAEFAHLBSC	-	NSYSPS3100SD	NSYSPS3200SD	NSYSPF6100	NSYSPF6200	-	-	NSYTJ6030	-	-	-
NSYAEFAHLBSC	-	NSYSPS4100SD	NSYSPS4200SD	NSYSPF6100	NSYSPF6200	-	-	NSYTJ6040	-	-	-
NSYAEFAHLBSC	-	NSYSPS3100SD	NSYSPS3200SD	NSYSPF8100	NSYSPF8200	-	-	NSYTJ8030	NSYWMK33	NSYWMK34	-
NSYAEFAHLBSC	-	NSYSPS4100SD	NSYSPS4200SD	NSYSPF8100	NSYSPF8200	-	-	NSYTJ8040	NSYWMK43	NSYWMK44	-
NSYAEFAHLBSC	-	NSYSPS3100SD	NSYSPS3200SD	NSYSPF10100	NSYSPF10200	-	-	NSYTJ10030	NSYWMK33	NSYWMK34	-
NSYAEFAHLBSC	-	NSYSPS4100SD	NSYSPS4200SD	NSYSPF10100	NSYSPF10200	-	-	NSYTJ10040	NSYWMK43	NSYWMK44	-
NSYAEFAHLBSC	-	NSYSPS3100SD	NSYSPS3200SD	NSYSPF12100	NSYSPF12200	-	-	NSYTJ12030	NSYWMK33	NSYWMK34	-
NSYAEFAHLBSC	-	NSYSPS4100SD	NSYSPS4200SD	NSYSPF12100	NSYSPF12200	-	-	NSYTJ12040	NSYWMK43	NSYWMK44	-
NSYAEFAHLBSC	-	NSYSPS3100SD	NSYSPS3200SD	NSYSPF10100	NSYSPF10200	-	-	NSYTJ10030	NSYWMK33	NSYWMK34	-

** Order the **NSYAEFPFSC** wall-fixing brackets separetly.*
*** To install the plinth to a wall-mounting enclosure, order ref. **NSYAPFWM**.*
**** Available in version 1800 mm: ref. **NSYCOCNS1800**.*

Steel wall-mounting enclosures
Dimensions

CRN

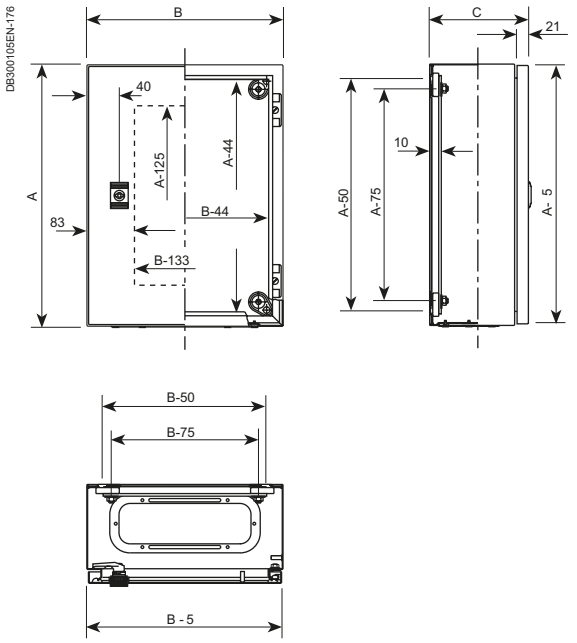
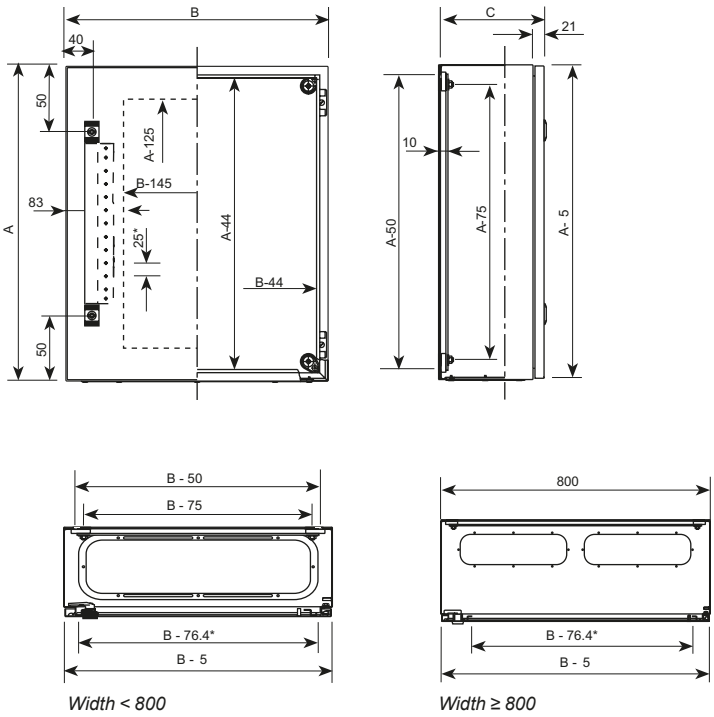


Fig. 1

A: Enclosure height
B: Enclosure width
C: Enclosure depth

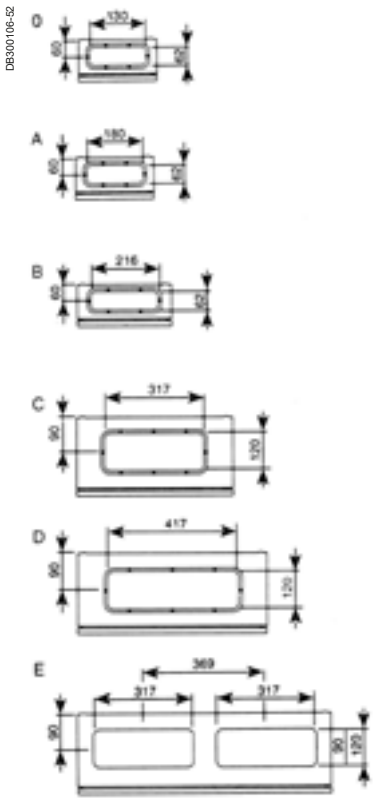


Width < 800

Width ≥ 800

Fig. 2

Spacial CRN cable entry dimensions and type

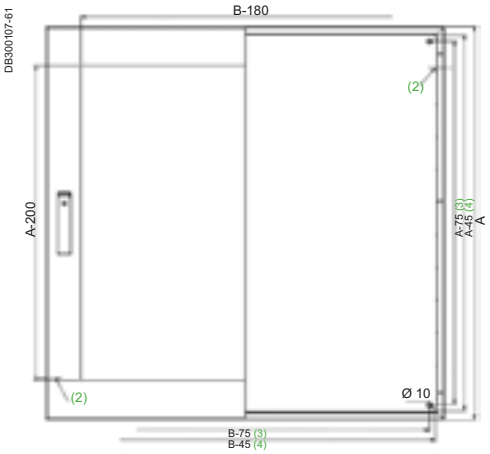


None of the T glazed-door enclosures have door reinforcement profiles.

Our DXF diagrams and technical instruction sheets can be downloaded from our website.

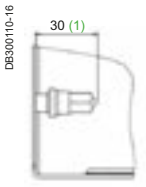
Steel wall-mounting enclosures
Dimensions

CRNG

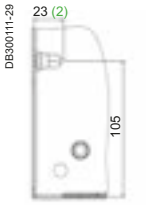








Detail (1)

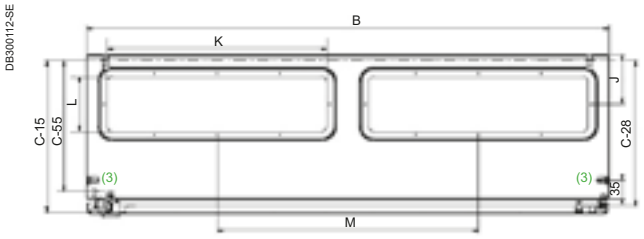


Detail (2)

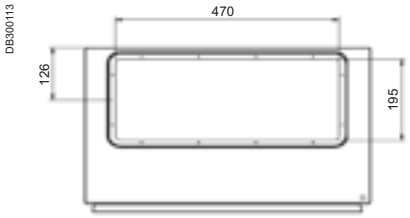
Dimensions of enclosure (mm)					
Width (B)	**Depth (C)**	**J**	**K**	**L**	**M**
600	300-400	126	470	195	-
800	300-400	95	320	105	400
1000 (5)	300	125	420	105	500
1000	300-400	95	420	105	500
1200	300	95	420	105	500
	400	125	420	105	600

(1) Four M8 x 25 back studs.
(2) Two M6 x 17.5 earth studs.
(3) Spacing between the studs.
(4) Spacing between the perforations for direct fixing.
(5) Only models 1400 x 1000 x 300.

A: Enclosure height
B: Enclosure width
C: Enclosure depth



Cable entry type H: enclosure width ≥ 800 mm.

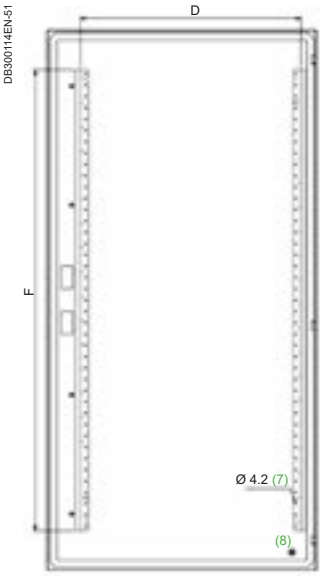


Cable entry type G: enclosure width 600 mm.

Dimensions of the door-reinforcement profiles (6)

1-door enclosure		Reinforcement profile			
Height (A)	**Width (B)**	**F**	**D**		
800	600	620	487		
1000	600	820	487		
	800	820	687		
1200	600	1020	480		
	800	1020	687		
2-door enclosure		**Reinforcement profile**			
Height (A)	**Width (B)**	**F**	**D**	**F**	**D**
		Rt. Door		**Lft. Door**	
800	1000	620	387	620	437
	1200	620	487	620	537
1000	1000	820	387	820	437
	1200	820	487	820	537
1200	1000	1020	387	1020	437
	1200	1020	487	1020	537
1400	1000	1020	387	1020	437

(6) The T doors only include vertical profiles.
(7) 25-mm passage.
(8) 1 M6 x 17.5 earth stud.
Download our DXF diagrams from our website.



Steel wall-mounting enclosures
Specific accessories overview

PB500371-74



Composition accessories

Fixing

PB502979-16



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Floor

PB500330-34



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Coupling

PB500335-31



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Hoisting

PB500338-37



Page 63

Protection

PB500329-40



Page 63

Locking systems

PB500389-35



Page 64

Cable-gland plates

PB500324-29



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Door

PB500384-32



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Mounting accessories

PB500072-20



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Modular chassis

PB500408-31



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Steel wall-mounting enclosures
Common accessories overview

PB502439-55



Cable management

Cable holding

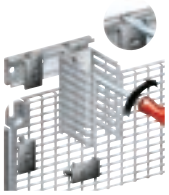
PB500966-40



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Cable ducting

PB500959-22



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Thermal management

Heaters

PB502050-29



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Ventilation

PB501044-26



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Cooling units

PB502814-15



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Others

Earthing

PB500217-29



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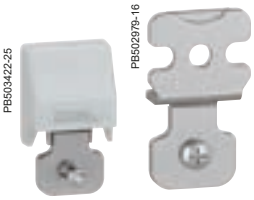
Steel wall-mounting enclosures
Accessories

Fixing

CRN

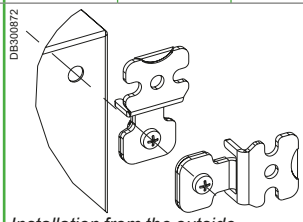


CRNG



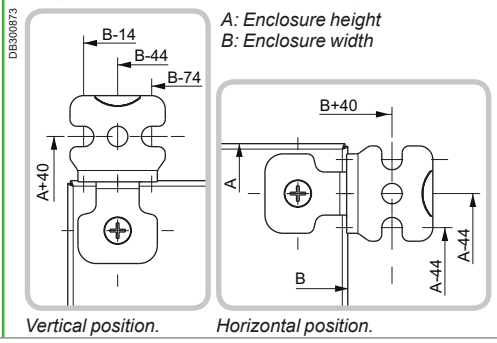


Characteristics	Wall-fixing lugs for Spacial CRN enclosures				Wall-fixing lugs for Spacial CRNG enclosures			Kit for heavy loads
	Set of 4 wall-fixing lugs. Mounted directly on the rear of the enclosure, either in horizontal or vertical position. Wall-enclosure separation of 10 mm. Do not use for dynamic loads.						Covers.	Kit made up of 2 reinforcement pieces. To be mounted before installing the mounting plate in top position with the standard lugs (to be ordered separately).
Material	Passivated zinc-coated steel	Stainless-steel 304L	Stainless-steel 316L	Passivated zinc-coated steel + PA	Passivated zinc-coated steel	Stainless-steel 304L	PA	Passivated zinc-coated steel
Maximum load	250 kg						-	400 kg
Supply	Supplied with fixing screws and pre-mounted sealing gaskets			4 fixing brackets + covers	Supplied with fixing screws and pre-mounted sealing gaskets		Kit of 4 covers	-
References								
					For indoor enclosure	For outdoor enclosure		
	NSYPFCR	**NSYPFCX**	**NSYPFC2X**	**NSYPFCR2**	**NSYAEFPFSC**	**NSYAEFPFXSC**	**NSYCAEFPF**	**NSYAEFAHLBSC**



Installation from the outside.

Fixing centre-to-centre distance with lugs (M6/M8 screw)



A: Enclosure height
B: Enclosure width

Vertical position. *Horizontal position.*

You will find the weights of the Spacial CRN - CRNG enclosures without mounting plate in the selection guide on page 50.

Steel wall-mounting enclosures
Accessories

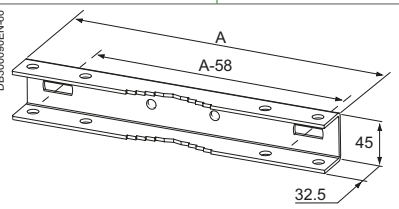
Fixing

PB500156-99

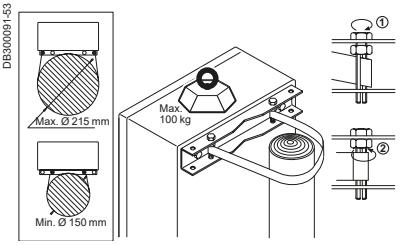


Characteristics	Post-fixing device for Spacial steel enclosure	
	For indoor installations on posts with a maximum circumference of 675 mm (minimum diameter 150 mm and maximum diameter 215 mm). Rail fixed to the inserts in the rear of the enclosure with 8-mm screws. They allow the mounting of protection canopies.	
Material	Galvanised steel	
Maximum load	100 kg	
Width (mm)	**A (mm)**	**References**
300	295	**NSYSFPSC30**
400	395	**NSYSFPSC40**
500	495	**NSYSFPSC50**
600	595	**NSYSFPSC60**
800	795	**NSYSFPSC80**

DB300090EN-60

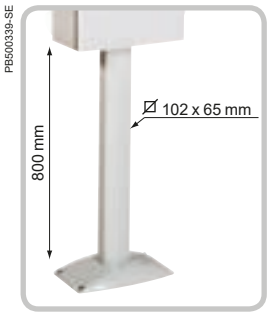


DB300091-53



Steel wall-mounting enclosures
Accessories

Fixing

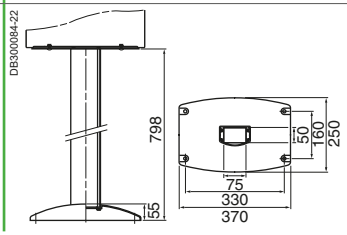






Characteristics	Support pillar	Support bracket for enclosure with anti-tilt kit and reinforcement	Floor Stand Kit for wall-mounting enclosure
	The support pillar is fixed directly to the bottom face of the Spacial steel enclosure by means of an adapter plate. The latter, to be ordered in addition to the pillar, replaces the cable-gland plate. Overall height of the support foot: 800 mm. Mounting possible on all enclosures with dimensions up to 600 x 400 x 250 mm (except 200 x 200 x 150 and 250 x 200 x 150 enclosures).	The support bracket is used when the enclosure cannot be hung from a wall or a post. Suitable for outdoor use. Maximum enclosure dimensions: 1000 x 800 x 300 mm. Floor attachment by standard M12 fastenings.	Set of 2 feet, elevating wall-mounting enclosures. Cut-outs needed on enclosure – drilling template provided with the kit.
Material	Extruded aluminium	Steel	Steel
Finish	Epoxy-polyester paint	Epoxy-polyester paint	Epoxy-polyester paint
Colour	RAL 7035 grey	RAL 7035 grey	RAL 7035 grey
Thickness	-	-	■ Sides: 2.5 mm ■ Base: 3 mm
Maximum load	-	120 kg	250 kg
Supply	-	-	2 platform feet (right and left) and fixing elements

Height (mm)	Reference	References	Enclosure depth		Foot height		References
			mm	Inches	mm	Inches	
800	**NSYCOCN80**	-	-	-	-	-	-
1400	-	**NSYCOCNS1400**	-	-	-	-	-
1800	-	**NSYCOCNS1800**	-	-	-	-	-
-	-	-	300*	12	300	12	**NSYWMK33**
-	-	-	400**	16	300	12	**NSYWMK43**
-	-	-	300*	12	450	18	**NSYWMK34**
-	-	-	400**	16	450	18	**NSYWMK44**



** When enclosures are equipped with a cable gland plate, it only fits with enclosures of width 800, 1000 & 1200 mm, except model H 600 x W 800 x D 300 mm.*
*** When enclosures are equipped with a cable gland plate, it does not fit with enclosures of width 600 mm.*

Compatible with Spacial S3D, S3DC & CRNG enclosures.

Support pillar adaptation plate



Description: plate for fixing the support pillar on the enclosure.
This plate replaces the cable-gland plate delivered with the enclosure.
Material: steel
Finish: polyester powder
Colour: RAL 7035 grey

For enclosure (mm)		To be coupled with cable entry*	References
Width	Depth		
250	150-200	A	**NSYCHCOA**
300-400-450-500	150-200	B	**NSYCHCOB**
400	200-250	C	**NSYCHCOC**
500-600	200-250-300	D	**NSYCHCOD**

** See type of entry in drawings on page 54.*

Steel wall-mounting enclosures
Accessories

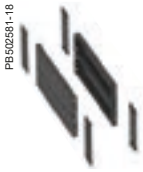
Floor

For more information, see page 92.









Characteristics	Front and rear plinth		Plinth side panels	
	The front and rear of the plinth consists of 4 corners with 2 or 4 panels.		They are fixed to the corner of the plinth by 2 fixing screws.	
Material	Folded sheet steel, corner with a thickness of 2.5 mm		Folded sheet steel	
Finish	Epoxy-polyester paint		Epoxy-polyester paint	
Colour	RAL 7022 grey		RAL 7022 grey	
Ingress protection rating	IP 30 according to IEC 60529		IP 30 according to IEC 60529	
Mechanical protection rating	IK10 according to IEC 62262		IIK10 according to IEC 62262	
Installation	It is necessary to order separately the plinth fixing kit (ref. **NSYAPFWM**) composed by fixing hardware and drilling jig			
Supply	■ Height 100 mm: 4 corners, 2 panels (front and rear), 4 corner covers and fixing elements ■ Height 200 mm: 4 corners, 4 panels (2 front and 2 rear), 4 corner covers and fixing elements		■ Height 100 mm: 2 side panels, 4 corner covers and fixing elements ■ Height 200 mm: 4 side panels (height of 100 mm, 2 for each side), 4 corner covers and fixing elements	
References				
Width (mm)	**Depth (mm)**	**100 mm**	**200 mm**	**100 mm**	**200 mm**
600	-	**NSYSPF6100**	**NSYSPF6200**	-	-
800	-	**NSYSPF8100**	**NSYSPF8200**	-	-
1000	-	**NSYSPF10100**	**NSYSPF10200**	-	-
1200	-	**NSYSPF12100**	**NSYSPF12200**	-	-
-	300	-	-	**NSYSPS3100SD**	**NSYSPS3200SD**
-	400	-	-	**NSYSPS4100SD**	**NSYSPS4200SD**

Stainless-steel plinths (standard plinths page 128, ventilated plinths page 377) are compatible with steel wall-mounting S3D enclosures using an earthing cable reference NSYEL226D13 (description page 278) to be ordered separatly.

	Plinth height 100 mm (4 corners + front and back panels)	*Plinth height 100 mm (Set of 2 side panels)*	*Plinth height 200 mm (4 corners + front and back panels)*	*Plinth height 200 mm (Set of 2 side panels)*
Characteristics	**Stainless-steel plinths**			
Material	Stainless-steel, AISI 304L		Stainless-steel, AISI 316L	
Finish	Scotch-Brite® brushing, to guarantee the durability in application where the contact with the floor increase the risk of corrosion			
Installation	It is necessary to order separately the plinth fixing kit (ref. **NSYAPFXWM**) composed by fixing hardware and drilling jig			

External dimensions (mm)			**Plinth height 100 mm**		**Plinth height 200 mm**		**Plinth height 100 mm**		**Plinth height 200 mm**	
Height (A)	**Width (B)**	**Depth (C)**	**Kit (4 corners + front and back panels)**	**Set of 2 side panels**	**Kit (4 corners + front and back panels)**	**Set of 2 side panels (x2)**	**Kit (4 corners + front and back panels)**	**Set of 2 side panels**	**Kit (4 corners + front and back panels)**	**Set of 2 side panels (x2)**
800	800	300	**NSYSPFX8100**	**NSYSPSX3100**	**NSYSPFX8200**	**NSYSPSX3200**	**NSYSPFX8100H**	**NSYSPSX3100H**	**NSYSPFX8200H**	**NSYSPSX3200H**
1000	800	300	**NSYSPFX8100**	**NSYSPSX3100**	**NSYSPFX8200**	**NSYSPSX3200**	**NSYSPFX8100H**	**NSYSPSX3100H**	**NSYSPFX8200H**	**NSYSPSX3200H**
	1000	300	**NSYSPFX10100**	**NSYSPSX3100**	**NSYSPFX10200**	**NSYSPSX3200**	**NSYSPFX10100H**	**NSYSPSX3100H**	**NSYSPFX10200H**	**NSYSPSX3200H**
1200	800	300	**NSYSPFX8100**	**NSYSPSX3100**	**NSYSPFX8200**	**NSYSPSX3200**	**NSYSPFX8100H**	**NSYSPSX3100H**	**NSYSPFX8200H**	**NSYSPSX3200H**
	1000	300	**NSYSPFX10100**	**NSYSPSX3100**	**NSYSPFX10200**	**NSYSPSX3200**	**NSYSPFX10100H**	**NSYSPSX3100H**	**NSYSPFX10200H**	**NSYSPSX3200H**

Steel wall-mounting enclosures
Accessories

Coupling



Installation example.

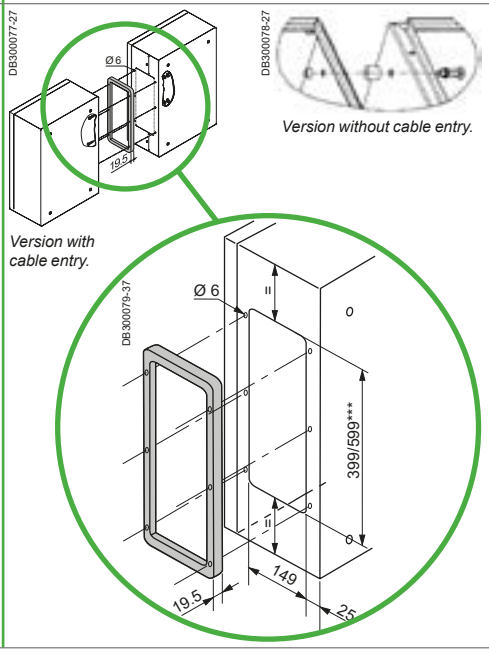


Version without cable entry.



Version with cable entry.

Characteristics	Coupling of S3D steel enclosures
	Available in 2 versions: ■ Coupling version without cable entry. ■ Version with coupling frame allowing the entry of cables. ■ Separation of 17 mm between 2 coupled enclosures, allowing full opening of the doors. Allows lateral coupling of 2 enclosures. These frames allow the door to open to 120°.
Material	Polyester reinforced with fiberglass
Ingress protection rating	IP66 according to IEC 60529
Supply	■ Kit made up of 4 spacers and their fixings (NSYAEUBUSC) ■ Mounting by screws, included
References	
Batch of 4 coupling spacers	**NSYAEUBUSC**
Coupling frame, 435 x 185 mm	**NSYAEUBU41SC**
Coupling frame, 635 x 185 mm	**NSYAEUBU61SC**



Version without cable entry.

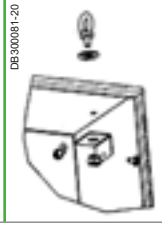
Version with cable entry.

Steel wall-mounting enclosures
Accessories

Hoisting



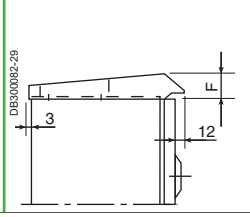
Characteristics	Eyebolts
	Set of two M8 eyebolts. They are fixed directly to the body of the floor-standing enclosure. Cannot be installed with the canopy in place.
Material	Zinc-coated moulded steel
Maximum load	200 kg per enclosure when slinging at 60°
Options	Have your cut-outs made by our configured service, page 7. Paint touch-up pen, page 278
Supply	Reinforcing brackets attached to the rings (these brackets also act as a drilling template)
Reference	
Batch of 2 M8 eyebolts	**NSYAELYTCRG8**

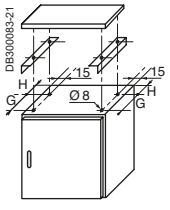


Protection



Characteristics	Protection canopy			
	Direct fixing to the body of the enclosure by 4 M6 screws. To be used for all outdoor installations.			
Material	Galvanised steel			
Finish	Epoxy-polyester paint			
Colour	RAL 7035 grey			
Supply	Delivered with the fixings required for installation			
Depth (mm) **Width (mm)**	**F (mm)**	**G (mm)**	**H (mm)**	**References**
150 200	36	75	23	**NSYTJ2015**
250	36	75	23	**NSYTJ2515**
300	36	75	23	**NSYTJ3015**
400	36	75	23	**NSYTJ4015**
500	36	75	23	**NSYTJ5015**
200 500	36	130	23	**NSYTJ5020**
600	36	130	23	**NSYTJ6020**
250	36	130	23	**NSYTJ2520**
300	36	130	23	**NSYTJ3020**
400	36	130	23	**NSYTJ4020**
800	36	130	23	**NSYTJ8020**
250 400	42	150	48	**NSYTJ4025**
500	42	150	48	**NSYTJ5025**
600	42	150	48	**NSYTJ6025**
800	42	150	48	**NSYTJ8025**
300 600	42	200	48	**NSYTJ6030**
800	42	200	48	**NSYTJ8030**
1000	42	200	48	**NSYTJ10030**
1200	42	200	48	**NSYTJ12030**
400 600	42	300	48	**NSYTJ6040**
800	42	300	48	**NSYTJ8040**
1000	42	300	48	**NSYTJ10040**
1200	42	300	48	**NSYTJ12040**





Steel wall-mounting enclosures
Accessories

CRN

Locking systems

PB500389-42

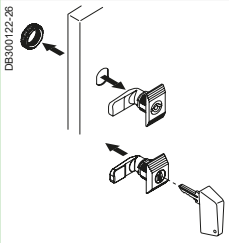


Lock for Spacial CRN enclosure

NSYCDB3 3 mm Ø standard double-bar lock.
By fixing the wing nut to the lock, the double-bar lock becomes a handle lock.
- Operation using:
  - wing key ref.: **NSYDBP**,
  - key **NSYLDB5** (according to DIN 43668).

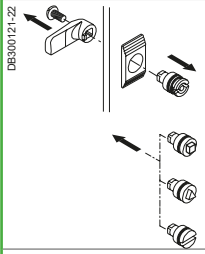
Type of lock	Insert references	Key references
3 mm double bar	**NSYTDBCRN***	**NSYLDB5**
□ 6 mm	**NSYTC6CRN**	**NSYLC7**
□ 7 mm	**NSYTC7CRN**	**NSYLC7**
□ 8 mm	**NSYTC8CRN**	**NSYLC8**
△ 6.5 mm	**NSYTT6CRN**	**NSYLT8**
△ 7 mm	**NSYTT7CRN**	**NSYLT8**
△ 8 mm	**NSYTT8CRN**	**NSYLT8**
Screw driver lock	**NSYAEDLSD**	-
Complete manual handle lock, operated with key 405	**NSYCL405CRN**	
Complete manual handle lock, operated with key 220	**NSYCL220CRN**	
Complete metal lock, operated with key 405E	**NSYCLL405CRN**	
TJIS lock	**NSYTJIS**	-
TCRE1 lock	**NSYTCRE1**	-
TCRE12 lock	**NSYTCRE12**	-

DB300122-26



Lock change.

DB300121-22



Insert change.

** Delivered with 1 metal key.*

PB500391-32



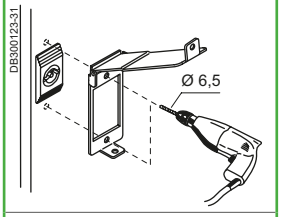
PB500390-65



Padlock

	Ø 8 mm. Stainless-steel.	Ø 7.5 mm / Ø 10 mm.
References		
	NSYKPLM	**NSYCBCCRN**

DB300123-31

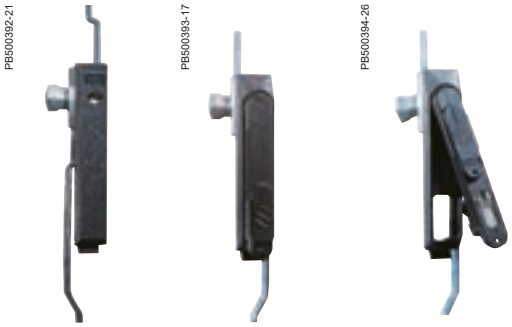


***NSYKPLM** padlock assembly*

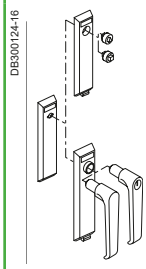
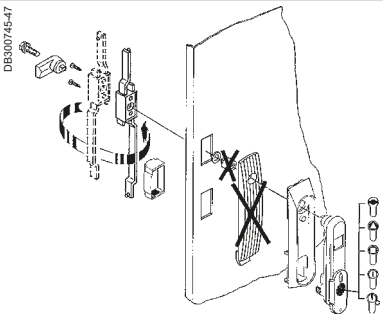
Steel wall-mounting enclosures
Accessories

CRNG

Locking systems

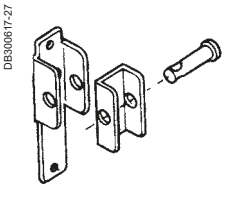
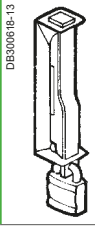


Lock for Spacial CRNG enclosure (three-point lock)

	Transformation of the standard lock to standarised variations in enclosures with three-point locks			Transformation of the standard lock to a retractable three-point lock with various types of insterts		
	■ Standard 5 mm double-bar lock for CRNG models. ■ Operation using: key **NSYLDB5** (according to DIN 43668) 					
	Type of insert	**Insert references**	**Key references***	**Type of insert**	**Locking systems references**	**Key references***
	□ 6 mm square	**NSYTC6ML**	 **NSYLC7**	Key operated bar lock	**NSYTEDB5ML**	 **NSYLDB5**
	□ 7 mm square	**NSYTC7ML**	 **NSYLC7**	□ 7 mm square lock	**NSYTEC7ML**	 **NSYLC7**
	□ 8 mm square	**NSYTC8ML**	 **NSYLC8**	□ 8 mm square lock	**NSYTEC8ML**	 **NSYLC8**
	△ 7 mm side triangle	**NSYTT7ML**	 **NSYLT8**	△ 7 mm side triangle lock	**NSYTET7ML**	 **NSYLT8**
	△ 8 mm side triangle	**NSYTT8ML**	 **NSYLT8**	△ 8 mm side triangle lock	**NSYTET8ML**	 **NSYLT8**
	Handle lock	**NSYTSML**		Lock operated with key type 405	**NSYTEL405ML**	
	Handle lock operated using key 405 (included)	**NSYTL405SML**		Lock operated with reinforced key	**NSYTERML**	
	TDB5PL lock	**NSYTDB5PL**	-	CRGE1 lock	**NSYTCRGE1**	-
				TJISML lock	**NSYTJISML**	-
						

** Insert without keys (unless indicated).*

Padlocking accessories

	Padlocking system, positioned around the long rectangular escutcheon of the enclosures, to block access to the lock, for a Ø 9 mm padlock.	Padlocking system, to block access to the retractable handle, for a Ø 9 mm padlock.
References		
	NSYBCPL	**NSYBCME**
		

Steel wall-mounting enclosures
Accessories

CRN

Cable-gland plates

PB500395-34



PB500327-33



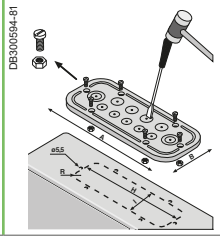
PB500396-31



Characteristics	Standard	With FL cut-outs	Insulated
	The cable-gland plate for Spacial CRN guarantees water and dust tightness.	Cable-gland plate.	■ With a polyurethane sealing gasket. ■ Excellent thermal resistance. ■ Pre-marked holes for cable entrie plates.
Material	Steel	Steel	Self-extinguishing ABS with 30 % fibreglass
Colour	RAL 7035	RAL 7035	RAL 7035
Ingress protection rating	IP66 according to IEC 60529	-	-
Installation	■ Fixing with screws ■ It is flattened with the body	Fixing with screws	Pre-marked holes with diameter Pg for coupling of cable glands, membrane glands, tubes, etc
Supply	■ Included as a standard with the Spacial CRN enclosure ■ It is delivered with a separate seal: it allows easy cut-outs with no risk of damaging the seal and can be easily repainted	Includes cut-outs for FL13 and FL21 according to the dimension	-

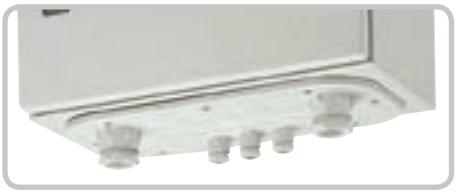
Width (mm)	Depth (mm)	To be coupled with entry	Fig. (only insulated)	References		
200	150	0	-	**NSYTLCRNO**	**-**	**-**
250	150/200	A	1	**NSYTLCRNA**	**NSYTFL13CRNA**	**NSYTSACRNA**
300	150/200	B	2	**NSYTLCRNB**	**NSYTFL13CRNB**	**NSYTSACRNB**
400/500	150	B	3	**NSYTLCRNB**	**NSYTFL13CRNB**	**NSYTSACRNB**
400	200/250	C	3	**NSYTLCRNC**	**NSYTFL21CRNC**	**NSYTSACRNC**
500/600	200/250/300	D	4	**NSYTLCRND**	**NSYTFL21CRND**	**NSYTSACRND**
800	200/250/300	E*	-	**NSYTLCRNC**	**NSYTFL21CRNC**	**-**
	200/250/300	E**	3	**-**	**-**	**NSYTSACRNC**

DB300594-81



See cable entry on page 242.
** Enclosure with 2 entries.*
*** For type E cable entry, use two* ***NSYTSACRNC****.*

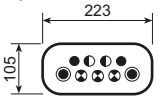
PB500397-88



Example of use (insulated).

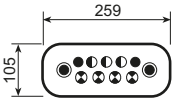
DB300126EN-93

Fig. 1



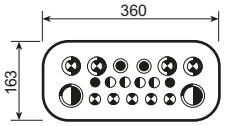
2 PG 11
2 PG 13.5
3 PG 16
2 PG 21 / 11

Fig. 2



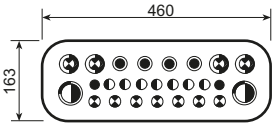
2 PG 11
3 PG 13.5
4 PG 16
2 PG 21 / 11

Fig. 3



2 PG 11
4 PG 13.5
5 PG 16
2 PG 21 / 11
4 PG 29 / 16
2 PG 36 / 29

Fig. 4



2 PG 11
7 PG 13.5
7 PG 16
4 PG 21 / 11
4 PG 29 / 16
2 PG 36 / 29

- PG 11 (18.6 mm)
- PG 13,5 (20.4 mm)
- PG 16 (22.5 mm)
- PG 21 / 11 (28.3 / 18.6 mm)
- PG 29 / 16 (37 / 22.5 mm)
- PG 36 / 29 (47 / 37 mm)

Steel wall-mounting enclosures
Accessories

CRNG

Cable-gland plates

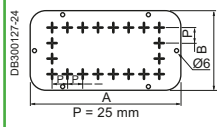

PB500324-28

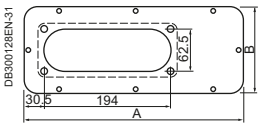

PB500327-33

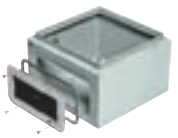

PB501865-30

Characteristics	Standard	For membrane glands	FlexiCable
	Cable entries.	Cable entries.	FlexiCable is an innovative cable-gland plate for simple and fast cable entrance. There is no need to drill holes: the creation of the cable entrances takes a few seconds. ■ **Cable diameter:** up to 26 mm.
Material	Steel	Steel	-
Colour	RAL 7035	RAL 7035	-
Ingress protection rating	IP66 according to IEC 60529	■ The membranes are built to accommodate water and dust tight cable entries in insulated material (flame classification V0), guaranteeing IP65 (to be ordered separately) ■ IP 65 according to IEC 60529	IP55 according to IEC 60529
Installation	■ Surface with a grid pattern in 25 mm intervals to facilitate perforation ■ Fixing with screws	Fixing with screws	**Installation possibilities:** replaces cable-gland plate (S3D or CRN-G) or directly on enclosure
Other characteristics	-	-	■ Exists in 5 sizes matching 46 sizes (132 models) of Spacial S3D steel wall-mounting enclosures ■ Fire resistant 650°C following IEC 60695-2-11 ■ Tested on short-circuit effect 250 A, 25 kA following IEC 61439-1
Supply	Standard supply with the Spacial CRNG enclosures	-	■ 1 metallic frame with pre-mounted membrane ■ 1 gasket ■ Fixing hardware

Width (mm)	Depth (mm)	To be coupled with entry	Dimensions A x B (mm)	References		Effective cable entrance dimensions (mm)	References
600	300-400	-	495 x 220	-	-	428 x 153	**NSYTLGME**
	400	G		**NSYTLG**	**NSYTLG2FL****	-	-
800	300-400	H*	345 x 130	**NSYTLD**	**NSYTLDFL****	-	-
		-		-	-	-	2 x **NSYTLDME**
1000-1200	300-400	H*	445 x 130	**NSYTLE**	**NSYTLEFL****	-	-
		-		-	-	-	2 x **NSYTLEME**






PB502035-28

Mount FlexiCable on your CRNG enclosure.


PB501867-33

Create a hole with a screw driver.


PB501866-31

Push the cable through FlexiCable and finish-off your installation.

FlexiCable repair kit


PB502597-22

To fill-in unused holes.
Tube of 90 ml.

Reference
NSYTLREP

* *2 entries.*
** *FL21 cut-outs.*

Steel wall-mounting enclosures
Accessories

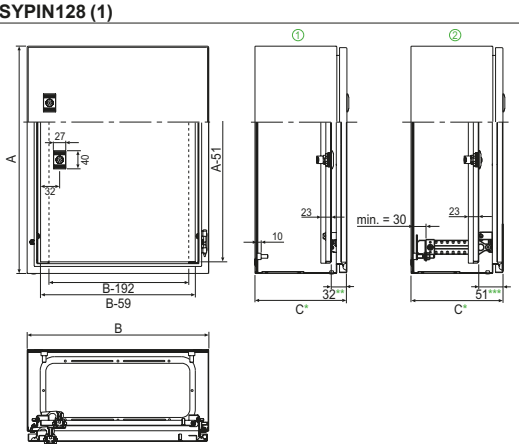
Door


PB500384-54

Internal door	
	■ 3-mm double-bar lock. ■ Not compatible with mounting with door stop and door contact. Consult us.
Material	Steel
Colour	RAL 7035 grey
Installation	■ The internal door can be mounted either on the front face of the enclosure or on step slides (not supplied as standard) ■ To mount an inner door and a mounting plate at the same time on the step slides, is possible as standard
Maximum load	30 kg/m²

Dimensions (mm)		References
Height (A)	Width (B)	
400	300	**NSYPIN43**
500	400	**NSYPIN54**
600	400	**NSYPIN64**
700	500	**NSYPIN75**
800	600	**NSYPIN86 (1)**
1000	600	**NSYPIN106 (1)**
	800	**NSYPIN108 (1)**
1200	600	**NSYPIN126**
	800	**NSYPIN128 (1)**

DB300125-67



① *NSYPIN... internal door fixed directly to the enclosure.*

② *NSYPIN... internal door fixed to the adjustable NSYSDCR support. In this case, both the internal door and the mounting plate may be depth adjustable.*

(1) Equipped with welded vertical profiles in order to facilitate cable management.
** Dimension C according to general table on page 50. / ** Except H 1200 x W 600: 38.3. / *** Except H 1200 x W 800: 50.*

Door accessories for CRNG

PB500353-30



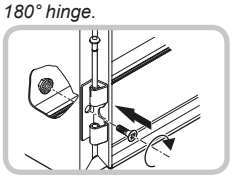
180° hinge.

PB500354-30



120° hinge.

DB300096-48



Characteristics	Door hinges
	Captive pin, indexed by a spring.
Material	Zamak body for ref. **NSYAEDH180S3D**, treated sheet-steel body for ref. **NSYAEDH120S3D**, aluminium pin
Maximum load	■ For the 180° hinge, the maximum admissible load on the door is 20 kg/m² ■ For the 120° hinge, the maximum admissible load on the door is 50 kg/m²
Supply	Batch of 1 hinge, delivered with fixings

Models	References
180° hinge for CRNG enclosure	**NSYAEDH180S3D**
Standard 120° hinge for CRNG	**NSYAEDH120S3D**

Steel wall-mounting enclosures
Accessories

Mounting rail

PB503347-30



Ease of installation

PB503371-40



With light cross rails and cage nut

PB503348-30



Door switch mounting possibility

PB503372-33



With quick-fixing cross rail

PB503370-38



With DIN rail

PB503345-40



Characteristics	Mounting rail
	■ Accessory designed to optimize the available space in the cubicle. ■ It is intended for the installation of switchgear complementing the chassis. ■ Mounting possible after installing the mounting plate. ■ It is mounted horizontally, with a single screw, on the side panels. ■ Door switch mounting possibility. ■ It is possible to vertically fasten NSYSLCR●● light cross rails (description on page 225) and NSYSQCR●● quick-fixing cross rails (description on page 223).
Material	Galvanised steel
Maximum load	■ Static load: 6 kg (sides) and 1,5 kg (top) ■ Dynamic load (transport horizontally): 2 kg according to ASTM D-4169-16
Installation	In order to ensure the electrical continuity in all cases we recommend using an earthing cable NSYEL●●●D6 or NSYEL●●●D8, see page 278
Supply	Set of 2 cross rails
Cubicle depth (mm)	**References**
200	**NSYSUCR200WM**
250	**NSYSUCR250WM**
300	**NSYSUCR300WM**
400	**NSYSUCR400WM**

PB503346-51

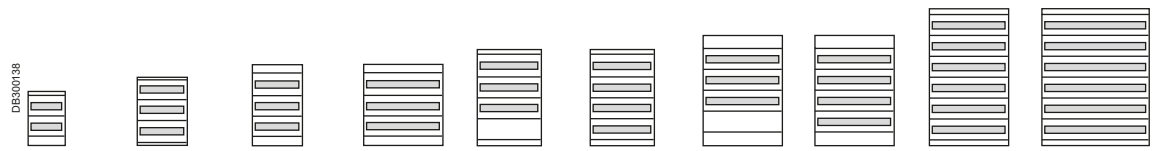


Modular chassis

See page 288 for more informations about modular chassis.

Number of modules per chassis** (every 18 mm)

DB300138



Chassis reference	NSYDLM24	NSYDLM48*	NSYDLM48P*	NSYDLM84P*	NSYDLM66	NSYDLM88	NSYDLM84	NSYDLM112	NSYDLM168	NSYDLM240
Enclosure height (mm)	400	500	600	600	700	700	800	800	1000	1000
Enclosure width (mm)	300	400	400	600	500	500	600	600	600	800
Number of rows	2	3	3	3	3	4	3	4	6	6
Modules per row	12	16	16	28	22	22	28	28	28	39
Total nº of modules	24	48	48	84	66	88	84	112	168	234

** References **NSYDLM48**, **NSYDLM48P** and **NSYDLM84P**, the central row cannot receive modules at the height of the lock (check our technical instructions) when installed at the front of the enclosure. In this case, 1 module is sealed up.*
*** DLM modular chassis.*
The provided dimensions are with the modular chassis, which is the most commonly used accessory with this enclosure.

Steel
floor-standing enclosures

Steel floor-standing enclosures
Contents


PB500067-39

Spacial SM-SF **72**
Steel floor-standing enclosures

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Associated applicative offers

SFP Prisma application 319
SFHD Floor-standing Heavy Duty enclosures 372
SF 6G, SFP 5G Seismic and nuclear enclosures 386
19" electronic enclosure 416
SFHF Electromagnetic compatibility 437
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Electrical Distribution Solution: SF IEC 61439, SFP (Prisma application) 317
Automobile application 486

Steel floor-standing enclosures
Introduction

SM

> Multi-purpose **IP55 compact steel enclosure** for fast and simple solutions.

PB502401-55



PB502402-26



Robust
- Body made as a single piece with welded rear panel.
- Front part forming a rigid frame with welded corners.

PB502403-38



PB502404-30



Practical
- Door rails, which can be height-adjustable and used for fixing cables.
- Can be installed adaptation profile in the front and rear of the enclosure and the universal 40-mm cross rail (1 row) in the rear provide the same fixing points as the modular enclosure.

PB500469-32



Protection
- IP guaranteed by the rigidity of the enclosure, the expanded-polyurethane sealing gasket of the enclosure and the subsequent welding.
- Double-door enclosures with inner lock on the left door.

PB502405-8



Comfort
- Handle with sturdy design for easily activating the locking system, allowing the installation of any shape insert and any cylindrical combination key.
- Easily interchangeable insert with one click.

This range can be configured according to your needs

4 differents services available:

Assemble to order

Mounting of standard accessories

Painting

Machining

See page 488 for details or consult our web site www.se.com

Steel floor-standing enclosures
Introduction

> Multi-purpose **IP55 modular steel enclosure**.

SF

Adapts to all your needs.
Assembled delivery for a ready-to-use solution.

PB502412-55



SF kit

Adapts to customer needs.
Delivered as kit, with up to 600 different possible configurations.

PB502428-50



PB502440-50



Volume of packaging in kit supply

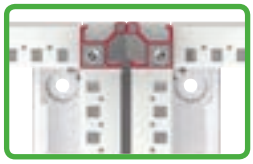
Assembled supply

PB502414-50



Robust
- Structure formed from a single 15/10e-mm galvanised-steel section, with a high rigidity.
- Vertical uprights screwed together with connections of full steel. Placement and screwing of the 4 vertical uprights at the corners of the top and bottom frames. Fixing by 8 screws, one at each corner of the enclosure.
- Capable of withstanding 1000 kg distributed in its volume.

PB500492-32



Reliable
- The design of the profile creates a double protective barrier against the entry of water and dust when coupling two enclosures.
- The first barrier is the metal connection of the sections, and the second barrier is the EPDM gasket that guarantees the sealing.

PB503272-56



Aesthetics
The built-in panels and handle with new design give the enclosure a new appearance.

PB502416-8



PB502417-48



Comfort
- Handle with robust design for easily activating the locking system, allowing the installation of any shape insert and any cylindrical combination key.
- Panels with captive screws for easier assembly and dismantling.

PB502426-15



Practical
Suspension of the rear panel using a self-centring piece to facilitate screwing.

PB502418-20



Simple
The new design allows enclosures to be coupled in any direction, adapting to all installation surfaces.

PB502419-12



Accessible
The symmetric design of the profile allows doors to be installed on any side of the enclosure, opening to right or left, providing full accessibility to the enclosure.

PB502424-16



PB502425-40



Fast
- The double system of cut-outs on the structure allows most accessories to be installed using self-tapping TORX T30 M6 screws or nuts.
- Clip-on quick-fixing cross rails, fixed with self-tapping screws.
- Door installation inserting the captive pins of the hinge in their housing in the door.

Steel floor-standing enclosures
Characteristics

SM



Characteristics	Compact enclosures Spacial SM
	Compact body with a front rigid frame with welded corners and rear panel 4 supports installed in depth to adjust and fix the equipment with a pitch of 25 mm **Basic composition** ■ Front door with a reinforcement frame (horizontal rails height-adjustable) ■ The double doors are overlapping, with system for fixing the left door ■ Door reversible, 120° opening ■ Welded rear panel ■ 4 locking points system with handle 5 mm double-bar insert ■ Cable-gland plate 1 entry ■ Mounting plate support brackets **Versions / Configurations** ■ Compact enclosure with plain door and mounting plate ■ Compact enclosure with plain door and without mounting plate ■ Compact enclosure with transparent Securit® glass door and without mounting plate **Protection of personnel** Earthing accessories needed to ensure the grounding continuity, see page **277**
Material	Steel
Finish	Structured finish, epoxy-polyester powder
Colour	RAL 7035 grey
Ingress protection rating	IP55 according to IEC 60529
Mechanical protection rating	IK10 for plain door and IK08 for transparent door according to IEC 62262
Standards	Compliance with enclosure standard IEC 62208 and the RoHS and REACH directive
Certifications (see page 574)	BV, DNV, UL * and cUL *1 door: 1, 2, 3R, 4, 5 and 13 * 2 doors: 1, 12
Installation	Indoor / Outdoor* installation * Compliant with IEC 62208 regarding type tests specified in §9.12 (resistance to UV radiation) and §9.13 (resistance to corrosion) Outdoor installation: canopy needed to avoid water stagnation on the upper part of the enclosure, see page **102**
Maximum load	500 kg
Options	■ Plinths, heights 100 mm and 200 mm, see page **96** ■ Lifting eyebolts, reference **NSYSMEB** ■ Internal door, see page **105** ■ Door accessories, see page **107** ■ Other locking options, see page **110** ■ Mounting plates and Telequick system, see page **212**

Steel floor-standing enclosures
Characteristics

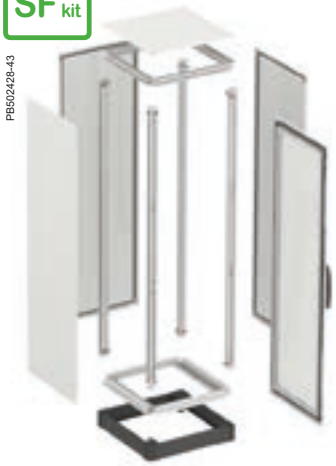
SF

PB502412-34



SF kit

PB502428-43

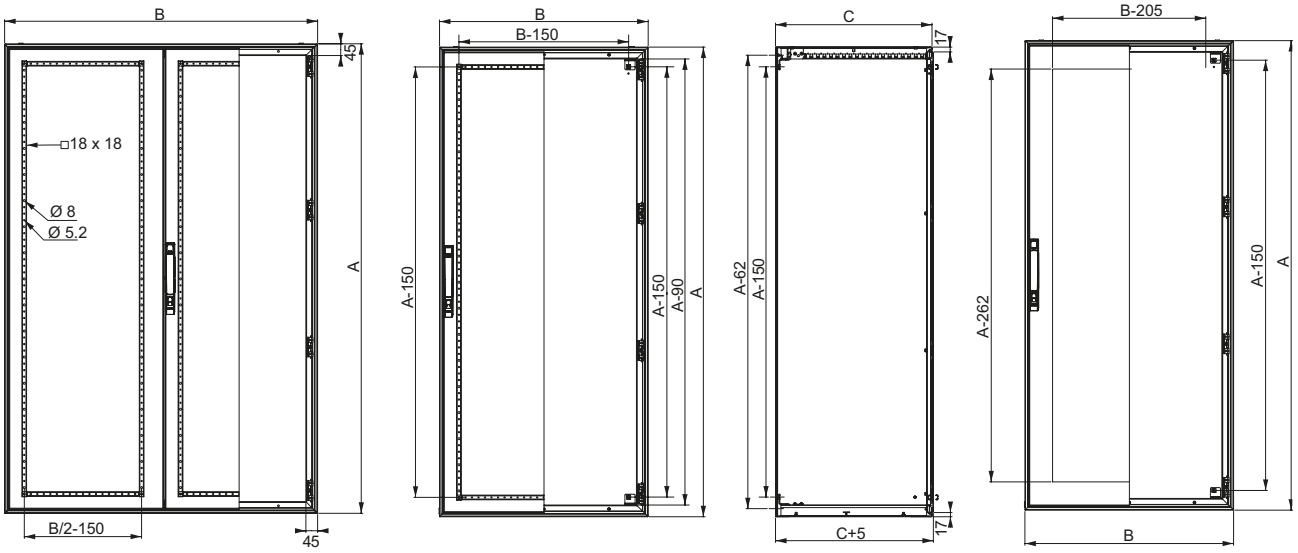


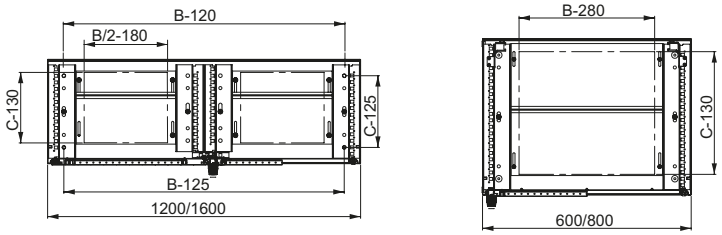
	Suitable enclosures Spacial SF - Assembled supply	Suitable enclosures Spacial SF - Supplied as a kit
	Structure made up of vertical uprights joined with top and bottom frames Panels and doors built into the structure Formed from a single section and perforated structure with a pitch of 25 mm **Basic composition** ■ Front door with a reinforcement frame (horizontal rails height-adjustable) and a trim plate ■ The double doors are overlapping, with system for fixing the left door ■ Door reversible, 120° opening ■ Rear panel screwed on with captive screws ■ Removable roof ■ 4 locking points system with handle 5 mm double-bar insert ■ Mounting plate support brackets ■ Mounting plate sliding rails ■ 2 quick fixing cross rails **Versions / Configurations** ■ Modular enclosure with plain door and mounting plate ■ Modular enclosure with plain door and without mounting plate ■ Modular enclosure with transparent Securit® glass door and without mounting plate **Protection of personnel** Earthing accessories needed to ensure the grounding continuity, see page **277**	Structure made up of vertical uprights joined with top and bottom frames Panels and doors built into the structure Formed from a single section and perforated structure with a pitch of 25 mm **Basic composition** ■ Front door with a reinforcement frame (horizontal rails height-adjustable) ■ The double doors are overlapping, with system for fixing the left door ■ Door reversible, 120° opening ■ Rear panel to be screwed on with captive screws ■ Removable roof delivered with top frame ■ 4 locking points system with handle 5 mm double-bar insert ■ Mounting plate support brackets delivered with top & bottom frames kit ■ Mounting plate sliding rails delivered with top & bottom frames kit ■ 2 quick fixing cross rails delivered with top & bottom frames kit **Versions / Configurations** ■ Uprights kit ■ Top and bottom frames kit ■ Rear panel kit ■ Door kit (plain or transparent) **Protection of personnel** Earthing accessories needed to ensure the grounding continuity, see page **277**
	Steel	
	Structured finish, epoxy-polyester powder	
	RAL 7035 grey	
	IP55 according to IEC 60529	IP55 according to IEC 60529
	IK10 for plain door and IK08 for transparent door according to IEC 62262	IK10 for plain door and IK08 for transparent door according to IEC 62262
	Compliance with enclosure standard IEC 62208 and the RoHS and REACH directive	
	BV, DNV, UL and cUL* *1 door: 1, 3R, 12 *2 doors: 1, 3R, 12	BV, DNV, UL and cUL* *1 door: 1, 3R, 12 *2 doors: 1, 3R, 12
	Indoor / Outdoor* installation * Compliant with IEC 62208 regarding type tests specified in §9.12 (resistance to UV radiation) and §9.13 (resistance to corrosion) Outdoor installation: canopy needed to avoid water stagnation on the upper part of the enclosure, see page **102**	Indoor / Outdoor* installation * Compliant with IEC 62208 regarding type tests specified in §9.12 (resistance to UV radiation) and §9.13 (resistance to corrosion) Outdoor installation: canopy needed to avoid water stagnation on the upper part of the enclosure, see page **102**
	1000 kg	1000 kg
	■ Side panels options, see page **89** ■ Enclosure suites options, see page **90** ■ Plinths, heights 100 mm and 200 mm, see page **92** ■ Cable-gland plates, see page **98** ■ Lifting systems, see page **100** ■ Roof options, see page **102** ■ Door accessories, see page **107** ■ Other locking options, see page **110** ■ Mounting plates and Telequick system, see page **212**	■ Door trim plates, see page **108** ■ Side panels options, see page **89** ■ Enclosure suites options, see page **90** ■ Plinths, heights 100 mm and 200 mm, see page **96** ■ Cable-gland plates, see page **98** ■ Lifting systems, see page **100** ■ Roof options, see page **102** ■ Other locking options, see page **110** ■ Mounting plates and Telequick system, see page **212**

Steel floor-standing enclosures
Dimensions

SM

DB300180EN-176



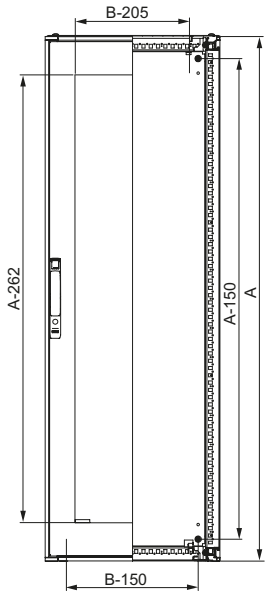


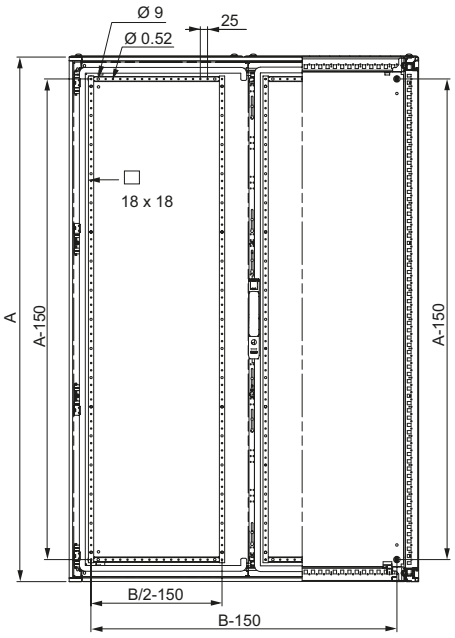
Models with a width of 1200 mm without top/bottom adjustment rails

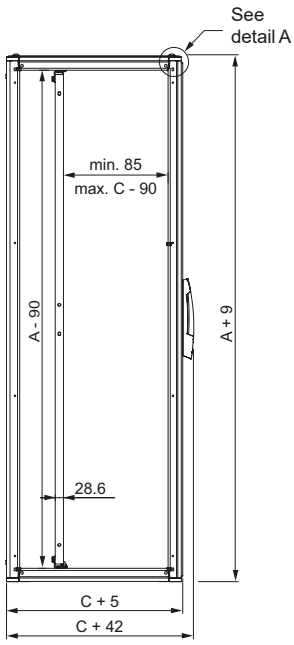
Steel floor-standing enclosures
Dimensions

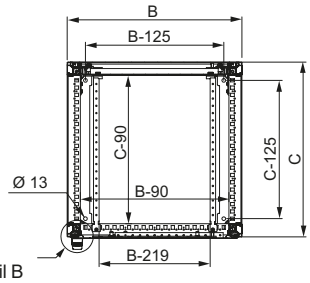
SF SF kit

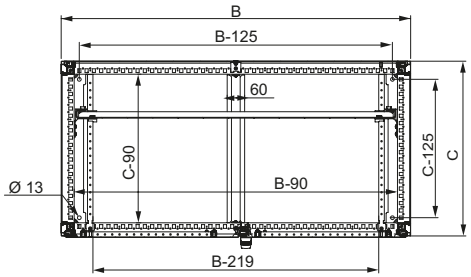
DB300852EN

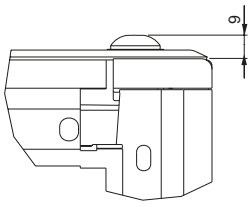




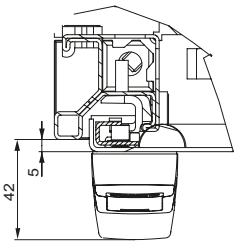








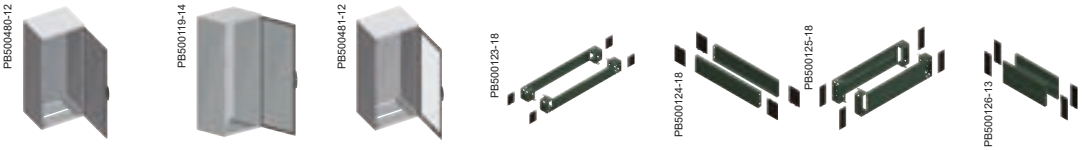
Detail A



Detail B

Steel floor-standing enclosures
Selection guide

SM



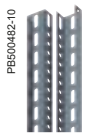
Characteristics				Door			Plinth			
Dimensions (mm)			No. of doors	Plain		Transparent	Height 100 mm		Height 200 mm	
H (A)	W (B)	D (C)		Without mounting plate	With mounting plate	Without mounting plate	Front kit (corners + front panels)	Side panels, 2 u.	Front kit (corners + front panels)	Side panels, 4 u.
1200	800	300	1	NSYSM12830	NSYSM12830P	-	NSYSPF8100	NSYSPS3100	NSYSPF8200	NSYSPS3200
	1000	300	2	NSYSM1210302D	NSYSM1210302DP	-	NSYSPF10100	NSYSPS3100	NSYSPF10200	NSYSPS3200
	1200	400	2	NSYSM1212402D	NSYSM1212402DP	-	NSYSPF12100	NSYSPS4100	NSYSPF12200	NSYSPS4200
1400	600	300	1	NSYSM14630	NSYSM14630P	-	NSYSPF6100	NSYSPS3100	NSYSPF6200	NSYSPS3200
		400	1	NSYSM14640	NSYSM14640P	-	NSYSPF6100	NSYSPS4100	NSYSPF6200	NSYSPS4200
	800	300	1	NSYSM14830	NSYSM14830P	-	NSYSPF8100	NSYSPS3100	NSYSPF8200	NSYSPS3200
		400	1	NSYSM14840	NSYSM14840P	NSYSM14840T	NSYSPF8100	NSYSPS4100	NSYSPF8200	NSYSPS4200
	1000	400	2	NSYSM1410402D	NSYSM1410402DP	-	NSYSPF10100	NSYSPS4100	NSYSPF10200	NSYSPS4200
	1200	400	2	NSYSM1412402D	NSYSM1412402DP	-	NSYSPF12100	NSYSPS4100	NSYSPF12200	NSYSPS4200
1600	600	300	1	NSYSM16630	NSYSM16630P	-	NSYSPF6100	NSYSPS3100	NSYSPF6200	NSYSPS3200
		400	1	NSYSM16640	NSYSM16640P	NSYSM16640T	NSYSPF6100	NSYSPS4100	NSYSPF6200	NSYSPS4200
	800	300	1	NSYSM16830	NSYSM16830P	NSYSM16830T	NSYSPF8100	NSYSPS3100	NSYSPF8200	NSYSPS3200
		400	1	NSYSM16840	NSYSM16840P	NSYSM16840T	NSYSPF8100	NSYSPS4100	NSYSPF8200	NSYSPS4200
	1000	300	2	NSYSM1610302D	NSYSM1610302DP	-	NSYSPF10100	NSYSPS3100	NSYSPF10200	NSYSPS3200
		400	2	NSYSM1610402D	NSYSM1610402DP	-	NSYSPF10100	NSYSPS4100	NSYSPF10200	NSYSPS4200
	1200	300	2	NSYSM1612302D	NSYSM1612302DP	-	NSYSPF12100	NSYSPS3100	NSYSPF12200	NSYSPS3200
		400	2	NSYSM1612402D	NSYSM1612402DP	-	NSYSPF12100	NSYSPS4100	NSYSPF12200	NSYSPS4200
1800	600	300	1	NSYSM18630	NSYSM18630P	-	NSYSPF6100	NSYSPS3100	NSYSPF6200	NSYSPS3200
		400	1	NSYSM18640	NSYSM18640P	NSYSM18640T	NSYSPF6100	NSYSPS4100	NSYSPF6200	NSYSPS4200
		500	1	NSYSM18650	NSYSM18650P	-	NSYSPF6100	NSYSPS5100	NSYSPF6200	NSYSPS5200
	800	300	1	NSYSM18830	NSYSM18830P	NSYSM18830T	NSYSPF8100	NSYSPS3100	NSYSPF8200	NSYSPS3200
		400	1	NSYSM18840	NSYSM18840P	NSYSM18840T	NSYSPF8100	NSYSPS4100	NSYSPF8200	NSYSPS4200
		500	1	NSYSM18850	NSYSM18850P	NSYSM18850T	NSYSPF8100	NSYSPS5100	NSYSPF8200	NSYSPS5200
		600	1	NSYSM18860	NSYSM18860P	-	NSYSPF8100	NSYSPS6100	NSYSPF8200	NSYSPS6200
	1000	400	1	NSYSM181040	NSYSM181040P	-	NSYSPF10100	NSYSPS4100	NSYSPF10200	NSYSPS4200
		400	2	NSYSM1810402D	NSYSM1810402DP	-	NSYSPF10100	NSYSPS4100	NSYSPF10200	NSYSPS4200
		500	2	NSYSM1810502D	NSYSM1810502DP	-	NSYSPF10100	NSYSPS5100	NSYSPF10200	NSYSPS5200
	1200	400	2	NSYSM1812402D	NSYSM1812402DP	-	NSYSPF12100	NSYSPS4100	NSYSPF12200	NSYSPS4200
		500	2	NSYSM1812502D	NSYSM1812502DP	-	NSYSPF12100	NSYSPS5100	NSYSPF12200	NSYSPS5200
	1600	400	2	NSYSM1816402D	NSYSM1816402DP	-	NSYSPF16100	NSYSPS4100	NSYSPF16200	NSYSPS4200
		500	2	NSYSM1816502D	NSYSM1816502DP	-	NSYSPF16100	NSYSPS5100	NSYSPF16200	NSYSPS5200
2000	600	300	1	NSYSM20630	NSYSM20630P	-	NSYSPF6100	NSYSPS3100	NSYSPF6200	NSYSPS3200
		400	1	NSYSM20640	NSYSM20640P	NSYSM20640T	NSYSPF6100	NSYSPS4100	NSYSPF6200	NSYSPS4200
		500	1	NSYSM20650	NSYSM20650P	-	NSYSPF6100	NSYSPS5100	NSYSPF6200	NSYSPS5200
	800	300	1	NSYSM20830	NSYSM20830P	NSYSM20830T	NSYSPF8100	NSYSPS3100	NSYSPF8200	NSYSPS3200
		400	1	NSYSM20840	NSYSM20840P	NSYSM20840T	NSYSPF8100	NSYSPS4100	NSYSPF8200	NSYSPS4200
		500	1	NSYSM20850	NSYSM20850P	NSYSM20850T	NSYSPF8100	NSYSPS5100	NSYSPF8200	NSYSPS5200
		600	1	NSYSM20860	NSYSM20860P	NSYSM20860T	NSYSPF8100	NSYSPS6100	NSYSPF8200	NSYSPS6200
	1000	400	2	NSYSM2010402D	NSYSM2010402DP	-	NSYSPF10100	NSYSPS4100	NSYSPF10200	NSYSPS4200
		500	2	NSYSM2010502D	NSYSM2010502DP	-	NSYSPF10100	NSYSPS5100	NSYSPF10200	NSYSPS5200
	1200	400	2	NSYSM2012402D	NSYSM2012402DP	-	NSYSPF12100	NSYSPS4100	NSYSPF12200	NSYSPS4200
		500	2	NSYSM2012502D	NSYSM2012502DP	-	NSYSPF12100	NSYSPS5100	NSYSPF12200	NSYSPS5200
		600	2	NSYSM2012602D	NSYSM2012602DP	-	NSYSPF12100	NSYSPS6100	NSYSPF12200	NSYSPS6200
	1600	400	2	NSYSM2016402D	NSYSM2016402DP	-	NSYSPF16100	NSYSPS4100	NSYSPF16200	NSYSPS4200
		500	2	NSYSM2016502D	NSYSM2016502DP	-	NSYSPF16100	NSYSPS5100	NSYSPF16200	NSYSPS5200
		600	2	NSYSM2016602D	NSYSM2016602DP	-	NSYSPF16100	NSYSPS6100	NSYSPF16200	NSYSPS6200

Steel floor-standing enclosures
Selection guide

SM











Characteristics				Inner door	Mounting plate	Vertical uprights		Off-centre 19" swing rack	Centred 19" swing rack
Dimensions (mm)			No. of doors			Standard	Technical		
H (A)	W (B)	D (C)							
1200	800	300	1	-	NSYMP128	-	NSYTVR12	-	-
	1000	300	2	-	NSYMP1210	-	NSYTVR12	-	-
	1200	400	2	-	NSYMP1212	-	NSYTVR12	-	-
1400	600	300	1	-	NSYMP146	-	NSYTVR14	-	-
		400	1	-	NSYMP146	-	NSYTVR14	-	-
	800	300	1	-	NSYMP148	-	NSYTVR14	NSYRSW27	NSYRSWC27
		400	1	-	NSYMP148	-	NSYTVR14	NSYRSW27	NSYRSWC27
	1000	400	2	-	NSYMP1410	-	NSYTVR14	-	-
	1200	400	2	-	NSYMP1412	-	NSYTVR14	-	-
1600	600	300	1	NSYID166	NSYMP166	-	NSYTVR16	-	-
		400	1	NSYID166	NSYMP166	-	NSYTVR16	-	-
	800	300	1	NSYID168	NSYMP168	-	NSYTVR16	NSYRSW31	NSYRSWC31
		400	1	NSYID168	NSYMP168	-	NSYTVR16	NSYRSW31	NSYRSWC31
	1000	300	2	-	NSYMP1610	-	NSYTVR16	-	-
		400	2	-	NSYMP1610	-	NSYTVR16	-	-
	1200	300	2	-	NSYMP1612	-	NSYTVR16	-	-
		400	2	-	NSYMP1612	-	NSYTVR16	-	-
1800	600	300	1	NSYID186	NSYMP186	NSYVR18	NSYTVR18	-	-
		400	1	NSYID186	NSYMP186	NSYVR18	NSYTVR18	-	-
		500	1	NSYID186	NSYMP186	NSYVR18	NSYTVR18	-	-
	800	300	1	NSYID188	NSYMP188	NSYVR18	NSYTVR18	NSYRSW36	NSYRSWC36
		400	1	NSYID188	NSYMP188	NSYVR18	NSYTVR18	NSYRSW36	NSYRSWC36
		500	1	NSYID188	NSYMP188	NSYVR18	NSYTVR18	NSYRSW36	NSYRSWC36
		600	1	NSYID188	NSYMP188	NSYVR18	NSYTVR18	NSYRSW36	NSYRSWC36
	1000	400	1	NSYID1810	NSYMP1810	NSYVR18	NSYTVR18	-	-
		400	2	NSYID1810	NSYMP1810	NSYVR18	NSYTVR18	-	-
		500	2	NSYID1810	NSYMP1810	NSYVR18	NSYTVR18	-	-
	1200	400	2	-	NSYMP1812	NSYVR18	NSYTVR18	-	-
		500	2	-	NSYMP1812	NSYVR18	NSYTVR18	-	-
	1600	400	2	-	NSYMP1816	NSYVR18	NSYTVR18	-	-
		500	2	-	NSYMP1816	NSYVR18	NSYTVR18	-	-
2000	600	300	1	NSYID206	NSYMP206	NSYVR20	NSYTVR20	-	-
		400	1	NSYID206	NSYMP206	NSYVR20	NSYTVR20	-	-
		500	1	NSYID206	NSYMP206	NSYVR20	NSYTVR20	-	-
	800	300	1	NSYID208	NSYMP208	NSYVR20	NSYTVR20	NSYRSW40	NSYRSWC40
		400	1	NSYID208	NSYMP208	NSYVR20	NSYTVR20	NSYRSW40	NSYRSWC40
		500	1	NSYID208	NSYMP208	NSYVR20	NSYTVR20	NSYRSW40	NSYRSWC40
		600	1	NSYID208	NSYMP208	NSYVR20	NSYTVR20	NSYRSW40	NSYRSWC40
	1000	400	2	NSYID2010	NSYMP2010	NSYVR20	NSYTVR20	-	-
		500	2	NSYID2010	NSYMP2010	NSYVR20	NSYTVR20	-	-
	1200	400	2	-	NSYMP2012	NSYVR20	NSYTVR20	-	-
		500	2	-	NSYMP2012	NSYVR20	NSYTVR20	-	-
		600	2	-	NSYMP2012	NSYVR20	NSYTVR20	-	-
	1600	400	2	-	NSYMP2016	NSYVR20	NSYTVR20	-	-
		500	2	-	NSYMP2016	NSYVR20	NSYTVR20	-	-
		600	2	-	NSYMP2016	NSYVR20	NSYTVR20	-	-

Steel floor-standing enclosures
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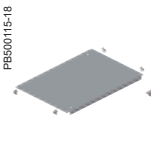
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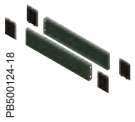


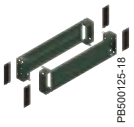
Nominal dimensions (mm)			No. of doors	Door			Side panels	Cable-entry plate		
				Plain		Transparent				
Height (A)	Width (B)	Depth (C)		Without mounting plate	With mounting plate	Without mounting plate		Plain	1 entry	2 entries
1200	600	400	1	NSYSF12640	NSYSF12640P	-	NSY2SP124	NSYEC64	NSYEC641	-
		600	1	NSYSF12660	NSYSF12660P	-	NSY2SP126	NSYEC66	NSYEC661	NSYEC662
	800	400	1	NSYSF12840	NSYSF12840P	-	NSY2SP124	NSYEC84	NSYEC841	-
		600	1	NSYSF12860	NSYSF12860P	-	NSY2SP126	NSYEC86	NSYEC861	NSYEC862
1400	600	400	1	NSYSF14640	NSYSF14640P	-	NSY2SP144	NSYEC64	NSYEC641	-
	800	400	1	NSYSF14840	NSYSF14840P	-	NSY2SP144	NSYEC84	NSYEC841	-
1600	600	600	1	NSYSF16660	NSYSF16660P	-	NSY2SP166	NSYEC66	NSYEC661	NSYEC662
		800	1	NSYSF16680	NSYSF16680P	-	NSY2SP168	NSYEC68	NSYEC681	NSYEC682
	800	600	1	NSYSF16860	NSYSF16860P	-	NSY2SP166	NSYEC86	NSYEC861	NSYEC862
		800	1	NSYSF16880	NSYSF16880P	-	NSY2SP168	NSYEC88	NSYEC881	NSYEC882
1800	400	400	1	NSYSF18440	-	-	NSY2SP184	NSYEC44	NSYEC441	-
		500	1	NSYSF18450	-	-	NSY2SP185	NSYEC45	NSYEC451	-
		600	1	NSYSF18460	-	-	NSY2SP186	-	NSYEC461	-
	600	400	1	NSYSF18640	NSYSF18640P	NSYSF18640T	NSY2SP184	NSYEC64	NSYEC641	-
		500	1	NSYSF18650	NSYSF18650P	NSYSF18650T	NSY2SP185	NSYEC65	NSYEC651	-
		600	1	NSYSF18660	NSYSF18660P	-	NSY2SP186	NSYEC66	NSYEC661	NSYEC662
		800	1	-	-	NSYSF18680T	NSY2SP188	NSYEC68	NSYEC681	NSYEC682
	800	400	1	NSYSF18840	NSYSF18840P	NSYSF18840T	NSY2SP184	NSYEC84	NSYEC841	-
		500	1	NSYSF18850	NSYSF18850P	NSYSF18850T	NSY2SP185	NSYEC85	NSYEC851	-
		600	1	NSYSF18860	NSYSF18860P	NSYSF18860T	NSY2SP186	NSYEC86	NSYEC861	NSYEC862
		600	2	NSYSF188602D	NSYSF188602DP	-	NSY2SP186	NSYEC86	NSYEC861	NSYEC862
	1000	400	1	NSYSF181040	NSYSF181040P	-	NSY2SP184	NSYEC104	NSYEC1041	-
		400	2	NSYSF1810402D	NSYSF1810402DP	-	NSY2SP184	NSYEC104	NSYEC1041	-
		500	1	NSYSF181050	NSYSF181050P	-	NSY2SP185	NSYEC105	NSYEC1051	-
		600	1	NSYSF181060	NSYSF181060P	-	NSY2SP186	NSYEC106	NSYEC1061	NSYEC1062
		600	2	NSYSF1810602D	NSYSF1810602DP	-	NSY2SP186	NSYEC106	NSYEC1061	NSYEC1062
	1200	400	2	NSYSF1812402D	NSYSF1812402DP	-	NSY2SP184	NSYEC124	NSYEC1241	-
		500	2	NSYSF1812502D	NSYSF1812502DP	-	NSY2SP185	NSYEC125	NSYEC1251	-
		600	2	NSYSF1812602D	NSYSF1812602DP	-	NSY2SP186	NSYEC126	NSYEC1261	NSYEC1262
2000	300	500	1	NSYSF20350	-	-	NSY2SP205	NSYEC35	NSYEC351	-
		600	1	NSYSF20360	-	-	NSY2SP206	NSYEC36	NSYEC361	-
		800	1	NSYSF20380	-	-	NSY2SP208	-	NSYEC381	-
	400	400	1	NSYSF20440	-	-	NSY2SP204	NSYEC44	NSYEC441	-
		500	1	NSYSF20450	-	-	NSY2SP205	NSYEC45	NSYEC451	-
		600	1	NSYSF20460	-	-	NSY2SP206	NSYEC64	NSYEC461	-
		800	1	NSYSF20480	-	-	NSY2SP208	NSYEC84	NSYEC481	-
	600	400	1	NSYSF20640	NSYSF20640P	NSYSF20640T	NSY2SP204	NSYEC64	NSYEC641	-
		500	1	NSYSF20650	NSYSF20650P	NSYSF20650T	NSY2SP205	NSYEC65	NSYEC651	-
		600	1	NSYSF20660	NSYSF20660P	-	NSY2SP206	NSYEC66	NSYEC661	NSYEC662
		800	1	NSYSF20680	NSYSF20680P	-	NSY2SP208	NSYEC68	NSYEC681	NSYEC682
	800	400	1	NSYSF20840	NSYSF20840P	NSYSF20840T	NSY2SP204	NSYEC84	NSYEC841	-
		500	1	NSYSF20850	NSYSF20850P	NSYSF20850T	NSY2SP205	NSYEC85	NSYEC851	-
		600	1	NSYSF20860	NSYSF20860P	NSYSF20860T	NSY2SP206	NSYEC86	NSYEC861	NSYEC862
		600	2	NSYSF208602D	NSYSF208602DP	-	NSY2SP206	NSYEC86	NSYEC861	NSYEC862
		800	1	NSYSF20880	NSYSF20880P	NSYSF20880T	NSY2SP208	NSYEC88	NSYEC881	NSYEC882
	1000	400	1	NSYSF201040	NSYSF201040P	NSYSF201040T	NSY2SP204	NSYEC104	NSYEC1041	-
		400	2	NSYSF2010402D	NSYSF2010402DP	-	NSY2SP204	NSYEC104	NSYEC1041	-
		500	1	NSYSF201050	NSYSF201050P	NSYSF201050T	NSY2SP205	NSYEC105	NSYEC1051	-
		500	2	NSYSF2010502D	NSYSF2010502DP	-	NSY2SP205	NSYEC105	NSYEC1051	-
		600	1	NSYSF201060	NSYSF201060P	NSYSF201060T	NSY2SP206	NSYEC106	NSYEC1061	NSYEC1062
		600	2	NSYSF2010602D	NSYSF2010602DP	-	NSY2SP206	NSYEC106	NSYEC1061	NSYEC1062
		800	1	NSYSF201080	NSYSF201080P	-	NSY2SP208	NSYEC108	NSYEC1081	NSYEC1082
	1200	400	2	NSYSF2012402D	NSYSF2012402DP	-	NSY2SP204	NSYEC124	NSYEC1241	-
		500	2	NSYSF2012502D	NSYSF2012502DP	-	NSY2SP205	NSYEC125	NSYEC1251	-
		600	2	NSYSF2012602D	NSYSF2012602DP	-	NSY2SP206	NSYEC126	NSYEC1261	NSYEC1262
		800	2	NSYSF2012802D	NSYSF2012802DP	-	NSY2SP208	NSYEC128	NSYEC1281	NSYEC1282
	1600	400	2	NSYSF2016402D	NSYSF2016402DP	-	NSY2SP204	NSYEC164	NSYEC1641	-
		500	2	NSYSF2016502D	NSYSF2016502DP	-	NSY2SP205	NSYEC165	NSYEC1651	-
		600	2	NSYSF2016602D	NSYSF2016602DP	-	NSY2SP206	NSYEC166	NSYEC1661	NSYEC1662
2200	400	600	1	NSYSF22460	-	-	NSY2SP226	-	NSYEC461	-
	600	600	1	NSYSF22660	NSYSF22660P	-	NSY2SP226	NSYEC66	NSYEC661	NSYEC662
		800	1	NSYSF22680	NSYSF22680P	-	NSY2SP228	NSYEC68	NSYEC681	NSYEC682
	800	600	1	NSYSF22860	NSYSF22860P	-	NSY2SP226	NSYEC86	NSYEC861	NSYEC862
		800	1	NSYSF22880	NSYSF22880P	NSYSF22880T	NSY2SP228	NSYEC88	NSYEC881	NSYEC882
	1000	600	1	NSYSF221060	NSYSF221060P	-	NSY2SP226	NSYEC106	NSYEC1061	NSYEC1062
	1200	600	2	NSYSF2212602D	NSYSF2212602DP	-	NSY2SP226	NSYEC126	NSYEC1261	NSYEC1262
		800	2	NSYSF2212802D	NSYSF2212802DP	-	NSY2SP228	NSYEC128	NSYEC1281	NSYEC1282

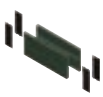
Steel floor-standing enclosures
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PB500123-18

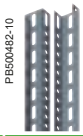

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PB500512-16


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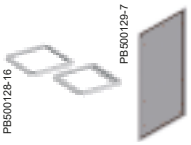

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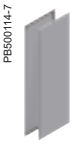
Nominal dimensions (mm)			Plinth				Mounting plate	Intermediate mounting plate	Vertical uprights	
			Height 100 mm		Height 200 mm				Standard	Technical
Height (A)	Width (B)	Depth (C)	Front kit (corners + front panels)	Side panels, 2 u.	Front kit (corners + front panels)	Side panels, 4 u.				
1200	600	400	NSYSPF6100	NSYSPS4100	NSYSPF6200	NSYSPS4200	NSYMP126	NSYSIMP12	-	NSYTVR12
		600	NSYSPF6100	NSYSPS6100	NSYSPF6200	NSYSPS6200	NSYMP126	NSYSIMP12	-	NSYTVR12
	800	400	NSYSPF8100	NSYSPS4100	NSYSPF8200	NSYSPS4200	NSYMP128	NSYSIMP12	-	NSYTVR12
		600	NSYSPF8100	NSYSPS6100	NSYSPF8200	NSYSPS6200	NSYMP128	NSYSIMP12	-	NSYTVR12
1400	600	400	NSYSPF6100	NSYSPS4100	NSYSPF6200	NSYSPS4200	NSYMP146	NSYSIMP14	-	NSYTVR14
	800	400	NSYSPF8100	NSYSPS4100	NSYSPF8200	NSYSPS4200	NSYMP148	NSYSIMP14	-	NSYTVR14
1600	600	600	NSYSPF6100	NSYSPS6100	NSYSPF6200	NSYSPS6200	NSYMP166	NSYSIMP16	-	NSYTVR16
		800	NSYSPF6100	NSYSPS8100	NSYSPF6200	NSYSPS8200	NSYMP166	NSYSIMP16	-	NSYTVR16
	800	600	NSYSPF8100	NSYSPS6100	NSYSPF8200	NSYSPS6200	NSYMP168	NSYSIMP16	-	NSYTVR16
		800	NSYSPF8100	NSYSPS8100	NSYSPF8200	NSYSPS8200	NSYMP168	NSYSIMP16	-	NSYTVR16
1800	400	400	NSYSPF4100	NSYSPS4100	NSYSPF4200	NSYSPS4200	-	-	NSYVR18	NSYTVR18
		500	NSYSPF4100	NSYSPS5100	NSYSPF4200	NSYSPS5200	-	-	NSYVR18	NSYTVR18
		600	NSYSPF4100	NSYSPS6100	NSYSPF4200	NSYSPS6200	-	-	NSYVR18	NSYTVR18
	600	400	NSYSPF6100	NSYSPS4100	NSYSPF6200	NSYSPS4200	NSYMP186	NSYSIMP18	NSYVR18	NSYTVR18
		500	NSYSPF6100	NSYSPS5100	NSYSPF6200	NSYSPS5200	NSYMP186	NSYSIMP18	NSYVR18	NSYTVR18
		600	NSYSPF6100	NSYSPS6100	NSYSPF6200	NSYSPS6200	NSYMP186	NSYSIMP18	NSYVR18	NSYTVR18
		800	NSYSPF6100	NSYSPS8100	NSYSPF6200	NSYSPS8200	NSYMP186	NSYSIMP18	NSYVR18	NSYTVR18
	800	400	NSYSPF8100	NSYSPS4100	NSYSPF8200	NSYSPS4200	NSYMP188	NSYSIMP18	NSYVR18	NSYTVR18
		500	NSYSPF8100	NSYSPS5100	NSYSPF8200	NSYSPS5200	NSYMP188	NSYSIMP18	NSYVR18	NSYTVR18
		600	NSYSPF8100	NSYSPS6100	NSYSPF8200	NSYSPS6200	NSYMP188	NSYSIMP18	NSYVR18	NSYTVR18
		600	NSYSPF8100	NSYSPS6100	NSYSPF8200	NSYSPS6200	NSYMP188	NSYSIMP18	NSYVR18	NSYTVR18
	1000	400	NSYSPF10100	NSYSPS4100	NSYSPF10200	NSYSPS4200	NSYMP1810	NSYSIMP18	NSYVR18	NSYTVR18
		400	NSYSPF10100	NSYSPS4100	NSYSPF10200	NSYSPS4200	NSYMP1810	NSYSIMP18	NSYVR18	NSYTVR18
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		600	NSYSPF10100	NSYSPS6100	NSYSPF10200	NSYSPS6200	NSYMP1810	NSYSIMP18	NSYVR18	NSYTVR18
	1200	400	NSYSPF12100	NSYSPS4100	NSYSPF12200	NSYSPS4200	NSYMP1812	NSYSIMP18	NSYVR18	NSYTVR18
		500	NSYSPF12100	NSYSPS5100	NSYSPF12200	NSYSPS5200	NSYMP1812	NSYSIMP18	NSYVR18	NSYTVR18
		600	NSYSPF12100	NSYSPS6100	NSYSPF12200	NSYSPS6200	NSYMP1812	NSYSIMP18	NSYVR18	NSYTVR18
2000	300	500	NSYSPF3100	NSYSPS5100	NSYSPF3200	NSYSPS5200	-	-	NSYVR20	NSYTVR20
		600	NSYSPF3100	NSYSPS6100	NSYSPF3200	NSYSPS6200	-	-	NSYVR20	NSYTVR20
		800	NSYSPF3100	NSYSPS8100	NSYSPF3200	NSYSPS8200	-	-	NSYVR20	NSYTVR20
	400	400	NSYSPF4100	NSYSPS4100	NSYSPF4200	NSYSPS4200	-	-	NSYVR20	NSYTVR20
		500	NSYSPF4100	NSYSPS5100	NSYSPF4200	NSYSPS5200	-	-	NSYVR20	NSYTVR20
		600	NSYSPF4100	NSYSPS6100	NSYSPF4200	NSYSPS6200	-	-	NSYVR20	NSYTVR20
		800	NSYSPF4100	NSYSPS8100	NSYSPF4200	NSYSPS8200	-	-	NSYVR20	NSYTVR20
	600	400	NSYSPF6100	NSYSPS4100	NSYSPF6200	NSYSPS4200	NSYMP206	NSYSIMP20	NSYVR20	NSYTVR20
		500	NSYSPF6100	NSYSPS5100	NSYSPF6200	NSYSPS5200	NSYMP206	NSYSIMP20	NSYVR20	NSYTVR20
		600	NSYSPF6100	NSYSPS6100	NSYSPF6200	NSYSPS6200	NSYMP206	NSYSIMP20	NSYVR20	NSYTVR20
		800	NSYSPF6100	NSYSPS8100	NSYSPF6200	NSYSPS8200	NSYMP206	NSYSIMP20	NSYVR20	NSYTVR20
	800	400	NSYSPF8100	NSYSPS4100	NSYSPF8200	NSYSPS4200	NSYMP208	NSYSIMP20	NSYVR20	NSYTVR20
		500	NSYSPF8100	NSYSPS5100	NSYSPF8200	NSYSPS5200	NSYMP208	NSYSIMP20	NSYVR20	NSYTVR20
		600	NSYSPF8100	NSYSPS6100	NSYSPF8200	NSYSPS6200	NSYMP208	NSYSIMP20	NSYVR20	NSYTVR20
		600	NSYSPF8100	NSYSPS6100	NSYSPF8200	NSYSPS6200	NSYMP208	NSYSIMP20	NSYVR20	NSYTVR20
		800	NSYSPF8100	NSYSPS8100	NSYSPF8200	NSYSPS8200	NSYMP208	NSYSIMP20	NSYVR20	NSYTVR20
	1000	400	NSYSPF10100	NSYSPS4100	NSYSPF10200	NSYSPS4200	NSYMP2010	NSYSIMP20	NSYVR20	NSYTVR20
		400	NSYSPF10100	NSYSPS4100	NSYSPF10200	NSYSPS4200	NSYMP2010	NSYSIMP20	NSYVR20	NSYTVR20
		500	NSYSPF10100	NSYSPS5100	NSYSPF10200	NSYSPS5200	NSYMP2010	NSYSIMP20	NSYVR20	NSYTVR20
		500	NSYSPF10100	NSYSPS5100	NSYSPF10200	NSYSPS5200	NSYMP2010	NSYSIMP20	NSYVR20	NSYTVR20
		600	NSYSPF10100	NSYSPS6100	NSYSPF10200	NSYSPS6200	NSYMP2010	NSYSIMP20	NSYVR20	NSYTVR20
		600	NSYSPF10100	NSYSPS6100	NSYSPF10200	NSYSPS6200	NSYMP2010	NSYSIMP20	NSYVR20	NSYTVR20
		800	NSYSPF10100	NSYSPS8100	NSYSPF10200	NSYSPS8200	NSYMP2010	NSYSIMP20	NSYVR20	NSYTVR20
	1200	400	NSYSPF12100	NSYSPS4100	NSYSPF12200	NSYSPS4200	NSYMP2012	NSYSIMP20	NSYVR20	NSYTVR20
		500	NSYSPF12100	NSYSPS5100	NSYSPF12200	NSYSPS5200	NSYMP2012	NSYSIMP20	NSYVR20	NSYTVR20
		600	NSYSPF12100	NSYSPS6100	NSYSPF12200	NSYSPS6200	NSYMP2012	NSYSIMP20	NSYVR20	NSYTVR20
		800	NSYSPF12100	NSYSPS8100	NSYSPF12200	NSYSPS8200	NSYMP2012	NSYSIMP20	NSYVR20	NSYTVR20
	1600	400	NSYSPF16100	NSYSPS4100	NSYSPF16200	NSYSPS4200	NSYMP2016	NSYSIMP20	NSYVR20	NSYTVR20
		500	NSYSPF16100	NSYSPS5100	NSYSPF16200	NSYSPS5200	NSYMP2016	NSYSIMP20	NSYVR20	NSYTVR20
		600	NSYSPF16100	NSYSPS6100	NSYSPF16200	NSYSPS6200	NSYMP2016	NSYSIMP20	NSYVR20	NSYTVR20
2200	400	600	NSYSPF4100	NSYSPS6100	NSYSPF4200	NSYSPS6200	-	-	NSYVR22	NSYTVR22
	600	600	NSYSPF6100	NSYSPS6100	NSYSPF6200	NSYSPS6200	NSYMP226	NSYSIMP22	NSYVR22	NSYTVR22
		800	NSYSPF6100	NSYSPS8100	NSYSPF6200	NSYSPS8200	NSYMP226	NSYSIMP22	NSYVR22	NSYTVR22
	800	600	NSYSPF8100	NSYSPS6100	NSYSPF8200	NSYSPS6200	NSYMP228	NSYSIMP22	NSYVR22	NSYTVR22
		800	NSYSPF8100	NSYSPS8100	NSYSPF8200	NSYSPS8200	NSYMP228	NSYSIMP22	NSYVR22	NSYTVR22
	1000	600	NSYSPF10100	NSYSPS6100	NSYSPF10200	NSYSPS6200	NSYMP2210	NSYSIMP22	NSYVR22	NSYTVR22
	1200	600	NSYSPF12100	NSYSPS6100	NSYSPF12200	NSYSPS6200	NSYMP2212	NSYSIMP22	NSYVR22	NSYTVR22
		800	NSYSPF12100	NSYSPS8100	NSYSPF12200	NSYSPS8200	NSYMP2212	NSYSIMP22	NSYVR22	NSYTVR22

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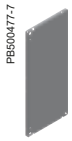












Nominal dimensions (mm)			No. of doors	Vertical uprights	Bottom frame and top frame with roof	Rear panel	Side panels	Plain door (1)	Transparent door (Securit® glass) (1)	Door Trim plate	Mounting plate
Height (A)	Width (B)	Depth (C)									
1200	600	400	1	NSYSFV12	NSYSFC64	NSYBP126	NSY2SP124	NSYSFD126	NSYSFD126T	NSYTRIM6SF	NSYMP126
		500	1	NSYSFV12	NSYSFC65	NSYBP126	NSY2SP125	NSYSFD126	NSYSFD126T	NSYTRIM6SF	NSYMP126
		600	1	NSYSFV12	NSYSFC66	NSYBP126	NSY2SP126	NSYSFD126	NSYSFD126T	NSYTRIM6SF	NSYMP126
		800	1	NSYSFV12	NSYSFC68	NSYBP126	NSY2SP128	NSYSFD126	NSYSFD126T	NSYTRIM6SF	NSYMP126
	800	400	1	NSYSFV12	NSYSFC84	NSYBP128	NSY2SP124	NSYSFD128	NSYSFD128T	NSYTRIM8SF	NSYMP128
		500	1	NSYSFV12	NSYSFC85	NSYBP128	NSY2SP125	NSYSFD128	NSYSFD128T	NSYTRIM8SF	NSYMP128
		600	1	NSYSFV12	NSYSFC86	NSYBP128	NSY2SP126	NSYSFD128	NSYSFD128T	NSYTRIM8SF	NSYMP128
		800	1	NSYSFV12	NSYSFC88	NSYBP128	NSY2SP128	NSYSFD128	NSYSFD128T	NSYTRIM8SF	NSYMP128
1400	600	400	1	NSYSFV14	NSYSFC64	NSYBP146	NSY2SP144	NSYSFD146	NSYSFD146T	NSYTRIM6SF	NSYMP146
		500	1	NSYSFV14	NSYSFC65	NSYBP146	NSY2SP145	NSYSFD146	NSYSFD146T	NSYTRIM6SF	NSYMP146
		600	1	NSYSFV14	NSYSFC66	NSYBP146	NSY2SP146	NSYSFD146	NSYSFD146T	NSYTRIM6SF	NSYMP146
		800	1	NSYSFV14	NSYSFC68	NSYBP146	NSY2SP148	NSYSFD146	NSYSFD146T	NSYTRIM6SF	NSYMP146
	800	400	1	NSYSFV14	NSYSFC84	NSYBP148	NSY2SP144	NSYSFD148	NSYSFD148T	NSYTRIM8SF	NSYMP148
		500	1	NSYSFV14	NSYSFC85	NSYBP148	NSY2SP145	NSYSFD148	NSYSFD148T	NSYTRIM8SF	NSYMP148
		600	1	NSYSFV14	NSYSFC86	NSYBP148	NSY2SP146	NSYSFD148	NSYSFD148T	NSYTRIM8SF	NSYMP148
		800	1	NSYSFV14	NSYSFC88	NSYBP148	NSY2SP148	NSYSFD148	NSYSFD148T	NSYTRIM8SF	NSYMP148
1600	600	400	1	NSYSFV16	NSYSFC64	NSYBP166	NSY2SP164	NSYSFD166	NSYSFD166T	NSYTRIM6SF	NSYMP166
		500	1	NSYSFV16	NSYSFC65	NSYBP166	NSY2SP165	NSYSFD166	NSYSFD166T	NSYTRIM6SF	NSYMP166
		600	1	NSYSFV16	NSYSFC66	NSYBP166	NSY2SP166	NSYSFD166	NSYSFD166T	NSYTRIM6SF	NSYMP166
		800	1	NSYSFV16	NSYSFC68	NSYBP166	NSY2SP168	NSYSFD166	NSYSFD166T	NSYTRIM6SF	NSYMP166
	800	400	1	NSYSFV16	NSYSFC84	NSYBP168	NSY2SP164	NSYSFD168	NSYSFD168T	NSYTRIM8SF	NSYMP168
		500	1	NSYSFV16	NSYSFC85	NSYBP168	NSY2SP165	NSYSFD168	NSYSFD168T	NSYTRIM8SF	NSYMP168
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		800	1	NSYSFV16	NSYSFC88	NSYBP168	NSY2SP168	NSYSFD168	NSYSFD168T	NSYTRIM8SF	NSYMP168
1800	400	400	1	NSYSFV18	NSYSFC44	NSYBP184	NSY2SP184	NSYSFD184	-	NSYTRIM4SF	-
		500	1	NSYSFV18	NSYSFC45	NSYBP184	NSY2SP185	NSYSFD184	-	NSYTRIM4SF	-
		600	1	NSYSFV18	NSYSFC46	NSYBP184	NSY2SP186	NSYSFD184	-	NSYTRIM4SF	-
		800	1	NSYSFV18	NSYSFC48	NSYBP184	NSY2SP188	NSYSFD184	-	NSYTRIM4SF	-
	600	400	1	NSYSFV18	NSYSFC64	NSYBP186	NSY2SP184	NSYSFD186	NSYSFD186T	NSYTRIM6SF	NSYMP186
		500	1	NSYSFV18	NSYSFC65	NSYBP186	NSY2SP185	NSYSFD186	NSYSFD186T	NSYTRIM6SF	NSYMP186
		600	1	NSYSFV18	NSYSFC66	NSYBP186	NSY2SP186	NSYSFD186	NSYSFD186T	NSYTRIM6SF	NSYMP186
		800	1	NSYSFV18	NSYSFC68	NSYBP186	NSY2SP188	NSYSFD186	NSYSFD186T	NSYTRIM6SF	NSYMP186
	800	400	1	NSYSFV18	NSYSFC84	NSYBP188	NSY2SP184	NSYSFD188	NSYSFD188T	NSYTRIM8SF	NSYMP188
		500	1	NSYSFV18	NSYSFC85	NSYBP188	NSY2SP185	NSYSFD188	NSYSFD188T	NSYTRIM8SF	NSYMP188
		600	1	NSYSFV18	NSYSFC86	NSYBP188	NSY2SP186	NSYSFD188	NSYSFD188T	NSYTRIM8SF	NSYMP188
		600	2	NSYSFV18	NSYSFC86	NSYBP188	NSY2SP186	NSYSFD1882D	-	NSYTRIM8SF2D	NSYMP188
		800	1	NSYSFV18	NSYSFC88	NSYBP188	NSY2SP188	NSYSFD188	NSYSFD188T	NSYTRIM8SF	NSYMP188
		800	2	NSYSFV18	NSYSFC88	NSYBP188	NSY2SP188	NSYSFD1882D	-	NSYTRIM8SF2D	NSYMP188
	1000	400	1	NSYSFV18	NSYSFC104	NSYBP1810	NSY2SP184	NSYSFD1810	NSYSFD1810T	NSYTRIM10SF	NSYMP1810
		400	2	NSYSFV18	NSYSFC104	NSYBP1810	NSY2SP184	NSYSFD18102D	-	NSYTRIM10SF2D	NSYMP1810
		500	1	NSYSFV18	NSYSFC105	NSYBP1810	NSY2SP185	NSYSFD1810	NSYSFD1810T	NSYTRIM10SF	NSYMP1810
		600	1	NSYSFV18	NSYSFC106	NSYBP1810	NSY2SP186	NSYSFD1810	NSYSFD1810T	NSYTRIM10SF	NSYMP1810
		600	2	NSYSFV18	NSYSFC106	NSYBP1810	NSY2SP186	NSYSFD18102D	-	NSYTRIM10SF2D	NSYMP1810
		800	1	NSYSFV18	NSYSFC108	NSYBP1810	NSY2SP188	NSYSFD1810	NSYSFD1810T	NSYTRIM10SF	NSYMP1810
		800	2	NSYSFV18	NSYSFC108	NSYBP1810	NSY2SP188	NSYSFD18102D	-	NSYTRIM10SF2D	NSYMP1810
	1200	400	2	NSYSFV18	NSYSFC124	NSYBP1812	NSY2SP184	NSYSFD18122D	NSYSFD18122DT	NSYTRIM12SF2D	NSYMP1812
		500	2	NSYSFV18	NSYSFC125	NSYBP1812	NSY2SP185	NSYSFD18122D	NSYSFD18122DT	NSYTRIM12SF2D	NSYMP1812
		600	2	NSYSFV18	NSYSFC126	NSYBP1812	NSY2SP186	NSYSFD18122D	NSYSFD18122DT	NSYTRIM12SF2D	NSYMP1812
		800	2	NSYSFV18	NSYSFC128	NSYBP1812	NSY2SP188	NSYSFD18122D	NSYSFD18122DT	NSYTRIM12SF2D	NSYMP1812

(1) Hinges, locking bar catches and handle with 5-mm double-bar insert included.

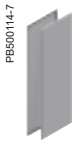
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Nominal dimensions (mm)			No. of doors	Vertical uprights	Bottom frame and top frame with roof	Rear panel	Side panels	Plain door (1)	Transparent door (Securit® glass) (1)	Door Trim plate	Mounting plate
Height (A)	Width (B)	Depth (C)									
2000	300	500	1	NSYSFV20	NSYSFC35	NSYBP203	NSY2SP205	NSYSFD203	-	NSYTRIM3SF	-
		600	1	NSYSFV20	NSYSFC36	NSYBP203	NSY2SP206	NSYSFD203	-	NSYTRIM3SF	-
		800	1	NSYSFV20	NSYSFC38	NSYBP203	NSY2SP208	NSYSFD203	-	NSYTRIM3SF	-
	400	400	1	NSYSFV20	NSYSFC44	NSYBP204	NSY2SP204	NSYSFD204	-	NSYTRIM4SF	-
		500	1	NSYSFV20	NSYSFC45	NSYBP204	NSY2SP205	NSYSFD204	-	NSYTRIM4SF	-
		600	1	NSYSFV20	NSYSFC46	NSYBP204	NSY2SP206	NSYSFD204	-	NSYTRIM4SF	-
		800	1	NSYSFV20	NSYSFC48	NSYBP204	NSY2SP208	NSYSFD204	-	NSYTRIM4SF	-
	600	400	1	NSYSFV20	NSYSFC64	NSYBP206	NSY2SP204	NSYSFD206	NSYSFD206T	NSYTRIM6SF	NSYMP206
		500	1	NSYSFV20	NSYSFC65	NSYBP206	NSY2SP205	NSYSFD206	NSYSFD206T	NSYTRIM6SF	NSYMP206
		600	1	NSYSFV20	NSYSFC66	NSYBP206	NSY2SP206	NSYSFD206	NSYSFD206T	NSYTRIM6SF	NSYMP206
		800	1	NSYSFV20	NSYSFC68	NSYBP206	NSY2SP208	NSYSFD206	NSYSFD206T	NSYTRIM6SF	NSYMP206
	800	400	1	NSYSFV20	NSYSFC84	NSYBP208	NSY2SP204	NSYSFD208	NSYSFD208T	NSYTRIM8SF	NSYMP208
		500	1	NSYSFV20	NSYSFC85	NSYBP208	NSY2SP205	NSYSFD208	NSYSFD208T	NSYTRIM8SF	NSYMP208
		600	1	NSYSFV20	NSYSFC86	NSYBP208	NSY2SP206	NSYSFD208	NSYSFD208T	NSYTRIM8SF	NSYMP208
		600	2	NSYSFV20	NSYSFC86	NSYBP208	NSY2SP206	NSYSFD2082D	-	NSYTRIM8SF2D	NSYMP208
		800	1	NSYSFV20	NSYSFC88	NSYBP208	NSY2SP208	NSYSFD208	NSYSFD208T	NSYTRIM8SF	NSYMP208
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	1000	400	1	NSYSFV20	NSYSFC104	NSYBP2010	NSY2SP204	NSYSFD2010	NSYSFD2010T	NSYTRIM10SF	NSYMP2010
		400	2	NSYSFV20	NSYSFC104	NSYBP2010	NSY2SP204	NSYSFD20102D	-	NSYTRIM10SF2D	NSYMP2010
		500	1	NSYSFV20	NSYSFC105	NSYBP2010	NSY2SP205	NSYSFD2010	NSYSFD2010T	NSYTRIM10SF	NSYMP2010
		500	2	NSYSFV20	NSYSFC105	NSYBP2010	NSY2SP205	NSYSFD20102D	-	NSYTRIM10SF2D	NSYMP2010
		600	1	NSYSFV20	NSYSFC106	NSYBP2010	NSY2SP206	NSYSFD2010	NSYSFD2010T	NSYTRIM10SF	NSYMP2010
		600	2	NSYSFV20	NSYSFC106	NSYBP2010	NSY2SP206	NSYSFD20102D	-	NSYTRIM10SF2D	NSYMP2010
		800	1	NSYSFV20	NSYSFC108	NSYBP2010	NSY2SP208	NSYSFD2010	NSYSFD2010T	NSYTRIM10SF	NSYMP2010
		800	2	NSYSFV20	NSYSFC108	NSYBP2010	NSY2SP208	NSYSFD20102D	-	NSYTRIM10SF2D	NSYMP2010
	1200	400	2	NSYSFV20	NSYSFC124	NSYBP2012	NSY2SP204	NSYSFD20122D	NSYSFD20122DT	NSYTRIM12SF2D	NSYMP2012
		500	2	NSYSFV20	NSYSFC125	NSYBP2012	NSY2SP205	NSYSFD20122D	NSYSFD20122DT	NSYTRIM12SF2D	NSYMP2012
		600	2	NSYSFV20	NSYSFC126	NSYBP2012	NSY2SP206	NSYSFD20122D	NSYSFD20122DT	NSYTRIM12SF2D	NSYMP2012
		800	2	NSYSFV20	NSYSFC128	NSYBP2012	NSY2SP208	NSYSFD20122D	NSYSFD20122DT	NSYTRIM12SF2D	NSYMP2012
	1600	400	2	NSYSFV20	NSYSFC164	NSYBP2016	NSY2SP204	NSYSFD20162D	-	NSYTRIM16SF2D	NSYMP2016
		500	2	NSYSFV20	NSYSFC165	NSYBP2016	NSY2SP205	NSYSFD20162D	-	NSYTRIM16SF2D	NSYMP2016
		600	2	NSYSFV20	NSYSFC166	NSYBP2016	NSY2SP206	NSYSFD20162D	-	NSYTRIM16SF2D	NSYMP2016
2200	400	400	1	NSYSFV22	NSYSFC44	NSYBP224	NSY2SP224	NSYSFD224	-	NSYTRIM4SF	-
		500	1	NSYSFV22	NSYSFC45	NSYBP224	NSY2SP225	NSYSFD224	-	NSYTRIM4SF	-
		600	1	NSYSFV22	NSYSFC46	NSYBP224	NSY2SP226	NSYSFD224	-	NSYTRIM4SF	-
		800	1	NSYSFV22	NSYSFC48	NSYBP224	NSY2SP228	NSYSFD224	-	NSYTRIM4SF	-
	600	400	1	NSYSFV22	NSYSFC64	NSYBP226	NSY2SP224	NSYSFD226	NSYSFD226T	NSYTRIM6SF	NSYMP226
		500	1	NSYSFV22	NSYSFC65	NSYBP226	NSY2SP225	NSYSFD226	NSYSFD226T	NSYTRIM6SF	NSYMP226
		600	1	NSYSFV22	NSYSFC66	NSYBP226	NSY2SP226	NSYSFD226	NSYSFD226T	NSYTRIM6SF	NSYMP226
		800	1	NSYSFV22	NSYSFC68	NSYBP226	NSY2SP228	NSYSFD226	NSYSFD226T	NSYTRIM6SF	NSYMP226
	800	400	1	NSYSFV22	NSYSFC84	NSYBP228	NSY2SP224	NSYSFD228	NSYSFD228T	NSYTRIM8SF	NSYMP228
		500	1	NSYSFV22	NSYSFC85	NSYBP228	NSY2SP225	NSYSFD228	NSYSFD228T	NSYTRIM8SF	NSYMP228
		600	1	NSYSFV22	NSYSFC86	NSYBP228	NSY2SP226	NSYSFD228	NSYSFD228T	NSYTRIM8SF	NSYMP228
		800	1	NSYSFV22	NSYSFC88	NSYBP228	NSY2SP228	NSYSFD228	NSYSFD228T	NSYTRIM8SF	NSYMP228
	1000	400	1	NSYSFV22	NSYSFC104	NSYBP2210	NSY2SP224	NSYSFD2210	NSYSFD2210T	NSYTRIM10SF	NSYMP2210
		500	1	NSYSFV22	NSYSFC105	NSYBP2210	NSY2SP225	NSYSFD2210	NSYSFD2210T	NSYTRIM10SF	NSYMP2210
		600	1	NSYSFV22	NSYSFC106	NSYBP2210	NSY2SP226	NSYSFD2210	NSYSFD2210T	NSYTRIM10SF	NSYMP2210
		800	1	NSYSFV22	NSYSFC108	NSYBP2210	NSY2SP228	NSYSFD2210	NSYSFD2210T	NSYTRIM10SF	NSYMP2210
	1200	400	2	NSYSFV22	NSYSFC124	NSYBP2212	NSY2SP224	NSYSFD22122D	NSYSFD22122DT	NSYTRIM12SF2D	NSYMP2212
		500	2	NSYSFV22	NSYSFC125	NSYBP2212	NSY2SP225	NSYSFD22122D	NSYSFD22122DT	NSYTRIM12SF2D	NSYMP2212
		600	2	NSYSFV22	NSYSFC126	NSYBP2212	NSY2SP226	NSYSFD22122D	NSYSFD22122DT	NSYTRIM12SF2D	NSYMP2212
		800	2	NSYSFV22	NSYSFC128	NSYBP2212	NSY2SP228	NSYSFD22122D	NSYSFD22122DT	NSYTRIM12SF2D	NSYMP2212

(1) Hinges, locking bar catches and handle with 5-mm double-bar insert included.

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Specific accessories overview

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Composition accessories

Panels

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Coupling accessories

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Roofs

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Wall-mounting

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Floor

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Cable entry

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Lifting systems

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Doors

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Locking systems

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Specific accessories overview

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Installation accessories

Mounting acc.

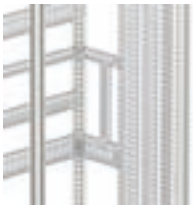
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Telequick system

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Power distribution

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Busbar supports

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Common accessories overview

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Cable management

Cable holding

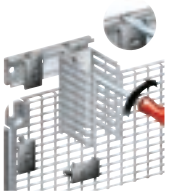
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Cable ducting

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Thermal management

Heaters

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Ventilation

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Cooling units

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Others

Door accessories

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Lighting

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Earthing

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Steel floor-standing enclosures
Accessories

Panels

SF



SF



SF



Characteristics		Side door	External fixing	Internal fixing
		Door for the side of the enclosure, replaces the side panel. Installation directly on the structure of the enclosure, opening 120°. Lock with handle and 5-mm double-bar insert. 4 locking points. Reinforcement frame, cut-out with a pitch of 25 mm. Opening to right or left.	Set of 2 side panels fixed from the outside of the enclosure.	Set of 2 side panels fixed from the enclosure, preventing access by unauthorized persons. Very useful in public spaces.
Material		Steel	Steel	Steel
Finish		Structured finish, epoxy-polyester powder	Structured finish, epoxy-polyester powder	Structured finish, epoxy-polyester powder
Colour		RAL 7035 grey	RAL 7035 grey	RAL 7035 grey
Ingress protection rating		IP55 according to IEC 60529	IP55 according to IEC 60529	IP55 according to IEC 60529
Supply		One side door, four hinges, four catches and handle lock	2 side panels, with sealing gasket and bag of accessories	2 side panels, with sealing gasket and bag of accessories
Height (mm)	**Depth (mm)**	**References**		
1200	400	-	**NSY2SP124**	-
	500	-	**NSY2SP125**	-
	600	**NSYSFD126**	**NSY2SP126**	**NSY2SPI126**
	800	**NSYSFD128**	**NSY2SP128**	-
1400	400	-	**NSY2SP144**	-
	500	-	**NSY2SP145**	-
	600	**NSYSFD146**	**NSY2SP146**	-
	800	**NSYSFD148**	**NSY2SP148**	-
1600	400	-	**NSY2SP164**	-
	500	-	**NSY2SP165**	-
	600	**NSYSFD166**	**NSY2SP166**	-
	800	**NSYSFD168**	**NSY2SP168**	-
1800	400	**NSYSFD184**	**NSY2SP184**	-
	500	**NSYSFD185**	**NSY2SP185**	**NSY2SPI185**
	600	**NSYSFD186**	**NSY2SP186**	**NSY2SPI186**
	800	**NSYSFD188**	**NSY2SP188**	**NSY2SPI188**
	1000	-	-	-
2000	400	**NSYSFD204**	**NSY2SP204**	**NSY2SPI204**
	500	**NSYSFD205**	**NSY2SP205**	**NSY2SPI205**
	600	**NSYSFD206**	**NSY2SP206**	**NSY2SPI206**
	800	**NSYSFD208**	**NSY2SP208**	**NSY2SPI208**
	1000	-	-	-
	1200	-	-	-
2200	400	**NSYSFD224**	**NSY2SP224**	-
	500	**NSYSFD225**	**NSY2SP225**	-
	600	**NSYSFD226**	**NSY2SP226**	**NSY2SPI226**
	800	**NSYSFD228**	**NSY2SP228**	**NSY2SPI228**
	1000	-	-	-

Steel floor-standing enclosures
Accessories

Panels

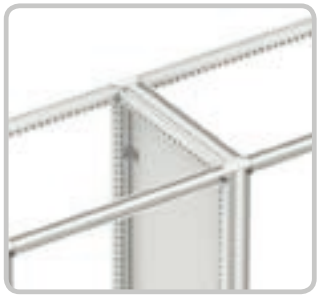
SF


PB502525-26

SF


PB502526-21

SF


PB502588-41

SF

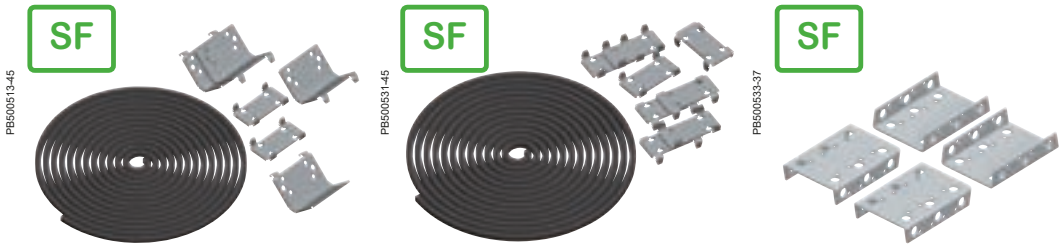

PB500525-22

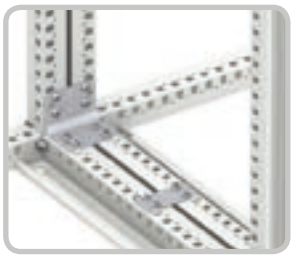
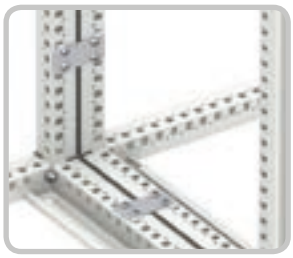
	Quick-fixing side panels	Internal fixing rear panel	Partition panel
	Set of 2 side panels fixed to the outside of the enclosure by clipping locks. No sealing gasket.	Rear panel fixed from the inside of the enclosure, preventing unauthorized personnel from accessing and removing it. Normally used in public spaces.	Partition panel for direct fixing to the structure, guarantees a water/dustproof protection of IP10 between enclosure suites.
	Steel	Steel	Galvanised steel
	Structured finish, epoxy-polyester powder	Structured finish, epoxy-polyester powder	-
	RAL 7035 grey	RAL 7035 grey	-
	IP40 according to IEC 60529	IP55 according to IEC 60529	IP10 according to IEC 60529
	2 side panels and fixing elements	1 rear panel and fixing elements	1 partition panel, sealing gasket and fixing elements
	-	-	-
	-	-	-
	NSY2SPQ126	-	-
	NSY2SPQ128	-	-
	-	-	-
	-	-	-
	NSY2SPQ146	-	-
	NSY2SPQ148	-	-
	-	-	-
	-	-	-
	NSY2SPQ166	-	**NSYPPS166**
	NSY2SPQ168	**NSYBPI168**	**NSYPPS168**
	-	-	**NSYPPS184**
	-	-	**NSYPPS185**
	NSY2SPQ186	-	**NSYPPS186**
	NSY2SPQ188	-	-
	-	**NSYBPI1810**	-
	-	**NSYBPI204**	**NSYPPS204**
	-	-	**NSYPPS205**
	NSY2SPQ206	**NSYBPI206**	**NSYPPS206**
	NSY2SPQ208	**NSYBPI208**	**NSYPPS208**
	-	**NSYBPI2010**	-
	-	**NSYBPI2012**	-
	-	-	-
	-	-	-
	NSY2SPQ226	**NSYBPI226**	**NSYPPS226**
	NSY2SPQ228	**NSYBPI228**	**NSYPPS228**
	-	**NSYBPI2210**	-

Trim cap
Trim cap for external fixing panels, both sides and rear.
Polyamide 6
-
RAL 7035 grey
50 units
Reference
NSYCSP

Steel floor-standing enclosures
Accessories

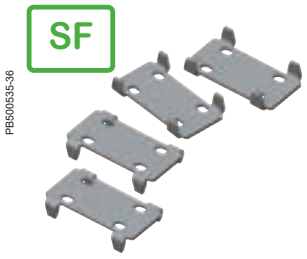
Coupling accessories



Characteristics	Standard coupling Kit	Swing 19" rack coupling Kit	Reinforced coupling
	 PB502552-53	 PB502553-53	 PB502554-14
	Used for joining enclosures side-to-side or depthwide. Fixing from the inside of the enclosure.	Used for joining enclosures equipped with swing 19" rack, side-to-side or depthwise. Fixing from the inside of the enclosures.	It is used together with the coupling kit to reinforce the connection between 2 enclosures when they carry heavy loads. Fixing from the inside of the enclosures.
Material	■ Flat connectors and brackets: zinc-coated steel ■ Sealing gasket: EPDM	■ Flat connectors: zinc-coated steel ■ Sealing gasket: EPDM	Zinc-coated steel
Supply	4 brackets, 2 flat connectors, sealing gasket and fixing elements and 16 caps	8 flat connectors, sealing gasket and fixing elements and 16 caps	4 reinforced connectors and fixing elements
References			
	NSYSFBK	**NSYSFBK19**	**NSYSFBKR**

Steel floor-standing enclosures
Accessories

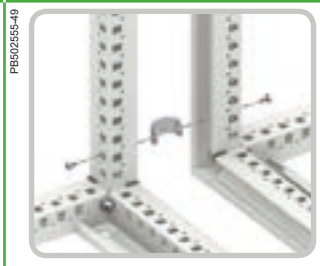
Coupling accessories

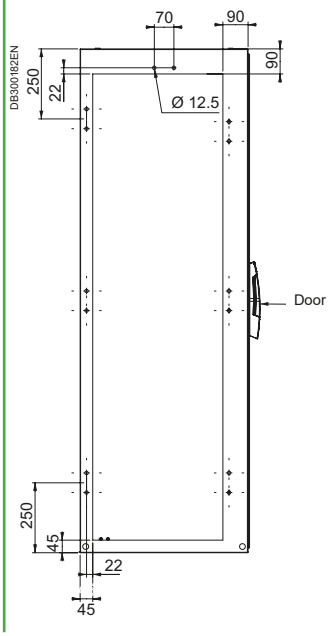








	Quick coupling	Kit for coupling the previous version with Spacial SF	External coupling	Enclosure coupling kit for Spacial SM
				
	Used for quickly joining 2 enclosures. Fixing from the inside of the enclosures.	It is used for coupling an enclosure of a previous version (OLN or Spacial 6000) side-to-side or depthwise with a Spacial SF enclosure. Fixing from the inside of the enclosures.	■ Allows two enclosures to be joined by their structure. ■ To be used with the standard coupling kit in those cases where front and back uprights are not accesibles. ■ The mounting plate or vertical uprights fixed to the back of the enclosure prevent the assembly and dismantling of the kit. ■ It can be combined with the reinforced or the quick coupling kit.	■ Used for joining enclosures side-to-side. ■ Enclosures fixed from the inside.
	Zinc-coated steel	■ Flat connectors and spacers: zinc-coated steel ■ Sealing gasket: EPDM	■ External connectors: zinc-coated steel	3 x 10 sealing gasket: EPDM
	4 flat links and fixing elements	6 flat connectors, sealing gasket and fixing elements	4 external connectors and fixing elements	1 sealing gasket and fixing elements
	NSYSFBKF	**NSYSFBKSH**	**NSYSFBKE**	**NSYSMBK**



Steel floor-standing enclosures
Accessories

Floor

Plinth in kit form

Front and rear kit	Side panels	Complete plinth
PB502546-50	PB502547-40	PB502548-47
Plinth height 100 mm		
PB502549-50	PB502550-31	PB502551-47
Plinth height 200 mm		

The complete plinth consists of two elements, one is the front and rear kit, determined by the length of the enclosure, and the other consists of the side panels, which determine the depth of the enclosure.
The number of side panels required is decided according to the desired plinth combination.

- Robust design.
- The modular plinth system makes it possible to reduce the number of references in stock.

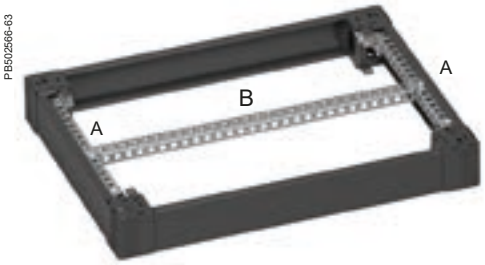
Steel floor-standing enclosures
Accessories

Floor

Examples of solutions



Plinth cross rail fixed in position B
- They are fixed to the plinth cross rails, both the universal and the quick-fixing types.
- Their depth is adjustable with a pitch of 25 mm.
- See universal and quick-fixing cross rail references, page **223**.



Plinth cross rail fixes in position B. It requires 2 cross rails in position A to be fixed.



Steel floor-standing enclosures
Accessories

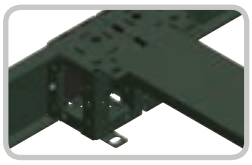
Floor

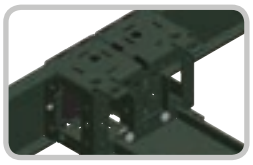
Possibility of joining plinths


PB500545-35

1 - The surfaces between corners are always in contact.
They are joined by an M8 screw and nut, not included in the standard supply.

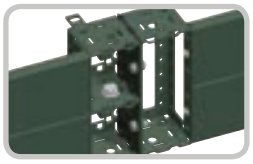
⊕ Longitudinally free space for passing cables.
⊕ Greater rigidity of the resultant assembly unit.


PB500546-35


PB500547-35

2 - By side panels, the M6 screws and caged nuts, not included in the standard supply, reference **NSYSPM6** and reference **NSYCN9M625**, which can be mounted above and/or below.

⊕ Improves rigidity in the depthwise direction during transport.


PB500548-35

3 - Vertical plinth assembly by means of M12 screws and nuts, not included in the standard supply.

⊕ The two heights of corners can be combined.

Possibility of fixing the enclosure to the plinth


PB500549-38

1 - Fixing from the inside of the enclosure by means of an M12 screw, screwing directly into the corner of the plinth.

⊕ Fixing convenience and speed.


PB500550-36

2 - Fixing from the outside of the enclosure with a M12 screw, screwing directly onto the vertical upright.

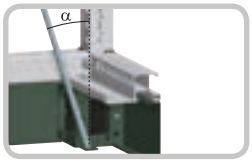
⊕ Maximum rigidity of the enclosure-plinth assembly.

Steel floor-standing enclosures
Accessories

Floor

Possibility of fixing the plinth to the floor

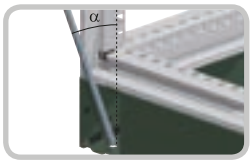
PB500551-22



1 - Fixing from the inside of the enclosure.

The machining angle varies according to the plinth model:
Plinth height 100 mm α = 18°.
Plinth height 200 mm α = 9°.

PB500552-27



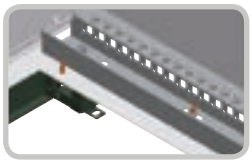
2 - Fixing from the outside of the enclosure, optimum point for the rigidity of the assembly.

The machining angle varies according to the plinth model:
Plinth height 100 mm α = 22°.
Plinth height 200 mm α = 11°.

3 - It is also possible to use floor-fixing supports, reference **NSYSGF**, to fix the corner or the panel and the corner to the floor.

The corners of the ends can be rotated in the event of needing to remove the side panels of the plinth and/or to obtain access to the fixing outside the floor, when the set is installed against the wall.

PB500553-33

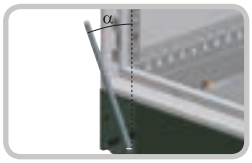


Fixing the enclosure to the plinth

Fixing from the inside of the enclosure by means of an M12 screw, screwing directly into the corner of the plinth.

⊕ Fixing convenience and speed.

PB500554-24

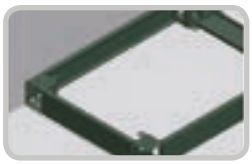


Fixing the enclosure to the ground

Fixing from the outside of the enclosure, optimum point for the rigidity of the assembly.

The machining angle varies according to the plinth model:
Plinth height 100 mm α = 22°.
Plinth height 200 mm α = 11°.

PB500555-33

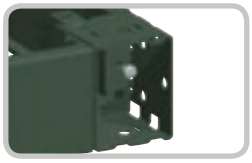


Enclosure against a wall

Thanks to the design of the corners, when the enclosure is installed against the wall, the following is possible:
- to remove the side panels (turning back corners),
- to access the external fixing to the floor.

It is also possible to use floor-fixing supports, reference **NSYSGF**, to fix the corner or the panel and the corner to the floor.

PB500556-23



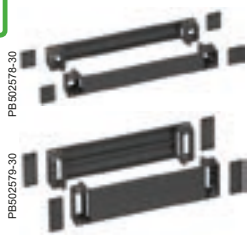
Assembly of the plinth panels

The panels are fixed with an M6 screw to the corner, included in the standard supply of the side panels.
The front and rear panels are delivered mounted on the corners.

Steel floor-standing enclosures
Accessories

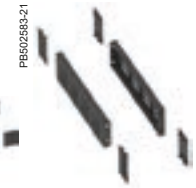
SM SF

Floor



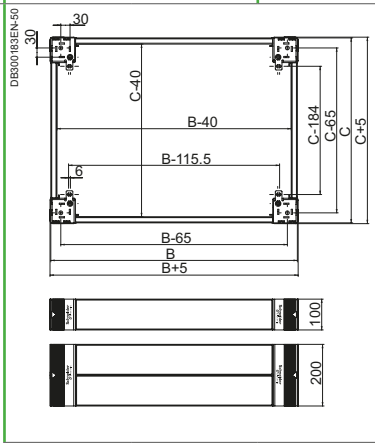


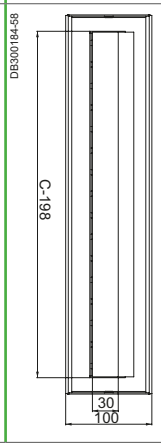






Characteristics	Front plinth	Plinth side panels	Ventilated front plinth	Ventilated side panels	Panels with brush
	The front and rear of the plinth consists of 4 corners with 2 or 4 panels.	They are fixed to the corner of the plinth by 2 fixing screws.	The front and rear of the ventilated plinth is made up of 4 corners with 2 front panels.	They are fixed to the corner of the plinth by fixing screws.	They allow the entry and fixing of cables inside the enclosure, through the plinth.
Material	Folded sheet steel, corner with a thickness of 25/10e mm	Folded sheet steel	Folded sheet steel, corner with a thickness of 25/10e mm	Folded sheet steel	Folded sheet steel
Finish	Structured finish, epoxy-polyester powder	Structured finish, epoxy-polyester powder	Structured finish, epoxy-polyester powder	Structured finish, epoxy-polyester powder	Structured finish, epoxy-polyester powder
Colour	RAL 7022 grey	RAL 7022 grey	RAL 7022 grey	RAL 7022 grey	RAL 7022 grey
Ingress protection rating	IP30 according to IEC 60529	IP30 according to IEC 60529	IP20 according to IEC 60529	IP20 according to IEC 60529	IP20 according to IEC 60529
Mechanical protection rating	IK10 according to IEC 62262	IK10 according to IEC 62262	IK10 according to IEC 62262	IK10 according to IEC 62262	IK10 according to IEC 62262
Supply	■ Height 100 mm: 4 corners, 2 panels (front and rear), 4 corner covers and fixing elements ■ Height 200 mm: 4 corners, 4 panels (2 front and 2 rear), 4 corner covers and fixing elements	■ Height 100 mm: 2 side panels, 4 corner covers and fixing elements ■ Height 200 mm: 4 side panels (height of 100 mm, 2 for each side), 4 corner covers and fixing elements	■ Height 100 mm: 4 corners, 2 ventilated panels (front and rear), 4 corner covers and fixing elements	■ Height 100 mm: 2 ventilated side panels, 4 corner covers and fixing elements	■ Height 100 mm: 2 panels with brushes, 4 corner covers and fixing elements
References					
Width (mm) (B)	**100 mm** / **200 mm**		**100 mm**		
300	**NSYSPF3100** / **NSYSPF3200**	-	-	-	-
400	**NSYSPF4100** / **NSYSPF4200**	-	-	-	-
600	**NSYSPF6100** / **NSYSPF6200**	-	**NSYSPFV6100**	-	-
800	**NSYSPF8100** / **NSYSPF8200**	-	**NSYSPFV8100**	-	-
1000	**NSYSPF10100** / **NSYSPF10200**	-	-	-	-
1200	**NSYSPF12100** / **NSYSPF12200**	-	-	-	-
1600	**NSYSPF16100** / **NSYSPF16200**	-	-	-	-
1800	- / -	-	-	-	-
2400	- / -	-	-	-	-
Depth (mm) (C)		**100 mm** / **200 mm**		**100 mm**	**100 mm**
300	-	**NSYSPS3100** / **NSYSPS3200**	-	-	-
400	-	**NSYSPS4100** / **NSYSPS4200**	-	-	-
500	-	**NSYSPS5100** / **NSYSPS5200**	-	-	-
600	-	**NSYSPS6100** / **NSYSPS6200**	-	**NSYSPV6100**	**NSYSPB6100**
800	-	**NSYSPS8100** / **NSYSPS8200**	-	**NSYSPV8100**	**NSYSPB8100**
1000	-	- / -	-	-	-





Stainless-steel plinths (standard plinths pages 128 and 129, ventilated plinths page 379) are compatible with steel floor-standing enclosure SM and SF using an earthing cable reference NSYEL226D13 (description page 278) to be ordered separatly.

Steel floor-standing enclosures
Accessories

Floor







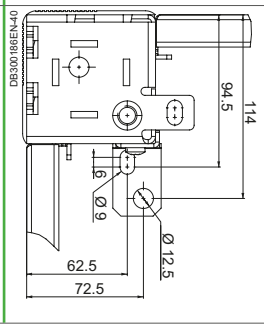


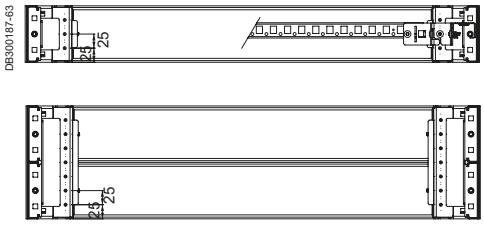






Characteristics	Fixing to the floor	Fixing to the floor by fixing points of previous version (OLN/CMO or Spacial 6000 and 18500)	Plinth cross-rail support	Plinth cross rails	
	Piece for fixing the plinth to the floor in the event of not being able to use the drillholes made in the plinth.	Pieces that reproduce the floor-fixing points of the previous plinth.	Support for fixing a cross rail inside the plinth.	They are fixed across the width and/or depth between the corners of the plinth. The plinth cross-rail supports are required for its assembly.	
Material	Steel	Steel	Steel	Steel	
Finish	Zinc-coated	Zinc-coated	Zinc-coated	Zinc-coated	
Supply	4 pieces, fixing elements not supplied	4 pieces, fixing elements not supplied	12 pieces and fixing elements	2 cross rails and fixing elements	
References					
Width (mm) (B)			**Reference by unit** **Order by multiples of 12** (12, 24, 36…)	**Cross rails** **1 row (40)**	**3 rows (90)**
300	**NSYSGF**	**NSYOL6GF**	**NSYSPCR**	-	-
400				**NSYSUCR4030**	**NSYSUCR9030**
600				**NSYSUCR4050**	**NSYSUCR9050**
800				**NSYSUCR4070**	**NSYSUCR9070**
1000				**NSYSUCR4090**	**NSYSUCR9090**
1200				**NSYSUCR40110**	**NSYSUCR90110**
1600				**NSYSUCR40150**	**NSYSUCR90150**
1800				-	-
2400				-	-
Depth (mm) (C)				**1 row (40)**	**3 rows (90)**
500	-	-	-	**NSYSUCR4040**	**NSYSUCR9040**





Floor



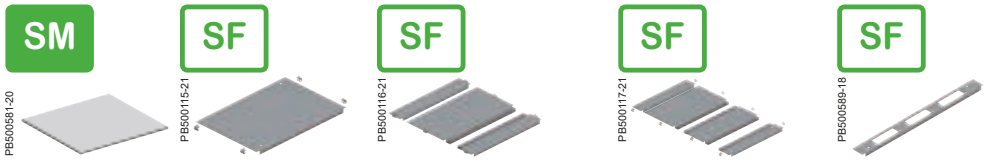




Fixing options			
Characteristics	**Screw M6**	**Caged nuts**	**Levelling the plinth**
	Torx T30 M6 x 10 screws.	M6 caged nuts.	The plinth allows levelling by means of an M12 screw.
Supply	50	100	-
References			
	NSYSPM6	**NSYCN9M625**	**NSYSPLK**

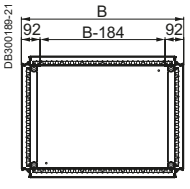
Steel floor-standing enclosures
Accessories

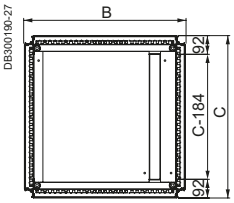
Cable entries



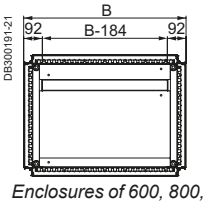
Characteristics	Plain cable-gland plate	Plain cable-gland plate	With 1 entry	With 2 entries	Cable-gland plate for connectors
	The design of the compact cable gland plate, coupled with the use of the sealing gasket **NSYCEK** enable the maximum dust/water tightness.		Facilitates the entry of cables thanks to a longitudinal opening.	Cable entry for very deep enclosures (600 and 800 mm). Two longitudinal openings allowing a large number of cables through.	Adapter plate to install cable entry plates for connectors, see page 257. To be used together with cable-gland plates, 1 or 2 entries, adding or replacing one of the parts.
Material	Steel painted with epoxy-polyester resin, RAL 7035	Galvanised steel			Galvanised steel
Thicknesses	10/10e mm	15/10e mm			15/10e mm
Supply	Plain plate and fixing elements	Plain plate and fixing elements	Plate with 1 entry; self-extinguishing polyurethane adhesive gasket with cross-section of 15 x 25 mm (guarantees good sealing) and fixing elements	1 plate with 2 entries; polyurethane adhesive gasket with cross-section of 15 x 25 mm (guarantee good sealing) and fixing elements	Plate and fixing elements

Width (B)	Depth (C)	References				No. of cuts	References
300	500	-	**NSYEC35**	**NSYEC351**	-	-	-
	600	-	**NSYEC36**	**NSYEC361**	-		
400	400	-	**NSYEC44**	**NSYEC441**	-	-	-
	500	-	**NSYEC45**	**NSYEC451**	-		
	600	-	**NSYEC64**	**NSYEC461**	-		
	800	-	**NSYEC84**	**NSYEC481**	-		
600	300	**NSYSMEC63**	-	-	-	2	**NSYDCE6**
	400	**NSYSMEC64**	**NSYEC64**	**NSYEC641**	-		
	500	**NSYSMEC65**	**NSYEC65**	**NSYEC651**	-		
	600	**NSYSMEC66**	**NSYEC66**	**NSYEC661**	**NSYEC662**		
	800	-	**NSYEC68**	**NSYEC681**	**NSYEC682**		
800	300	**NSYSMEC83**	-	-	-	3	**NSYDCE8**
	400	**NSYSMEC84**	**NSYEC84**	**NSYEC841**	-		
	500	**NSYSMEC85**	**NSYEC85**	**NSYEC851**	-		
	600	**NSYSMEC86**	**NSYEC86**	**NSYEC861**	**NSYEC862**		
	800	-	**NSYEC88**	**NSYEC881**	**NSYEC882**		
1000	300	**NSYSMEC103**	-	-	-	4	**NSYDCE10**
	400	**NSYSMEC104**	**NSYEC104**	**NSYEC1041**	-		
	500	**NSYSMEC105**	**NSYEC105**	**NSYEC1051**	-		
	600	-	**NSYEC106**	**NSYEC1061**	**NSYEC1062**		
	800	-	**NSYEC108**	**NSYEC1081**	**NSYEC1082**		
1200	300	2 x **NSYSMEC63**	-	-	-	4	**NSYDCE12**
	400	2 x **NSYSMEC64**	**NSYEC124**	**NSYEC1241**	-		
	500	2 x **NSYSMEC65**	**NSYEC125**	**NSYEC1251**	-		
	600	2 x **NSYSMEC66**	**NSYEC126**	**NSYEC1261**	**NSYEC1262**		
	800	-	**NSYEC128**	**NSYEC1281**	**NSYEC1282**		
1600	400	2 x **NSYSMEC84**	**NSYEC164**	**NSYEC1641**	-	-	-
	500	2 x **NSYSMEC85**	**NSYEC165**	**NSYEC1651**	-		
	600	2 x **NSYSMEC86**	**NSYEC166**	**NSYEC1661**	**NSYEC1662**		

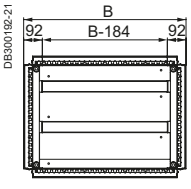




Enclosures of 300 and 400 mm width.

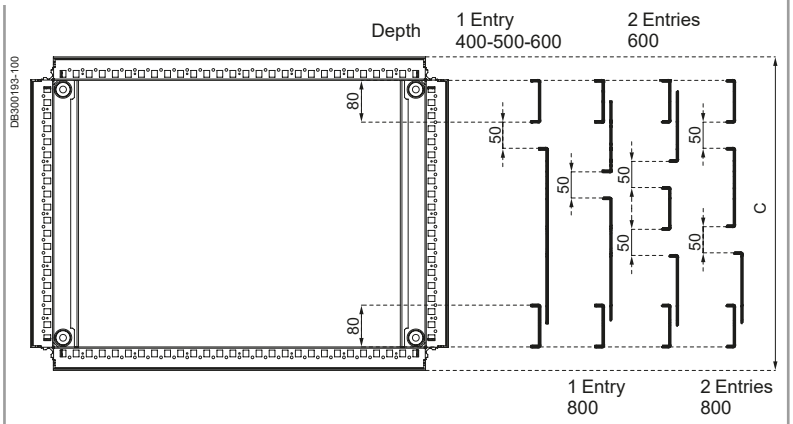


Enclosures of 600, 800, 1000 and 1200 mm width.



Steel floor-standing enclosures
Accessories

Possibilities of cable gland-plate adjustment



Gaskets

SF



SM



SF



SF

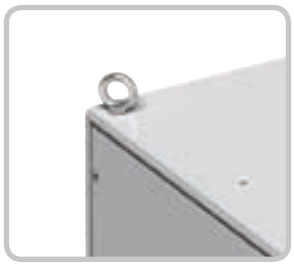


Dimensions (mm)	Brush-type cable-entry gasket		Foam cable-entry gasket	Sealing gasket
	For plates with 1 or 2 cable entries. The cables can have different diameters.	Brush-type gasket for installation on the cable-gland plates. The cables can have different diameters.	Spare gasket, made from self-extinguishing expanded polyurethane with a cross-section of 15 x 25 mm, for fixing on cable-gland plates.	Sealing gasket, made from ethylene-propylene with a cross-section of 3 x 10 mm, for mounting on the perimeter of the cable-gland plates. Adhesive to guarantee good sealing.
Width (mm)	**References**			**Reference**
400	**NSYBCE4**	-	**NSYCEJ**	**NSYCEK**
600	**NSYBCE6**	**NSYSMBCE6**		
800	**NSYBCE8**	**NSYSMBCE8**		
1000	**NSYBCE10**	**NSYSMBCE10**		
1200	**NSYBCE12**	2 x **NSYSMBCE6**		
1600	**NSYBCE16**	2 x **NSYSMBCE8**		

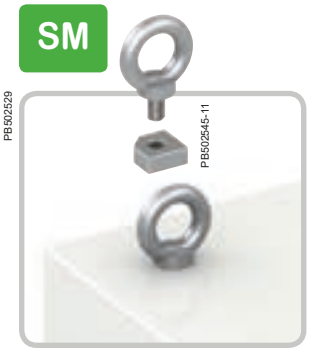
Steel floor-standing enclosures
Accessories

Lifting systems

SF

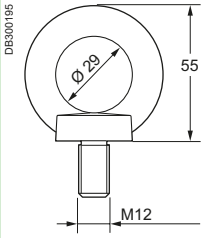
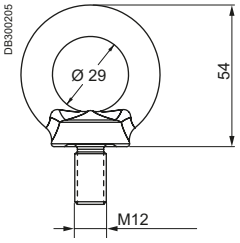
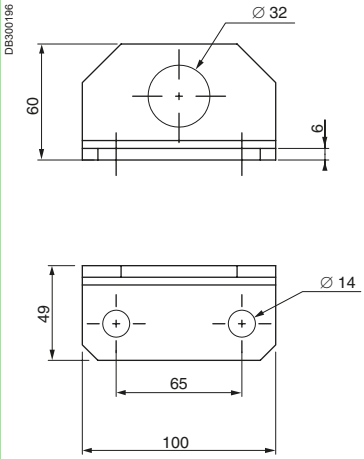


SM



SF



Characteristics	Eyebolts		Lifting brackets
Maximum amount of assembled enclosures to be lifted	**1**		**2**
	Set of M12 lifting eyebolts, which screw directly into the structure of the enclosure, in the axis of the uprights.	Set of M12 lifting eyebolts, fixed to the enclosure by fixing nuts.	Set of lifting and transport brackets, fixed to the structure between two coupled enclosures, in the axis of the uprights.
Material	Galvanised cast steel	Galvanised cast steel	Zinc-coated steel
Maximum load	340 kg	340 kg	500 kg
Supply	4 eyebolts	4 eyebolts and 4 fixing nuts	4 brackets and fixing elements (M12 screws)
References			
	NSYSFEB	**NSYSMEB**	**NSYSFELB**
			

Steel floor-standing enclosures
Accessories

Lifting systems

SF

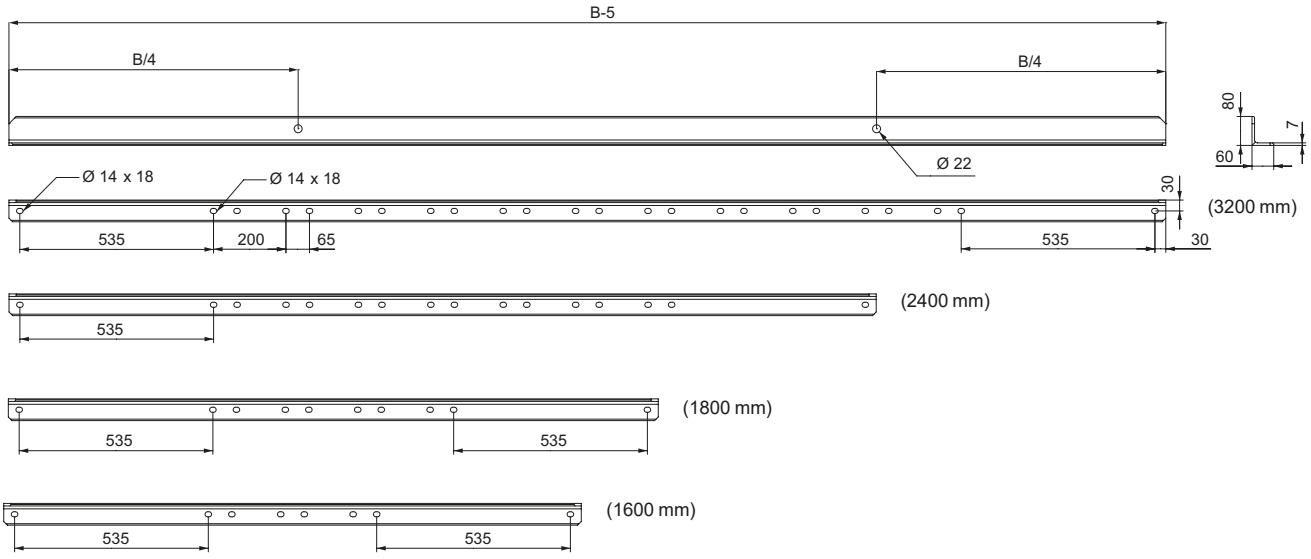
PB502531-70



Lifting bar

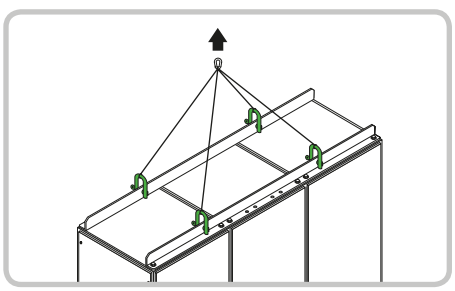
2	3	4	5
Set of bars for lifting and transporting enclosures suites. They are fixed to the structure of the enclosure, in the axis of the uprights.			
Steel			
2000 kg (length 1600 mm)	3000 kg (length 1800 mm)	3000 kg (length 2400 mm)	4000 kg (length 3200 mm)
2 lifting bars and fixing elements (M12 screws)			
NSYSFTB16	**NSYSFTB18**	**NSYSFTB24**	**NSYSFTB32**

DB300197



Recommended lifting points

DB300769



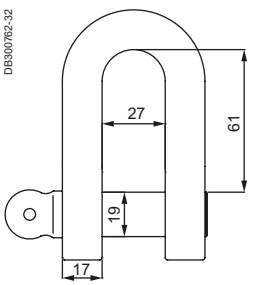
Shackles

Lifting bar shackles.

- **Maximum load:** 1600 kg.
- **Supply:** 4 shackles.

Reference
NSYSFTBS

DB300762-32



Steel floor-standing enclosures
Accessories

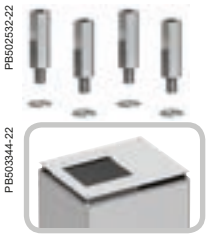
Roof

SM SF

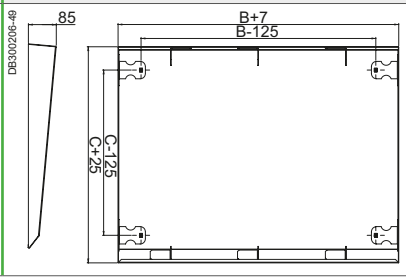


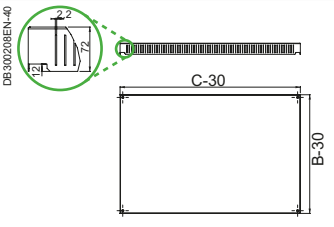
SF

SF



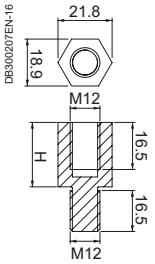
Characteristics		Canopy	Ventilated roof
		Provides excellent protection against splashes from rainwater. Canopy mandatory for outdoor use, not compatible with the simultaneous use of lifting elements. Spacial SF: it is possible to use a single canopy with combinations of modular enclosures (example of a 1600 mm canopy with two coupled 800-mm enclosures).	Roof providing natural ventilation for the enclosure, with IP30 protection. Height: an extra 63 mm in relation to the structure.
Material		Galvanised steel	Steel
Finish		Structured finish, epoxy-polyester powder	Structured finish, epoxy-polyester powder
Colour		RAL 7035 grey	RAL 7035 grey
Fixing		■ Spacial SF: fixing by drill holes to be made in the roof of the enclosure ■ Spacial SM: fixing by drill holes already made in the roof	They are screwed onto the structure, at the roof fixing point
Supply		One canopy, drilling template and fixing elements	One ventilated roof and four elevators
Width (B) (mm)	**Depth (C) (mm)**	**References**	
600	300	**NSYSC630**	-
	400	**NSYSC640**	-
	500	**NSYSC650**	-
	600	**NSYSC660**	**NSYSVR606**
	800	-	**NSYSVR608**
800	300	**NSYSC830**	-
	400	**NSYSC840**	-
	500	**NSYSC850**	-
	600	**NSYSC860**	**NSYSVR806**
	800	-	**NSYSVR808**
1000	300	**NSYSC1030**	-
	400	**NSYSC1040**	-
	500	**NSYSC1050**	-
	600	**NSYSC1060**	-
1200	300	**NSYSC1230**	-
	400	**NSYSC1240**	-
	500	**NSYSC1250**	-
	600	**NSYSC1260**	-
1600	400	**NSYSC1640**	-
	500	**NSYSC1650**	-
	600	**NSYSC1660**	-
1800	500	**NSYSC1850**	-
	600	**NSYSC1860**	-
2000	500	**NSYSC2050**	-
	600	**NSYSC2060**	-
2400	500	**NSYSC2450**	-
	600	**NSYSC2460**	-





Ventilation elevators for roof

		Allows the roof to be raised, providing natural ventilation. They are screwed onto the structure, at the roof fixing point.
Material		Zinc-coated steel
Supply		4 elevators
Height (H) (mm)	**IP**	**References**
23	10	**NSYRE26**
60	00	**NSYRE60**

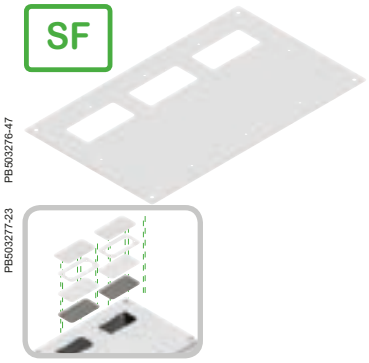


Steel floor-standing enclosures
Accessories

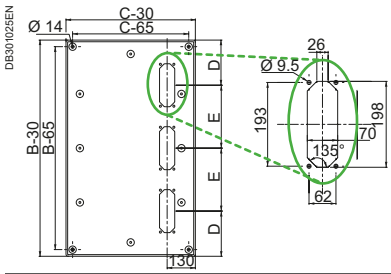
Roof

SF

SF



Characteristics					FL21 cable-entry roof	Cable-entry roof
					Roof prepared for installing FL21 cable-entry plates.	Roof prepared for installing cable-entry plates.
Material					Steel	Steel
Finish					Structured finish, epoxy-polyester powder	Structured finish, epoxy-polyester powder
Colour					RAL 7035 grey	RAL 7035 grey
Supply					One cut-out roof for the FL21 cable-entry plates	One cut-out roof for the cable-entry plates
Dimensions (mm)		**Centre-to-centre distance (mm)**		**No. of entries**		
Width (B)	**Depth (C)**	**D**	**E**		**References**	
600	500	248	-	1	**NSYSFLR65**	**NSYSRCE650**
	600				**NSYSFLR66**	**NSYSRCE660**
800	500	208	-	2	**NSYSFLR85**	-
	600				**NSYSFLR86**	-
	500	220	-		-	**NSYSRCE850**
	600				-	**NSYSRCE860**
1000	500	208	290	3	**NSYSFLR105**	-
	600				**NSYSFLR106**	-
	500	220	285		-	**NSYSRCE1050**
	600				-	**NSYSRCE1060**

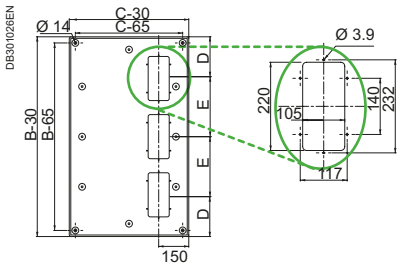


FL21 cable-entry membranes (1)

Membrane plate for watertight cable entries made from insulating material (fireresistance level UL 94 V-0).
Direct installation in the FL21 cable-entry plate adapter.
4 models: plain plate and membrane plates from 7 to 35 cable entries.
- **Material:** grey plastic.
- **Ingress protection rating:** IP66 according to IEC 60529.
- **Supply:** membrane plate and fixing elements.

No. of cable entries	References
Plain	**NSYAECPFLBP** (2)
7	**NSYAECPFLT7**
25	**NSYAECPFLT25**
35	**NSYAECPFLT35**

(1) For more information, see page 257.
(2) Metallic plate.



Standard cable-entry plate (1)

Thickness	Reference
15/10e mm	**NSYTLC**

FlexiCable

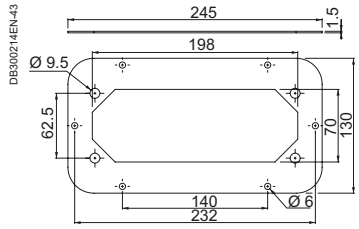
Reference
NSYTLCME

Aluminium cable-entry plate

Thickness	Reference
30/10e mm	**NSYTLCU**

Adapter for FL21 cable-entry plate

Thickness	Reference
15/10e mm	**NSYTLCFL**



Steel floor-standing enclosures
Accessories

Wall fixing

SF

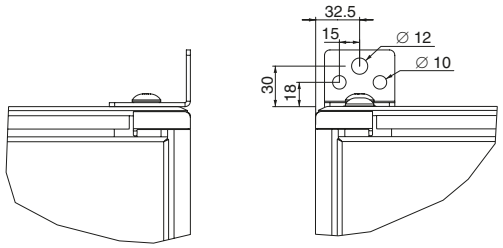
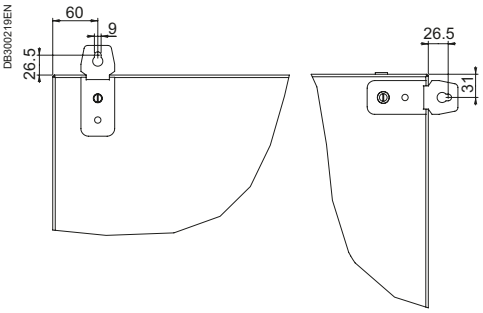
PB503339-47



SM

PB502563-50



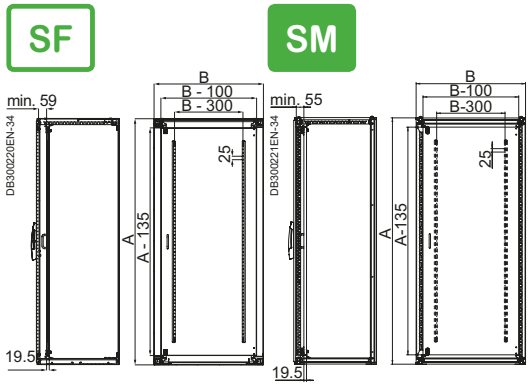
Characteristics	Wall fixing support	
	Supports for fixing the enclosure on the wall and preventing it from turning over. They cannot be used for hanging the enclosure. They are installed using the roof mounting screws.	Supports for fixing the enclosure on the wall and preventing it from turning over. They are installed using the drill holes in the back of the enclosure. Enclosure fixed from the outside.
Material	Zinc-coated steel	Zinc-coated steel
Supply	2 supports	2 supports
References		
	NSYSFWFIX	**NSYSMWFIX**
	DB301027EN 	DB300219EN 

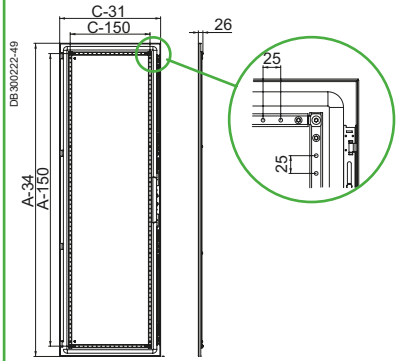
Steel floor-standing enclosures
Accessories

Doors



Characteristics		Inner door	Door
		■ Door for additional protection. Prevents the switchgear from being manipulated by unauthorised personnel. ■ Allows the installation of switchgear mounted directly on the door. ■ Mounting on the top and bottom frame of the enclosure. ■ Depth adjustable with a pitch of 25 mm, from the first fixing point. ■ Opening to right or left, with two locks, 3-mm double-bar, with central handle. ■ Reinforcement frames on the rear, cut-outs with a 25-mm pitch, for equipping the door. ■ Maximum acceptable load: 15 kg. ■ Inner doors can be mounted in our stainless steel floor-standing enclosures (SFX and SMX).	■ Door for all sides of the enclosure, replaces the side panel. ■ Installation directly on the structure of the enclosure, opening 120°. ■ Lock with handle and 5-mm double-bar insert. ■ 4 locking points. ■ Reinforcement frame, cut-out with a pitch of 25 mm. ■ Opening to right or left.
Material		Steel	Steel
Finish		Structured finish, epoxy-polyester powder	Structured finish, epoxy-polyester powder
Colour		RAL 7035 grey	RAL 7035 grey
Supply		One inner door and fixing elements	One side door, four hinges, four catches and handle lock
H (mm)	**W/D (mm)**	**References**	
1200	600	-	**NSYSFD126**
	800	-	**NSYSFD128**
1400	600	-	**NSYSFD146**
	800	-	**NSYSFD148**
1600	600	**NSYID166**	**NSYSFD166**
	800	**NSYID168**	**NSYSFD168**
1800	400	-	**NSYSFD184**
	500	-	**NSYSFD185**
	600	**NSYID186**	**NSYSFD186**
	800	**NSYID188**	**NSYSFD188**
	1000	**NSYID1810**	-
2000	300	-	**NSYSFD203**
	400	-	**NSYSFD204**
	500	-	**NSYSFD205**
	600	**NSYID206**	**NSYSFD206**
	700	-	**NSYSFD207**
	800	**NSYID208**	**NSYSFD208**
	1000	**NSYID2010**	-
2200	400	-	**NSYSFD224**
	500	-	**NSYSFD225**
	600	**NSYID226**	**NSYSFD226**
	800	**NSYID228**	**NSYSFD228**





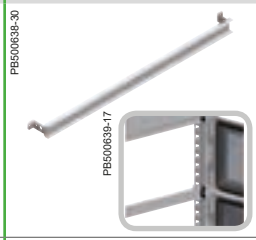
Steel floor-standing enclosures
Accessories

Doors

Partials doors

	Front Fix panel for modularity		Frontal partial doors		Frontal Transparent partial doors	
						
	Width: 600 mm	**Width: 800 mm**	**Width: 600 mm**	**Width: 800 mm**	**Width: 600 mm**	**Width: 800 mm**
Characteristics	■ Top & bottom fix panel to obtain modularity required to install partial doors. It is needed to purchase NSYMIC6 & NSYMIC8. ■ H100 mm fixed panels are delivered as standard for the compartmentalised enclosure, Spacial SFM. Possibility to order it separately for Spacial SF framework in kit supply. ■ Available in 2 heights (mm).		■ Plain partial door with lock 5 mm double-bar insert. ■ They are fixed to the uprights of the framework by means of hinges. ■ Drilling template for uprights ref. **NSYMDT** (Only 1 drilling template by order is needed). ■ Opening to right or left. ■ 1, 2 or 4 locking points according different heights. ■ Possibility to replace locking insert (see page 110). ■ Available in following heights (mm).		■ Glazed (Securit glass) partial door with lock 5 mm double-bar insert. ■ They are fixed to the uprights of the framework by means of hinges. ■ Opening to right or left. ■ 1 or 2 locking points according different heights. ■ Available in following heights (mm).	
Ingress protection rating	IP54 according to IEC 60529		IP54 according to IEC 60529		IP54 according to IEC 60529	
Height (mm)	**References**					
100	**NSYMFP2M6**	**NSYMFP2M8**	-	-	-	-
150	-	-	**NSYMPD3M6**	**NSYMPD3M8**	-	-
200	-	-	**NSYMPD4M6**	**NSYMPD4M8**	**NSYMPD26T**	**NSYMPD28T**
250	**NSYMFP5M6**	**NSYMFP5M8**	**NSYMPD5M6**	**NSYMPD5M8**	-	-
300	-	-	**NSYMPD6M6**	**NSYMPD6M8**	-	-
400	-	-	**NSYMPD8M6**	**NSYMPD8M8**	**NSYMPD46T**	**NSYMPD48T**
450	-	-	**NSYMPD9M6**	**NSYMPD9M8**	-	-
600	-	-	**NSYMPD12M6**	**NSYMPD12M8**	**NSYMPD66T**	**NSYMPD68T**
800	-	-	**NSYMPD16M6**	**NSYMPD16M8**	**NSYMPD86T**	**NSYMPD88T**
900	-	-	**NSYMPD18M6**	**NSYMPD18M8**	-	-
1000	-	-	**NSYMPD20M6**	**NSYMPD20M8**	**NSYMPD106T**	**NSYMPD108T**
1200	-	-	**NSYMPD24M6**	**NSYMPD24M8**	-	-

Other external claddings for multi-purpose applications

	Intermediate Crossbar	Folding panel	Control desk
			
Characteristics	■ Mounted between partial doors or between doors and control desk, guaranteeing IP54 according to IEC 60529. ■ Crossbar with direct fixing to the structure. ■ Available in 2 widths (mm).	■ H300 mm horizontal panel, hinged at the top. ■ Guarantees protection of the sets of bars. ■ Opening angle: 110º. ■ It is installed together with partial doors to create the modularity of the enclosure. ■ 2 locking points, 5 mm double-bar insert. ■ Available in 2 widths (mm).	■ Support for human-machine dialogue. ■ H400 mm Control desk is installed together with partial doors to create the modularity of the enclosure. ■ 2 locking points, 5 mm double-bar insert. ■ Available in 2 widths (mm).
Supply	2 crossbars with fixing elements	-	-
Width (mm)	**References**		
600	**NSYMIC6**	**NSYCDP36**	**NSYMCOD264**
800	**NSYMIC8**	**NSYCDP38**	**NSYMCOD284**

To make separation (form 2b to form 4b), please refer to Spacial SFM product.

Steel floor-standing enclosures
Accessories

SF SM

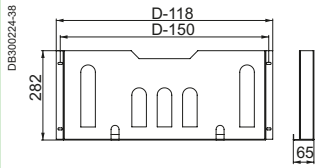
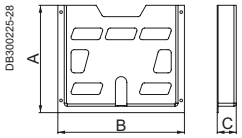
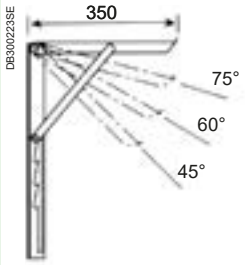
Door accessories









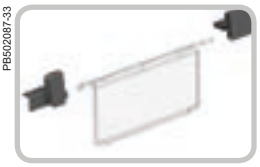
Characteristics				Metal document pocket	Plastic document pocket	Folding support tray
				Direct mounting on the reinforcement frame of the door. Adjustable depth with a pitch of 25 mm.	Attachment by adhesive tape.	Adjustable horizontal support for laptop computers, documents or any other element. Installation on the reinforcement frame of the door. Can also be installed on the door cross rails, see page **273**. 4 positions: 45°, 60°, 75° and 90°.
Material				Steel	Polystyrene (PS)	Steel
Finish				Structured finish, epoxy-polyester powder	-	Structured finish, epoxy-polyester powder
Colour				RAL 7035 grey	RAL 7035 grey (NSYDPA4: RAL9001)	RAL 7035 grey
Maximum load				-	-	30 kg
Supply				1 metal document pocket and fixing elements	1 plastic document pocket	1 folding support tray and fixing elements
Dimensions (mm)				**References**		
Doc. format	**A**	**B**	**C**			
A5	174	188	22	-	**NSYDPA5**	-
A4	230	247	23	-	**NSYDPA4**	-
A4	234	278	40	-	**NSYDPA44**(1)	-
A3	285	476	35	-	**NSYDPA3**	-
Width (D)						
500				-	-	**NSYSDT5**
600				**NSYSDP6M**	-	**NSYSDT6**
800				**NSYSDP8M**	-	**NSYSDT8**
						

** Not compatible with 19" chassis or modular distribution.*

Steel floor-standing enclosures
Accessories

SF SM

Door accessories











Characteristics		180° hinge	Door-centring caster	Trim plate	Customisable label holder
		Hinge with opening of 180°. Intended to replace the 120° hinges installed as standard. They are compatible with the transparent door and can be installed even with enclosure suites.	Allows the door to be raised when closing. Direct mounting on the reinforcement frame.	Trim plate for Spacial SF and SM plain and transparent doors. The Schneider Electric logo can be placed on the left or on the right.	Label holder to be placed on trim plate to customise the enclosure. Delivered with a printable blank label.
Material		Aluminium and zamak	-	Plastic	Polycarbonate (PC)
Finish		Painted RAL 9005 black	-	-	-
Maximum load		60 kg on the door	90 kg	-	-
Supply		4 hinges, template for making the drill holes and fixing elements	One centring roller and fixing elements	1 trim plate for single doors, 2 trim plates for double doors	5 label holders
		References			
		NSYSH180 / NSYSH180NC	**NSYSDRC**	-	**NSYCBLSF**
Width (mm)	**No. of doors**	**References**			
300	1	-	-	**NSYTRIM3SF**	-
400	1	-	-	**NSYTRIM4SF**	-
500	1	-	-	**NSYTRIM5SF**	-
600	1	-	-	**NSYTRIM6SF**	-
700	1	-	-	**NSYTRIM7SFP**	-
800	1	-	-	**NSYTRIM8SF**	-
	2	-	-	**NSYTRIM8SF2D**	-
1000	1	-	-	**NSYTRIM10SF**	-
	2	-	-	**NSYTRIM10SF2D**	-
1200	2	-	-	**NSYTRIM12SF2D**	-
1600	2	-	-	**NSYTRIM16SF2D**	-





	Door switch	
	For Spacial SF & SFX	**For Spacial SM**
See page	272	272
Supply	1	1
References		
	NSYDCM20	**NSYMDCM20**

Steel floor-standing enclosures
Accessories

Locking system





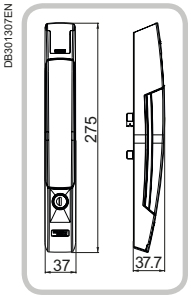




Characteristics	Padlock locking	CNOMO kit
	Padlock locking system, for installation in all the handles of the Spacial SF and Spacial SM enclosures. Bolt with 7.5-mm drill hole.	Locking system to be installed on the central locking bar of the door. It works as a locking bar immobiliser, preventing the handle from closing while the door is still open. It is compatible with all handle lock versions, except the flat lock and the small flat lock.
Supply	One cut-out handle, bolt for padlock and bolt fixing screw	One mechanism and fixing elements
References		
	NSYBLKH123	**NSYCNOH123**

New



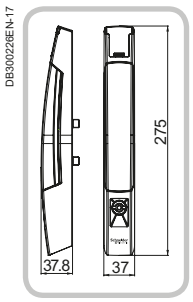


Characteristics	Push button handle with 3524E key
	■ Push button handle with 3524E key for Spacial SF and Spacial SM enclosures. ■ Locking and unlocking by key and opening by pushing the insert.
Material	Handle: polyamide 6 with 30% fibreglass
Color	RAL 9005
Fire resistant	650°C
Supply	Push button handle, two 3524E keys and fixing elements (insert included)
Reference	
	NSYSFHPB

Steel floor-standing enclosures
Accessories

Locking system





Characteristics	Handle for shape inserts and cylindrical barrels
	Easy to change the opening direction of the door, right/left. Space reserved for enclosure identification, 21 x 27 mm, protected by a label frame.
Material	Handle: polyamide 6 with 30 % fibreglass, RAL 9005 colour
Mechanical protection rating	IK10 according to IEC 62262
Fire resistance	650°C
Supply	Standard handle and fixing elements (insert not included)
References	
	NSYSFHS1

Accessories



Shape inserts



Push button



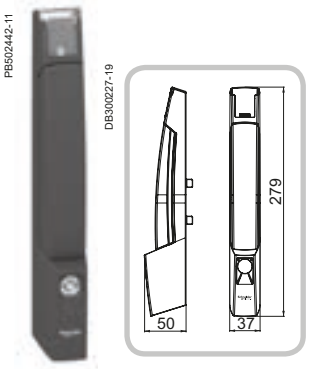
Cylindrical barrels

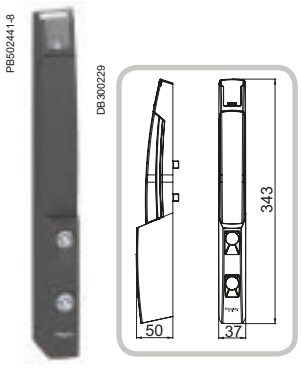
Shape inserts	References
6-mm square insert	**NSYINS61**
Female 6-mm square insert	**NSYINS6G1**
7-mm square insert	**NSYINS71**
8-mm square insert	**NSYINS81**
Female 8-mm square insert	**NSYINS8G1**
8-mm square insert with slot	**NSYINS8H1**
6.5-mm triangular insert	**NSYINT61**
7-mm triangular insert	**NSYINT71**
8-mm triangular insert	**NSYINT81**
9-mm triangular insert	**NSYINT91**
10-mm triangular insert	**NSYINT101**
10-mm keyless hexagonal insert	**NSYINH31**
3-mm double-bar insert	**NSYINDB31**
5-mm double-bar insert	**NSYINDB51**
Daimler Benz insert	**NSYINBENZ1**
Fiat insert	**NSYINFIAT1**
Keyless USA slot insert	**NSYINUSA1**
Keyless 2 x 4 slot insert	**NSYIN241**
Crown insert	**NSYINCW1**
Push button	**Reference**
Push button	**NSYINPULS1**

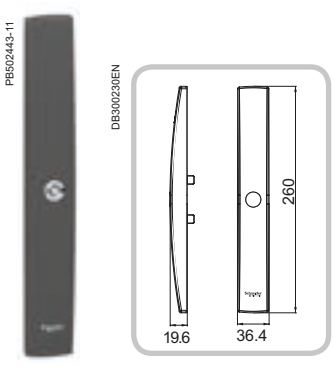
Cylindrical barrels	References
405E key lock	**NSYIN405E1**
421E key lock	**NSYIN421E1**
455 key lock	**NSYIN4551**
1242E key lock	**NSYIN1242E1**
1332E key lock	**NSYIN1332E1**
2124E key lock	**NSYIN2124E1**
2131A key lock	**NSYIN2131A1**
2132A key lock	**NSYIN2132A1**
2331A key lock	**NSYIN2331A1**
2433A key lock	**NSYIN2433A1**
2452E key lock	**NSYIN2452E1**
3113A key lock	**NSYIN3113A1**
3122E key lock	**NSYIN3122E1**
3123A key lock	**NSYIN3123A1**
3131A1 key lock	**NSYIN3131A1**
3133A key lock	**NSYIN3133A1**
3422E key lock	**NSYIN3422E1**
3432E key lock	**NSYIN3432E1**
6101 key lock	**NSYIN6101**
EDF1300 key lock	**NSYINF1301**
EDF1400 key lock	**NSYINF1401**
Michelin 8079 keyless lock	**NSYINICHEL8791**
Michelin 8133 keyless lock	**NSYINICHEL8131**
Michelin 8376 keyless lock	**NSYINICHEL8371**
E1 keyless lock	**NSYINE11**

Steel floor-standing enclosures
Accessories

Locking system

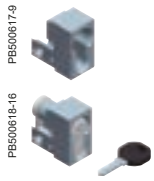




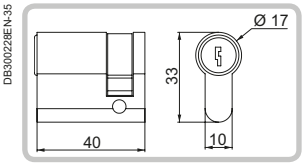


	Handles for insert types DIN, KABA, ASSA		Flat escutcheon lock
	Insert handle	**Double-insert handle**	
	The inserts are easily and quickly mounted without any screws and allow the installation of profiled DIN, KABA and ASSA locks. To install shape inserts or cylindrical barrels, it is necessary to add adapter ref. NSYLADP. Easy to change the opening direction of the door, right/left. Space reserved for enclosure identification, 21 x 27 mm, protected by a label frame.	The double insert handle can perform the "AND" and "OR" functions (are supplied with the handle). - "AND" function: one insert blocks the activation of the other insert. - "OR" function: either insert can release the handle. Easy to change the opening direction of the door, right/left. Space reserved for enclosure identification, 21 x 27 mm, protected by a label frame. To install shape inserts or cylindrical barrels, it is necessary to add adapter ref. NSYLADP.	Optional flat escutcheon lock. Replaces the handle lock. Easy to change the opening direction of the door, right/left. Possibility of changing the turning direction of the insert.
	Handle: polyamide 6 with 30 % fibreglass, RAL 9005 colour		Polyamide 6 with 30 % fibreglass, RAL 9005 black
	IK10 according to IEC 62262		IK10 according to IEC 62262
	650ºC		650ºC
	One handle for DIN, KABA and ASSA inserts and fixing elements (insert not included)		Flat lock, shape insert, key and fixing elements
	NSYSFHD2	**NSYSFHD3**	-

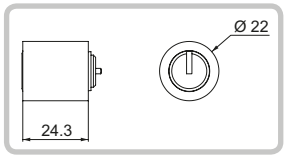
Lock system: DIN, KABA and ASSA	References
Adapter for DIN cylinder	**NSYINDIN2**
Adapter for KABA cylinder (1)	**NSYINKBA2**
Adapter for ASSA cylinder	**NSYINASSA2**
1242E key lock	**NSYIN1242E2**
Reinforced key lock	**NSYINKR2**
JIS key lock	**NSYINKJIS2**
FAC key lock	**NSYINKFAC2**



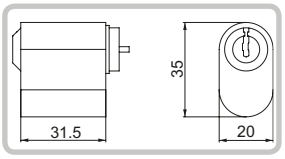
(1) Adapter for receiving the KABA8, KABA20 and KABA start cylinders.



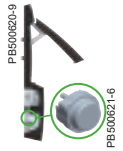
Insert dimensions for DIN adapters.



Insert dimensions for KABA adapters.



Insert dimensions for ASSA adapters.



Adapter for shape inserts and cylindrical barrels	References
Plastic adapter for installing shape inserts and cylindrical barrels in handle lock types DIN, KABA, ASSA. See shape inserts and cylindrical barrels. See insert types DIN, KABA, ASSA. Supply: 1 unit.	**NSYLADP**

Models	References
 Flat lock + screwdriver slot, 2-mm groove	**NSYSFLOCK24**
 Flat lock + 8-mm triangular insert	**NSYSFLOCKT8**
 Flat lock + 7-mm triangular insert	**NSYSFLOCKT7**
 Flat lock + 6.5-mm triangular insert	**NSYSFLOCKT6**
 Flat lock + 8-mm female square insert	**NSYSFLOCKSG8**
 Flat lock + 8-mm square insert	**NSYSFLOCKS8**
 Flat lock + 7-mm square insert	**NSYSFLOCKS7**
 Flat lock + 6-mm square insert	**NSYSFLOCKS6**
 Flat lock + 5-mm double-bar insert	**NSYSFLOCKDB5**

Stainless-steel wall-mounting enclosures

Stainless-steel wall-mounting enclosures
Contents


PB500075-42

Spacial S3X **114**
Stainless-steel wall-mounting enclosures

Introduction 114
Characteristics 117
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Stainless-steel wall-mounting enclosures
Introduction

PB501229.eps



What is stainless steel?

How is the stainless steel grade determined?

These enclosures have been specially designed for the chemical, oil and food and beverage industries, among others, which are particularly demanding in terms of hygiene and resistance to corrosion.

Thanks to an elaborate composition

■ The following table shows the percentages of the main alloy elements that make up stainless steels. The resistance of the material to aggressive agents in the environment depends mainly on these alloys.

Stainless-steel type		Chemical composition (%)			
AISI grade	N. Europe	Carbon	Chromium	Nickel	Molybdenum
304L	1.4307	< 0.03	17 - 19	8 - 10	0
316L	1.4404	< 0.03	17 - 19	10 - 13	2 - 2.25

PB501230



Choosing a stainless steel grade

AISI 304L stainless steel

The most commonly used type in the food and beverage industry for its resistance to corrosion and easy cleaning.

■ Prevention against corrosion, especially in the presence of organic acids.
■ Resistance to the action of nitrous gas in the presence of condensation water and in most aggressive environments.

PB501231



AISI 316L stainless steel

Recommended in salty or chlorinated environments due to its very high resistance to corrosion thanks to the presence of molybdenum.

■ Improved resistance to corrosion.
■ Particularly well adapted to environments charged with acidity, bromine and saline halides or which use very corrosive additives and solvents.

Stainless-steel wall-mounting enclosures
Introduction

The finish

The finish: 3 solutions against aggressive environmental agents

Surface condition plays an important role in the fight against bacteria.
The lower the roughness, the fewer bacteria become incrusted.
Reduced roughness means fewer bacteria, less adherence of materials and an impeccable finish.
To choose a finish is also to choose an appearance of the enclosures that matches the environment of other machines and equipment.

PB501232



> Solution 1: Scotch-Brite® brushing

The method used consists of brushing as defined by the ASTM (American Society for Testing and Material).

- Finish very commonly used for the chemical and food and beverage industries.
- Surface roughness is improved thanks to an additional polishing process which offers more efficient characteristics against polluting elements.
- Surface roughness, Ra ≤ 0.8 µm.

PB501233



> Solution 2: Micro-beading (on request)

Exclusiveness, an impeccable finish with smooth silky appearance.

The method:

- Bombardment with miniscule ceramic balls of the entire surface to be treated at very high speed.
- Closes micro-cracks caused during lamination by flattening.

The result:

- Increased hardness.
- Reduced surface roughness (Ra ≈ 0.8 µm).
- A perfectly even surface, with a silky appearance (no scratches and no burrs).
- Reduces the adherence of materials.
- Allows disinfection.

Typical application: pharmaceutical and food and beverage industries.

PB501234



> Solution 3: Protective painting (on request)

The highest protection against aggressions, external pollution and projections of metal particles.

- Provides the ultimate protection against corrosion.

Typical applications: marine, seaside, off-shore.

Stainless-steel wall-mounting enclosures
Introduction

> These enclosures have been specially designed for the chemical, oil and food and beverage industries, among others, which are particularly demanding in terms of hygiene and resistance to corrosion.

PB500075-75



PB501225-31



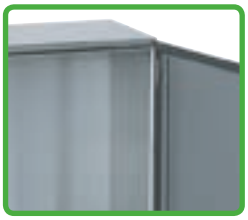
Finishes
- Two types of steel offered as standard: 304L and 316L, with Scotch-Brite® brushed finish.
- Painted or micro-beaded finish (on request).

PB501239



Large range of accessories
- Stainless-steel accessories: canopy, wall-fixing lugs.
- Accessories of the standard offer: mounting plate, inner door, modular chassis and step slides.
- Large selection of locks with 100 % stainless-steel transformation.

PB501240-60



Sealing
- Protection rating against dust and water IP66 (1 door) or IP55 (2 doors) according to IEC 60529.
- Polyurethane gasket.
- Gutter-shaped front profile.
- Three closure points for the double door.

PB501241



Robustness and durability
- Resistance to external mechanical impacts:
  - IK10: plain door,
  - IK08: glazed door.
- Door reinforcement frame or profile.
- Stainless-steel hinges.

PB502979-16



Convenience and time saving
- 304L or 316L stainless-steel wall-fixing lugs.
- Vertical reinforcement perforated profiles, which make it easier to equip the door.
- Reversible door opening to 120°.
- Easy installation directly on the machine thanks to the 4 rear drill holes.

This range can be configured according to your needs

4 differents services available:

Assemble to order

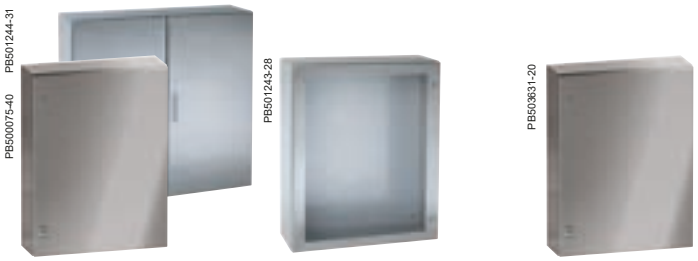
Mounting of standard accessories

Painting

Machining

See page 488 for details or consult our web site www.se.com

Stainless-steel wall-mounting enclosures
Characteristics



Characteristics	304L stainless-steel		316L stainless-steel
	Enclosure with plain door.	Enclosure with glazed door, Securit® glass, 4 mm thick.	Enclosure with plain door.
Material	AISI 304L		AISI 316L
Finish	Scotch-Brite® brushed		
Thickness	10/10e - 15/10e mm		
Ingress protection rating	IP66 (1 door) or IP55 (2 doors) according to IEC 60529		
Mechanical protection rating	IK10 according to IEC 62262	IK08 according to IEC 62262	IK10 according to IEC 62262
Standards & certifications	See technical guides page 574		
Installation	Outdoor installation: compliant with IEC 62208 regarding type tests specified in §9.12 (resistance to ultra-violet (UV) radiation) and §9.13 (resistance to corrosion). It is always advisable to install a canopy to avoid water stagnation on the upper part of the enclosure		
Other characteristics	■ Single-piece body (cross-shaped structure). Gutter-shaped front profile ■ 4 rear studs for fixing the material ■ 2 cut-out vertical profiles on the door (from a height of 600 mm), with drill holes with a diameter of 4.25 mm and a pitch of 25 mm for installing accessories ■ Door strengthening frame (from a height of 1000 mm), cross-section of 20 mm x 15 mm, with drill holes with a diameter of 5 mm and a pitch of 25 mm ■ Standard lock with 3-mm double-bar lock (chrome-plated zamak) ■ 2 locking points for heights of more than 500 mm or three points for two-door enclosures ■ Stainless-steel hinges screwed to the body of the enclosure. They make it easier to remove and invert the door. Opening angle: 120° ■ Maximum load on the door: 50 kg/m² ■ Polyurethane gasket ■ M6 x 16 screws on the door and on the body, allowing equipotential connection between the earth connections (on request) ■ 4 holes for fixing to the wall directly or with the help of mounting lugs (on request), blocked by sealing plugs		

External dimensions (mm)					References		
Height	Width	Depth	No. of locks	No. of doors	Plain door	Glazed door**	Plain door
300	200	150	1	1	**NSYS3X3215**	-	**NSYS3X3215H**
	250	150	1	1	**NSYS3X302515**	-	**NSYS3X302515H**
	300	150	1	1	**NSYS3X3315**	-	**NSYS3X3315H**
400	300	150	1	1	**NSYS3X4315**	-	**NSYS3X4315H**
		200	1	1	**NSYS3X4320**	**NSYS3X4320T**	**NSYS3X4320H**
	400	200	1	1	**NSYS3X4420**	-	**NSYS3X4420H**
	600	200	1	1	**NSYS3X4620**	-	**NSYS3X4620H**
500	400	200	2	1	**NSYS3X5420**	**NSYS3X5420T**	**NSYS3X5420H**
600	400	200	2	1	**NSYS3X6420**	**NSYS3X6420T**	**NSYS3X6420H**
	600	250	2	1	**NSYS3X6625**	-	**NSYS3X6625H**
	1000	300	*	2	**NSYS3X601030**	-	-
	1200	300	*	2	**NSYS3X601230**	-	-
700	500	250	2	1	**NSYS3X7525**	**NSYS3X7525T**	**NSYS3X7525H**
800	600	250	2	1	**NSYS3X8625**	**NSYS3X8625T**	**NSYS3X8625H**
	800	300	2	1	**NSYS3X8830**	-	**NSYS3X8830H**
	1000	300	*	2	**NSYS3X801030**	-	-
	1200	300	*	2	**NSYS3X801230**	-	-
1000	800	300	2	1	**NSYS3X10830**	**NSYS3X10830T**	**NSYS3X10830H**
	1000	300	*	2	**NSYS3X101030**	-	**NSYS3X101030H**
1200	800	300	2	1	**NSYS3X12830**	-	**NSYS3X12830H**
	1000	300	*	2	**NSYS3X121030**	-	**NSYS3X121030H**

** Three-point closure system.*
*** The glazed door has no reinforcement.*

Stainless-steel wall-mounting enclosures

Dimensions

External dimensions (mm)			Fig.
A	B	C	
300	200	150	1
	250	150	1
	300	150	1
400	300	150	1
	300	200	1
	400	200	1
	600	200	1
500	400	200	2*
600	400	200	2
	600	250	2
	1000	300	4
	1200	300	4
700	500	250	2
800	600	250	2
	800	300	2
	1000	300	4
	1200	300	4
1000	800	300	3
	1000	300	4
1200	800	300	3
	1000	300	4

** Without door reinforcement.*

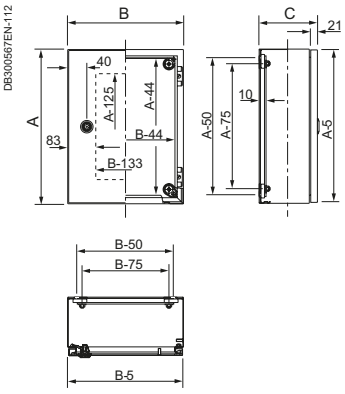


Fig. 1

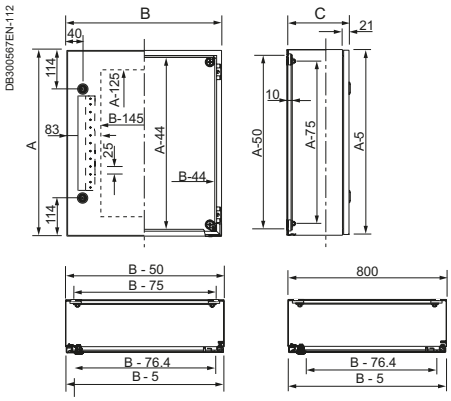


Fig. 2

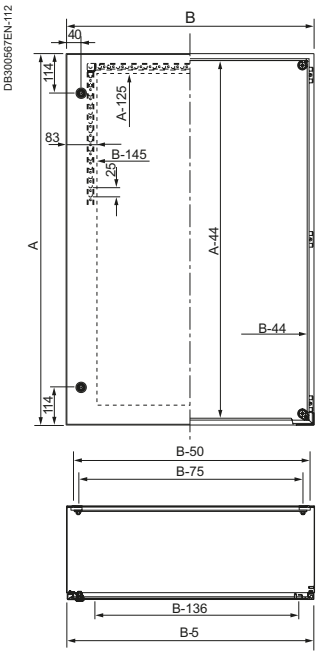


Fig. 3

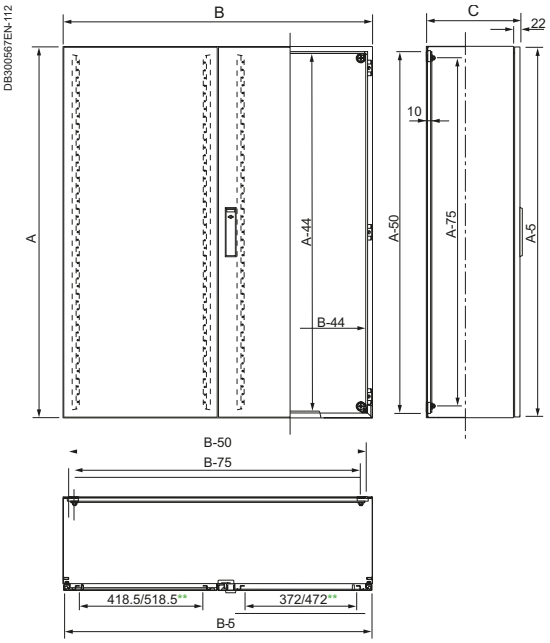
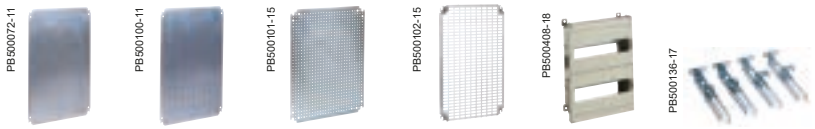


Fig. 4

*** For glazed door.*

Stainless-steel wall-mounting enclosures
Accessories



External dimensions (mm)			No. of modules	References					
Height	Width	Depth		Mounting plate					Step slides
				Plain	Silkscreened	Microperforated	Telequick	Modular	
300	200	150	-	NSYMM32	-	NSYMF32	NSYMR32	-	-
	250	150	-	NSYMM3025	-	-	NSYMR3025	-	-
	300	150	-	NSYMM33	-	NSYMF33	NSYMR33	-	-
400	300	150	24	NSYMM43	NSYMS43	NSYMF43	NSYMR43	NSYDLM24	-
		200	24	NSYMM43	NSYMS43	NSYMF43	NSYMR43	NSYDLM24	NSYSDCR200
	400	200	-	NSYMM44	NSYMS44	NSYMF44	NSYMR44	-	NSYSDCR200
	600	200	-	NSYMM64	NSYMS64	NSYMF64	NSYMR46	-	NSYSDCR200
500	400	200	48	NSYMM54	NSYMS54	NSYMF54	NSYMR54	NSYDLM48	NSYSDCR200
600	400	200	48	NSYMM64	NSYMS64	NSYMF64	NSYMR64	NSYDLM48P	NSYSDCR200
	600	250	84	NSYMM66	NSYMS66	NSYMF66	NSYMR66	NSYDLM84P	NSYSDCR250
	1000	300*	-	NSYMM106	-	NSYMF106	NSYMR106	-	NSYSDCR300
	1200	300*	-	NSYMM126	-	NSYMF126	-	-	NSYSDCR300
700	500	250	66	NSYMM75	NSYMS75	NSYMF75	NSYMR75	NSYDLM66	NSYSDCR250
	500	250	88	-	-	-	-	NSYDLM88	-
800	600	250	84	NSYMM86	NSYMS86	NSYMF86	NSYMR86	NSYDLM84	NSYSDCR250
	600	250	112	-	-	-	-	NSYDLM112	-
	800	300	-	NSYMM88	-	NSYMF88	NSYMR88	-	NSYSDCR300
	1000	300*	-	NSYMM108	-	NSYMF108	NSYMR108	-	NSYSDCR300
	1200	300*	-	NSYMM128	-	NSYMF128	NSYMR128	-	NSYSDCR300
1000	800	300	234	NSYMM108	-	NSYMF108	NSYMR108	NSYDLM240	NSYSDCR300
	1000	300	-	NSYMM1010	-	NSYMF1010	NSYMR1010	-	NSYSDCR300
1200	800	300	-	NSYMM128	-	NSYMF128	NSYMR128	-	NSYSDCR300
	1000	300	-	NSYMM1210	-	NSYMF1210	NSYMR1210	-	NSYSDCR300

** Three-point closure system.*



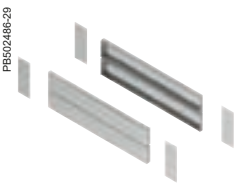
Plinth height 100 mm (4 corners + front and back)



Plinth height 100 mm (Set of 2 side panels)



Plinth height 200 mm (4 corners + front and back)



Plinth height 200 mm (Set of 2 side panels)

Characteristics	Plinths	
Material	Stainless-steel, AISI 304L	Stainless-steel, AISI 316L
Finish	Scotch-Brite® brushing, to guarantee the durability in application where the contact with the floor increase the risk of corrosion	
Installation	It is necessary to order separately the plinth fixing kit (ref. **NSYAPFXWM**) composed by fixing elements and drilling jig	

External dimensions (mm)			Plinth height 100 mm		Plinth height 200 mm		Plinth height 100 mm		Plinth height 200 mm	
Height (A)	Width (B)	Depth (C)	Kit (4 corners + front and back)	Set of 2 side panels	Kit (4 corners + front and back)	Set of 2 side panels (x2)	Kit (4 corners + front and back)	Set of 2 side panels	Kit (4 corners + front and back)	Set of 2 side panels (x2)
800	800	300	NSYSPFX8100	NSYSPSX3100	NSYSPFX8200	NSYSPSX3200	NSYSPFX8100H	NSYSPSX3100H	NSYSPFX8200H	NSYSPSX3200H
1000	800	300	NSYSPFX8100	NSYSPSX3100	NSYSPFX8200	NSYSPSX3200	NSYSPFX8100H	NSYSPSX3100H	NSYSPFX8200H	NSYSPSX3200H
	1000	300	NSYSPFX10100	NSYSPSX3100	NSYSPFX10200	NSYSPSX3200	NSYSPFX10100H	NSYSPSX3100H	NSYSPFX10200H	NSYSPSX3200H
1200	800	300	NSYSPFX8100	NSYSPSX3100	NSYSPFX8200	NSYSPSX3200	NSYSPFX8100H	NSYSPSX3100H	NSYSPFX8200H	NSYSPSX3200H
	1000	300	NSYSPFX10100	NSYSPSX3100	NSYSPFX10200	NSYSPSX3200	NSYSPFX10100H	NSYSPSX3100H	NSYSPFX10200H	NSYSPSX3200H







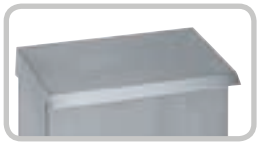




	Cable entries	Stainless steel cable gland with lamellar insert	Adhesive plastic document pocket	Door switch	Lighting	Clip-on nuts	Plain mounting plate screw		
							Self-tapping screw		
							M6 x 16	M5 x 13	M5 x 16
See page	242	244	272	272	268	240	-	-	-
Supply	10	5, 4 or 2	1	1	1	100	100	100	100
References									
	-	-	NSYDPA44	NSYINLCRN	NSYLAMLDS	AF1EA6	NSYS16M6HS	NSYS13M5HS	NSYS16M5HS

Stainless-steel wall-mounting enclosures
Accessories

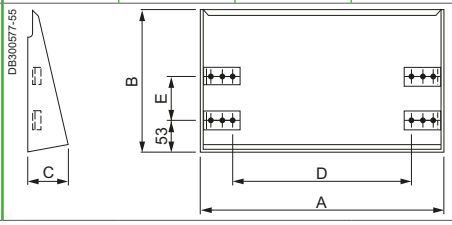
PB501239_1



Canopy

Material	304L stainless-steel sheet
Finish	Scotch-Brite® brushed
Thickness	15/10e mm
Installation	Direct fixing to the body of the enclosure
Supply	Delivered with the fixings required for installation

No. of locks	No. of doors	For wall-mounting enclosures (mm)			Dimensions (mm)					References
		Height	Width	Depth	A	B	C	D	E	
1	1	300	200	150	205	183	51	120	-	**NSYTX2015**
			250	150	205	183	51	120	-	**NSYTX2515**
			300	150	305	183	51	220	-	**NSYTX3015**
		400	300	150	305	183	51	220	-	**NSYTX3015**
			300	200	305	233	51	220	70	**NSYTX3020**
			400	200	405	233	70	320	70	**NSYTX4020**
			600	200	605	233	70	520	70	**NSYTX6020**
2	1	500	400	200	405	233	70	320	70	**NSYTX4020**
		600	400	200	405	233	70	320	70	**NSYTX4020**
			600	250	605	283	70	520	120	**NSYTX6025**
*	2	600	1000	300	1005	333	70	920	170	**NSYTX10030**
			1200	300	1205	333	70	1120	120	**NSYTX12030**
2	1	700	500	250	505	283	70	420	120	**NSYTX5025**
		800	600	250	605	283	70	520	120	**NSYTX6025**
			800	300	805	333	70	720	170	**NSYTX8030**
*	2	800	1000	300	1005	333	70	920	170	**NSYTX10030**
			1200	300	1205	333	70	1120	120	**NSYTX12030**
2	1	1000	800	300	805	333	70	720	170	**NSYTX8030**
*	2	1000	1000	300	1005	333	70	920	170	**NSYTX10030**
2	1	1200	800	300	805	333	70	720	170	**NSYTX8030**
*	2	1200	1000	300	1005	333	70	920	170	**NSYTX10030**



** Three-point locking system.*

PB501821-18



Support bracket for enclosure with anti-tilt kit and reinforcement

The support bracket is used when the S3HF enclosure cannot be hung from a wall or a post.
Suitable for outdoor use.
Maxi. enclosure dimensions: 1000 x 800 x 300 mm.
Floor attachment by standard M12 fastenings.

Material: acier
Finish: peint
Colour: RAL 7035 grey
Maximum load: 120 kg

Height (mm)	References
1400	**NSYCOCNS1400**
1800	**NSYCOCNS1800**

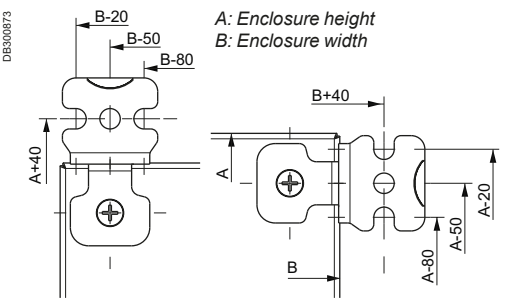
PB502979-16



Wall-fixing lugs

Material	304L stainless-steel	316L stainless-steel
Installation	■ Mounting of the wall-fixing lugs in horizontal or vertical position ■ Fixing from the outside ■ Wall-enclosure separation of 12 mm	
Maximum load	250 kg	
Supply	Set of four wall-fixing lugs	
References		
	NSYPFCX	**NSYPFC2X**

DB300873



Stainless-steel wall-mounting enclosures
Accessories

PB503629



New

Eyebolts*

Material	Stainless-steel 304
Maximum load	210 kg per enclosure when slinging at 60°
Supply	Reinforcing brackets attached to the rings (these brackets also act as a drilling template)
Reference	
Batch of 2 M8 eyebolts	**NSYAELYTCRXG8**

** Consult us for availability.*

PB503620-22

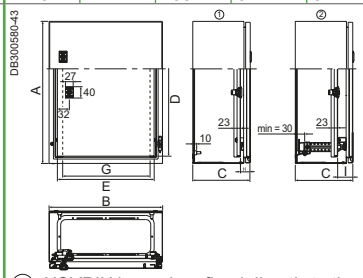


Inner door

	■ 3-mm double-bar lock. ■ Not compatible with door retainer and door switch. Consult us.
Installation	■ As standard it can be mounted an inner door and a mounting plate, on the step slides, at the same time ■ Can be mounted either on the front side of the enclosure or on step slides (not suplied with standard)
Maximum load	30 kg/m²
Supply	1 inner door

For wall-mounting enclosures (mm)		Dimensions (mm)					References
Height (A)	Width (B)	D	E	G	H	I (min.)	
400	300	349	241	208	32	51	**NSYPIN43**
500	400	449	341	308	32	51	**NSYPIN54**
600	400	549	341	308	32	51	**NSYPIN64**
700	500	649	441	408	32	51	**NSYPIN75**
800	600	749	541	508	32	51	**NSYPIN86***
1000	800	949	741	708	32	51	**NSYPIN108***
1200	800	1149	741	708	32	52	**NSYPIN128***

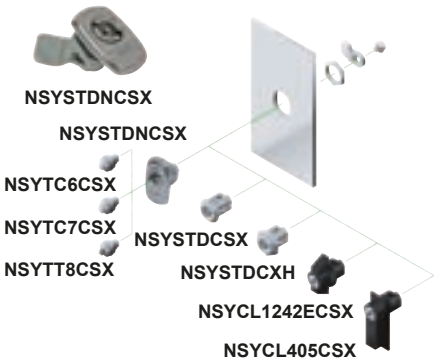
DB300580-43



① *NSYPIN inner door fixed directly to the enclosure.*

② *NSYPIN inner door fixed to the adjustable NSYSDCR●● support. In this case, both the inner door and the mounting plate may be depth adjustable.*

** Equipped with welded vertical profiles in order to facilitate cable management.*



New



NSYSTDCX2H*

New



NSYCBXHCRN*



NSYCL610CSX



NSYCBXHCRN





NSYTSML



NSYTSMLS3D

3 points lock options

Type		
	Handle lock	Screw driver insert
Material	100% stainless-steel	Zamak
Protection rating	IP66 according to IEC 60529	
References		
	NSYTSML	**NSYTSMLS3D**

1 point lock options

Type	Double-bar lock	Insert			Round lock			Handle lock			
	Escutcheon with insert	Triangular	Square		Round			Padlock	1242E	405	610
	3 mm	8 mm	7 mm	6 mm	3 mm (spare)	3 mm					
Material	Chrome-plated zamak	304L stainless-steel			Chrome-plated zamak	304L stainless-steel	316 stainless-steel	316 stainless-steel	Chrome-plated zamak	Polyamide	
Protection rating	IP66 according to IEC 60529										
References											
	NSYSTDNCSX	**NSYTT8CSX**	**NSYTC7CSX**	**NSYTC6CSX**	**NSYSTDCSX**	**NSYSTDCXH**	**NSYSTDCX2H***	**NSYCBXHCRN***	**NSYCL1242ECSX**	**NSYCL405CSX**	**NSYCL610CSX**

** Consult us for availability.*

Stainless-steel floor-standing enclosures

Stainless-steel floor-standing enclosures
Contents


PB500138-26


PB502731-22

Spacial SMX - SFX **124**
Stainless-steel floor-standing enclosures

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Specific accessories 128

Stainless-steel floor-standing enclosures
Introduction

> These enclosures have been specially designed for the chemical, oil and food and beverage industries, among others, which are particularly demanding in terms of hygiene and resistance to corrosion.

SMX

PB500138-63



SFX

PB502730-50



PB501232-36

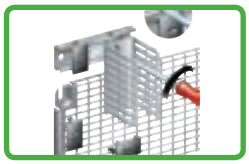


Material and finishes

Stainless-steel grade:
- AISI 304L as standard in Spacial SMX and SFX.
- AISI 316L as standard in Spacial SMX and on request in Spacial SFX.

Finishes:
- Scotch-Brite® brushed (standard).
- Micro-beaded (on request).
- Painted (on request).

PB500958-20



Convenience and time saving
- Complete range of accessories for installation, cable management, etc.
- 316L stainless-steel plinth: easy cable entry.
- 304L or 316L stainless-steel plinth: easy cable entry (Spacial SFX and SMX).
- Reversible door opening to 120°.
- Padlock lock with key or form insert.
- Adjustment rails perforated with a pitch of 25 mm.
- Perforated reinforcement frame allowing accessories to be mounted on the door.

PB500141-90



Sealing
- Protection rating against dust and water IP66 or IP55 depending model according to IEC 60529.
- 3-point closures.
- Canopy (optional):
  - protects the sealing plane of the door,
  - guarantees correct water drainage,
  - no stagnation on the top.
- Single-piece cable-gland plate with polyurethane gasket.

PB501255-20



Compatible with the other ranges
- The mounting plates and other accessories of the Spacial SM and SF standards metal offers.

PB501228-85



Hygiene
- The high quality of the standard finish enables very easy maintenance while avoiding contamination.
- The hygienic feet made from 316L stainless-steel, adjustable between 140 mm and 200 mm height, make it easier to clean under the enclosures.

PB501241-40



Robustness and durability
- Resistance to external mechanical impacts: IK10 according to IEC 62262.
- 3 hinges made entirely from stainless-steel.
- Door reinforcement frame.

PB501232-36



Resistance to corrosion
- High resistance to corrosion. 304L and 316L stainless-steels provide the best solutions for applications in extremely demanding environments.

This range can be configured according to your needs

4 differents services available:

Assemble to order

Mounting of standard accessories

Painting

Machining

See page 488 for details or consult our web site www.se.com

Stainless-steel floor-standing enclosures
Characteristics

SMX



PB500138-26

SFX



PB502731-22

Characteristics	Spacial SMX	Spacial SFX
	■ Stainless-steel sheet floor-standing enclosure, folded and welded. ■ Single and double front door, with reinforcement frame.	■ Enclosure made up of a structure, consisting of top and bottom, rear panel and vertical profiles. ■ Single and double front door, with reinforcement frame.
Material	■ 304L stainless-steel ■ 316L stainless-steel	■ 304L stainless-steel ■ 316L version (on request)
Finish	■ Scotch-Brite® brushed finish ■ Micro-beaded and painted finishes (on request)	
Thickness	15/10e mm	Consult us
Ingress protection rating	IP55 according to IEC 60529	IP66 (1 door) and IP55 (2 doors) according to IEC 60529
Mechanical protection rating	IK10 according to IEC 62262	
Standards & certifications	See technical guides page 574	
Installation	Outdoor installation: compliant with IEC 62208 regarding type tests specified in §9.12 (resistance to ultra-violet (UV) radiation) and §9.13 (resistance to corrosion). *Note: For SMX & SFX is not mandatory the installation of a canopy for outdoor use*	
Other characteristics	■ Plain front door. Opening to left or right to 120° with reinforcement frame installed: □ 3 stainless-steel hinges □ 3-point closure with handle made from painted zamak, 5-mm double bar □ acceptable load of 50 kg	
Supply	■ Welded compact body ■ Single-piece cable-gland plate with sealing gasket ■ Welded mounting plate support brackets	■ Welded rear panel ■ 4 mounting plate-supporting brackets ■ Single-piece cable-gland plate with sealing gasket

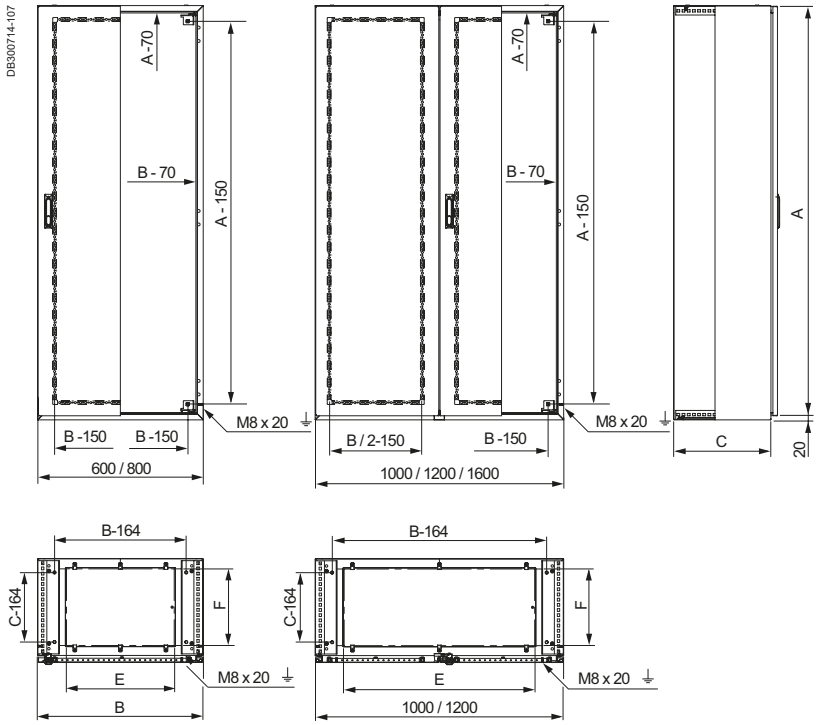
External dimensions (mm)			Number of front doors	Stainless-steel enclosure		Stainless-steel suitable enclosure
Height (A)	Width (B)	Depth (C)		304L	316L	304L
1400	1000	300	2	**NSYSMX141030**	-	-
1600	800	400	1	**NSYSMX16840**	-	-
1800	600	400	1	**NSYSMX18640**	-	**NSYSFX18640**
	800	400	1	**NSYSMX18840**	**NSYSMX18840H**	**NSYSFX18840**
	1200	400	2	**NSYSMX181240**	**NSYSMX181240H**	**NSYSFX181240**
	1600	400	2	**NSYSMX181640**	**NSYSMX181640H**	-
2000	600	500	1	-	-	**NSYSFX20650**
	800	400	1	-	-	**NSYSFX20840**
	800	500	1	**NSYSMX20850**	-	-
	800	600	1	-	-	**NSYSFX20860**
	1000	400	2	**NSYSMX201040**	**NSYSMX201040H**	-
	1000	600	2	-	-	**NSYSFX201060**
	1200	500	2	**NSYSMX201250**	**NSYSMX201250H**	-
	1200	600	2	-	-	**NSYSFX201260**
	1600	600	2	**NSYSMX201660**	**NSYSMX201660H**	-

Stainless-steel floor-standing enclosures

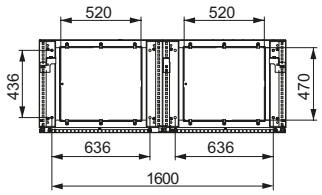
Dimensions

SMX

Floor-standing enclosure dimensions (mm)			No. of front doors	No. of cable gland plates	Dimensions (mm)	
Height (A)	Width (B)	Depth (C)			E	F
1400	1000	300	2	1	720	270
1600	800	400	1	1	520	270
1800	600	400	1	1	520	270
	800	400	1	1	520	270
	1200	400	2	1	920	270
	1600	400	2	2	1320	270
2000	800	500	1	1	520	370
	1000	400	2	1	720	270
	1200	500	2	1	920	370
	1600	600	2	2	1320	470



Enclosure width of 1000 and 1200 mm.

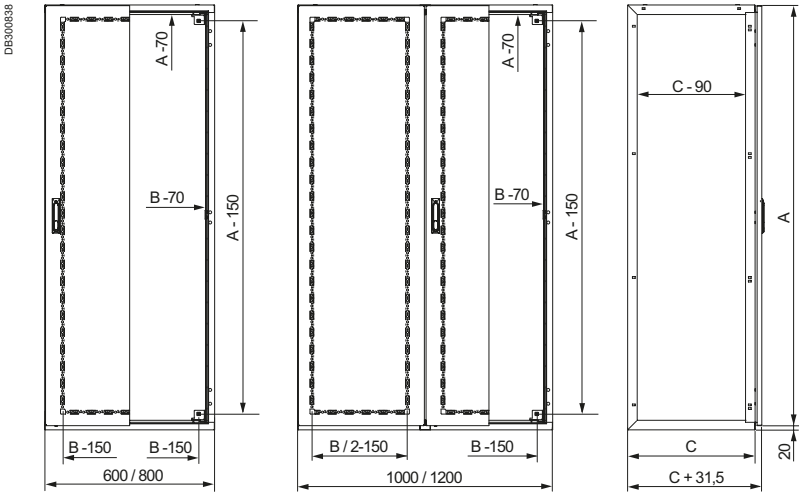


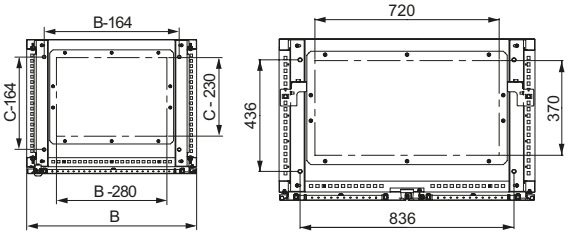
Enclosure width of 1600 mm.

Stainless-steel floor-standing enclosures
Dimensions

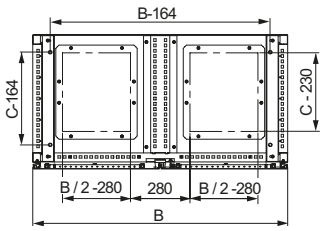
SFX

External dimensions (mm)			No. of front doors	No. of cable gland plates
Height (A)	Width (B)	Depth (C)		
1800	600	400	1	1
	800	400	1	1
	1200	400	2	2
2000	600	500	1	1
	800	400	1	1
	800	600	1	1
	1000	600	2	1
	1200	600	2	2





Enclosure width 1000.



Enclosure width 1200 mm.

Stainless-steel floor-standing enclosures

Specific accessories

SMX



Plinth height 100 mm (4 corners + front and back)



Plinth height 100 mm (Set of 2 side panels)



Plinth height 200 mm (4 corners + front and back)



Plinth height 200 mm (Set of 2 side panels)

Characteristics			Stainless-steel plinths							
Material			Stainless-steel, AISI 304L				Stainless-steel, AISI 316L			
Finish			Scotch-Brite® brushing, to guarantee the durability in application where the contact with the floor increase the risk of corrosion							
Installation			Mounting in the holes for fixing the enclosures to the floor							
External dimensions (mm)			**Plinth height 100 mm**		**Plinth height 200 mm**		**Plinth height 100 mm**		**Plinth height 200 mm**	
Height (A)	**Width (B)**	**Depth (C)**	**Kit (4 corners + front and back)**	**Set of 2 side panels**	**Kit (4 corners + front and back)**	**Set of 2 side panels (x2)**	**Kit (4 corners + front and back)**	**Set of 2 side panels**	**Kit (4 corners + front and back)**	**Set of 2 side panels (x2)**
1400	1000	300	**NSYSPFX10100**	**NSYSPSX3100**	**NSYSPFX10200**	**NSYSPSX3200**	**NSYSPFX10100H**	**NSYSPSX3100H**	**NSYSPFX10200H**	**NSYSPSX3200H**
1600	800	400	**NSYSPFX8100**	**NSYSPSX4100**	**NSYSPFX8200**	**NSYSPSX4200**	**NSYSPFX8100H**	**NSYSPSX4100H**	**NSYSPFX8200H**	**NSYSPSX4200H**
1800	600	400	**NSYSPFX6100**	**NSYSPSX4100**	**NSYSPFX6200**	**NSYSPSX4200**	-	**NSYSPSX4100H**	-	**NSYSPSX4200H**
	800	400	**NSYSPFX8100**	**NSYSPSX4100**	**NSYSPFX8200**	**NSYSPSX4200**	**NSYSPFX8100H**	**NSYSPSX4100H**	**NSYSPFX8200H**	**NSYSPSX4200H**
	1200	400	**NSYSPFX12100**	**NSYSPSX4100**	**NSYSPFX12200**	**NSYSPSX4200**	**NSYSPFX12100H**	**NSYSPSX4100H**	**NSYSPFX12200H**	**NSYSPSX4200H**
	1600	400	**NSYSPFX16100**	**NSYSPSX4100**	**NSYSPFX16200**	**NSYSPSX4200**	**NSYSPFX16100H**	**NSYSPSX4100H**	**NSYSPFX16200H**	**NSYSPSX4200H**
2000	600	500	**NSYSPFX6100**	**NSYSPSX5100**	**NSYSPFX6200**	**NSYSPSX5200**	-	**NSYSPSX5100H**	-	**NSYSPSX5200H**
	800	400	**NSYSPFX8100**	**NSYSPSX4100**	**NSYSPFX8200**	**NSYSPSX4200**	**NSYSPFX8100H**	**NSYSPSX4100H**	**NSYSPFX8200H**	**NSYSPSX4200H**
	800	500	**NSYSPFX8100**	**NSYSPSX5100**	**NSYSPFX8200**	**NSYSPSX5200**	**NSYSPFX8100H**	**NSYSPSX5100H**	**NSYSPFX8200H**	**NSYSPSX5200H**
	800	600	**NSYSPFX8100**	**NSYSPSX6100**	**NSYSPFX8200**	**NSYSPSX6200**	**NSYSPFX8100H**	**NSYSPSX6100H**	**NSYSPFX8200H**	**NSYSPSX6200H**
	1000	400	**NSYSPFX10100**	**NSYSPSX4100**	**NSYSPFX10200**	**NSYSPSX4200**	**NSYSPFX10100H**	**NSYSPSX4100H**	**NSYSPFX10200H**	**NSYSPSX4200H**
	1000	600	**NSYSPFX10100**	**NSYSPSX6100**	**NSYSPFX10200**	**NSYSPSX6200**	**NSYSPFX10100H**	**NSYSPSX6100H**	**NSYSPFX10200H**	**NSYSPSX6200H**
	1200	500	**NSYSPFX12100**	**NSYSPSX5100**	**NSYSPFX12200**	**NSYSPSX5200**	**NSYSPFX12100H**	**NSYSPSX5100H**	**NSYSPFX12200H**	**NSYSPSX5200H**
	1200	600	**NSYSPFX12100**	**NSYSPSX6100**	**NSYSPFX12200**	**NSYSPSX6200**	**NSYSPFX12100H**	**NSYSPSX6100H**	**NSYSPFX12200H**	**NSYSPSX6200H**
	1600	600	**NSYSPFX16100**	**NSYSPSX6100**	**NSYSPFX16200**	**NSYSPSX6200**	**NSYSPFX16100H**	**NSYSPSX6100H**	**NSYSPFX16200H**	**NSYSPSX6200H**

The H200mm stainless-steel ventilated plinths of Outdoor Heavy Duty enclosures (page 379) are compatible with Spacial SMX stainless-steel compact enclosures.

Stainless-steel floor-standing enclosures
Specific accessories

SFX



Plinth height 100 mm (4 corners + front and back)



Plinth height 100 mm (Set of 2 side panels)

Characteristics			Stainless-steel plinths			
Material			Stainless-steel, AISI 304L			
Finish			Scotch-Brite® brushing, to guarantee the durability in application where the contact with the floor increase the risk of corrosion			
Installation			Mounting in the holes for fixing the enclosures to the floor Suitable for steel floor-standing enclosures (SF and SM)			
External dimensions (mm)			**Plinth height 100 mm**		**Plinth height 200 mm**	
Height (A)	**Width (B)**	**Depth (C)**	**Kit (4 corners + front and back)**	**Set of 2 side panels**	**Kit (4 corners + front and back)**	**Set of 2 side panels (x2)**
1400	1000	300	**NSYSPFX10100**	-	**NSYSPFX10200**	-
1600	800	400	**NSYSPFX8100**	**NSYSPSX4100SF**	**NSYSPFX8200**	**NSYSPSX4200SF**
1800	600	400	**NSYSPFX6100**	**NSYSPSX4100SF**	**NSYSPFX6200**	**NSYSPSX4200SF**
	800	400	**NSYSPFX8100**	**NSYSPSX4100SF**	**NSYSPFX8200**	**NSYSPSX4200SF**
	1200	400	**NSYSPFX12100**	**NSYSPSX4100SF**	**NSYSPFX12200**	**NSYSPSX4200SF**
	1600	400	-	**NSYSPSX4100SF**	-	**NSYSPSX4200SF**
2000	600	500	**NSYSPFX6100**	**NSYSPSX5100SF**	**NSYSPFX6200**	**NSYSPSX5200SF**
	800	400	**NSYSPFX8100**	**NSYSPSX4100SF**	**NSYSPFX8200**	**NSYSPSX4200SF**
	800	500	**NSYSPFX8100**	**NSYSPSX5100SF**	**NSYSPFX8200**	**NSYSPSX5200SF**
	800	600	**NSYSPFX8100**	**NSYSPSX6100SF**	**NSYSPFX8200**	**NSYSPSX6200SF**
	1000	400	**NSYSPFX10100**	**NSYSPSX4100SF**	**NSYSPFX10200**	**NSYSPSX4200SF**
	1000	600	**NSYSPFX10100**	**NSYSPSX6100SF**	**NSYSPFX10200**	**NSYSPSX6200SF**
	1200	500	**NSYSPFX12100**	**NSYSPSX5100SF**	**NSYSPFX12200**	**NSYSPSX5200SF**
	1200	600	**NSYSPFX12100**	**NSYSPSX6100SF**	**NSYSPFX12200**	**NSYSPSX6200SF**
	1600	600	-	**NSYSPSX6100SF**	-	**NSYSPSX6200SF**

The H200mm stainless-steel ventilated plinths of Outdoor Heavy Duty enclosures (page 379) are compatible with Spacial SFX stainless-steel suitable enclosures.

Stainless-steel floor-standing enclosures

Specific accessories

SMX



New

SFX

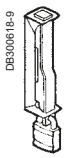


Characteristics			Canopy*	
			Guarantees very high protection of the enclosure when used outdoors.	
Material			■ 304L stainless-steel sheet ■ Other types of stainless-steel, contact us	
Finish			■ Scotch-Brite® brushed ■ Other finishes, contact us	
Thickness			15/10e mm	
Installation			It is fixed in the same holes as the eyebolt. Delivered with fixings. Other dimensions and canopy for sets, contact us	
External dimensions (mm)			**Top-mounting**	
Height (A)	**Width (B)**	**Depth (C)**		
1400	1000	300	**NSYSCMX10030**	-
1600	800	400	**NSYSCMX8040**	-
1800	600	400	**NSYSCMX6040**	**NSYSCX6040**
	800	400	**NSYSCMX8040**	**NSYSCX8040**
	1200	400	**NSYSCMX12040**	**NSYSCX12040**
	1600	400	**NSYSCMX16040**	-
2000	600	500	-	**NSYSCX6050**
	800	400	-	**NSYSCX8040**
	800	500	**NSYSCMX8050**	-
	800	600	-	**NSYSCX8060**
	1000	400	**NSYSCMX10040**	-
	1000	600	-	**NSYSCX10060**
	1200	500	**NSYSCMX12050**	-
	1200	600	-	**NSYSCX12060**
	1600	600	**NSYSCMX16060**	-

** New canopy for Spacial SMX available in 2019. Till then, use the same canopy than SFX.*



The enclosures Spacial SMX & SFX are delivered as standard with retractable handle made from painted zamak with 5mm double bar insert, spare ref. **NSYMCSX**
Transformation of the standard insert by other shape inserts or barrels according the following table:



Characteristics	Locking options						
Type	**Shape insert**						**Padlocking system**
	5 mm double-bar insert.	Square insert.			Triangular insert.		Padlocking device.
		6 mm	7 mm	8 mm	6.5 mm	8 mm	
Supply	Insert with key	Insert with key			1 pack		1 pack
References							
	NSYTDB5ME	**NSYTC6ME**	**NSYTC7ME**	**NSYTC8ME**	**NSYTT6ME**	**NSYTT8ME**	**NSYBCME**

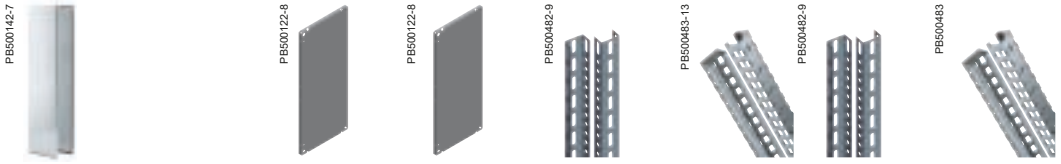
Characteristics	Locking options					
Type	**Barrels**					
	Reinforced key and barrel.	JIS key and barrel.	Manual.	Barrel and key 405E.	Barrel and key 610E.	Barrel and key 1242E.
Supply	1 pack	1 pack	1 pack	Barrels with 1 key	Barrels with 1 key	Barrels with 1 key
References						
	NSYTLRME	**NSYTLJISME**	**NSYTMME**	**NSYTCL405ME**	**NSYTCL610ME**	**NSYTL1242EME**





	Door switch
	For Spacial SFX
See page	272
Supply	1
Reference	
	NSYDCM20

Stainless-steel floor-standing enclosures
Specific accessories



Characteristics			Side panels	Plain mounting plate		Uprights vertical			
			■ Side panels including a polyurethane sealing gasket. ■ Their special design guarantees the protection of the door gasket.	-	-	-		-	
Material			■ 304L stainless-steel sheet	-	-	-		-	
External dimensions (mm)						**Standard**	**Technical**	**Standard**	**Technical**
Height (A)	**Width (B)**	**Depth (C)**							
1400	1000	300	-	**NSYMP1410**	-	-	**NSYTVR14**	-	-
1600	800	400	-	**NSYMP168**	-	-	**NSYTVR16**	-	-
1800	600	400	**NSY2SPX184**	**NSYMP186**	**NSYMP186**	**NSYVR18**	**NSYTVR18**	**NSYVR18**	**NSYTVR18**
	800	400	**NSY2SPX184**	**NSYMP188**	**NSYMP188**	**NSYVR18**	**NSYTVR18**	**NSYVR18**	**NSYTVR18**
	1200	400	**NSY2SPX184**	**NSYMP1812**	**NSYMP1812**	**NSYVR18**	**NSYTVR18**	**NSYVR18**	**NSYTVR18**
	1600	400	-	**NSYMP1816**	-	**NSYVR18**	**NSYTVR18**	-	-
2000	600	500	**NSY2SPX205**	-	**NSYMP206**	-	-	**NSYVR20**	**NSYTVR20**
	800	400	**NSY2SPX204**	-	**NSYMP208**	-	-	**NSYVR20**	**NSYTVR20**
	800	500	**NSY2SPX205**	**NSYMP208**	-	**NSYVR20**	**NSYTVR20**	-	-
	800	600	**NSY2SPX206**	-	**NSYMP208**	-	-	**NSYVR20**	**NSYTVR20**
	1000	400	-	**NSYMP2010**	-	**NSYVR20**	**NSYTVR20**	-	-
	1000	600	**NSY2SPX206**	-	**NSYMP2010**	-	-	**NSYVR20**	**NSYTVR20**
	1200	500	-	**NSYMP2012**	-	**NSYVR20**	**NSYTVR20**	-	-
	1200	600	**NSY2SPX206**	-	**NSYMP2012**	-	-	**NSYVR20**	**NSYTVR20**
	1600	600	-	**NSYMP2016**	-	**NSYVR20**	**NSYTVR20**	-	-

New

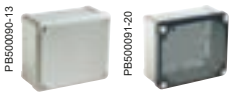


Characteristics	Eyebolts*	Lifting bracket	Wall-fixing lugs	Hygienic feet	Coupling kit
	-	For SFX.	For SMX.	Recommended for applications that require special hygiene conditions.	For SFX. Used for joining enclosures side by side.
Material	Stainless-steel 304	Treated steel	304L stainless-steel	316L stainless-steel	■ Flat connectors and brackets: zinc-coated steel (NSYSFBK19) ■ Sealing gasket: EPDM (NSYSFXJG)
Ingress protection rating	-	-	-	-	IP55
Installation	It is fixed using fixing nuts supplied	They are fixed instead of the eyebolts on two suitable enclosures side-by-side, guaranteeing the rigidity of the enclosure when lifted	■ Mounting of the wall-fixing lugs in horizontal or vertical position ■ Fixing from the outside	Adjustable between 140 mm and 200 mm height	Fixing from the inside of the enclosures
Maximum load	340 kg when slinging at 60°	1300 kg when slinging at 60°	■ Horizontal: 180 kg ■ Vertical: 350 kg	Per foot: 100 kg	-
Supply	Set of four M12 eyebolts	Set of four lifting brackets	Set of four wall-fixing lugs	Set of 4 adjustable feet	-
References					
	NSYSMXEB	**NSYPUNX**	**NSYFCMX**	**NSYPHX200**	**NSYSFBK19 + NSYSFXJG**

** Consult us for availability.*

Insulating boxes

Insulating boxes
Contents



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Thalassa PLS Green Premium™ **148**
Insulating modular boxes

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Insulating industrial boxes
Introduction

> Insulating industrial boxes:
- ABS for conventional applications (IK07) with the usual constraints,
- polycarbonate for enhanced impact resistance (IK08) and for outdoor applications or applications directly exposed to UV,
- polycarbonate certified UL,
- IP66 rating for all ranges,
- Protection against electrical impacts Class II.

PB500244SE-55



PB500271-32



Easy to install
3 methods of fixing the box to its support.

PB502073-72



Easy to use
Only one tool is required: a flat screwdriver.

PB500091



Smart
Fixing studs on the cover.

This range can be configured according to your needs

4 differents services available:

Assemble to order

Mounting of standard accessories

Painting

Machining

See page 488 for details or consult our web site www.se.com

Insulating industrial boxes
Characteristics

Class II







Characteristics	Universal boxes with IP66	Equipped button boxes, in ABS with IP54	ABS boxes for buttons, to be equipped
	■ Boxes that can be coupled (exactly the same dimensions) with kit ref. **13934**. ■ Locks from box size of 116 x 116 x 62 mm: □ cover locking by 4 plastic captive screws with coarse thread outside the sealed area, □ plumbable lock. ■ Locks from box size of 138 x 93 x 72 mm: □ the standard screws (flat screwdriver) can be replaced with other standardised screws (page 142). ■ The 4 "legs" of the cover ensure its robustness and perfect support during customisation operations. ■ Adaptable hinges on all the 20- and 40-mm covers (page 144).		
Material	■ **ABS boxes:** □ glow wire resistance: 650°C according to IEC 60695-2-11 □ usage temperature: -25°C...+60°C □ installation temperature: -15 C...+40°C ■ **Polycarbonate boxes:** □ glow wire resistance: 960°C □ usage temperature: -25°C...+80°C □ installation temperature: -15°C...+60°C	■ **ABS boxes:** □ glow wire resistance: 650°C according to IEC 60695-2-11 □ usage temperature: -25°C...+60°C □ installation temperature: -15 C...+40°C	
Colour	■ Body: RAL 7035 grey ■ Cover: RAL 7035 grey or transparent		
Ingress protection rating	IP66 according to IEC 60529	IP54 according to IEC 60529	-
Mechanical protection rating	**ABS:** IK07 according to IEC 62262 **Polycarbonate:** IK08 according to IEC 62262	**ABS:** IK07 according to IEC 62262	
Standards	IEC 62208		
Certifications (see page 574)	■ IEC 62208 certified by TÜV ■ SEMKO, DEMKO ■ UL 508A: polycarbonate range ■ Product Environmental Profile ■ Class II according to IEC 61140 ■ **Polycarbonate range:** □ NEMA 4.4X according to NEMA 250 □ self-extinguishing: UL 94 V-0	■ IEC 62208 certified by TÜV ■ SEMKO, DEMKO ■ Product Environmental Profile ■ Class II according to IEC 61140	
Installation	**Fixing the box** ■ Outside the sealed sensitive volume by the 4 chimneys in the corners from box size of 138 x 93 x 72 mm ■ Through the rear of the box by 2 or 4 elongated holes to be perforated ■ With fixing lugs from box size of 116 x 116 x 62 mm (ref. **NSYAEFTB**) **Outdoor installation, only for polycarbonate range:** compliant with IEC 62208 regarding type tests specified in §9.12 (resistance to ultra-violet (UV) radiation) and §9.13 (resistance to corrosion). For external use, a canopy should be installed on the upper of the boxes or the boxes should be installed under a shelter to protect them against the different weather conditions and to avoid water stagnation between body and lid. **Equipment installation** ■ Studs for fixing the equipment in the body and the cover of the box by means of a Ø 4-mm self-tapping screw (ref. **NSYAMFSTB**, screw Ø 4 x 10 mm with Pozidriv and slotted head) ■ Option of installing rails, plates (page 145) or other types of supports (card, etc.) ■ Spacers and stand-offs to be installed on the studs, for adjusting the height of the equipment		
Other characteristics	■ Anti-condensation valves available as an accessory, prevent the build-up of moisture inside the box		

Insulating industrial boxes
Selection guide





Overall external dimensions			Overall internal dimensions			Body	Cover	Minor pack.	Cover screw	Universal boxes with IP66			
(mm)			(mm)			(mm)	(mm)			ABS IP66 IK07		PC-UL IP66 IK08	
Height	Width	Depth	Height	Width	Depth					Opaque cover	Transparent cover	Opaque cover	Transparent cover
74	74	54	65	65	47	37	10	5	Metal	NSYTBS775	-	NSYTBP775	-
89	89	54	80	80	47	37	10	5	Metal	NSYTBS885	-	NSYTBP885	-
116	74	62	105	65	55	45	10	5	Metal	NSYTBS1176	-	NSYTBP1176	-
		94	105	65	85	45	40	3	Metal	NSYTBS1179H	-	-	-
	116	62	105	105	55	45	10	5	Plastic	NSYTBS11116	-	NSYTBP11116	-
		133	105	105	125	45	80	2	Plastic	NSYTBS111113H	-	-	-
138	93	72	125	80	65	45	20	2	Plastic	NSYTBS1397	NSYTBS1397T	NSYTBP1397	NSYTBP1397T
164	121	87	150	105	80	60	20	2	Plastic	NSYTBS16128	NSYTBS16128T	NSYTBP16128	NSYTBP16128T
192	121	87	175	105	80	60	20	2	Plastic	NSYTBS19128	NSYTBS19128T	NSYTBP19128	NSYTBP19128T
		105	175	105	100	60	40	2	Plastic	NSYTBS191210H	NSYTBS191210HT	NSYTBP191210H	NSYTBP191210HT
	164	87	175	150	80	60	20	1	Plastic	NSYTBS19168	NSYTBS19168T	NSYTBP19168	NSYTBP19168T
		105	175	150	100	60	40	1	Plastic	NSYTBS191610H	NSYTBS191610HT	NSYTBP191610H	NSYTBP191610HT
241	194	87	225	175	80	60	20	1	Plastic	NSYTBS24198	NSYTBS24198T	NSYTBP24198	NSYTBP24198T
		107	225	175	100	80	20	1	Plastic	NSYTBS241910	NSYTBS241910T	NSYTBP241910	NSYTBP241910T
		107	225	175	100	60	40	1	Plastic	NSYTBS241910H	NSYTBS241910HT	NSYTBP241910H	NSYTBP241910HT
		127	225	175	120	80	40	1	Plastic	NSYTBS241912H	NSYTBS241912HT	NSYTBP241912H	NSYTBP241912HT
291	241	88	275	225	80	60	20	1	Plastic	NSYTBS29248	NSYTBS29248T	NSYTBP29248	NSYTBP29248T
		128	275	225	120	100	20	1	Plastic	NSYTBS292412	NSYTBS292412T	NSYTBP292412	NSYTBP292412T
		128	275	225	120	60	60	1	Plastic	NSYTBS292412H	NSYTBS292412HT	NSYTBP292412H	NSYTBP292412HT
		168	275	225	160	100	60	1	Plastic	NSYTBS292416H	NSYTBS292416HT	NSYTBP292416H	NSYTBP292416HT
341	291	128	325	275	120	100	20	1	Plastic	NSYTBS342912	NSYTBS342912T	NSYTBP342912	NSYTBP342912T
		168	325	275	160	100	60	1	Plastic	NSYTBS342916H	NSYTBS342916HT	NSYTBP342916H	NSYTBP342916HT

Mounting plates



Characteristics	Mounting plates	
	Mounting plates made to adapt to all usage scenarios.	
Material	Galvanised-steel	Insulating polyester plate reinforced with fibreglass, halogen-free: glow wire resistance 750ºC according to IEC 60695-2-11.
Thickness	15/10e mm	25/10e mm
Installation	■ Fixing by means of Ø 4-mm self-tapping screws, Pozidrive and slotted head, ref. **NSYAMFSTB** ■ To raise the plate, use the stand-offs ref. **NSYAMFET154TB**, **NSYAMFET204TB**, **NSYAMFET304TB** and the screw **NSYAMFESTB** ■ To stack several mounting plates, use the spacers, ref. **NSYAMFEP154TB**, **NSYAMFEP204TB**, **NSYAMFEP304TB** and the screw **NSYAMFESTB**	
Supply	Plates supplied without screws	

Box (mm)		Dimensions (mm)		Minor pack.	References	
Height	Width	A	B			
192	164	168.5	140	1	**NSYAMPM1916TB**	**NSYAMPA1916TB**
241	194	215	168.5	1	**NSYAMPM2419TB**	**NSYAMPA2419TB**
291	241	265	215	1	**NSYAMPM2924TB**	**NSYAMPA2924TB**
341	291	315	265	1	**NSYAMPM3429TB**	**NSYAMPA3429TB**

Insulating industrial boxes
Selection guide



Overall external dimensions (mm)			Overall internal dimensions (mm)			Body (mm)	Cover (mm)	Minor pack.	Boxes equipped with IP54 ABS buttons		ABS button boxes, to be equipped		
Height	Width	Depth	Height	Width	Depth				Function	References	No. of holes	Cover	References
74	74	83	-	-	-	-	-	1	Emergency switching off	**XALEK1702** (1)	-	-	-
116	74	62	105	65	55	45	10	5	-	-	2	Grey	**XALE2**
		62	105	65	55	45	10	5	-	-	3	Grey	**XALE3**
		75	-	-	-	-	-	1	Start / stop	**XALE2141**	-	-	-
		75	-	-	-	-	-	1	Up / down / stop	**XALE3255**	-	-	-

(1) Ref. ***XALEK1702*** *houses an emergency switching off palm button with mechanical locking according to standards IEC 60364-5-53 and 60947-5-5.*

Button description

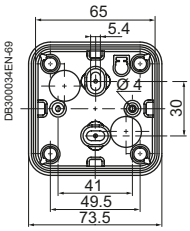
- Emergency switching off function with a red, Ø 40 mm, "turn to unlock" palm button.
- Start / Stop function with 2 push buttons.
- Up / Down / Stop function with 3 push buttons.
- Technical features of the switches:
  - "NC" switch with positive opening manoeuvre according to IEC 60947-5-1 appendix K,
  - mechanical durability of the emergency switch: 0.1 million cycles,
  - mechanical durability of the "NC" and "NO" switches: 5 million cycles,
  - protection against short circuits: 10 A.

Function	Type			
	"NO"	"NC"	"C / O"	Type of push
Emergency switching off	1	1	-	Latching, red
Start/stop				
Start	1	-	-	Flush, green
Stop	-	1	-	Projecting, red
Up / down / stop				
Up	-	-	1	Flush, black
Down	-	-	1	Flush, white
Stop	-	1	-	Projecting, red
	DB300033	DB300033	DB300033	

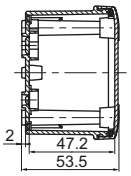
Insulating industrial boxes
Dimensions

Box of 74 x 74 x 54 mm (external dimensions) NSYTB...775

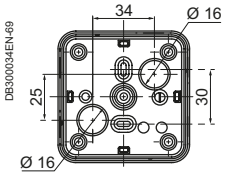
Interior



Side

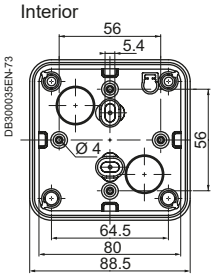


Rear

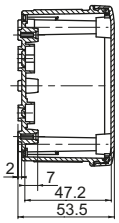


Box of 89 x 89 x 54 mm (external dimensions) NSYTB...885

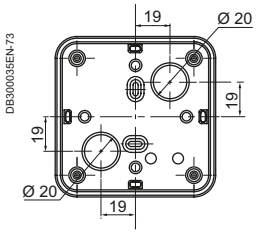
Interior



Side

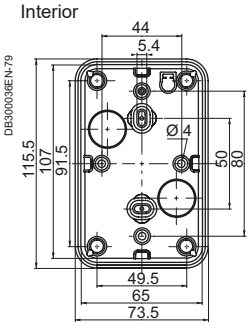


Rear

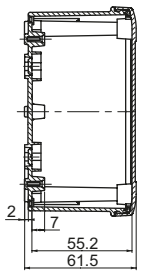


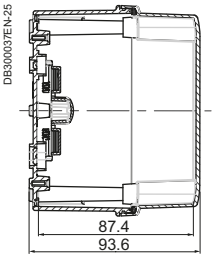
Box of 116 x 74 x 62 or 94 mm (external dimensions) NSYTB...1176 or NSYTB...1179

Interior

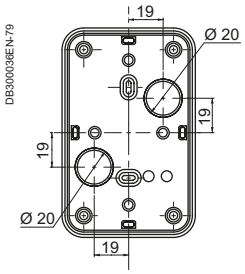


Side



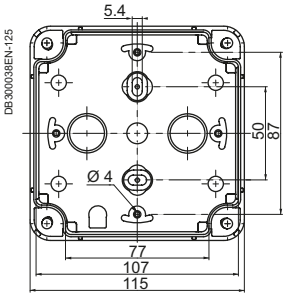


Rear

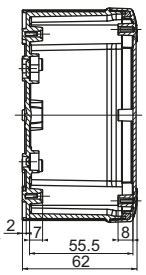


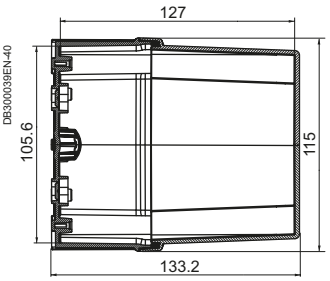
Box of 116 x 116 x 62 or 133 mm (external dimensions) NSYTB...11116 or NSYTB...111113

Interior

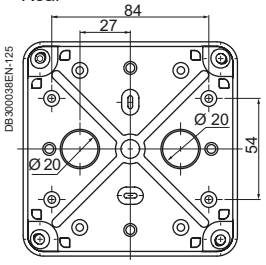


Side

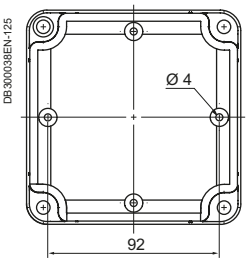




Rear

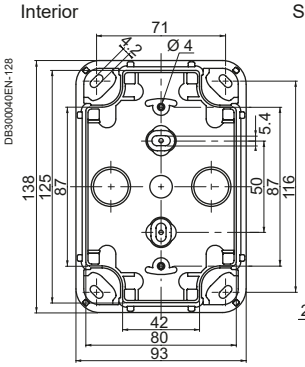


Cover

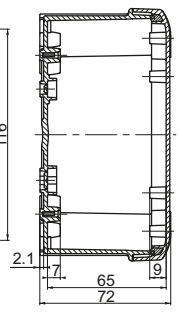


Box of 138 x 93 x 72 mm (external dimensions) NSYTB...1397

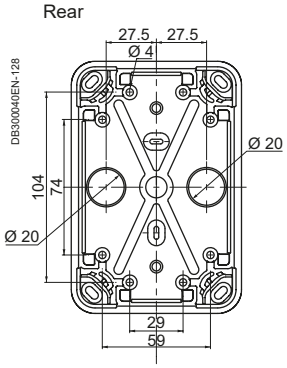
Interior



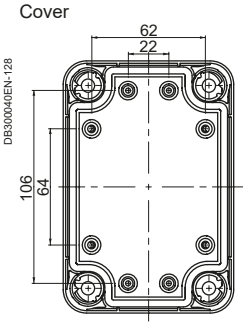
Side



Rear



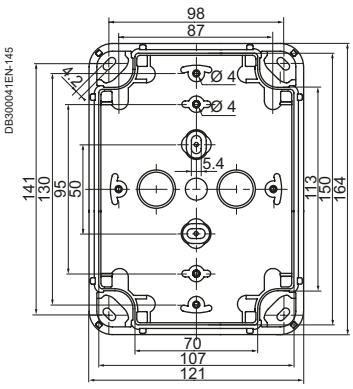
Cover



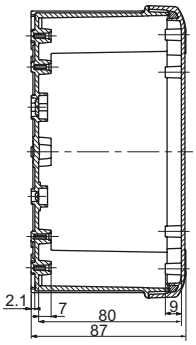
Insulating industrial boxes
Dimensions

Box of 164 x 121 x 87 mm (external dimensions) NSYTB...16128

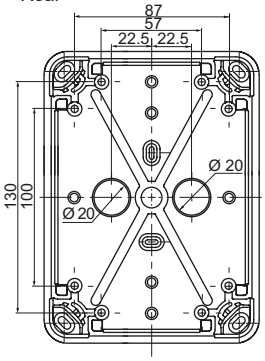
Interior



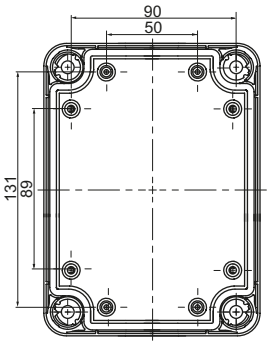
Side



Rear

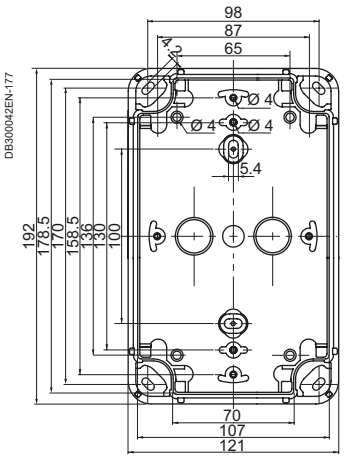


Cover

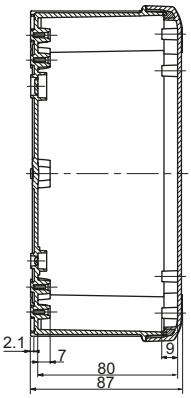


Box of 192 x 121 x 87 or 105 mm (external dimensions) NSYTB...19128 or NSYTB...191210

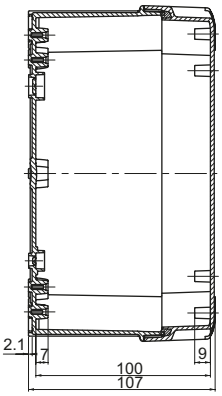
Interior



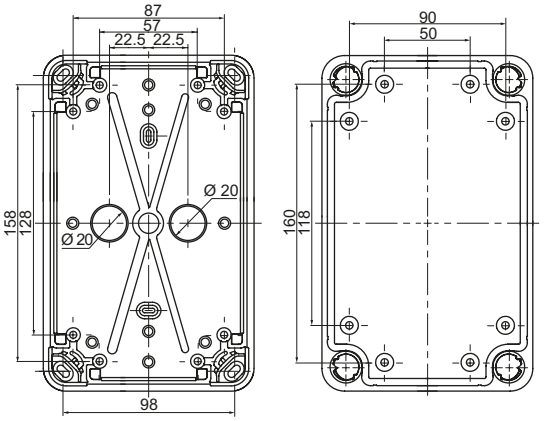
Side
Height 80 mm
(60 + 20)



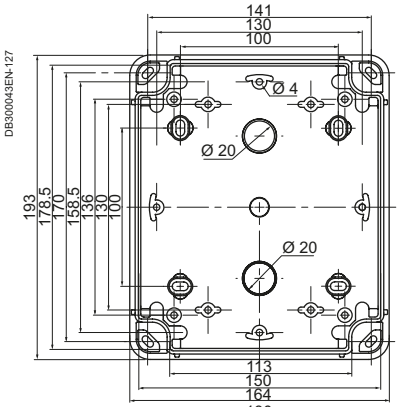
Rear
Height 100 mm
(60 + 40)



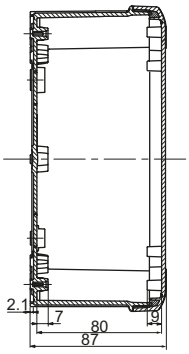
Cover



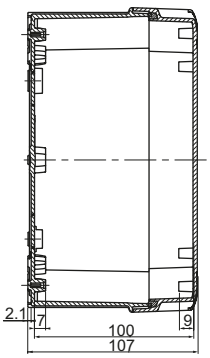
Box of 192 x 164 x 87 or 105 mm (external dimensions) NSYTB...19168 or NSYTB...191610

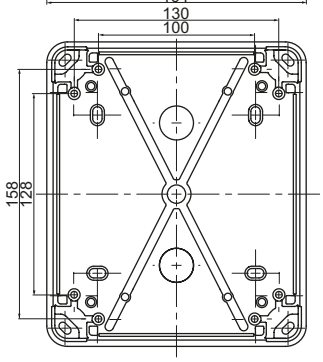


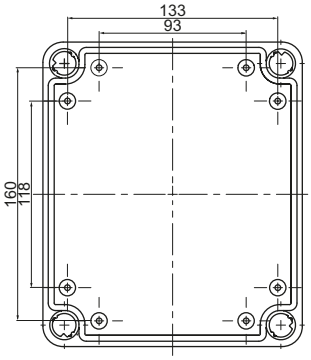
Height 80 mm
(60 + 20)



Height 100 mm
(60 + 40)

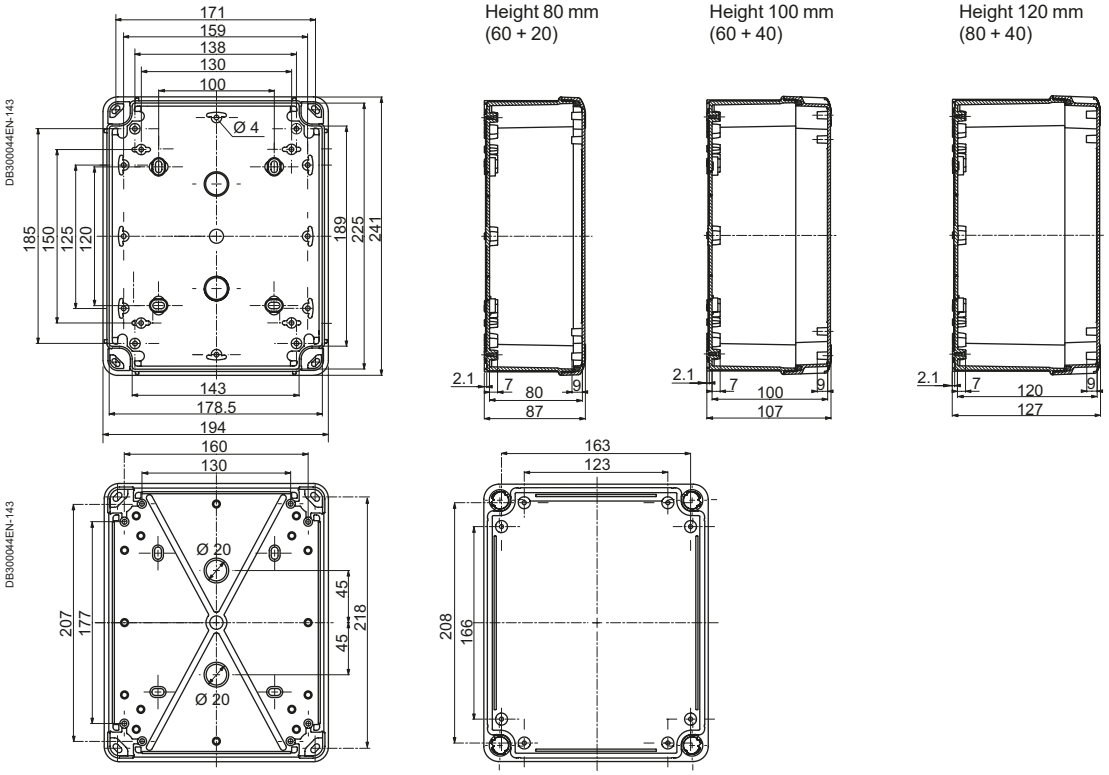




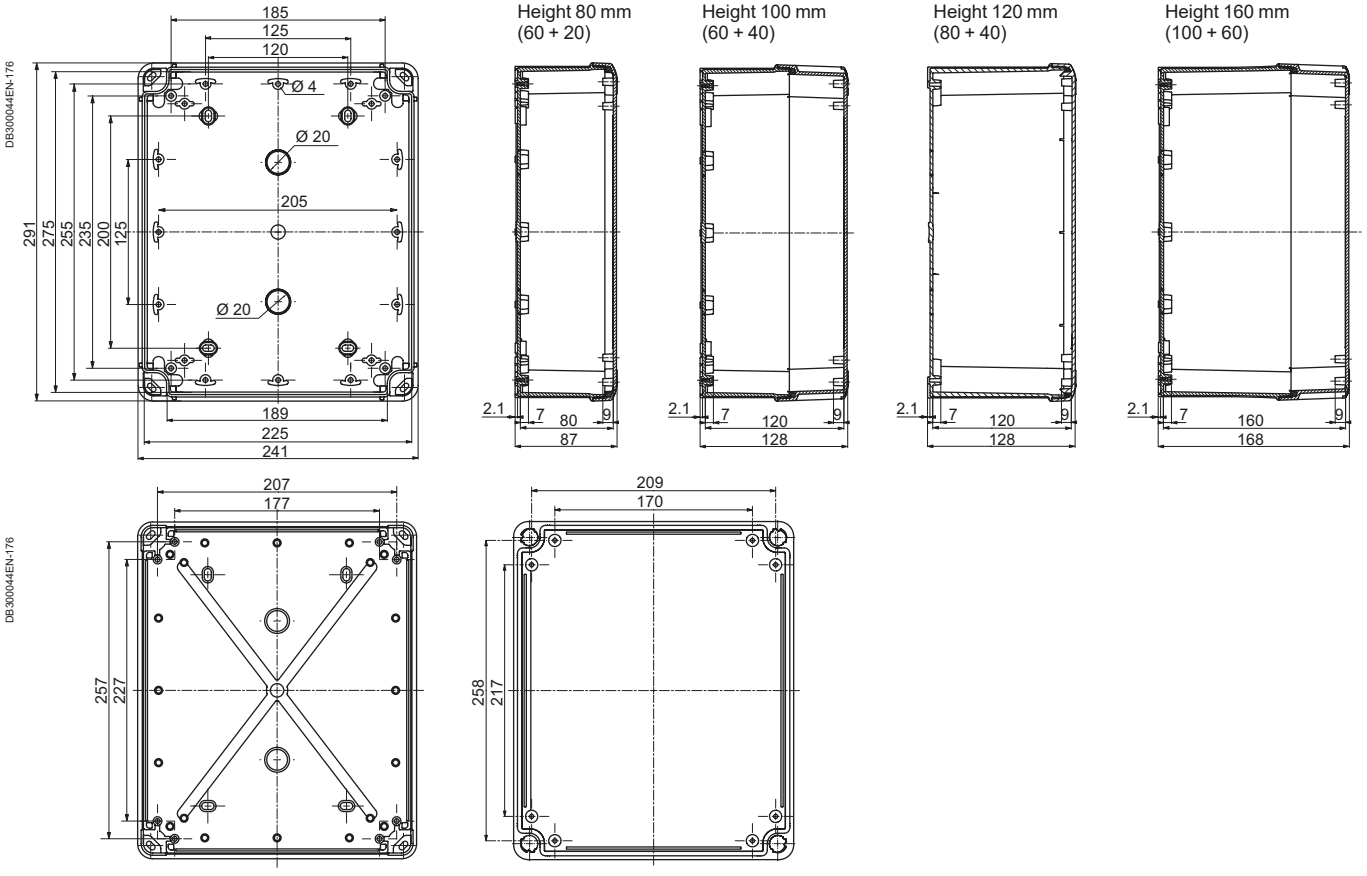


Insulating industrial boxes
Dimensions

Box of 241 x 194 x 87, 107 or 127 mm (external dimensions) NSYTB...24198, NSYTB...241910 or NSYTB...241912

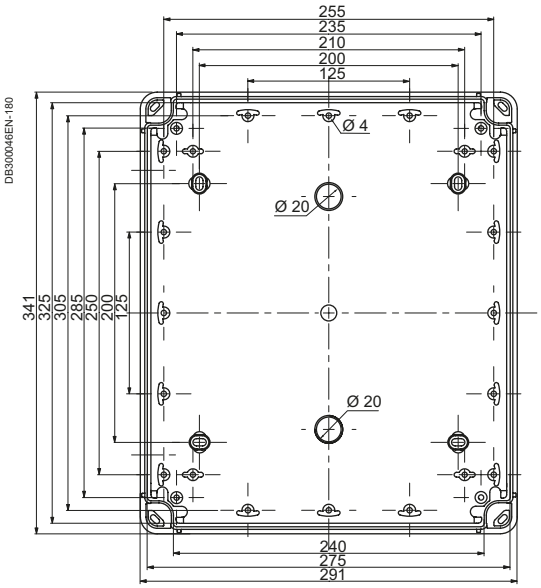


Box of 291 x 241 x 88, 128 or 168 mm (external dimensions) NSYTB...29248, NSYTB...292412 or NSYTB...292416

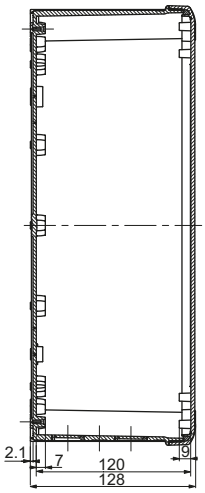


Insulating industrial boxes
Dimensions

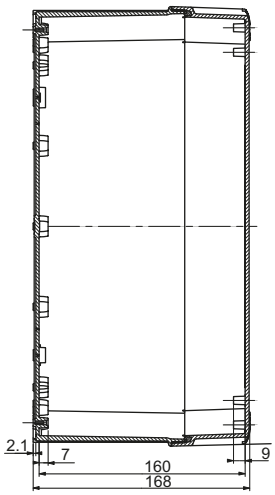
Box of 341 x 291 x 128 or 168 mm (external dimensions) NSYTB...342912 or NSYTB...342916

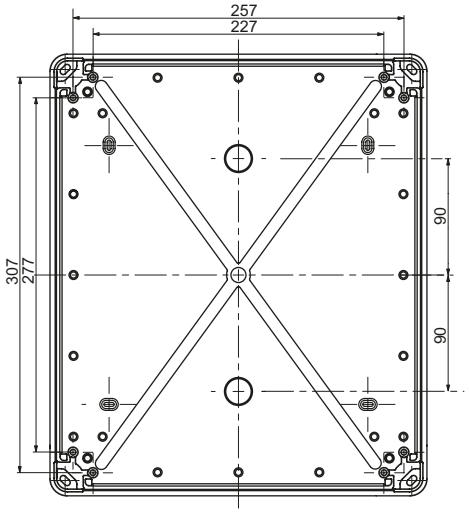


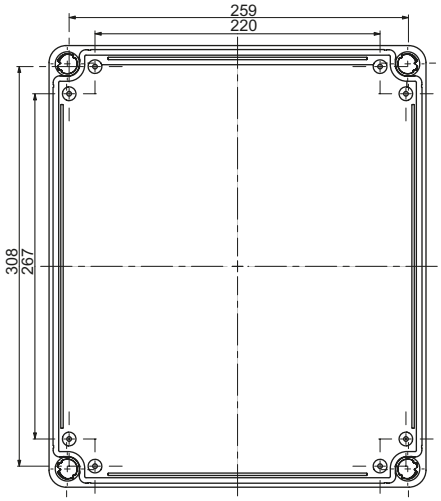
Height 120 mm
(80 + 40)



Height 160 mm
(100 + 60)

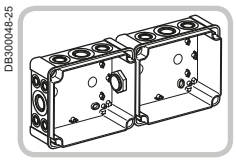






Insulating industrial boxes
Specific accessories

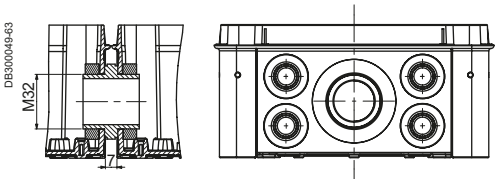






Characteristics	Coupling kit	Sealed anti-condensation valve
	The coupling kit allows you to join several boxes with dimensions from 138 x 93 mm.	Controls the pressure to avoid condensation following an internal temperature increase. **Applications** Protection of equipment for luminaires, industrial control, transportation, pumps, etc.
Material	Polystyrene, glow wire resistance: 650°C according to IEC 60695-2-11	PA6- UL 94 V2
Ingress protection rating	IP66 according to IEC 60529	IP68 according to IEC 60529
Installation	The kit is installed by drilling a hole with Ø 32 mm in the boxes to be coupled	The valve is installed by drilling a hole with Ø 12 mm in the box
Usage temperature	-	-40...+105°C
Supply	The kit consists of 2 linking parts, nuts and seals	10 valves, nuts and seals

Drill Ø	Minor pack.	Reference	Permeability (1)	Pressure difference (2)	References
32 mm	1	**13934**	-	-	-
M12	10	-	16 litres/h	ΔP < 1 bar	**NSYCAG12LPH1**
M12	10	-	120 litres/h	ΔP < 0.1 bar	**NSYCAG12LPH2**

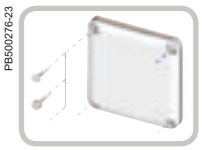


(1) Air flow under ΔP = 0.7 bar.
(2) Condition for IP68.

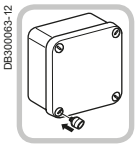
Cover accessories



Triangle *Double bar*







Characteristics	Set of 4 shape screws	Pack of 4 handles
	■ The Thalassa boxes are delivered as standard with slotted-head screws for flat screwdrivers from 4 to 5.5 mm. ■ With box sizes from 138 x 93 x 72 mm, these screws can be replaced for screws with different standardised heads, to comply with most cases. ■ After removing the standard screw, simply position the new screw by pressing on it. ■ The adapter clips (intermediate parts for tightening the cover on the body of the box) are the same as those for the standard screws. They are not delivered with the shape screws (see drawing on page 144). ■ A single key for opening the boxes as well as the other enclosures of your installation.	■ The handle (or thumbwheel) allows the screws to be handled without any tools. It is ideally associated with a box equipped with hinges. ■ It snaps onto the head of the standard plastic screw.

Type		Minor pack.	Height of the lid (mm)			
			20	40	60	
Triangle	6.5 mm	1	**NSYAEDST620TB** (1)	-	-	-
	8 mm	1	**NSYAEDST820TB**	-	-	-
Double bar	3 mm	1	**NSYAEDSB320TB**	-	-	-
	5 mm	1	**NSYAEDSB520TB**	-	-	-
Spare standard plastic screw		1	**NSYAEDS20TB**	**NSYAEDS40TB**	**NSYAEDS60TB**	-
Pack of 4 handles		1	-	-	-	**NSYAEDKTB**

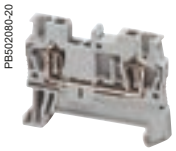
(1) CNOMO.

Insulating industrial boxes
Specific accessories

Terminal blocks



NSYTRV••

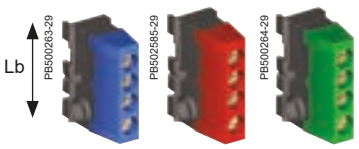


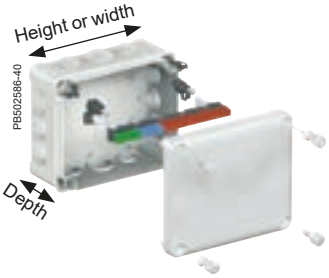
NSYTRR••



NSYTRP••

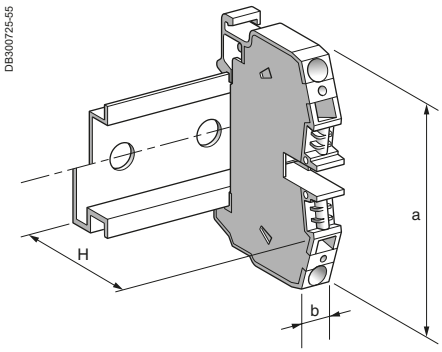
Characteristics	DIN rail terminal blocks								
	■ The new Linergy TR terminal blocks have 3 types of connections: screw, spring or "push-in" and they can be mounted on a DIN rail. ■ Available in grey, blue, orange, red, green, black or white color.								
Minor pack.	50								
Type	**Screw connection**				**Spring connection**				**"Push-in" connection**
	H (mm)	**W (mm)**	**D (mm)**	**References**	**H (mm)**	**W (mm)**	**D (mm)**	**References**	**References**
Passthrough, 2.5 mm², grey	47.7	5.2	47.5	**NSYTRV22**	36.5	5.2	48.5	**NSYTRR22**	**NSYTRP22**
Passthrough, 2.5 mm², blue	47.7	5.2	47.5	**NSYTRV22BL**	36.5	5.2	48.5	**NSYTRR22BL**	**NSYTRP22BL**
Protective earth, 2.5 mm²	47.7	5.2	47.5	**NSYTRV22PE**	36.5	5.2	48.5	**NSYTRR22PE**	**NSYTRP22PE**
Passthrough, 4 mm², grey	47.7	6.2	47.5	**NSYTRV44**	36.5	6.2	56	**NSYTRR42**	**NSYTRP42**
Passthrough, 4 mm², blue	47.7	6.2	47.5	**NSYTRV44BL**	36.5	6.2	56	**NSYTRR42BL**	**NSYTRP42BL**
Protective earth, 4 mm²	47.7	6.2	47.5	**NSYTRV44PE**	36.5	6.2	56	**NSYTRR42PE**	**NSYTRP42PE**

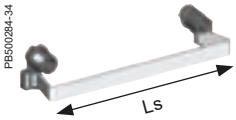




Characteristics	4-hole terminal blocks		
	■ The terminal-block support bar is particularly well suited to the thermoplastic boxes. ■ Boxes with sizes from 192 x 116 mm can accommodate a terminal-block support bar of 12 x 2 mm. ■ The screwing terminal blocks are easily clipped onto this bar. ■ Terminal-block connection capacity: see the selection table below.		
Minor pack.	10	5	5
Type	**Red (live)**	**Blue (neutral)**	**Green (earth)**
4-hole terminal blocks* 2 x 10^2 + 2 x 16^2	**IMT34003**	**IMT34005**	**IMT34007**
Earth terminal block** 2 x 25^2	**IMT34009**	-	-

** Terminal block length (Lb): 30 mm.*
*** The earth terminal snap fits into boxes with dimensions of less than 116 x 116 mm.*





Terminal-block support bar				No. of Terminal blocks 2 x 10^2 + 2 x 16^2 4 holes	Support length Ls (mm)
Height or width	**Min. depth**	**Minor pack.**	**References**		
192	87	1	**IMT34000**	4	140
241	87	1	**IMT34001**	6	185
291	128	1	**IMT34002**	8	235

*Discover our complete terminal blocks range in **LVYED213001EN**.*

Insulating industrial boxes
Specific accessories

Hinges

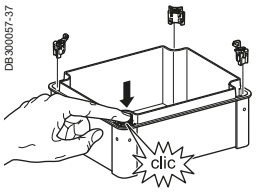


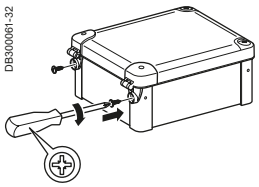


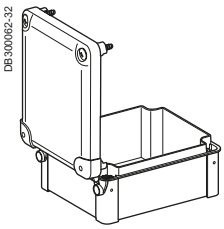


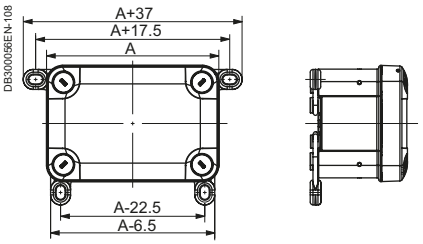


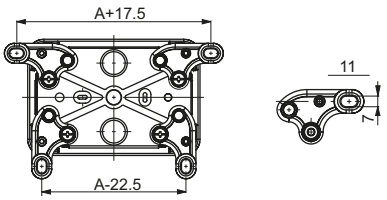
Characteristics	Set of 2 hinges		Set of 4 fixing lugs
	■ The hinges can be adapted to all covers with a height of 20 and 40 mm with dimensions from 138 x 93 mm. ■ The hinge allows the lid to open fully to 200°.		■ Plastic fixing lugs for installation on boxes with dimensions from 116 x 116 mm. ■ Option of vertical or horizontal installation.
Ingress protection rating	IP66 according to IEC 60529		-
Installation	■ The hinge does not require any machining and is installed easily even with the box already equipped		Installation by a single screw at the last moment, with the box closed and equipped
Maximum load	Hinged cover: 10 kg/m²		■ Body: 30 kg/m² ■ Cover: 10 kg/m²
Minor pack.	1		1
Supply	The hinges (2 per set) are delivered with the fixings		4 lugs + screws
	Height of the lid (mm)	**References**	**Reference**
	20	**NSYAEDH20TB**	**NSYAEFTB**
	40	**NSYAEDH40TB**	











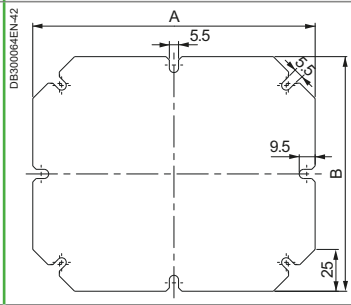
Insulating industrial boxes
Specific accessories

Installation accessories



Characteristics	Mounting plates	
	Mounting plates made to adapt to all usage scenarios.	
Material	Galvanised-steel	Insulating polyester plate reinforced with fibreglass, halogen-free: glow wire resistance 750°C according to IEC 60695-2-11.
Thickness	15/10e mm	25/10e mm
Installation	■ Fixing by means of Ø 4-mm self-tapping screws, Pozidrive and slotted head, ref. **NSYAMFSTB** ■ To raise the plate, use the stand-offs ref. **NSYAMFET154TB**, **NSYAMFET204TB**, **NSYAMFET304TB** and the screw **NSYAMFESTB** ■ To stack several mounting plates, use the spacers, ref. **NSYAMFEP154TB**, **NSYAMFEP204TB**, **NSYAMFEP304TB** and the screw **NSYAMFESTB**	
Supply	Plates supplied without screws	

Box (mm)		Dimensions (mm)		Minor pack.	References	
Height	Width	A	B			
192	164	168.5	140	1	**NSYAMPM1916TB**	**NSYAMPA1916TB**
241	194	215	168.5	1	**NSYAMPM2419TB**	**NSYAMPA2419TB**
291	241	265	215	1	**NSYAMPM2924TB**	**NSYAMPA2924TB**
341	291	315	265	1	**NSYAMPM3429TB**	**NSYAMPA3429TB**



Accessories		Pack of 100 screws	
Ø 4 x 10 mm	1	**NSYAMFSTB**	**NSYAMFSTB**

Insulating industrial boxes
Specific accessories

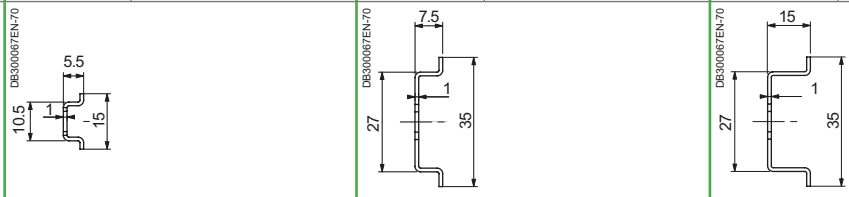
Installation accessories



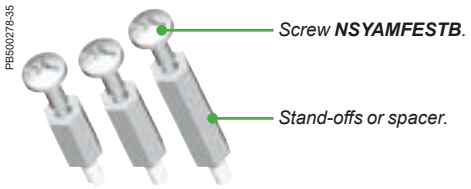
Box with 15 x 5-mm rail.

Box with two 35 x 7.5-mm rails.

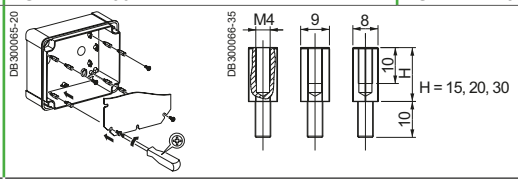
Characteristics	Rails					
	Symmetric DIN rails. ■ A 15 x 5-mm rail is provided for the compact terminal blocks. ■ To raise the rail, use stand-offs ref. **NSYAMFET154TB**, **NSYAMFET204TB**, **NSYAMFET304TB** and the screw **NSYAMFESTB**.					
Installation	Fixing of the rails with Ø 4-mm self-tapping screws, (not included), Pozidrive and slotted head, ref. **NSYAMFSTB**					
Supply	Supplied without screws (except for the 15 x 5 mm rails)					
For boxes with height or width	**15 x 5 mm**		**35 x 7.5 mm**		**35 x 15 mm**	
(mm)	**Minor pack.**	**References**	**Minor pack.**	**References**	**Minor pack.**	**References**
105	10	**NSYAMRD11155TB**	10	**NSYAMRD11357TB**	-	-
150	10	**NSYAMRD16155TB**	10	**NSYAMRD16357TB**	-	-
175	10	**NSYAMRD19155TB**	10	**NSYAMRD19357TB**	-	-
225	10	**NSYAMRD24155TB**	10	**NSYAMRD24357TB**	10	**NSYAMRD243515TB**
275	10	**NSYAMRD29155TB**	10	**NSYAMRD29357TB**	10	**NSYAMRD293515TB**
325	10	**NSYAMRD34155TB**	10	**NSYAMRD34357TB**	10	**NSYAMRD343515TB**



Accessories	Pack of 100 screws
Ø 4 x 10 mm	**NSYAMFSTB**



Characteristics		Stand-offs	Spacers
		Stand-offs consisting of a Ø 4-mm self-tapping thread at one end (for direct screwing into the rivets of the box) and an M4 tapping on the other end, for direct installation of a card with an M4 screw, ref. **NSYAMFESTB**, or of a spacer.	Spacer for installation on the stand-offs. M4 thread and tapping.
Material		Steel	Steel
Supply		Set of four M4 self-tapping stand-offs	Set of four M4 spacers
Height (mm)	**Minor pack.**	**References**	
15	1	**NSYAMFET154TB**	**NSYAMFEP154TB**
20	1	**NSYAMFET204TB**	**NSYAMFEP204TB**
30	1	**NSYAMFET304TB**	**NSYAMFEP304TB**



Accessories		Screw for stand-offs and spacers
		M4 x 10 mm screw for fixing cards on the spacers and stand-offs. ■ The plate always at the right level. ■ A single Ø 4-mm screw for fixing any element.
Supply		Batch of 50 screws
	Minor pack.	**References**
	1	**NSYAMFESTB**

Insulating industrial boxes
Common accessories

Simple cable entries


PB500266-52


PB500975-16


PB500267-10


PB500976-11

Characteristics	Simple-1	Simple-2	Simple-3	Simple-4
	Mixed membrane entries for enclosure thickness 20/10e - 32/10e mm.	PVC adjustable cone-shaped entries for enclosure thickness 30/10e - 32/10e mm.	Quick cable entries for enclosure thickness 10/10e - 40/10e mm (5/10e - 20/10e mm for ref. **IMT36179**).	PVC adjustable cone-shaped entries for PG tubes or for enclosure thickness 12/10e - 15/10e mm.
Material	SBS	PVC	EPDM plastic	PVC
Colour	RAL 7035 light grey or RAL 9010 white	-	■ Grey cable entries: NCS 5500 ■ Black cable entries: NCS 9000	-
Cable entry material	Soft membrane		Combined	
Cable glands to be fitted	Not applicable			
Installation possibilities	On cable gland plate or directly on enclosure			
Flexibility of the installation	Low			
Reversibility	Medium			
Ingress protection rating	IP55 according to IEC 60529	IP55 according to IEC 60529	IP67 according to IEC 60529	IP55 according to IEC 60529
Cable retention	Low	Low	Medium	Low
Cable diameter (mm)	From 20 to 40	From 5 to 87	From 12 to 50	From 16 to 44
Cable Installation time	Fast	Fast	Fast	Fast
Quantity of cables to be fitted for a given surface	+	+	+	+
Cable entries for cables with connectors	No	No	No	No
Cut-out dimensions (mm)	Various circular hole diameters according to cable diameter			
External dimensions (mm)	-	From Ø 25 to 98	-	From Ø 25 to 52
Certificates	-	-	-	-
Standard	-	-	-	-
Flame resistance	750°C	-	750°C	-
References*				
See page	258	258	259	259


PB500099-9


PB503494

New


PB503493

New

Characteristics	Simple-5	Synthetic snap in cable gland	Stainless steel cable gland with lamellar insert
	ISO cable gland.	Without thread. Easy assembly and disassembly. Suitable for walls from 0.5 to 4mm thick.	Lamellar technology provides excellent resistance to traction as well as excellent torsional protection. For outdoor use, or for aggressive environments.
Material	PA6 Polyamide, neoprene gasket	PA6 Polyamide, neoprene gasket	Stainless steel AISI 304L or AISI 316L, neoprene gasket
Colour	RAL 7035 grey	RAL 7035, RAL 7001, RAL 9005. Other colours on demand	-
Cable entry material	Combined	Non armoured	Non armoured
Installation possibilities	On cable gland plate or directly on enclosure		
Flexibility of the installation	Low		
Reversibility	Medium		
Ingress protection rating	IP68 according to IEC 60529	IP66	IP68
Cable retention	High	High	High
Cable diameter (mm)	From 12 to 40	From 16 to 40	From 12 tp 40
Cable Installation time	Slow	Slow	Slow
Quantity of cables to be fitted for a given surface	+	+	+
Cable entries for cables with connectors	No	No	No
Thread type	-	Metric EN 60423. Other types are available on demand.	Metric EN 60423
Cut-out dimensions (mm)	Various circular hole diameters according to cable diameter		
External dimensions (mm)	From Ø 15 to 46	From Ø 22 to 46	From Ø 14 to 43
Certificates	Glow wire resistance: 960°C	UL 94 V-2 (except for the size M40)	UL 94 V-2
Standard	Compliance with VDE, UL and CSA	DIN EN 62444, UL 514B, UL 514B§8.26.7	DIN EN 62444, UL 514
Flame resistance	750 °C	-	-
Temperature range	-	-20°C to + 100°C	-20°C to + 100°C
References*			
See page	258	259	259

** For details, type the reference in the search engine of www.schneider-electric.com.*

Spare Parts


PB502997-39

Accessories bag
Reference
NSYTBPASBS

Insulating modular boxes
Introduction

> PLS boxes: polyester body with 5 options of covers (in polycarbonate or polyester).

PB502876-52

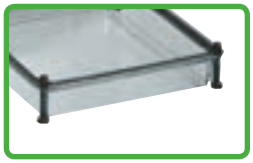


PB502791-61



Modular
The dimensions of the sides, multiples of 9 cm, allow the creation of assemblies.

PB502791



Protection
- IP65*.
- Gasket between body and cover.
- IK09.
- Insulation Class II.

PB502876



Easy
Bosses with inserts, at the rear of the body, for fixing plates or various supports.

Green Premium™

** Depending on the model.*

Prolonged exposure to UV radiation, wind and rain can cause aesthetics changes in the external surface of the enclosure.
Without affecting the technical properties according to IEC 62208.
For long exposure applications, it is recommended to use coloured enclosures available through the P&S offer.

This range can be configured according to your needs

4 differents services available:

Assemble to order

Mounting of standard accessories

Painting

Machining

See page 488 for details or consult our web site www.se.com

The customized solutions Configured or Specific types use existing ranges from Universal Enclosures standard offer as a base for its development.
Depending on the modifications made on the enclosures or accessories, they could affect the certification or declarations of conformity existing in the standard ranges.
The certifications and declarations of conformity needed for the solution must be defined early in the process as part of the offer specifications.

Insulating modular boxes
Characteristics

Class II

According to Reach and RoHs & Halogen free







Characteristics	Complete box	Insulating modular boxes with modular distribution chassis	Modular distribution chassis
	■ Insulating boxes that can be coupled by all their side surfaces, allowing the creation of the greatest variety of modular assemblies. ■ The product references show the two lateral dimensions in cm. ■ 14 sizes of insulating boxes; the sides are multiples of 9 cm. ■ Body made from polyester reinforced with fibreglass, moulded by hot compression, 9 sizes. ■ 3 types of cover available according to the sizes: □ standard cover, made from transparent polycarbonate with neoprene gasket, 45 mm high, or 95 mm high (final index A) according to the sizes, □ opaque polycarbonate cover (index C), with neoprene gasket, 45 mm high, or 95 mm high (final index A) according to the sizes, □ polyester reinforced with fiberglass cover (index P) with PUR gasket, 45 mm high. ■ Complete box includes body, cover, locking screws and sealing device. ■ The bodies (prefix F) and the covers (prefix T) are supplied separately as standard references. The separate covers are supplied without locking screws or sealing accessories. ■ The PLS enclosures with transparent cover are also offered in batches; the reference refers to the complete batch. ■ Excellent resistance to corrosion; can withstand most chemical agents. ■ Full insulation to create class II assemblies. ■ Standard lock with slot screws outside the volume of the boxes. Delivered with sealing system. ■ External wall-mounting by 4 lugs, to be ordered separately. ■ Service temperature: -40 to +80°C. ■ Bosses with M6 inserts for fixing the mounting plate. ■ Halogen-free and compliant with the RoHS directive.	PLS boxes, polyester body and PC transparent cover with hinges and wing screws for manual opening. Built-in DLS modular chassis, made up of an insulating protection panel, RAL 7011 colour, 35-mm DIN rails and a 2 x 16 + 5 x 6 mm^2 neutral/ earth connection strip. ■ Opening for cable entry, delivered with lock plate, ref. **NSYTL27270G**. ■ Double-insulating installation. ■ Plastic external hinges, allowing opening to 180°. ■ Removable 36-mm blanking covers (2 modules): 1 per row in the standard offer.	Built-in DLS modular chassis, made up of an insulating protection panel, RAL 7011 colour, 35-mm DIN rails and a 2 x 16 + 5 x 6 mm^2 neutral/ earth connection strip.
Colour	RAL 7035 grey (opaque bodies and cover)	-	-
Ingress protection rating	IP65	IP43	IP43
Mechanical protection rating	IK09	IK09	IK09
Certifications (see page 574)	■ Certification according to standard IEC 62208, guaranteeing IP, IK, resistance to heat and fire (self-extinguishing), insulation to 5000 V, and load of the mounting plate, 100 kg/m^2 ■ UL508A* CAN/CSA-C22.2 - Types 1, 2, 3, 3R, 3S, 4, 4X, 12 and 13	-	-
Installation	Outdoor installation: compliant with IEC 62208 regarding type tests specified in §9.12 (resistance to ultra-violet (UV) radiation) and §9.13 (resistance to corrosion). It is always advisable to install a canopy to avoid water stagnation on the upper part of the enclosure and protect against the sun radiation.	Indoor	Indoor
Options	-	The boxes can be equipped with a double-bar lock and handle ref. **NSYCL27M**, or a lock with key ref. **NSYCL27L405**, by specific demand	-
Supply	-	The modular chassis can be ordered separately	-

* ***NSYPLS***, ***NSYPLSP*** *and* ***NSYPLSC*** *followed by suffixes.*

Insulating modular boxes
Selection guide



Dimensions (mm)			Complete box			Complete boxes in batches	
Height	Width	Depth	Transparent cover	Opaque cover	Polyester cover	Transparent cover	Amount per batch
180	270	180	**NSYPLS1827G**	**NSYPLSC1827G**	**NSYPLSP1827G**	**NSYPLS1827LG**	56
270	270	180	**NSYPLS2727G**	**NSYPLSC2727G**	**NSYPLSP2727G**	**NSYPLS2727LG**	56
		230	**NSYPLS2727AG**	**NSYPLSC2727AG**	-	**NSYPLS2727ALG**	56
	360	180	**NSYPLS2736G**	**NSYPLSC2736G**	**NSYPLSP2736G**	**NSYPLS2736LG**	56
		230	**NSYPLS2736AG**	**NSYPLSC2736AG**	-	**NSYPLS2736ALG**	56
	540	180	**NSYPLS2754G**	**NSYPLSC2754G**	**NSYPLSP2754G**	**NSYPLS2754LG**	28
		230	**NSYPLS2754AG**	**NSYPLSC2754AG**	-	**NSYPLS2754ALG**	28
360	270	180	-	-	-	-	-
	360	180	**NSYPLS3636G**	**NSYPLSC3636G**	**NSYPLSP3636G**	**NSYPLS3636LG**	18
	540	180	**NSYPLS3654G**	**NSYPLSC3654G**	**NSYPLSP3654G**	**NSYPLS3654LG**	28
		230	**NSYPLS3654AG**	**NSYPLSC3654AG**	-	**NSYPLS3654ALG**	28
	720	230	**NSYPLS3672AG**	**NSYPLSC3672AG**	-	**NSYPLS3672ALG**	27
540	270	180	-	-	-	-	-
	540	180	**NSYPLS5454G**	**NSYPLSC5454G**	**NSYPLSP5454G**	**NSYPLS5454LG**	14
		230	**NSYPLS5454AG**	**NSYPLSC5454AG**	-	**NSYPLS5454ALG**	14
	720	230	**NSYPLS5472AG**	**NSYPLSC5472AG**	-	**NSYPLS5472ALG**	14

** Approximate weight.*



Dimensions (mm)			Bodies	Low covers: 45 mm		
Height	Width	Depth (body + cover)	135 mm	Transparent	Opaque	Polyester
180	270	180	**NSYFPLS1827G**	**NSYTPLS1827**	**NSYTPLSC1827G**	**NSYTPLSP1827G**
270	270	180	**NSYFPLS2727G**	**NSYTPLS2727**	**NSYTPLSC2727G**	**NSYTPLSP2727G**
		230	**NSYFPLS2727G**	-	-	-
	360	180	**NSYFPLS2736G**	**NSYTPLS2736**	**NSYTPLSC2736G**	**NSYTPLSP2736G**
		230	**NSYFPLS2736G**	-	-	-
	540	180	**NSYFPLS2754G**	**NSYTPLS2754**	**NSYTPLSC2754G**	**NSYTPLSP2754G**
		230	**NSYFPLS2754G**	-	-	-
360	360	180	**NSYFPLS3636G**	**NSYTPLS3636**	**NSYTPLSC3636G**	**NSYTPLSP3636G**
	540	180	**NSYFPLS3654G**	**NSYTPLS3654**	**NSYTPLSC3654G**	**NSYTPLSP3654G**
		230	**NSYFPLS3654G**	-	-	-
	720	230	**NSYFPLS3672G**	-	-	-
540	540	180	**NSYFPLS5454G**	**NSYTPLS5454**	**NSYTPLSC5454G**	**NSYTPLSP5454G**
		230	**NSYFPLS5454G**	-	-	-
	720	230	**NSYFPLS5472G**	-	-	-

Insulating modular boxes
Selection guide





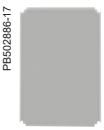
	Insulating modular boxes with modular distribution chassis				Modular distribution chassis
	No. of 18 mm modules	No. of rows	Weight* (kg)	References	References
	12	1	1.7	**NSYPLS1827DLS12G**	**NSYDLS12**
	24	2	2.5	**NSYPLS2727DLS24G**	**NSYDLS24**
	-	-	-	-	-
	-	-	-	-	-
	-	-	-	-	-
	-	-	-	-	-
	-	-	-	-	-
	24	2	2.7	**NSYPLS3627DLS24G**	**NSYDLS242**
	36	3	2.8	**NSYPLS3627DLS36G**	**NSYDLS36**
	-				-
	-	-	-	-	-
	-	-	-	-	-
	-	-	-	-	-
	48	4	3.8	**NSYPLS5427DLS48G**	**NSYDLS48**
	-	-	-	-	-
	-	-	-	-	-
	-	-	-	-	-











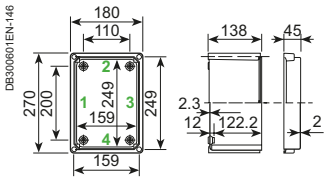


	High covers: 95 mm		Metallic mounting plates		Insulating mounting plates	
	Transparent	Opaque	Plain	Telequick	Polyester	Bakelite
	-	-	**NSYPMM1827**	**NSYPMR1827**	**NSYPMA1827G**	**NSYPMB1827**
	-	-	**NSYPMM2727**	**NSYPMR2727**	**NSYPMA2727G**	**NSYPMB2727**
	NSYTPLS2727A	**NSYTPLSC2727AG**				
	-	-	**NSYPMM2736**	**NSYPMR2736**	**NSYPMA2736G**	**NSYPMB2736**
	NSYTPLS2736A	**NSYTPLSC2736AG**				
	-	-	**NSYPMM2754**	**NSYPMR2754**	**NSYPMA2754G**	**NSYPMB2754**
	NSYTPLS2754A	**NSYTPLSC2754AG**				
	-	-	**NSYPMM3636**	-	**NSYPMA3636G**	**NSYPMB3636**
	-	-	**NSYPMM3654**	**NSYPMR3654**	**NSYPMA3654G**	**NSYPMB3654**
	NSYTPLS3654A	**NSYTPLSC3654AG**				
	NSYTPLS3672A	**NSYTPLSC3672AG**	**NSYPMM3672**	**NSYPMR3672**	**NSYPMA3672G**	**NSYPMB3672**
	-	-	**NSYPMM5454**	**NSYPMR5454**	**NSYPMA5454G**	**NSYPMB5454**
	NSYTPLS5454A	**NSYTPLSC5454AG**				
	NSYTPLS5472A	**NSYTPLSC5472AG**	**NSYPMM5472**	**NSYPMR5472**	**NSYPMA5472G**	**NSYPMB5472**

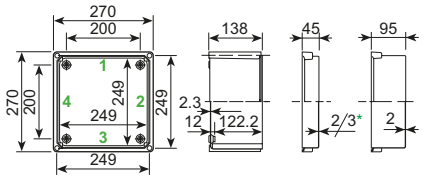
Insulating modular boxes
Dimensions

The surfaces are numbered to enable identification of the surfaces to be drilled in the customised offer.

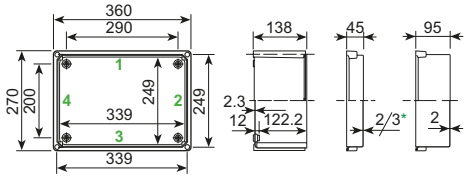
NSYPLS●●●1827G



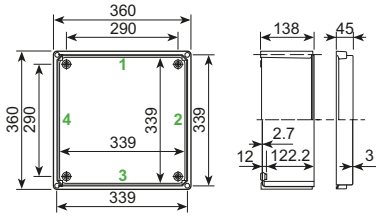
NSYPLS●●●2727●G



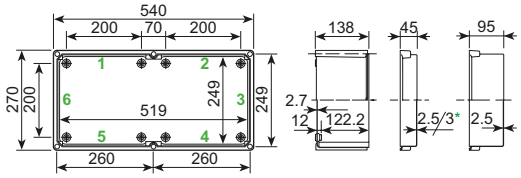
NSYPLS●●●2736●G



NSYPLS●●●3636G

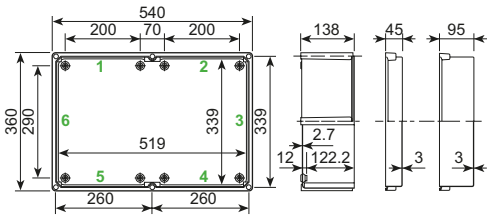


NSYPLS●●●2754●G

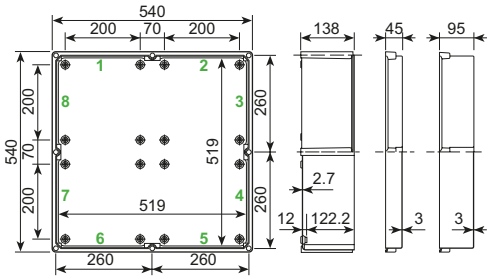


** Thickness of 30/10e mm for the polyester cover.*

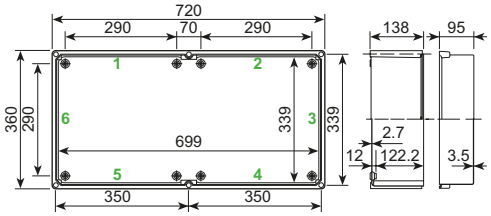
NSYPLS●●●3654●G



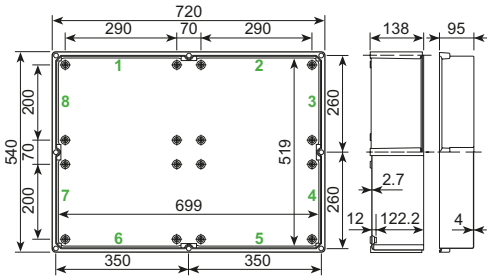
NSYPLS●●●5454●G



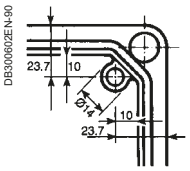
NSYPLS●●●3672●G



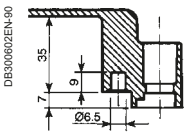
NSYPLS●●●5472●G



A



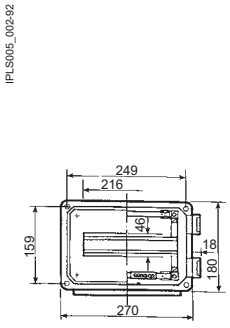
B



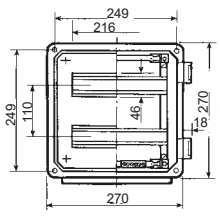
A - B: Internal view of the corners of the polyester covers with bosses for inserts ref. **NSYTEX5** *for M5 screws.*

Insulating modular boxes with modular distribution chassis

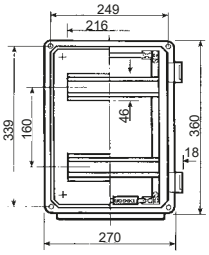
NSYPLS1827DLS12G



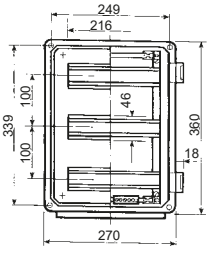
NSYPLS2727DLS24G



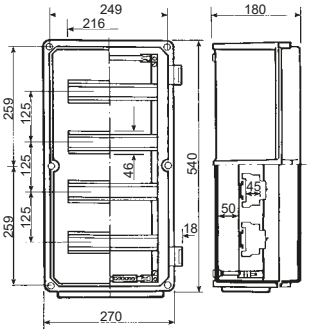
NSYPLS3627DLS24G



NSYPLS3627DLS36G



NSYPLS5427DLS48G



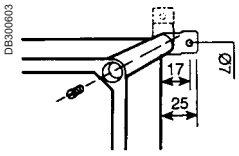
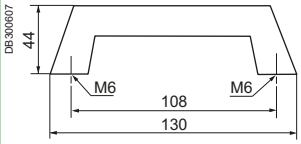
Insulating modular boxes
Accessories

Fixing

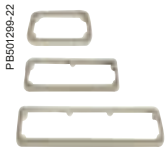






Characteristics	Wall-fixing lugs		Post-fixing device		Plastic carrying handle
Material	Passivated zinc-coated steel	Stainless-steel	-		Plastic
Ingress protection rating	-		-		IP43
Supply	Set of 4 lugs and fixings		Contains all the elements required for mounting on a post		-
	References		**For installation on a surface with dimensions (mm)**	**References**	**Reference**
	NSYPF27N	**NSYPF27X**	270	**NSYFSP27270**	**NSYATM27**
			360	**NSYFSP27360**	
			540	**NSYFSP27540**	
					

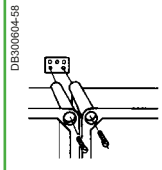
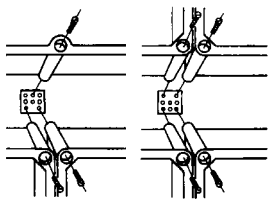
Coupling









Characteristics	Coupling frames (3)			Side plates (3)		Box coupling unit piece	
	Use the boxes dimensional drawings to identify what coupling frame you need. Consider the sides and surfaces you will join.			-		For coupling 2, 3 or 4 boxes, with optional wall-mounting.	
Ingress protection rating	■ Frame with full opening: IP65 between enclosures ■ Frame with partial opening: IP44 between enclosures			IP65		-	
Supply	-			-		To be ordered in multiples of 25	
References						**For coupling (2)**	
For surfaces (mm)	**Opening (mm)**	**Full-opening frame**	**Partial-opening frame**	**Side plates (mm)**		**2 boxes**	**3 or 4 boxes**
180	110	**NSYUM27180**	-	-	-	-	-
270	200	**NSYUM27270**	**NSYUCC270** (1)	200	**NSYTL27270G**	-	-
360	290	**NSYUM27360**	**NSYUCC360** (1)	290	**NSYTL27360G**	-	-
-	-	-	-	-	-	**NSYPS2C27**	**NSYPS4C27**
							

(1) References by unit. Order by multiples of 10 units (10, 20, 30, etc.).
(2) M6 x 8 screw with cylindrical head.
(3) Not UL certified

Insulating modular boxes
Accessories

Locking


PB501305-20

With slotted head.


PB501306-20

With wings.


PB501307-20

With plumbable triangular head.


PB501308-29


PB501309-30


PB501310-37


PB501311-31

Characteristics		Closing for PLS boxes	Closing locks	Sealing and opening
Options		-	Option of installing a side lock, on the opposite side to where the hinges are installed	-
Ingress protection rating		-	IP43	-
Supply		Set of 4, 6 or 8 screws. The references also include 4 M6 screws for fixing mounting plates and 2 steel sealing accessories	-	-
Name	**Tool**	**References**		
Set of 4 slotted screws (1)	Flat-blade screwdriver	**NSYTCD274**	-	-
Set of 6 slotted screws (1)	Flat-blade screwdriver	**NSYTCD276**	-	-
Set of 8 slotted screws (1)	Flat-blade screwdriver	**NSYTCD278**	-	-
Set of 4 wing screws (2)	Manual	**NSYTCM274**	-	-
Set of 6 wing screws (2)	Manual	**NSYTCM276**	-	-
Set of 8 wing screws (2)	Manual	**NSYTCM278**	-	-
Set of 4 triangular screws	NSYLT27	**NSYTCT274**	-	-
Set of 6 triangular screws		**NSYTCT276**	-	-
Set of 8 triangular screws		**NSYTCT278**	-	-
Double-bar side lock and handle	NSYDBP	-	**NSYCL27M**	-
Side lock with key 405		-	**NSYCL27L405**	-
Plastic-coated sealing triangle (3)	-	-	-	**NSYPPS27**
Triangular key for PLS	-	-	-	**NSYLT27**

*(1) Included in the standard references of boxes **NSYPLS•••**.*
*(2) Included in the standard references of modular distribution boxes **NSYPLS•••DLS•••**.*
(3) References by unit. Order by multiples of 10 units (10, 20, 30, etc.).

Other


PB502888-37


PB501304-34


PB501314-34

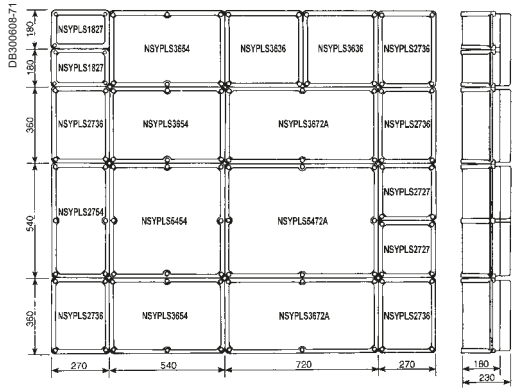

PB501315-19

Characteristics	Hinges (1)		Insulators for busbar	
	■ External hinges. ■ To open the door to 180°.	■ Internal hinges. ■ To open the door to 180°.	■ For 4 bars of 15 or 20 mm. ■ Utilisation on the 270 mm side.	■ For 1 bar of 15, 20 or 30 mm.
Material	Plastic	Brass	-	-
Supply	Set of 2 hinges	Set of 2 hinges	-	References by unit. Order by multiples of 5 units (5, 10, 15, etc.)
References				
	NSYBE27G (1)	**NSYBL27**	**NSYAE25**	**NSYAS25**

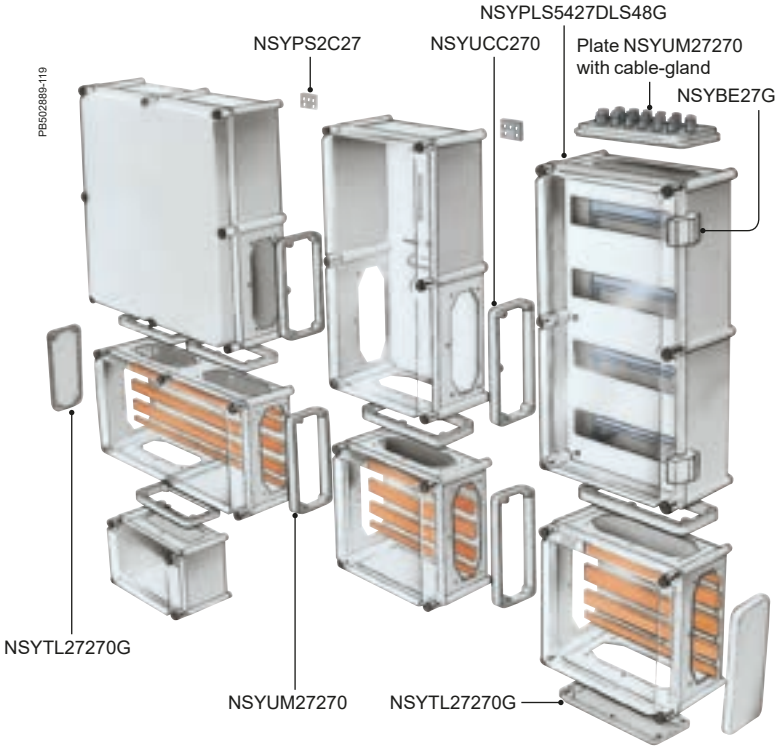
(1) IP degree not guaranteed as it depends on customer process.

Insulating modular boxes
Accessories

Examples of assembly



All the boxes can be joined by their lateral surfaces, using the coupling frames **NSYUM•••** or **NSYUCC•••**, and the joining and fixing pieces **NSYPS2C27** and **NSYPS4C27**.



Insulating wall-mounting enclosures

Insulating wall-mounting enclosures
Contents





Thalassa PLM **158**
Insulating wall-mounting enclosures
Green Premium™

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Dimensions 160
Specific accessories overview 161
Common accessories overview 162
Specific accessories 163



Associated applicative offers

PHD Polyester Heavy Duty enclosures Green Premium™ 372

Insulating wall-mounting enclosures
Introduction

> Monobloc wall-mounting enclosure

- made from polyester reinforced with fibreglass, moulded by hot compression.
- Degree of protection IP66,
- Impact resistance IK10 for the plain doors and surfaces and IK08 for the glazed doors of the polyester versions,
- UL certification and NEMA classification 4x and 13 for the polyester wall-mounting enclosures,
- Total insulation to produce class II units,
- Complies with RoHS and REACH Directives

PB501325SE



P129702-32



Service life

High resistance to corrosion in harsh environments, maintaining its mechanical properties and insulation.

PB501327SE-40



Easy

- Door easily reversible by turning it over.
- Opening to 120° or 180°.
- Easy machining with no corrosion.
- Lightness.
- Polyamide hinge pin, easily removable and captive.

PB501325SE-95



Smart

- Notches for easy fixing of DIN rails.
- Grid pattern on the rear of the door for marking the machining operations.

Green Premium™

Prolonged exposure to UV radiation, wind and rain can cause aesthetics changes in the external surface of the enclosure. Without affecting the technical properties according to IEC 62208.
For long exposure applications, it is recommended to use coloured enclosures available through the P&S offer.

This range can be configured according to your needs

4 differents services available:

Assemble to order

Mounting of standard accessories

Painting

Machining

See page 488 for details or consult our web site www.se.com

The customized solutions Configured or Specific types use existing ranges from Universal Enclosures standard offer as a base for its development.
Depending on the modifications made on the enclosures or accessories, they could affect the certification or declarations of conformity existing in the standard ranges.
The certifications and declarations of conformity needed for the solution must be defined early in the process as part of the offer specifications.

Insulating wall-mounting enclosures
Characteristics

Class II

According to Reach and RoHs & Halogen free


PB500144SE-19


PB500145-23


PB500146SE-14


PB500147SE-14


PB502857-14


PB502858-14

Characteristics	ABS/PC wall-mounting enclosures	Polyester wall-mounting enclosures	
	■ Monobloc wall-mounting enclosure. ■ Version with transparent polycarbonate door. ■ Closes with a 3-mm double-bar lock. ■ Door opening: 180°.	■ Monobloc wall-mounting enclosure. ■ Version with transparent tempered-glass door. ■ Closes with two 3-mm double-bar locks. ■ Door opening angle: 120°. ■ Grid pattern with a pitch of 50 mm on the back of the door.	■ Monobloc wall-mounting enclosure. ■ Version with transparent tempered-glass door. ■ Locking device outside the sealed area, guaranteeing the tightness of IP66 over time. ■ Locking system: □ enclosure height ≤ 847 mm: 2 locks with double-bar insert or 1 handle with key lock and 3-point closure, □ enclosure height 1056 mm: 1 lock with double-bar insert and 4-point closure. ■ Door opening angle: 180°. ■ Bosses for accessory-fixing inserts: M6 inside the enclosure, M5 in the door for enclosure heights of 430 and 530 mm, M6 in the door for enclosure heights ≥ 647 mm. ■ Grid pattern with a pitch of 25 mm on the back of the door.
Material	ABS/PC	Polyester reinforced with fibreglass, moulded by hot compression	
Temperature range - Gasket	-40°C to +80°C		
Colour	RAL 7035 grey		
Ingress protection rating	IP66 according to IEC 60529		
Mechanical protection rating	■ IK10 plain door ■ IK08 glazed door		
Certifications (see page 574)	■ IEC 62208 ■ Bureau Veritas Marine	■ IEC 62208 ■ Marine ■ UL 508A - Nema type: 1, 2, 3, 3R, 3S, 4, 4X, 5, 12 and 13	■ IEC 62208 ■ Marine
Installation	■ Direct fixing of symmetrical rails ref. **NSYCS200PLM** with plastic nuts ref. **NSYTCSPLM**, to be installed in the notches on the rear of the body, with a pitch of 25 mm ■ Fixing of installation plates on the studs at the rear of the enclosure	Fixing of rear accessories on 4 M8 x 18 studs	■ Fixing of rear accessories on 4 M8 studs, included in the standard supply ■ Direct fixing of symmetrical rails ref. **NSYCS●●●PLM**, with plastic nuts, ref. **NSYTCSPLM**, to be installed in the notches on the rear of the body, with a pitch of 25 mm

External dimensions (mm)			References of wall-mounting enclosures with door							
Height	Width	Depth	Plain (3)	Transparent (4)	Plain (3)	Transparent (4)	Plain (3)	Transparent (4)	Plain (1)	Transparent (1) (4)
308	255	160	-	-	**NSYPLM3025G**	**NSYPLM3025TG**	-	-	-	-
310	215	160	**NSYPLM32G**	**NSYPLM32TG**	-	-	-	-	-	-
430	330	200	-	-	-	-	**NSYPLM43G**	**NSYPLM43TG**	**NSYPLM43VG**	**NSYPLM43TVG**
530	430	200	-	-	-	-	**NSYPLM54G**	**NSYPLM54TG**	**NSYPLM54VG**	**NSYPLM54TVG**
647	436	250	-	-	-	-	**NSYPLM64G**	**NSYPLM64TG**	**NSYPLM64VG**	**NSYPLM64TVG**
747	536	300	-	-	-	-	**NSYPLM75G**	**NSYPLM75TG**	**NSYPLM75VG**	**NSYPLM75TVG**
847	636	300	-	-	-	-	**NSYPLM86G**	**NSYPLM86TG**	**NSYPLM86VG**	**NSYPLM86TVG**
1056	852	350	-	-	-	-	**NSYPLM108G** (2)	**NSYPLM108TG** (2)	-	-

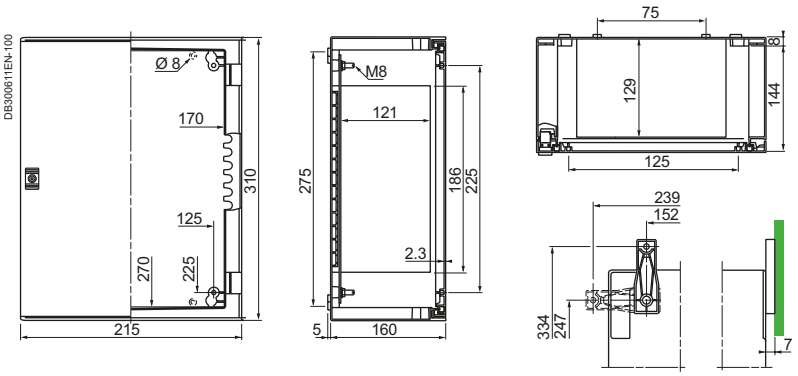
(1) Wall-mounting enclosure with handle and lock with 3-point closure and key 1242 E delivered as standard.
(2) Wall-mounting enclosure with standard 5 mm double-bar lock and lock with 4-point closure.
(3) These enclosures are also available equipped with metallic or insulating mounting plates.
(4) Must be protected against sun radiation.

External dimensions (mm)			Wall-mounting enclosures with plain door and mounting plate (6)					
Height	Width	Depth	Plain	Bakelite	Plain	Bakelite	Plain	Bakelite
308	255	160	-	-	**NSYPLM3025PG**	**NSYPLM3025BG**	-	-
310	215	160	**NSYPLM32PG**	**NSYPLM32BG**	-	-	-	-
430	330	200	-	-	-	-	**NSYPLM43PG**	**NSYPLM43BG**
530	430	200	-	-	-	-	**NSYPLM54PG**	**NSYPLM54BG**
647	436	250	-	-	-	-	**NSYPLM64PG**	**NSYPLM64BG**
747	536	300	-	-	-	-	**NSYPLM75PG**	**NSYPLM75BG**
847	636	300	-	-	-	-	**NSYPLM86PG**	**NSYPLM86BG**
1056	852	350	-	-	-	-	-	**NSYPLM108BG**

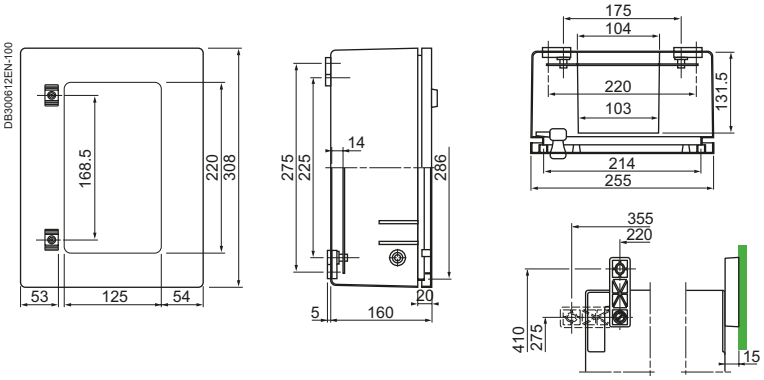
(6) Not mounted.

Insulating wall-mounting enclosures
Dimensions

ABS/PC wall-mounting enclosures

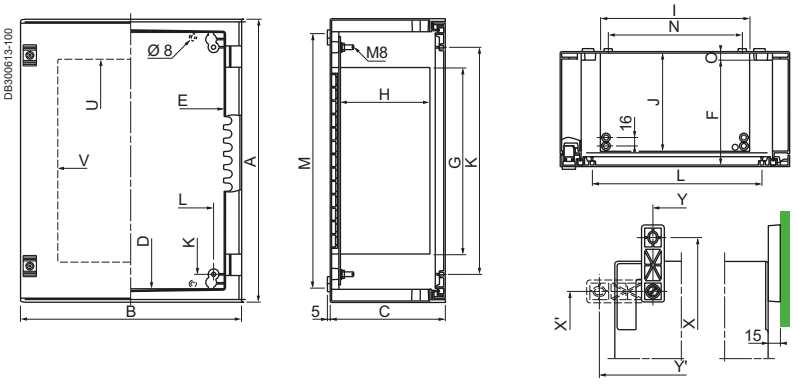


Polyester wall-mounting enclosures 308 x 255 mm



Glazed door opening (mm)		References
U	V	
273	194	NSYPLM43TG
	151	NSYPLM43TVG
373	294	NSYPLM54TG
	251	NSYPLM54TVG
463	294	NSYPLM64TG
	252	NSYPLM64TVG
563	394	NSYPLM75TG
	352	NSYPLM75TVG
663	494	NSYPLM86TG
	452	NSYPLM86TVG
854	661	NSYPLM108TG

Other polyester wall-mounting enclosures



External fixing with lugs (mm)				References
Vertical		Horizontal		
X	Y	X'	Y'	
490	225	355	360	NSYPLM43G
590	325	455	460	NSYPLM54G
690	330	555	465	NSYPLM64G
790	430	655	565	NSYPLM75G
890	530	755	665	NSYPLM86G
1090	750	955	885	NSYPLM108G

Dimensions (mm)										Bottom screw and door bosses (mm)		Internal fixing (mm)			References
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	
430	330	200	380	260	181	247	150	179	168	325	225	375	150	13	NSYPLM43G
530	430	200	480	360	181	347	150	279	168	425	325	475	250	13	NSYPLM54G
647	436	250	580	360	228	388	192	279	212	525	325	575	250	13	NSYPLM64G
747	536	300	680	460	278	487	241	379	261	625	425	675	350	15	NSYPLM75G
847	636	300	780	560	278	587	241	479	261	725	525	775	450	15	NSYPLM86G
1056	852	350	980	760	327	775	280	680	300	925	725	975	650	15	NSYPLM108G

Insulating wall-mounting enclosures

Specific accessories overview

PB502860-68



Composition accessories

Base accessories

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Fixing

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Fixing

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Cable entry

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Door

PB501335SE-40



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Locking systems

PB501336-28



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Mounting

PB502864-40



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Coupling

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Diverse

PB501343-32



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Insulating wall-mounting enclosures

Common accessories overview

Cable management

Cable management

PB502492-29



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Cable holding

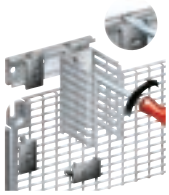
PB500966-40



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Cable ducting

PB500958-22



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Thermal management

Heaters

PB502050-29



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Ventilation

PB501044-26



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Thermal control

PB501162-19



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Installation accessories

Mounting acc.

PB500072-17



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Others

Document pocket

PB502859-18



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Insulating wall-mounting enclosures
Specific accessories

Base accessories





Characteristics	ZM plinth for PLM enclosure
	Designed to support and raise enclosures **NSYPLM75G**, **NSYPLM86G** and **NSYPLM108G**. ■ Plinth height of 200 mm; stackable to obtain a 400-mm plinth. ■ Four floor-attachment points; the symmetry of the parts prevents incorrect assembly. The frontal parts of the plinth (front and rear) have two stainless-steel screws protected by a plastic cap; these screws make it possible (using an Allen key) to open and remove the frontal parts for easier cable installation. In stacked position, the bottom plinth can be partially buried. It is provided with one transverse reinforcement rail, adjustable to adapt to the position of the cables. The reference of the plinth contains all the accessories required for attaching the enclosure to the plinth and for stacking two plinths.
Material	Polyester reinforced with fibreglass, moulded by hot compression
Ingress protection rating	IP44
Mechanical protection rating	IK10

For enclosure				Cabling area		Plinth			
Height (mm)	Width (mm)	Depth (mm)	References	Width (mm)	Depth (mm)	Height (mm)	Width (mm)	Depth (mm)	References
747	536	300	**NSYPLM75G**	256	252	200	456	302	**NSYZM253G**
847	636	300	**NSYPLM86G**	356	252	200	556	302	**NSYZM263G**
1056	852	350	**NSYPLM108G**	572	302	200	772	352	**NSYZM283G**





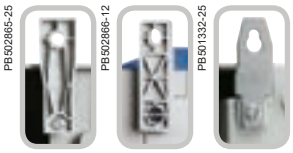


Accessories	Cable supporting cross-rail		Kit for IP54	Feet for partially buried installation
	The lateral sides of the plinths are provided with bosses for attaching cross-rails with cut-out profiles, for supporting cables. The reference of the cross-rail includes all the elements required for assembly.		Makes it possible to obtain IP54 for the plinth and the plinth-enclosure coupling.	Allows the partially buried installation of plinths before completion of the floor. The plinths are attached by four feet with a standard length of 750 mm. Possibility of horizontal adjustment of the plinth. The reference includes a kit made up of four feet and fixings.
	For plinth	**Cross-rail references**	**Reference**	**Reference**
	NSYZM253G	**NSYAC280**	**NSYAEPZM**	**NSYAEBFZ**
	NSYZM263G	**NSYAC360**		
	NSYZM283G	**NSYAC600**		

Insulating wall-mounting enclosures
Specific accessories

Fixing



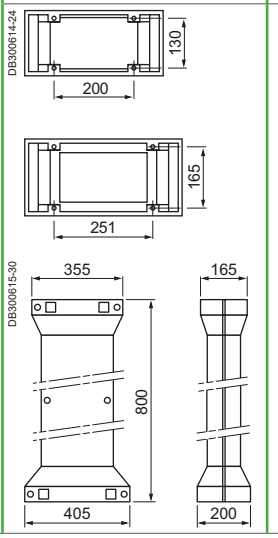


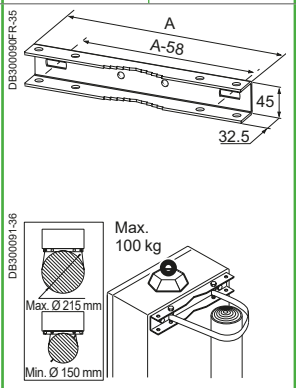
NSYPFPLM32G NSYPFPLMG NSYPFXPLM





Characteristics	Floor-mounting pillar	Wall-fixing lugs		Post-fixing device		Blanking plates	
	To protect cables entering the enclosure in outdoor installations. Cable entry section: 165 x 100 mm. For enclosures ref. **NSYPLM54G**, **NSYPLM54TG**, **NSYPLM64G** and **NSYPLM64TG**.	Set of 4 wall-fixing lugs. Mounted directly on the enclosure, either in horizontal position or in vertical position.		For outdoor installations on a post with a maximum circumference of 675 mm, Ø 215 mm.		They are positioned on the rear surface of the enclosures to block the openings in the corners in order to improve theirappearance or prevent the entry of unwanted elements in the ventilation shaft. Supplied as standard for enclosure, ref. **NSYPLM108G**.	
Material	Polyester reinforced with fibreglass	Polyamide loaded with fibreglass	Stainless-steel	Galvanised steel		Thermoplastic	
Colour	RAL 7035 grey	RAL 7035		-		RAL 7035	
Maximum load	-	■ On PLM32 □ vertical or horizontal: 10 kg ■ Other PLM models □ vertical position: 200 kg □ horizontal position: 100 kg		100 kg		-	
Supply	Delivered with steel frame for secure fixing to the floor	Delivered with fixings		Supply of the rail, the strips and the fixings		-	
	Reference	**References**		**For wall-mounting enclosure**	**References**	**For wall-mounting enclosure**	**References**
	NSYSFSPLMG	**NSYPFPLMG** **NSYPFPLM32G** (1)	**NSYPFXPLM**	NSYPLM43G	**NSYSFP300**	NSYPLM32G	**NSYCEPLMAG**
				NSYPLM54G & NSYPLM64G	**NSYSFP400**	NSYPLM43G & NSYPLM54G	**NSYCEPLMBG**
				NSYPLM75G	**NSYSFP500**	NSYPLM64G, 75G and 86G	**NSYCEPLMCG**
				NSYPLM86G	**NSYSFP600**	-	-





*(1) Exclusive for enclosures ref. **NSYPLM32G** and **NSYPLM32TG**.*

Insulating wall-mounting enclosures
Specific accessories

Fixing

PB501821-18



Characteristics	Support bracket for enclosure with anti-tilt kit and reinforcement
	The support bracket is used when the enclosure cannot be hung from a wall or a post. Suitable for outdoor use. Maximum enclosure dimensions: 1000 x 800 x 300 mm. Floor attachment by standard M12 fastenings.
Material	Steel
Finish	Painted
Colour	RAL 7035 grey
Maximum load	120 kg
Height (mm)	**References**
1400	**NSYCOCNS1400**
1800	**NSYCOCNS1800**

Door

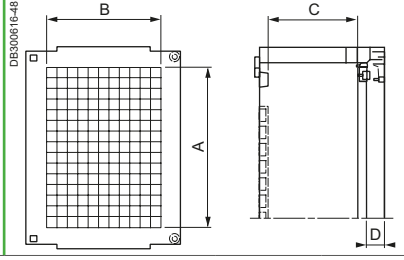
PB501335SE-52



Characteristics	Internal door
	■ Reversible door. ■ Grid pattern with a pitch of 25 mm for easier marking out before drilling. ■ Closes with 2 double-bar locks. ■ Door handle. ■ Steel internal door, without grid pattern and locking by a screw, for enclosures ref. **NSYPLM3025G**. ■ Incompatible with the modular distribution chassis.
Material	Polyester reinforced with fibreglass, self-extinguishing
Colour	RAL 7035 grey
Supply	Delivered with fixings and brass inserts

For wall-mounting enclosure (mm)		Dimensions (mm)					References
Height	Width	A	B	C	D		
					Plain door	Transp. door	
308	255	248	165	62	76	71	**NSYPA3025PLMG**
430	330	315	205	152	26	21	**NSYPAP43G**
530	430	415	305	152	26	21	**NSYPAP54G**
645	435	515	305	194	32	27	**NSYPAP64G**
745	535	615	405	244	32	27	**NSYPAP75G**
845	635	715	505	244	32	27	**NSYPAP86G**
1055	850	850	650	269	37	32	**NSYPAP108G**

DB300616-48



Insulating wall-mounting enclosures
Specific accessories

Locking system

PB501336-33



Characteristics

Locks and inserts for enclosures NSYPLM32G to NSYPLM86G

- The ABS/PC 310 x 215 mm enclosure is supplied with a lock with a double-bar insert as standard.
- The 308 x 255 mm enclosure is supplied with two locks with a double-bar insert as standard.
- The polyester enclosures from 430 to 847 mm high are delivered as standard with:
  - 2 locks with double-bar insert, ref. **NSYCDBPLM**,
  - or a 3-point closure with handle and lock with key 1242 E (enclosures **NSYPLM••VG**).
- Double-bar insert ref. **NSYTDBCRN**, is placed in a rectangular escutcheon.
- A plastic key, ref. **NSYDBP**, enabling the opening of the double-bar insert, is included in the standard supply. This key can be fixed to the double-bar system to remain on the enclosure and be used as a handle.

Options

PB501337-44



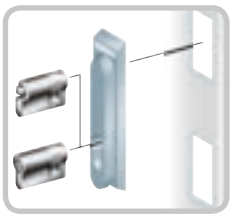
Options to transform the locks with double-bar inserts NSYPLM32G to NSYPLM86G

Changing the shape inserts for locks with keys according to the following table.

Replacement for locking handle with cylindrical barrel, delivered with all the parts required to change the lock.

Name	References	Type of barrel	References
6 mm male square	**NSYTC6CRN**	Key 1242 E	**NSYTHL1242EPLM**
7 mm male square	**NSYTC7CRN**	Key 405	**NSYTHL405PLM**
8 mm male square	**NSYTC8CRN**	Key 421	**NSYTHL421PLM**
6.5 mm male triangle	**NSYTT6CRN**	Key 455	**NSYTHL455PLM**
-	-	Key 610	**NSYTHL610PLM**
8 mm male triangle	**NSYTT8CRN**	Key 2331 A	**NSYTHL2331APLM**
Lock and key 405	**NSYTL405PLM**	Key 2433 A	**NSYTHL2433APLM**
Lock and key 220	**NSYTL220PLM**	Key 3113 A	**NSYTHL3113APLM**
Lock TJIS	**NSYTJIS**	Key 3131A	**NSYTHL3131APLM**
-	-	Manual	**NSYTHPLM**

PB501338-30



Options to transform versions NSYPLM••V, with retractable handle and 3-point closure

Transformation of the standard insert (barrel for key 1242E, ref. **NSYTL1242EME**) for other shape inserts or barrels according to the following table.

Name	References
5 mm double bar	**NSYTDB5ME**
6 mm male square	**NSYTC6ME**
7 mm male square	**NSYTC7ME**
8 mm male square	**NSYTC8ME**
6.5 mm male triangle	**NSYTT6ME**
8 mm male triangle	**NSYTT8ME**
Barrel and key 405	**NSYTCL405ME**
Reinforced key and barrel	**NSYTLRME**
JIS key and barrel	**NSYTLJISME**
Manual	**NSYTMME**

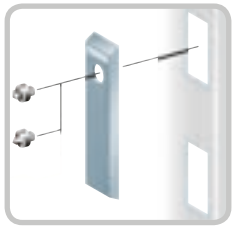
Insulating wall-mounting enclosures
Specific accessories

Locking system

Locks and inserts for enclosures NSYPLM108/T

- Enclosures delivered as standard with 5 mm double-bar insert.
- Double-bar insert ref. **NSYTDB5PL**, placed in a long rectangular escutcheon, activates a 4-point closure system.

PB501339-30

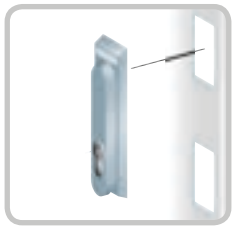


Options to transform the insert

The standard insert can be replaced with other shape inserts, according to the following table.

Name	References
Double-bar insert	**NSYTDB5PL**
6 mm male square	**NSYTC6PL**
7 mm male square	**NSYTC7PL**
8 mm male square	**NSYTC8PL**
6.5 mm male triangle	**NSYTT6PL**
7 mm male triangle	**NSYTT7PL**
8 mm male triangle	**NSYTT8PL**

PB501340-20



Options to transform for a retractable handle

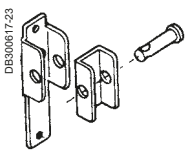
The escutcheon and rosette assembly can be replaced with a lock with retractable handle equipped with inserts or barrels, according to the following table.

Name	References
5 mm double bar	**NSYTEDB5PL**
6 mm male square	**NSYTEC6PL**
7 mm male square	**NSYTEC7PL**
8 mm male square	**NSYTEC8PL**
6.5 mm male triangle	**NSYTET6PL**
7 mm male triangle	**NSYTET7PL**
8 mm male triangle	**NSYTET8PL**
Lock key 1242 E	**NSYTEL1242EPL**
Barrel and key 405	**NSYTEL405PL**
Reinforced key and barrel	**NSYTERPL**
JIS key and barrel	**NSYTELJISPL**
FAC key and barrel	**NSYTELFACPL**
Manual	**NSYTEMPL**

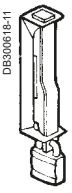
PB502869-23



DB300617-23



DB300618-11



Padlocking accessories

	Padlocking system positioned around the rectangular escutcheon of the enclosures with a height of ≤ 847 mm to block access to the lock; for a Ø 9 mm padlock.	Padlocking system positioned around the long rectangular escutcheon of the enclosures ref. **NSYPLM108G/TG**, to block access to the lock; for Ø 9 mm padlock.	Padlocking system to block access to the retractable handle, for the versions **NSYPLM••V** or optionally for enclosures ref. **NSYPLM108G/TG**, for a Ø 9 mm padlock.
References			
	NSYKPLM	**NSYBCPL**	**NSYBCME**

Insulating wall-mounting enclosures
Specific accessories

Mounting accessories

PB500149-42



PB502864-36

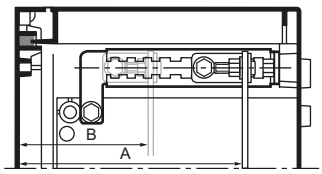


PB502871-42



Characteristics		Step slides			Plastic nuts for rail fixing		35 mm symmetrical DIN rails	
		Kit allowing depth adjustment with a pitch of 12.5 mm, and the fixings required for the installation. Incompatible with the modular distribution chassis.			They slide directly into the notches, with a pitch of 25 mm, which are located on the rear of the enclosures, except enclosure ref. **NSYPLM3025G/TG**. They allow direct fixing of symmetrical DIN rails by self-tapping screws. Option of raising the rails with an M6 spacer using a plastic nut containing an M6 nut.		They are fixed to the rear of the enclosure without uprights, with a pitch of 25 mm for the notches on the rear of the enclosure, with the help of direct-fixing nuts ref. **NSYTCSPLM** or **NSYTCSM6PLM**.	
Material		Galvanised steel			-		Galvanised steel	
Supply		4 step slides with brackets			References by unit. Order by multiples of 20 units (20, 40, 60, etc.)		References by unit. Order by multiples of 2 units (2, 4, 6, etc.)	
For wall-mounting enclosure (mm)		**Depth adjustment (mm)**		**References**	**Name**	**References**	**Rail length (mm)**	**References**
Width	**Depth**	**A**	**B**					
-	-	-	-	-	Plastic nut with self- tapping screw	**NSYTCSPLM**	-	-
-	-	-	-	-	Plastic nut containing an M6 metal nut	**NSYTCSM6PLM**	-	-
215	-	-	-	-	-	-	180	**NSYCS200PLM**
330	-	-	-	-	-	-	280	**NSYCS300PLM**
430 / 436	-	-	-	-	-	-	380	**NSYCS400PLM**
536	-	-	-	-	-	-	480	**NSYCS500PLM**
636	-	-	-	-	-	-	580	**NSYCS600PLM**
852	-	-	-	-	-	-	795	**NSYCS800PLM**
-	200	156	94	**NSYDPLM200**	-	-	-	-
-	250	200	100	**NSYDPLM250**	-	-	-	-
-	300	250	100	**NSYDPLM300**	-	-	-	-
-	350	306	106	**NSYDPLM350**	-	-	-	-

DB300619-42



Insulating wall-mounting enclosures
Specific accessories

Coupling and cable-entry


PB502862-37


PB502863-33

Characteristics			Coupling frame	Cable-gland plates
			Allows the lateral coupling of 2 enclosures.	Dimensions: 435 x 185 mm and 635 x 185 mm.
Material			Polyester frame	Polyester
Colour			RAL 7035 grey	RAL 7035 grey
Ingress protection rating			A built-in sealing gasket guarantees a protection rating of IP66	-
Supply			Delivered with fixings	Delivered with fixings
External dimensions (mm)	**Entry**	**For wall-mounting enclosure**	**References**	
435 x 185 x 15	398 x 148	NSYPLM75G and NSYPLM86G	**NSYBUPLMG**	**NSYTLA4420G**
635 x 185 x 15	598 x 148	NSYPLM108G	**NSYBU108PLMG**	**NSYTLA6420G**

Diverse


PB501343-44

NSYTEX8PLM *NSYTEX6* *NSYTEX5*


PB502874-28


PB500162-17


PB500191-25

Characteristics	Fixing inserts			Ventilation louvres*	Water drain plug	Renovation and anti-graffiti paint		
	Expanding inserts for addition to the M6 bosses of the enclosure (the M5 for the door, the M6 for inside the body and the M8 for the external rear part of the enclosure).			They can be positioned inside the wall-mounting enclosures with heights from 430 to 846 mm, allowing ventilation through the channels of the enclosure.	For drainage of condensation water.*** It is placed in the Ø 8.5 mm** housing at the bottom of the enclosure.	Paint kit with 2 components (base 80 % + hardener 20 %), specially designed for polyester enclosures, for their renovation and/or as prevention to allow removal of graffiti.		Solvent for diluting the paint and cleaning the utensils.
Colour	-			-	-	RAL 7035 grey		-
Ingress protection rating	-				IP53	-		-
Supply	References by unit. Order by multiples of 8 units (8, 16, 24, etc.). M5 and M6 inserts to be ordered in multiples of 20			References by unit. Order by multiples of 2 units (2, 4, 6, etc.)	References by unit. Order by multiples of 10 units (10, 20, 30, etc.)	The 1 kg reference includes 1 pot with 800 g of base paint and 200 g of hardener (It is enough to paint a surface of around 5 m²)	The 5 kg reference includes 1 pot with 4 kg of base paint and 1 kg of hardener (It is enough to paint a surface of around 25 m²)	1 kg
	Insert size	**For wall-mounting enclosure**	**References**	**Reference**	**Reference**	**References**		
	M5	NSYPLM43G and NSYPLM54G	**NSYTEX5**	**NSYCAG35LP**	**NSYVEA9**	**NSYAUPG1G**	**NSYAUPG5G**	**NSYAUPGS**
	M6	NSYPLM64G to NSYPLM108G	**NSYTEX6**					
	M8	For the rear of the enclosure	**NSYTEX8PLM**					

** Ventilation louvres, airing devices with filters, fans and thermal adjustment accessories, see ClimaSys section.*
*** 8.2 mm for wall-mounting enclosures NSYPLM32G, NSYPLM32TG, NSYPLM32PG and NSYPLM32BG.*
**** Condensation should be eliminated using ClimaSys solution.*

Insulating wall-mounting enclosures
Specific accessories

S3D* S3X PLM

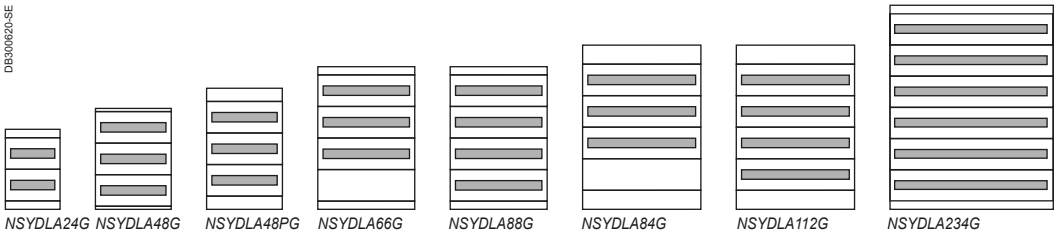
** Minimum depth 200 mm.*

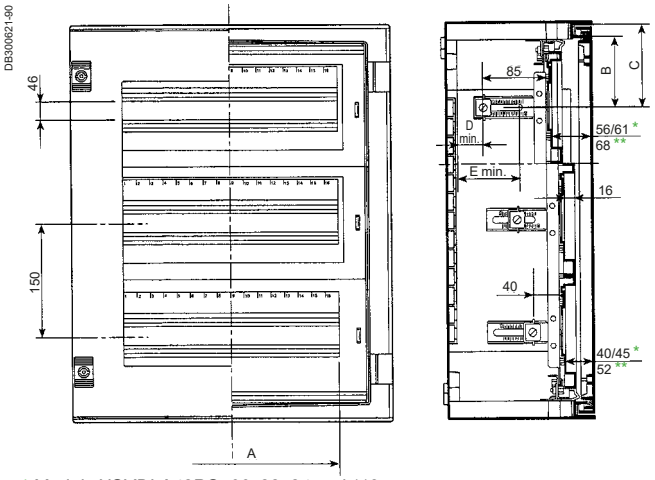
Power distribution accessories



Characteristics	DLA modular chassis
	■ Front panels and covers installed in the front part, are not depth adjustable. ■ Rigid structure for the installation of modular devices. ■ Open front panels with 35 mm DIN rail and plain front panels with mounting plate, according to the model. ■ Front plates quick installation with no fixings. ■ Rail depth adjustable from 40 to 85 mm. ■ System for standard circuit marking. ■ Incompatible with the internal doors and the step slides. ■ Neutral / earth strip: 2 x 16 mm² + 5 x 6 mm².
Material	■ Front panels and finish covers: polystyrene ■ Rigid structure: galvanised-steel
Colour	Front panels and finish covers: RAL 7035 grey

Dimensions (mm)					Distribution rows				For installation in the enclosures				References
A	B	C	D min.	E min.	No. of useful rows	No. of 18 mm modules per row	No. of 18 mm modules	No. of plates	PLM enclosure References		S3D enclosure (depth ≥ 200 mm) Height	Width	
216	115	137	38	88	2	12	24	-	**NSYPLM43G**	**NSYPLM43TG**	400	300	**NSYDLA24G**
286	90	112	38	88	3	16	48	-	**NSYPLM54G**	**NSYPLM54TG**	500	400	**NSYDLA48G**
286	140	170	80	130	3	16	48	-	**NSYPLM64G**	**NSYPLM64TG**	600	400	**NSYDLA48PG**
395	115	145	129	179	3	22	66	1	**NSYPLM75G**	**NSYPLM75TG**	700	500	**NSYDLA66G**
395	115	145	129	179	4	22	88	-	**NSYPLM75G**	**NSYPLM75TG**	700	500	**NSYDLA88G**
504	165	195	129	179	3	28	84	1	**NSYPLM86G**	**NSYPLM86TG**	800	600	**NSYDLA84G**
504	165	195	129	179	4	28	112	-	**NSYPLM86G**	**NSYPLM86TG**	800	600	**NSYDLA112G**
704	115	146	170	220	6	39	234	-	**NSYPLM108G**	**NSYPLM108TG**	1000	800	**NSYDLA234G**



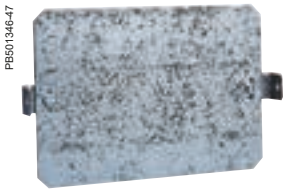


** Models NSYDLA48PG, 66, 88, 84 and 112.*
*** Model NSYDLA234.*

Insulating wall-mounting enclosures
Specific accessories

Power distribution accessories







Characteristics	Plain front panels for DLA chassis		Mounting plate for DLA chassis		Modular distribution chassis
	■ Front panel for non-modular device protection, on one row. ■ To be ordered in multiples of 2.		■ Mounting plate for mounting non-modular devices, on one row. ■ To be ordered in multiples of 2.		For mounting modular devices on two rows of nine 18-mm modules.
Material	Polystyrene		Galvanised-steel		■ Chassis: metal ■ Protective plate: polystyrene
Colour	RAL 7035 grey		-		-
For installing on the chassis	**Width (mm)**	**References**	**Width (mm)**	**References**	**Reference**
NSYDLA24G	256	**NSYCTL300DLAG**	-	-	-
NSYDLA48G and **NSYDLA48PG**	356	**NSYCTL400DLAG**	315	**NSYPMP400DLA**	-
NSYDLA66G and **NSYDLA88G**	456	**NSYCTL500DLAG**	415	**NSYPMP500DLA**	-
NSYDLA84G and **NSYDLA112G**	555	**NSYCTL600DLAG**	514	**NSYPMP600DLA**	-
NSYDLA234G	755	**NSYCTL800DLAG**	714	**NSYPMP800DLA**	-
For enclosure					
NSYPLM3025G/TG	-	-	-	-	**NSYDLPLM18G**

Insulating floor-standing enclosures

Insulating floor-standing enclosures
Contents



Thalassa PLA **174**
Polyester floor-standing enclosures

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Thalassa PLD **198**
Polyester DIN floor-standing enclosure

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Associated applicative offers

PHD Polyester Heavy Duty enclosures 372

Polyester floor-standing enclosures
Introduction

> The **floor-standing enclosures** are made from **polyester reinforced with fibreglass**, moulded by hot compression. High resistance to corrosion in harsh environments, it maintains its mechanical and insulation properties.

PB502646-47



Prolonged exposure to UV radiation, wind and rain can cause aesthetics changes in the external surface of the enclosure. Without affecting the technical properties according to IEC 62208.
For long exposure applications, it is recommended to use coloured enclosures available through the P&S offer.

Bigger dimensions

The new options with **2000 mm** height end **620 mm** depth have been created to feet industry and infrastructure demands for motor control, power distribution, electronics or telecom applications.

PLAT version

PB502890-33



Ventilation
Open top part with canopy allowing for ventilation.

PB502891-33



Easy
Various bosses for M8 inserts.

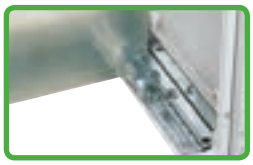
PLAZ version

PB502892-32



Open bottom
Big open bottom to be mounted directly on the floor or on a plinth.

PB502893-32



Smart
Plain mounting plate installed on step slides and compulsory adapter plates in all the enclosures with open bottom part.

PLAZT version

PB502894-32



Easy
Door opening to 180°.

PB502895-32



Resistant
Anti-lever security system.

Green Premium™

This range can be configured according to your needs

4 differents services available:

- Assemble to order
- Mounting of standard accessories
- Painting
- Machining

See page 488 for details or consult our web site www.se.com

The customized solutions Configured or Specific types use existing ranges from Universal Enclosures standard offer as a base for its development.
Depending on the modifications made on the enclosures or accessories, they could affect the certification or declarations of conformity existing in the standard ranges.
The certifications and declarations of conformity needed for the solution must be defined early in the process as part of the offer specifications.

Polyester floor-standing enclosures
Characteristics

Class II

PLA



PLAT



PLAZ



PLAZT



Characteristics	PLA version	PLAT version	PLAZ version	PLAZT version
	Completely sealed enclosure	**Enclosure with ventilated canopy**	**Enclosure with open bottom**	**Enclosure with open bottom and ventilated canopy**
	■ Enclosure obtained by assembling: □ 1 sealed top part, □ 1 sealed bottom part, □ 2 side parts, □ 1 or 2 rear panels (according to width), □ 1 or 2 doors (according to width). ■ Locking system with handle with a 5-mm double-bar insert block, included in the standard supply. Other blocks with inserts or barrels and keys optionally available. ■ Door opening to 120°.	■ Enclosure obtained by assembling: □ 1 open top part with canopy, □ 1 sealed bottom part, □ 2 side parts, □ 1 or 2 rear panels (according to width), □ 1 or 2 doors (according to width). ■ Locking system with handle with a 5-mm double-bar insert block, included in the standard supply. Other blocks with inserts or barrels and keys optionally available. ■ Door opening to 120°.	■ Enclosure obtained by assembling: □ 1 sealed top part, □ 1 plinth-type open bottom part, □ 2 side parts, □ 1 or 2 rear panels (according to width), □ 1 or 2 doors (according to width). ■ Locking system with handle with a 5 mm double-bar insert block, included in the standard supply. Other blocks with inserts or barrels and keys optionally available. ■ Door opening to 120°.	■ Enclosure obtained by assembling: □ 1 open top part with canopy, □ 1 plinth-type open bottom part, □ 2 side parts, □ 1 or 2 rear panels (according to width), □ 1 or 2 doors (according to width). ■ Locking system with handle with a 5 mm double-bar insert block. Other blocks with inserts or barrels and keys optionally available. ■ Door opening to 180° (except for height: 2000). ■ Anti-lever system to prevent forcing of the door.
Material	Polyester reinforced with fibreglass			
Temperature range	-40°C ... 80°C			
Finish	Moulded by hot compression: the pieces have an excellent finish on both sides and can include numerous bosses for accommodating inserts and mounting or cable management accessories			
Colour	RAL 7035 grey			
Ingress protection rating	IP65 according to IEC 60529	■ IP44 according to IEC 60529 ■ IP54 with 1 or 2 internal grilles, ref. **NSYCAG125LPF**, to be ordered separately	IP54 according to IEC 60529	■ IP44 according to IEC 60529 ■ IP54 with 1 or 2 internal grilles, ref. **NSYCAG125LPF**, to be ordered separately
Mechanical protection rating	■ IK10 plain door - IEC 62262 ■ IK08 glazed door			
Insulation	Class II according to IEC 60950-1 if the mounting process follow the included mounting instructions sheet			
Certifications (see page 574)	■ UL 508A/CAN-CSA 22 □ single door: Nema types 1, 2, 3, 3R, 3S, 5, 12 and 13 □ double door: Nema types 1, 2, 12 and 13 ■ Bureau Veritas Marine ■ IEC 62208	■ IEC 62208		
Installation	■ Indoor use only. For outdoor use, must install a canopy	■ Outdoor or indoor installation		
	■ Direct fixing to the floor or by means of a plinth with a height of 60 mm, as an option, see page 184 ■ Possibility of fixing on a semi-embedded plinth, see page 184 ■ Optional wall-fixing lugs		■ The open bottom part forms a 60 mm plinth which is fixed to the floor directly or by means of an optional fixing frame, see page 186, or else it is installed on a semi-embedded plinth, see page 186	
	■ The versions with glassed door must be protected against the direct sun shine to avoid greenhouse effect			
Options	Anti-posting door upon request			

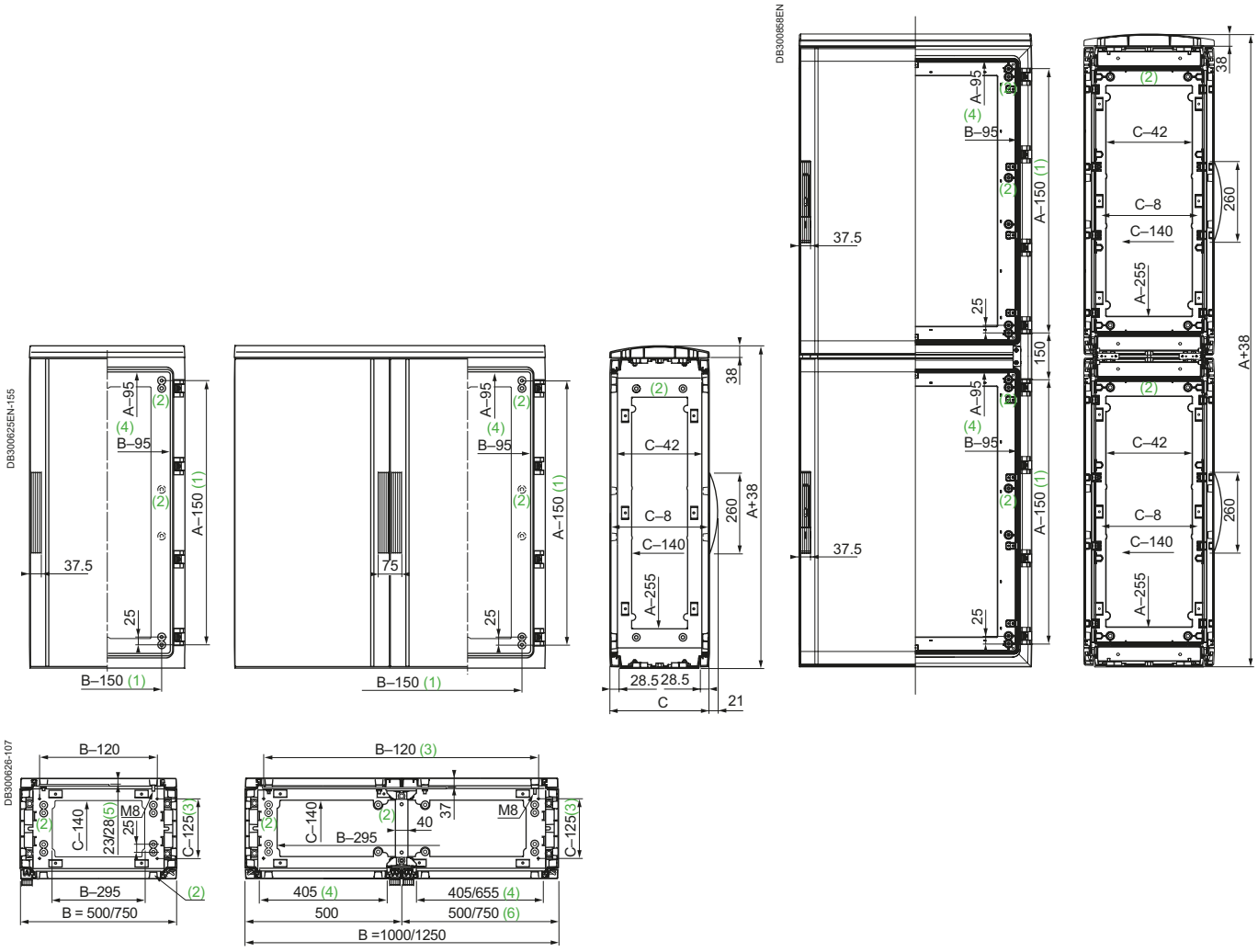
PHD - Applicative and customised solutions
See the Polyester Heavy Duty offer in the Applicative and customised solutions, page 372.

Polyester floor-standing enclosures
Dimensions

PLA PLAT PHD

Sealed enclosure or enclosure with ventilated canopy

For enclosures without canopy, please just disregard the related 38 mm.

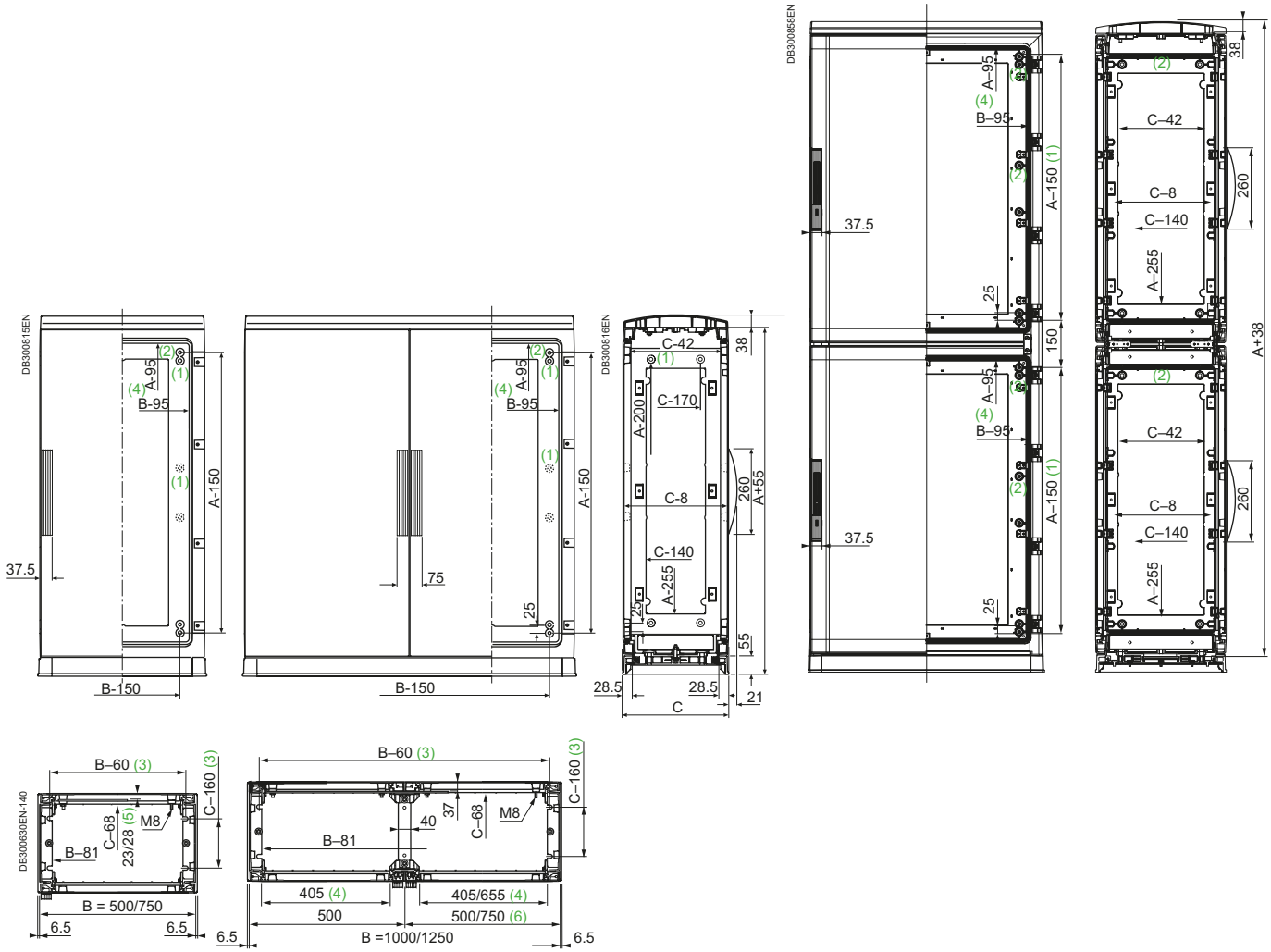


Polyester floor-standing enclosures
Dimensions

PLAZ PLAZT PHD

Enclosures with open bottom - plinth type
With or without ventilated canopy

For enclosures without canopy, please just disregard the related 38 mm



(1) 4 bosses with M8 inserts and studs for direct fixing of mounting plates.
*(2) Bosses designed to accommodate M8 inserts, ref. **NSYTEX8**. They are placed:*
– On the back of the enclosure, from the height of 1000 mm. They allow the fixing of partial mounting plates and assorted equipment.
– On the top and bottom parts of the enclosure. They are used for fixing the step slides, an internal door, 19" chassis, etc.
(3) Dimensions for fixing on the floor or on a plinth.
(4) Entry dimensions, door open.
(5) Dimension of 28 mm for enclosures with heights of more than 1000 mm (height after the installation of the plain mounting plates with reinforcement foldings).
(6) With a width of 1250 mm in standard supply, 500-mm door on the left and 750-mm door on the right.

Polyester floor-standing enclosures
Selection guide

Indoor and Outdoor

For outdoor use, must install a canopy.

IP65 or IP54

PLA





PLAZ



Dimensions (mm)				Completely sealed enclosures, IP65		Enclosures with open bottom part, IP54
References of enclosures with door						
Height (A)	Width (B)	Depth (C)	N° of doors	Plain	Glazed (1)	Plain
500	500	320	1	NSYPLA553G	NSYPLA553TG	NSYPLAZ553G
		420	1	NSYPLA554G	NSYPLA554TG	NSYPLAZ554G
	750	320	1	NSYPLA573G	NSYPLA573TG	NSYPLAZ573G
		420	1	NSYPLA574G	NSYPLA574TG	NSYPLAZ574G
	1000	320	2	NSYPLA5103G	NSYPLA5103TG	NSYPLAZ5103G
		420	2	NSYPLA5104G	NSYPLA5104TG	NSYPLAZ5104G
	1250	320	2	NSYPLA5123G	NSYPLA5123TG	NSYPLAZ5123G
		420	2	NSYPLA5124G	NSYPLA5124TG	NSYPLAZ5124G
750	500	320	1	NSYPLA753G	NSYPLA753TG	NSYPLAZ753G
		420	1	NSYPLA754G	NSYPLA754TG	NSYPLAZ754G
	750	320	1	NSYPLA773G	NSYPLA773TG	NSYPLAZ773G
		420	1	NSYPLA774G	NSYPLA774TG	NSYPLAZ774G
		620	1	NSYPLA776G	NSYPLA776TG	NSYPLAZ776G
	1000	320	2	NSYPLA7103G	NSYPLA7103TG	NSYPLAZ7103G
		420	2	NSYPLA7104G	NSYPLA7104TG	NSYPLAZ7104G
	1250	320	2	NSYPLA7123G	NSYPLA7123TG	NSYPLAZ7123G
		420	2	NSYPLA7124G	NSYPLA7124TG	NSYPLAZ7124G
1000	500	320	1	NSYPLA1053G	NSYPLA1053TG	NSYPLAZ1053G
		420	1	NSYPLA1054G	NSYPLA1054TG	NSYPLAZ1054G
	750	320	1	NSYPLA1073G	NSYPLA1073TG	NSYPLAZ1073G
		420	1	NSYPLA1074G	NSYPLA1074TG	NSYPLAZ1074G
	1000	320	2	NSYPLA10103G	NSYPLA10103TG	NSYPLAZ10103G
		420	2	NSYPLA10104G	NSYPLA10104TG	NSYPLAZ10104G
	1250	320	2	NSYPLA10123G	NSYPLA10123TG	NSYPLAZ10123G
		420	2	NSYPLA10124G	NSYPLA10124TG	NSYPLAZ10124G
1250	500	320	1	NSYPLA1253G	NSYPLA1253TG	NSYPLAZ1253G
		420	1	NSYPLA1254G	NSYPLA1254TG	NSYPLAZ1254G
	750	320	1	NSYPLA1273G	NSYPLA1273TG	NSYPLAZ1273G
		420	1	NSYPLA1274G	NSYPLA1274TG	NSYPLAZ1274G
		620	1	NSYPLA1276G	NSYPLA1276TG	NSYPLAZ1276G
	1000	320	2	NSYPLA12103G	NSYPLA12103TG	NSYPLAZ12103G
		420	2	NSYPLA12104G	NSYPLA12104TG	NSYPLAZ12104G
	1250	320	2	NSYPLA12123G	NSYPLA12123TG	NSYPLAZ12123G
		420	2	NSYPLA12124G	NSYPLA12124TG	NSYPLAZ12124G
		620	2	NSYPLA12126G	NSYPLA12126TG	NSYPLAZ12126G
1500	500	320	1	NSYPLA1553G	NSYPLA1553TG	NSYPLAZ1553G
		420	1	NSYPLA1554G	NSYPLA1554TG	NSYPLAZ1554G
	750	320	1	NSYPLA1573G	NSYPLA1573TG	NSYPLAZ1573G
		420	1	NSYPLA1574G	NSYPLA1574TG	NSYPLAZ1574G
		620	1	NSYPLA1576G	NSYPLA1576TG	NSYPLAZ1576G
	1000	320	2	NSYPLA15103G	NSYPLA15103TG	NSYPLAZ15103G
		420	2	NSYPLA15104G	NSYPLA15104TG	NSYPLAZ15104G
	1250	320	2	NSYPLA15123G	NSYPLA15123TG	NSYPLAZ15123G
		420	2	NSYPLA15124G	NSYPLA15124TG	NSYPLAZ15124G
		620	2	NSYPLA15126G	NSYPLA15126TG	NSYPLAZ15126G
2000	750	420	2*	NSYPLA2074G	NSYPLA2074TG	NSYPLAZ2074G

** Two doors in vertical.*

(1) recommended to protect against the direct sun radiation

PHD - Applicative and customised solutions

See the Polyester Heavy Duty offer in the Applicative and customised solutions, page 372.

Polyester floor-standing enclosures
Selection guide

IP44

PLAT



PLAZT



Dimensions (mm)				Enclosures with ventilated canopy, IP44	Enclosures with open bottom part and ventilated canopy, IP44
References of enclosures with door					
Height (A)	Width (B)	Depth (C)	N° of doors	Plain	Plain
500	500	320	1	NSYPLAT553G	NSYPLAZT553G
		420	1	NSYPLAT554G	NSYPLAZT554G
	750	320	1	NSYPLAT573G	NSYPLAZT573G
		420	1	NSYPLAT574G	NSYPLAZT574G
	1000	320	2	NSYPLAT5103G	NSYPLAZT5103G
		420	2	NSYPLAT5104G	NSYPLAZT5104G
	1250	320	2	NSYPLAT5123G	NSYPLAZT5123G
		420	2	NSYPLAT5124G	NSYPLAZT5124G
750	500	320	1	NSYPLAT753G	NSYPLAZT753G
		420	1	NSYPLAT754G	NSYPLAZT754G
	750	320	1	NSYPLAT773G	NSYPLAZT773G
		420	1	NSYPLAT774G	NSYPLAZT774G
		620	1	NSYPLAT776G	NSYPLAZT776G
	1000	320	2	NSYPLAT7103G	NSYPLAZT7103G
		420	2	NSYPLAT7104G	NSYPLAZT7104G
	1250	320	2	NSYPLAT7123G	NSYPLAZT7123G
		420	2	NSYPLAT7124G	NSYPLAZT7124G
1000	500	320	1	NSYPLAT1053G	NSYPLAZT1053G
		420	1	NSYPLAT1054G	NSYPLAZT1054G
	750	320	1	NSYPLAT1073G	NSYPLAZT1073G
		420	1	NSYPLAT1074G	NSYPLAZT1074G
	1000	320	2	NSYPLAT10103G	NSYPLAZT10103G
		420	2	NSYPLAT10104G	NSYPLAZT10104G
	1250	320	2	NSYPLAT10123G	NSYPLAZT10123G
		420	2	NSYPLAT10124G	NSYPLAZT10124G
1250	500	320	1	NSYPLAT1253G	NSYPLAZT1253G
		420	1	NSYPLAT1254G	NSYPLAZT1254G
	750	320	1	NSYPLAT1273G	NSYPLAZT1273G
		420	1	NSYPLAT1274G	NSYPLAZT1274G
		620	1	NSYPLAT1276G	NSYPLAZT1276G
	1000	320	2	NSYPLAT12103G	NSYPLAZT12103G
		420	2	NSYPLAT12104G	NSYPLAZT12104G
	1250	320	2	NSYPLAT12123G	NSYPLAZT12123G
		420	2	NSYPLAT12124G	NSYPLAZT12124G
		620	2	NSYPLAT12126G	NSYPLAZT12126G
1500	500	320	1	NSYPLAT1553G	NSYPLAZT1553G
		420	1	NSYPLAT1554G	NSYPLAZT1554G
	750	320	1	NSYPLAT1573G	NSYPLAZT1573G
		420	1	NSYPLAT1574G	NSYPLAZT1574G
		620	1	NSYPLAT1576G	NSYPLAZT1576G
	1000	320	2	NSYPLAT15103G	NSYPLAZT15103G
		420	2	NSYPLAT15104G	NSYPLAZT15104G
	1250	320	2	NSYPLAT15123G	NSYPLAZT15123G
		420	2	NSYPLAT15124G	NSYPLAZT15124G
		620	2	NSYPLAT15126G	NSYPLAZT15126G
2000	750	420	2*	NSYPLAT2074G	NSYPLAZT2074G

** Two doors in vertical.*

PHD - Applicative and customised solutions
See the Polyester Heavy Duty offer in the Applicative and customised solutions, page 372.

Polyester floor-standing enclosures

Specific accessories overview

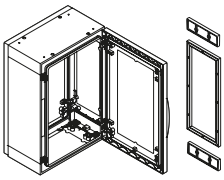
PB502902-90



Composition accessories

Coupling kits

DB300633-52



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Fixing

PB502903-43



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Cable-entry

PB502904-34



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Base accessories

PB502905-29



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Door

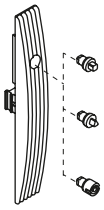
PB502906-19



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Locking system

DB300647-12



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Installation accessories

PB500102-24



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Modular distribution accessories

PB502920-28



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19” chassis

PB502908-28



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Anti-burglary accessory

PB502694-20



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Polyester floor-standing enclosures
Common accessories overview

Cable management

Cable management

PB502492-29



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Cable holding

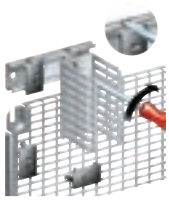
PB500986-40



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Cable ducting

PB500958-22



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Thermal management

Heaters

PB502503-29



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Ventilation

PB501044-26



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Cooling units

PB502614-15



Page 539

Thermal control

PB501162-19



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Fixing accessories

Rails

PB500177



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Composition accessories

VDI accessories and fixings

PB500189-17

PB500190-29

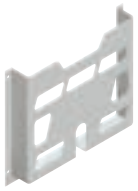


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Other accessories

Document pocket

PB502858-18



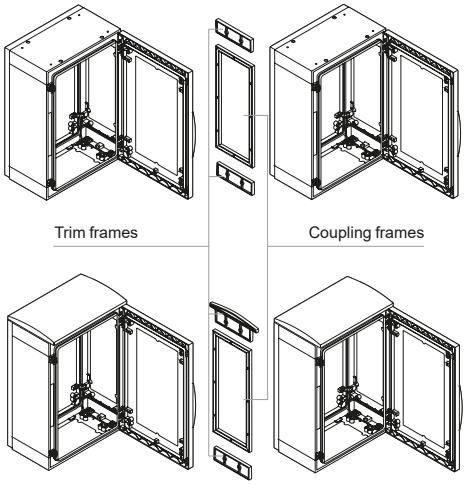
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Polyester floor-standing enclosures
Specific accessories

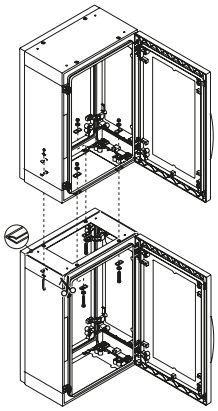
Coupling kits

Characteristics	Horizontal coupling kits*						Vertical coupling kit
	■ For coupling 2 enclosures side by side. ■ Coupling frame kit: made up of a coupling kit and the fixings required for installation. ■ Trim kit: made up of 2 frames for aesthetic fitting of the 2 coupled enclosures.						■ For coupling 2 enclosures on top of one another. ■ Kit made up of 3.5 m of adhesive seal and the fixings required for mounting.
Coupling kit widths	15 mm - Join 2 enclosures mounted on ZA plinths			35 mm - Join 2 enclosures mounted on ZZ or ZH plinths			
Ingress protection rating	IP55 at the coupling point			IP55 at the coupling point			IP55 at the coupling point
For enclosure	**Coupling frame kit**			**Coupling frame kit**			
Height (mm)	**Depth 320 mm**	**Depth 420 mm**	**Depth 620 mm**	**Depth 320 mm**	**Depth 420 mm**	**Depth 620 mm**	
500	**NSYMUPLA53G**	**NSYMUPLA54G**	-	**NSYMUPLA53W**	**NSYMUPLA54W**	-	**NSYUVPLA**
750	**NSYMUPLA73G**	**NSYMUPLA74G**	**NSYMUPLA76G**	**NSYMUPLA73W**	**NSYMUPLA74W**	**NSYMUPLA76W**	
1000	**NSYMUPLA103G**	**NSYMUPLA104G**	-	**NSYMUPLA103W**	**NSYMUPLA104W**	-	
1250	**NSYMUPLA123G**	**NSYMUPLA124G**	**NSYMUPLA126G**	**NSYMUPLA123W**	**NSYMUPLA124W**	**NSYMUPLA126W**	
1500	**NSYMUPLA153G**	**NSYMUPLA154G**	**NSYMUPLA156G**	**NSYMUPLA153W**	**NSYMUPLA154W**	**NSYMUPLA156W**	
2000	-	**NSYMUPLA204G**	-	-	**NSYMUPLA204W**	-	
For enclosure	**Trim kit**						
	Depth 320 mm	**Depth 420 mm**					
Without canopy	**NSYSUPLA3G**	**NSYSUPLA4G**		-	-	-	
With canopy	**NSYSUPLA3TG**	**NSYSUPLA4TG**		-	-	-	

DB300633-60



DB300634-27



** Not valid for coupling 2 enclosures using ZZ or ZH type plinth.*

Polyester floor-standing enclosures
Specific accessories

Fixing, cable-entry and other accessories

PLAZ PLAZT

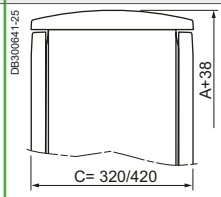


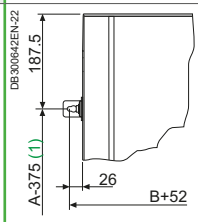




Characteristics	Canopy	Wall-fixing lugs	Cable-entry plate
	■ It can be installed in all enclosure models. ■ High resistance to impacts, temperature and bad weather. ■ Increases the height (A) of the enclosure by 38 mm, without modifying its width or depth.	Drilling positions and marks inside the side panels.	■ Easy drilling in specific customised version. ■ Incompatibility with: adapter plates, step slides, internal door and chassis for modular distribution.
Material	Polyester reinforced with fibreglass	Carbon steel with passivated zinc-coated	Polyester reinforced with fibreglass
Colour	RAL 7035 grey	-	RAL 7035 grey
Thickness	-	-	4 mm
Ingress protection rating	-	-	IP00
Installation	Essential for outdoor use	-	-
Fixing	-	■ Fixing on the sides by 4 or 6 lugs in horizontal position (6 lugs for enclosures with height ≥ 1000 mm) ■ 10 mm fixing distance on the rear of the enclosure plane	-
Maximum load inside enclosure	-	180 kg, including weight of enclosure	-
Supply	Delivered with the fixings required for installation	Set of 6 lugs and fixings	Delivered with the fixings required for installation

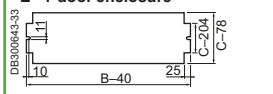
Width (mm)	Depth (mm) (C)	References		
500	320	**NSYTJPLA53G**	**NSYFMPLA**	**NSYECPLAZ53G**
750	320	**NSYTJPLA73G**		**NSYECPLAZ73G**
1000	320	**NSYTJPLA103G**		**NSYECPLAZ103G**
1250	320	**NSYTJPLA123G**		**NSYECPLAZ123G**
500	420	**NSYTJPLA54G**		**NSYECPLAZ54G**
750	420	**NSYTJPLA74G**		**NSYECPLAZ74G**
	620	**NSYTJPLA76G**		**NSYECPLAZ76G**
1000	420	**NSYTJPLA104G**		**NSYECPLAZ104G**
1250	420	**NSYTJPLA124G**		**NSYECPLAZ124G**
	620	**NSYTJPLA126G**		**NSYECPLAZ126G**



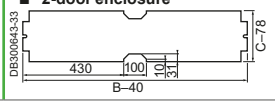


Cable-entry plate

■ **1-door enclosure**



■ **2-door enclosure**



(1) For enclosures with height ≥ 1000 mm, 1 extra lug at the centre of the A-375 side.

PLAT PLAZT



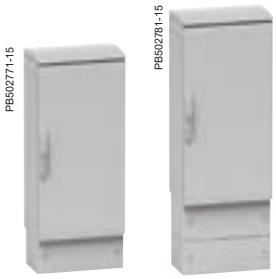


Characteristics	Grille for IP54 instead of IP44	Renovation and anti-graffiti paint		
	1 grille for 500 and 750 mm wide enclosures, 2 grilles for 1000 and 1250 mm wide enclosures. Prevents the entry of dust and provides the enclosure with IP 5X protection at the top. Maintains the possibility of ventilation.	2-component paint system, specially formulated for polyester enclosures. Renews enclosures and allows easy removal of graffiti. Paint composed of: base (80 %) and hardener (20 %).		Solvent bottles to be used as a paint thinner or to clean brushes.
Colour	RAL 7035 grey	RAL 7035 grey		-
Installation	It is installed from the inside in the upper ventilation opening	-		-
Supply	Delivered with G2 M1 standard synthetic filter, see ClimaSys section	1 kg: □ 800 g tin of base paint □ 200 g tin of hardener (Coverage = 5 m²)	5 kg: □ 4 kg tin of base paint □ 1 kg tin of hardener (Coverage = 25 m²)	1 kg
References				
	NSYCAG125LPF	**NSYAUPG1G**	**NSYAUPG5G**	**NSYAUPGS**

Polyester floor-standing enclosures
Specific accessories

PLA PLAT

Base accessories



Characteristics	ZA plinths
	■ The frontal parts of the plinth (front and rear) have two stainless-steel screws protected by a plastic cap; these screws, which can be accessed from the outside, make it possible (using an Allen key) to open and remove the frontal parts for easier cable installation. ■ In stacked position, the bottom plinth can be partially buried. ■ It is provided with one or two reinforcement cross-rails, adjustable to adapt to the position of the cables.
Material	Polyester reinforced with fibreglass
Colour	RAL 7035 grey
Ingress protection rating	IP44
Mechanical protection rating	IK10
Fixing	Four floor-attachment points; the symmetry of the parts prevents incorrect assembly
Supply	The reference of the plinth contains all the accessories required for attaching the enclosure to the plinth and for stacking two plinths

For floor-standing enclosure			Plinth		Height 200 mm	Cable-gland area	
Width (mm) (B)	Depth (mm) (C)	References	Width (mm)	Depth (mm)	References	Width (mm)	Depth (mm)
500	320	**NSYPLA(T)•53G**	494	250	**NSYZA253G**	360	205
750	320	**NSYPLA(T)•73G**	744	250	**NSYZA273G**	610	205
1000	320	**NSYPLA(T)•103G**	994	250	**NSYZA2103G**	860	205
1250	320	**NSYPLA(T)•123G**	1244	250	**NSYZA2123G**	1100	205
500	420	**NSYPLA(T)•54G**	494	350	**NSYZA254G**	360	305
750	420	**NSYPLA(T)•74G**	744	350	**NSYZA274G**	610	305
1000	420	**NSYPLA(T)•104G**	994	350	**NSYZA2104G**	860	305
1250	420	**NSYPLA(T)•124G**	1244	350	**NSYZA2124G**	1110	305
750	620	**NSYPLA(T)•76G**	744	550	**NSYZA276G**	610	505
1250	620	**NSYPLA(T)•126G**	1244	550	**NSYZA2126G**	1110	505

Cable supporting cross-rail



■ **Description:** the lateral sides of the plinth are provided with bosses for attaching cross-rails with cut-out profiles, for supporting cables.
■ **Supply:** the reference of the cross-rail includes all the elements required for assembly.

For plinth		Cross-rail
NSYZA253G	NSYZA254G	**NSYAC320**
NSYZA273G	NSYZA274G	**NSYAC560**
NSYZA2103G	NSYZA2104G	**NSYAC840**
NSYZA2123G	NSYZA2124G	**NSYAC1080**

Kit for IP54

■ **Description:** makes it possible to obtain IP 54 for the plinth and the plinth-enclosure connection.
■ **Standard:** IEC 61439-1

Reference

NSYAEPZA

Feet for partially buried installation



■ **Description:** allows the partially buried installation of plinths before completion of the floor. The plinths are attached by four feet with a standard length of 750 mm. Possibility of horizontal adjustment of the plinth.
■ **Supply:** the kit is made up of four feet and fixings.

Reference

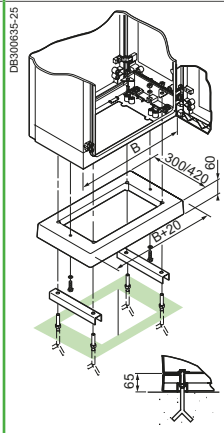
NSYAEBFZ

Polyester floor-standing enclosures
Specific accessories

Base accessories



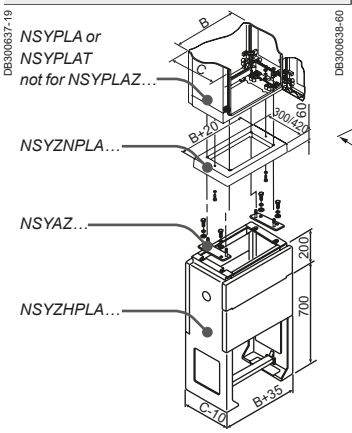
	N plinths
	Designed to be installed under the closed-bottom enclosures (version PLA or PLAT).
	Polyester reinforced with fibreglass
	RAL 7035 grey
	-
	-
	-
	Delivered with fixings required for installation
	Height 60 mm
	References
	NSYZNPLA53G
	NSYZNPLA73G
	NSYZNPLA103G
	NSYZNPLA123G
	NSYZNPLA54G
	NSYZNPLA74G
	NSYZNPLA104G
	NSYZNPLA124G
	-
	-

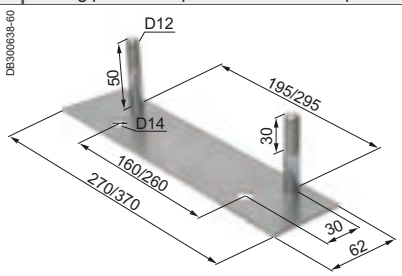


Connectors between plinths

- **Description:** designed to allow the adaptation of a closed-bottom enclosure + N plinth on a H-type partially buried plinth.
- **Supply:** 2 parts for adapting the centre-to-centre distances.

For floor-standing enclosure Depth (mm)	Description	References
320	Linking parts for N plinth on 320-mm H plinth	**NSYAZ3PLA**
420	Linking parts for N plinth on 420-mm H plinth	**NSYAZ4PLA**

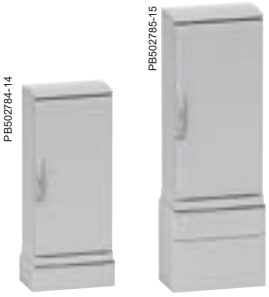




Polyester floor-standing enclosures
Specific accessories

PLAZ PLAZT

Base accessories



Characteristics	ZZ plinths (1)
	■ The frontal parts (front and rear) are removed from the inside. Removing them makes it easier to install the cables. ■ The 500-mm plinth can be partially buried. ■ It is provided with one or two reinforcement cross-rails, adjustable to adapt to the position of the cables.
Material	Polyester reinforced with fibreglass
Colour	RAL 7035 grey
Ingress protection rating	IP44
Mechanical protection rating	IK10
Fixing	Four floor-attachment points; the symmetry of the parts prevents incorrect assembly
Supply	The reference of the plinth contains all the accessories required for attaching the enclosure to the plinth

For floor-standing enclosure			Plinth		Cable-gland area		Height 200 mm	Height 500 mm
Width (mm) (B)	Depth (mm) (C)	References	Width (mm)	Depth (mm)	Width (mm)	Depth (mm)	References	References
500	320	**NSYPLAZ(T)●53G**	535	310	419	252	**NSYZZ253G**	**NSYZZ553G**
750	320	**NSYPLAZ(T)●73G**	785	310	669	252	**NSYZZ273G**	**NSYZZ573G**
1000	320	**NSYPLAZ(T)●103G**	1035	310	919	252	**NSYZZ2103G**	**NSYZZ5103G**
1250	320	**NSYPLAZ(T)●123G**	1285	310	1169	252	**NSYZZ2123G**	**NSYZZ5123G**
500	420	**NSYPLAZ(T)●54G**	535	410	419	352	**NSYZZ254G**	**NSYZZ554G**
750	420	**NSYPLAZ(T)●74G**	785	410	669	352	**NSYZZ274G**	**NSYZZ574G**
1000	420	**NSYPLAZ(T)●104G**	1035	410	919	352	**NSYZZ2104G**	**NSYZZ5104G**
1250	420	**NSYPLAZ(T)●124G**	1285	410	1169	352	**NSYZZ2124G**	**NSYZZ5124G**
750	620	**NSYPLAZ(T)●76G**	785	610	669	552	**NSYZZ276G**	-
1250	620	**NSYPLAZ(T)●126G**	1285	610	1169	552	**NSYZZ2126G**	-

Cable supporting cross-rail



■ **Description:** the lateral sides of the plinths are provided with bosses for attaching cross-rails with cut-out profiles, for supporting cables.
■ **Supply:** the reference of the cross-rail includes all the elements required for assembly.

For plinth				Cross-rail
NSYZZ253G	NSYZZ254G	NSYZZ553G	NSYZZ554G	**NSYAC360**
NSYZZ273G	NSYZZ274G	NSYZZ573G	NSYZZ574G	**NSYAC600**
NSYZZ2103G	NSYZZ2104G	NSYZZ5103G	NSYZZ5104G	**NSYAC840**
NSYZZ2123G	NSYZZ2124G	NSYZZ5123G	NSYZZ5124G	**NSYAC1120**

Outside opening kit

Description: the 200-mm front part of the 200- and 500-mm plinths can be opened from the outside, after installing a kit made up of two locks with double-bar insert.

Reference

NSYAELZ

Feet for partially buried installation



■ **Description:** allows the partially buried installation of plinths before completion of the floor. The plinths are attached by four feet with a standard length of 750 mm. Possibility of horizontal adjustment of the plinth.
■ **Supply:** the reference includes a kit made up of four feet and fixings.

Reference

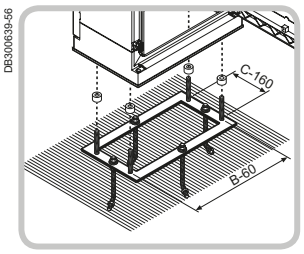
NSYAEBFZ

(1) For enclosures using ZZ or ZH type plinths the coupling kit to use is the NSYMUPLA•••W.

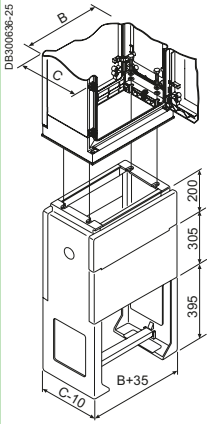
Polyester floor-standing enclosures
Specific accessories

Base accessories





	Buriable H plinths	Floor-standing frame
	■ Front panel with a height of 170 mm, retractable, providing easy access to the inside. ■ Fixed front panel with a height of 305 mm, corresponding to the finished floor height area. ■ The height above the floor after building-in varies between 200 and 500 mm. ■ A metal rail helps to fix the entry cables. ■ Lateral uprights with pre-knock-out auxiliary output with Ø Pg 36 (48 mm). ■ A pre-knock-out area is provided at the bottom of the lateral uprights for cable entry, if necessary.	Frame for direct fixing on the floor for installing open-bottom enclosures (version PLAZ or PLAZT).
	Polyester reinforced with fibreglass	Passivated zinc-coated steel
	RAL 7035 grey	-
	-	-
	-	-
	-	-
	Delivered with the fixings required for installation	Delivered with fixings required for installation
	Height 900 mm	
	References	**References**
	NSYZHPLA53G	**NSYMFPLAZ53**
	NSYZHPLA73G	**NSYMFPLAZ73**
	NSYZHPLA103G	**NSYMFPLAZ103**
	NSYZHPLA123G	**NSYMFPLAZ123**
	NSYZHPLA54G	**NSYMFPLAZ54**
	NSYZHPLA74G	**NSYMFPLAZ74**
	NSYZHPLA104G	**NSYMFPLAZ104**
	NSYZHPLA124G	**NSYMFPLAZ124**
		NSYMFPLAZ76
		NSYMFPLAZ126

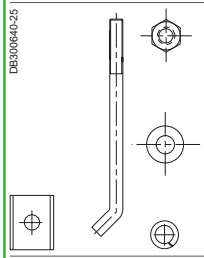


Floor-fixing studs

■ **Description:** set of four threaded parts and fixings, for fixing the enclosures on concrete plinths.

Reference

NSYFSPLAZ

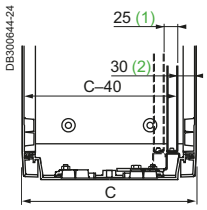


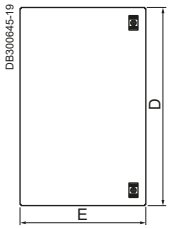
Polyester floor-standing enclosures
Specific accessories

Door









Characteristics	Internal door		
	■ Designed for direct installation in enclosures with sealed bottom part. In the enclosures with the bottom part open, installation can be performed by ordering the necessary adapter plates, ref. **NSYPTZ●●●**. ■ 2 depthwise mounting positions (1) according to the chosen M8 bosses to fix, on the top and bottom parts of the enclosure. ■ IP20 (only if the internal door is mounted on the advanced position). ■ Reversible assembly left / right, for single door enclosures. ■ Lock with 5-mm double-bar inserts. ■ Incompatibility with: modular distribution chassis, 19" chassis, cable-entry plate and door retainer, ref. **NSYRETPLAU**.		
Material	Carbon steel painted		
Colour	RAL 7035 grey		
Supply	Delivered with M8 brass inserts and fixings		
For enclosure (mm)	**Internal door dimensions**		**References**
Height / **Width**	**D**	**E**	
500 / 500	398	398	**NSYPAPLA55G**
500 / 750	398	648	**NSYPAPLA57G**
500 / 1000	398	796 (2 x 398)	2 x **NSYPAPLA55G**
500 / 1250	398	1046 (398 + 648)	**NSYPAPLA55G** + **NSYPAPLA57G**
750 / 500	648	398	**NSYPAPLA75G**
750 / 750	648	648	**NSYPAPLA77G**
750 / 1000	648	796 (2 x 398)	2 x **NSYPAPLA75G**
750 / 1250	648	1046 (398 + 648)	**NSYPAPLA75G** + **NSYPAPLA77G**
1000 / 500	898	398	**NSYPAPLA105G**
1000 / 750	898	648	**NSYPAPLA107G**
1000 / 1000	898	796 (2 x 398)	2 x **NSYPAPLA105G**
1000 / 1250	898	1046 (398 + 648)	**NSYPAPLA105G** + **NSYPAPLA107G**
1250 / 500	1148	398	**NSYPAPLA125G**
1250 / 750	1148	648	**NSYPAPLA127G**
1250 / 1000	1148	796 (2 x 398)	2 x **NSYPAPLA125G**
1250 / 1250	1148	1046 (398 + 648)	**NSYPAPLA125G** + **NSYPAPLA127G**
1500 / 500	1398	398	**NSYPAPLA155G**
1500 / 750	1398	648	**NSYPAPLA157G**
1500 / 1000	1398	796 (2 x 398)	2 x **NSYPAPLA155G**
1500 / 1250	1398	1046 (398 + 648)	**NSYPAPLA155G** + **NSYPAPLA157G**

(1) Two positions for depthwise installation.
(2) The 2nd position moves the position of the internal door back by 25 mm.

Door accessories



Opening to 110°.



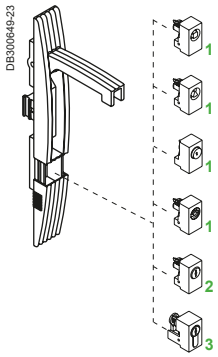
With 2 positions, 90° and 120°.



Characteristics	Door retainer		Door switch
	■ Designed to adapt directly to the enclosure. ■ Can be installed on a door opening to the left or right indistinctly.		NC + NO switch. Incompatible with the rear door and modular distribution chassis.
Material	Galvanised steel		-
Supply	Delivered with the fixings required for installation		Switch, fixing bracket and fixings
	PLA, PLAZ, PLAT versions	**PLA, PLAZ, PLAT, PLAZT versions***	**Reference**
	NSYRETPLA	**NSYRETPLAU**	**NSYSNLPLA**
	** Note: ref. **NSYRETPLAU** is incompatible with internal doors, modular distribution chassis, step slides, adapter plates and cable-entry plates. In the event of incompatibility, use ref. **NSYRETPLA**.*		

Polyester floor-standing enclosures
Specific accessories

Locking system



1 Block with form insert.
2 Block with cylindrical barrel.
3 Block with semi-cylindrical barrel.

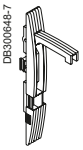
Characteristics	Lock with handle
	Ergonomic locking system with pivoting handle installed as standard on enclosures with ventilated canopy and/or open bottom part, with a 5 mm double-bar insert block.
Material	PA6
Colour	RAL 7035 grey

Options

Options for changing the form-insert blocks (supplied with the required operating key)	References
Block, 6 mm square insert	**NSYINS61**
Block, 7 mm square insert	**NSYINS71**
Block, 8 mm square insert	**NSYINS81**
Block, 6.5 mm triangular insert	**NSYINT61**
Block, 8 mm triangular insert	**NSYINT81**
Push-button	**NSYTSPLA**
Double bar	**NSYINDB51**

Options for changing the blocks with cylindrical barrels			
Type of key	**References**	**Type of key**	**References**
405 E key	**NSYIN405E1**	3113 A key	**NSYIN3113A1**
421 E key	**NSYIN421E1**	3122 E key	**NSYIN3122E1**
455 key	**NSYIN4551**	3123 A key	**NSYIN3123A1**
1242 E key	**NSYIN1242E1**	3131A1 key	**NSYIN3131A1**
1332 E key	**NSYIN1332E1**	3133 A key	**NSYIN3133A1**
2131 A key	**NSYIN2131A1**	3422 E key	**NSYIN3422E1**
2132 A key	**NSYIN2132A1**	3432 E key	**NSYIN3432E1**
2331 A key	**NSYIN2331A1**	6101 key	**NSYIN6101**
2433 A key	**NSYIN2433A1**	EDF 1300 key	**NSYINF1301**
2452 E key	**NSYIN2452E1**	EDF 1400 key	**NSYINF1401**

Options for changing the blocks with semi-cylindrical barrels	References
1242 E key	**NSYIN1242E2**
DIN adapter	**NSYINDIN2**
JIS key	**NSYINKJIS2**
Reinforced key	**NSYINKR2**
FAC key	**NSYINKFAC2**

Options for changing the handle lock	References
 Changing the handle for a handle including a padlocking device (Ø 10 mm) allowing the handle to be locked. The handle is delivered without barrel or insert block.	**NSYCBCMPLAG**
 Spare handle lock without barrel or insert blocks. The insert or barrel are to be chosen from the option table.	**NSYEBMPLAG**

Type of lock	Insert references	Key references
5 mm double bar	**NSYTDB5PLA**	**NSYLDB5**
□ 6 mm	**NSYTC6CRN**	**NSYLC7**
□ 7 mm	**NSYTC7CRN**	**NSYLC7**
□ 8 mm	**NSYTC8CRN**	**NSYLC8**
△ 6.5 mm	**NSYTT6CRN**	**NSYLT8**
△ 7 mm	**NSYTT7CRN**	**NSYLT8**
△ 8 mm	**NSYTT8CRN**	**NSYLT8**

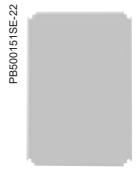
Polyester floor-standing enclosures
Specific accessories

Installation accessories

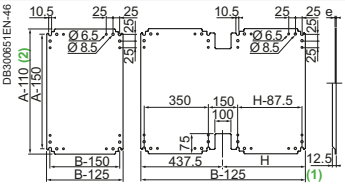


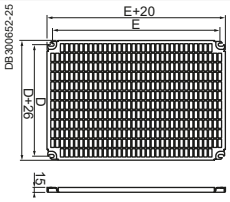


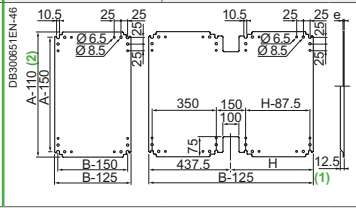




Characteristics		Metallic mounting plate							Insulating mounting plate	
		Plain mounting plate			Telequick mounting plate					
		■ Direct installation on M8 inserts at the rear of the enclosure or on step slides for depth adjustment (see page 195). The enclosures with height of ≥ 1000 mm have intermediate impressions for installing mounting plates of a lesser height (M8 inserts, ref. **NSYTEX8**, to be ordered separately). ■ In the 2-door enclosures, it is possible to install 1 complete mounting plate or 2 individual mounting plates.			■ Grille with 11 x 26 mm drill holes, with a step of 1 5 x 30 mm, for direct installation, with clip nuts, of all the devices with fixing at 2, 3 or 4 points, by screws with diameters of 3, 4, 5 or 6 mm. ■ Direct installation on M8 inserts at the rear of the enclosure or on step slides for depth adjustment (see page 195). The enclosures with height of ≥ 1000 mm have intermediate impressions for installing mounting plates of a lesser height (M8 inserts, ref. **NSYTEX8**, to be ordered separately).			■ Direct installation on M8 inserts at the rear of the enclosure or on step slides for depth adjustment (see page 195). The enclosures with height of ≥ 1000 mm have intermediate impressions for installing mounting plates of a lesser height (M8 inserts, ref. **NSYTEX8**, to be ordered separately). ■ In the 2-door enclosures, it is possible to install 1 complete mounting plate or 2 individual mounting plates.	
Material		Galvanised sheet-steel			Galvanised-steel				Bakelite	Polyester
Finish		-			-				-	-
Colour		-			-				-	-
Thickness		2.5 mm			-				4 mm	■ 4 mm up to 700 mm height ■ 5 mm from 800 mm height
Maximum load		150 kg/m²			150 kg/m²				100 kg/m²	
Supply		1 mounting plate			1 mounting plate				1 mounting plate	
For enclosure (mm)		**Dimensions**		**References**	**Dimensions**			**References**	**References**	
Height (A)	**Width (B)**	**H (mm)**	**Surface (dm²)**		**E (mm)**	**D (mm)**	**Surface (dm²)**			
500	500	-	14	**NSYPMM55**	350	350	13	**NSYPMR55**	**NSYPMB55**	**NSYPMA55**
	750	-	24	**NSYPMM75**	350	600	23	**NSYPMR57**	**NSYPMB75**	**NSYPMA75**
	1000	437.5	32	**NSYPMM510**	350	2 x 350	26	2 x **NSYPMR55**	**NSYPMB510**	**NSYPMA510**
	1250	-	38	**NSYPMM55** + **NSYPMM75**	350	350 + 600	36	**NSYPMR55** + **NSYPMR57**	**NSYPMB55** + **NSYPMB75**	**NSYPMA55** + **NSYPMA75**
750	500	-	24	**NSYPMM75**	600	350	23	**NSYPMR75**	**NSYPMB75**	**NSYPMA75**
	750	-	40	**NSYPMM77**	600	600	38	**NSYPMR77**	**NSYPMB77**	**NSYPMA77**
	1000	437.5	54	**NSYPMM710**	600	2 x 350	46	2 x **NSYPMR75**	**NSYPMB710**	**NSYPMA710**
	1250	687.5	70	**NSYPMM712**	600	350 + 600	61	**NSYPMR75** + **NSYPMR77**	**NSYPMB712**	**NSYPMA712**
1000	500	-	33	**NSYPMM105**	850	350	32	**NSYPMR105**	**NSYPMB105**	**NSYPMA105**
	750	-	55	**NSYPMM107**	850	600	54	**NSYPMR107**	**NSYPMB107**	**NSYPMA107**
	1000	437.5	74	**NSYPMM1010**	850	2 x 350	64	2 x **NSYPMR105**	**NSYPMB1010**	**NSYPMA1010**
	1250	687.5	96	**NSYPMM1012**	850	350 + 600	86	**NSYPMR105** + **NSYPMR107**	**NSYPMB1012**	**NSYPMA1012**
1250	500	-	42	**NSYPMM125**	1100	350	42	**NSYPMR125**	**NSYPMB125**	**NSYPMA125**
	750	-	70	**NSYPMM127**	1100	600	70	**NSYPMR127**	**NSYPMB127**	**NSYPMA127**
	1000	437.5	96	**NSYPMM1210**	1100	2 x 350	84	2 x **NSYPMR125**	**NSYPMB1210**	**NSYPMA1210**
	1250	687.5	124	**NSYPMM1212**	1100	350 + 600	112	**NSYPMR125** + **NSYPMR127**	**NSYPMB1212**	**NSYPMA1212**
1500	500	-	51	**NSYPMM155**	1350	350	51	**NSYPMR155**	**NSYPMB155**	-
	750	-	85	**NSYPMM157**	1350	600	85	**NSYPMR157**	**NSYPMB157**	-
	1000	437.5	118	**NSYPMM1510**	1350	2 x 350	102	2 x **NSYPMR155**	**NSYPMB1510**	-
	1250	687.5	152	**NSYPMM1512**	1350	350 + 600	136	**NSYPMR155** + **NSYPMR157**	**NSYPMB1512**	-
2000	750	-	115	**NSYPMM207**	2 x 850	2 x 600	108	2 x **NSYPMR107**	2 x **NSYPMB107**	2 x **NSYPMA107**





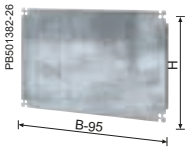


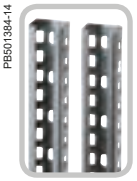
*(1) Reinforcing fold for steel mounting plate **NSYPMM1010** to **NSYPMM1512**.*
*(2) A-125 for references **NSYPMM1010** to **NSYPMM1512**, A-120 for the polyester mounting plate, ref. **NSYPMA●●●**.*

Polyester floor-standing enclosures
Specific accessories

Installation accessories









	Side mounting plates			Partial plain mounting plate		Technical uprights		Anti-burglary accessory	
	Polyester mounting plates fixed to the sides of the enclosure for additional installations. Installation on the M8 bosses by adding inserts, ref. **NSYTEX8**.			Direct fixing on the uprights, with the notched sliding nuts or pivoting nuts, see common accessories section.		■ Supports for fixing rails, perforated grilles and plain partial mounting plates. ■ Details in the common accessory section. ■ Fixing at the rear on the M8 inserts or on the step slides.		Anti-burglary accessory for polyester outdoor Heavy Duty in accordance with ENV 1627-1630:2011 class 2. It keeps the Insulation Class II according to IEC 61439-1:2011.	
	Polyester			Galvanised sheet-steel		Zinc-coated steel		Steel with anti-corrosive coating	
	-			-		-		Structured finish, 100 % polyester powder	
	-			-		-		RAL 7035 grey	
	■ 4 mm up to 750 mm height ■ 5 mm from 800 mm height			2.5 mm		2 mm		-	
	100 kg/m²			150 kg/m²		-		-	
	Reference by unit. Order by multiples of 2			1 mounting plate		2 technical uprights		1	
	References			**References**		**Dimensions**	**References**	**References**	
	Enclosure depth			**247 mm height (H)**	**397 mm height (H)**	**(mm)**		**Depth 420 mm**	**Depth 620 mm**
	320 mm	**420 mm**	**620 mm**						
	NSYPMLA53	**NSYPMLA54**	-	-	-	-	-	-	-
	NSYPMLA53	**NSYPMLA54**	-	**NSYSPMP2575**	-			-	-
	NSYPMLA53	**NSYPMLA54**	-	**NSYSPMP25100**	**NSYSPMP40100**			-	-
	NSYPMLA53	**NSYPMLA54**	-	-	-			-	-
	NSYPMLA73	**NSYPMLA74**	**NSYPMLA76**	-	-	625	**NSYTVR7**	-	-
	NSYPMLA73	**NSYPMLA74**	-	**NSYSPMP2575**	-			**NSYBGN774HD**	**NSYBGN776HD**
	NSYPMLA73	**NSYPMLA74**	-	**NSYSPMP25100**	**NSYSPMP40100**			-	-
	NSYPMLA73	**NSYPMLA74**	-	-	-			-	-
	NSYPMLA103	**NSYPMLA104**	-	-	-	875	**NSYTVR10**	**NSYBGN1054HD**	-
	NSYPMLA103	**NSYPMLA104**	-	**NSYSPMP2575**	-			**NSYBGN1074HD**	-
	NSYPMLA103	**NSYPMLA104**	-	**NSYSPMP25100**	**NSYSPMP40100**			-	-
	NSYPMLA103	**NSYPMLA104**	-	-	-			-	-
	NSYPMLA123	**NSYPMLA124**	**NSYPMLA126**	-	-	1125	**NSYTVR125**	**NSYBGN1254HD**	-
	NSYPMLA123	**NSYPMLA124**	-	**NSYSPMP2575**	-			**NSYBGN1274HD**	**NSYBGN1276HD**
	NSYPMLA123	**NSYPMLA124**	-	**NSYSPMP25100**	**NSYSPMP40100**			-	-
	NSYPMLA123	**NSYPMLA124**	-	-	-			**NSYBGN12124HD**	**NSYBGN12126HD**
	-	-	-	-	-	1375	**NSYTVR15**	-	-
	-	-	-	**NSYSPMP2575**	-			**NSYBGN1574HD**	**NSYBGN1576HD**
	-	-	-	**NSYSPMP25100**	**NSYSPMP40100**			-	-
	-	-	-	-	-			**NSYBGN15124HD**	**NSYBGN15126HD**
	-	2 x **NSYPMLA104**	-	**NSYSPMP2575**	-	1875	2 x **NSYTVR10**	**NSYBGN2074HD**	-
						Note: enclosures with widths of 1000 and 1250 allow the installation of 4 uprights to integrate 2 mounting plates of 500 mm or of 500 and 750 mm.			

Polyester floor-standing enclosures
Specific accessories

Installation accessories



Characteristics		Modular distribution chassis*					
		■ Chassis for modular switchgear, installed directly in the sealed enclosures (PLA version). For installation in enclosures with open bottom part (PLAZ version) it is necessary to use a set of adapter plates (ref. **NSYPTZ●●●**). ■ Chassis made up of cover plates on a rigid structure. ■ Front plate: quick fixing without screws. ■ Distance between rail and front panel with adjustable depth from 40 to 85 mm. ■ System for identifying electrical circuits supplied. ■ Neutral/earth strip: 2 x 16 mm^2 + 5 x 6 mm^2 included in the standard offer. ■ Incompatibility with: cable-entry plate, internal door, door switch and door retainer (ref. **NSYRETPLAU**).					
Material		■ Rigid structure: galvanised-steel ■ Cover plates: self-extinguishing insulating					
Colour		Cover plates: RAL 7035 grey					
For enclosure (mm)		**No. of doors**	**No. of rows**	**Rows for module**		**No. of plates**	**References**
Height (A)	**Width (B)**			**No.**	**No. of 18-mm modules**		
750	500	1	4	4	76	-	**NSYDLP76G**
		1	4	3	57	1	**NSYDLP57G**
	750	1	4	4	132	-	**NSYDLP132G**
		1	4	3	99	1	**NSYDLP99G**
	1000	2	4 + 4	4 + 4	152	-	2 x **NSYDLP76G**
		2	4 + 4	3 + 3	114	1 + 1	2 x **NSYDLP57G**
	1250	2	4 + 4	4 + 4	208	-	**NSYDLP76G** + **NSYDLP132G**
		2	4 + 4	3 + 3	156	1 + 1	**NSYDLP57G** + **NSYDLP99G**
1000	500	1	6	6	114	-	**NSYDLP114G**
		1	6	5	95	1	**NSYDLP95G**
	750	1	6	6	198	-	**NSYDLP198G**
		1	6	5	165	1	**NSYDLP165G**
	1000	2	6 + 6	6 + 6	228	-	2 x **NSYDLP114G**
		2	6 + 6	5 + 5	190	1 + 1	2 x **NSYDLP95G**
	1250	2	6 + 6	6 + 6	312	-	**NSYDLP114G** + **NSYDLP198G**
		2	6 + 6	5 + 5	260	1 + 1	**NSYDLP95G** + **NSYDLP165G**
1250	500	1	7	7	133	-	**NSYDLP133G**
		1	7	6	114	1	**NSYDLP114PG**
	750	1	7	7	231	-	**NSYDLP231G**
		1	7	6	198	1	**NSYDLP198PG**
	1000	2	7 + 7	7 + 7	266	-	2 x **NSYDLP133G**
		2	7 + 7	6 + 6	228	1 + 1	2 x **NSYDLP114PG**
	1250	2	7 + 7	7 + 7	364	-	**NSYDLP133G** + **NSYDLP231G**
		2	7 + 7	6 + 6	312	1 + 1	**NSYDLP114PG** + **NSYDLP198PG**
1500	500	1	9	9	171	-	**NSYDLP171G**
		1	9	8	152	1	**NSYDLP152G**
	750	1	9	9	297	-	**NSYDLP297G**
		1	9	8	264	1	**NSYDLP264G**
	1000	2	9 + 9	9 + 9	342	-	2 x **NSYDLP171G**
		2	9 + 9	8 + 8	304	-	2 x **NSYDLP152G**
	1250	2	9 + 9	9 + 9	468	1 + 1	**NSYDLP171G** + **NSYDLP297G**
		2	9 + 9	8 + 8	416	1 + 1	**NSYDLP152G** + **NSYDLP264G**

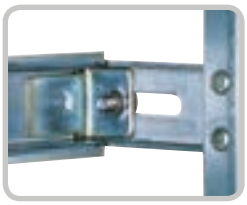
** Other modular distribution accessories on page 194.*

Polyester floor-standing enclosures
Specific accessories

PB502918-55



PB501388-41



Details of the depth adjustment.

PB502919-37



Detail from front-panel mounting.

PB502920-32



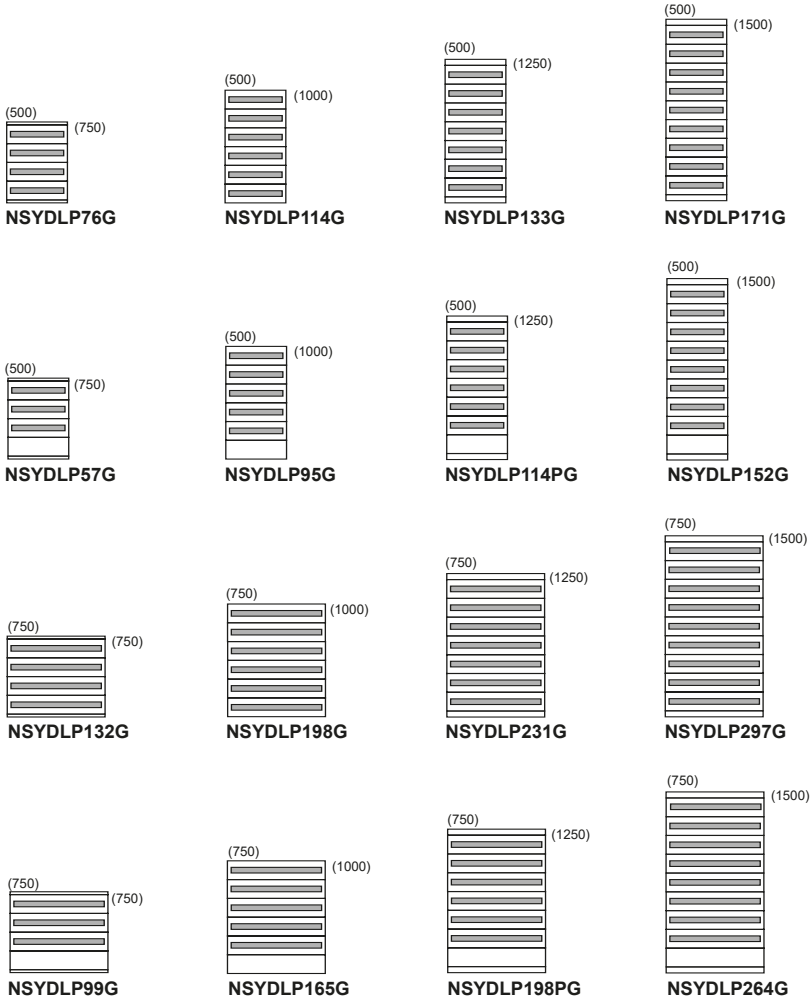
Detail from the circuit-marking system.

Installation accessories

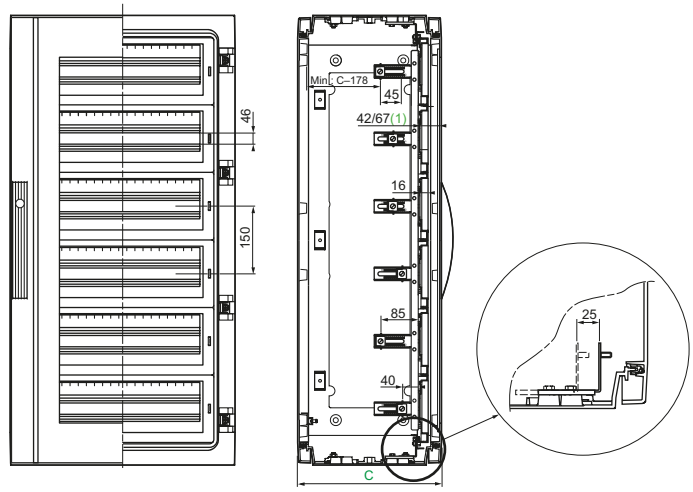
Dimensions

Modular distribution chassis

DB300660-71



DB300661-90



(1) Dimensions of 42 or 67 mm or a pitch of 25 mm, according to the M8 boss chosen for the installation. See details in the enlarged image on the right. In the enclosures with glazed doors, the 2 dimensions are reduced by 5 mm.

Warning: IP2X cannot be respected if it's mounted on 2nd boss (67 mm from the door).

Polyester floor-standing enclosures

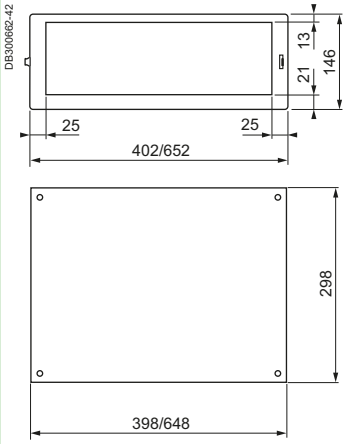
Specific accessories

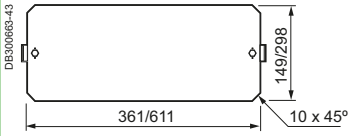
Installation accessories





Characteristics	Plain cover plate			Plain mounting plate		
	■ Plain cover plate for non-modular switchgear protection. ■ Can be cutted out according to needs.			■ Plate for fixing non-modular devices. ■ Depth-adjustable fixing on the supports from 40 to 85 mm.		
Material	■ Polystyrene (PS) (for 146 mm high) ■ Fiberglass reinforced polyester (for 298 mm high)			Galvanised steel 2 mm thick		
Colour	RAL 7035					
Supply	Order by multiples of 2 (2, 4, 6...)			Order by multiples of 2 (2, 4, 6...)		
For enclosure	**Height**	**Thickness**	**References**	**Height**	**Thickness**	**References**
Width (mm)	**A (mm)**	**(mm)**		**A (mm)**	**(mm)**	
500	146	2	**NSYCTL500DLPG**	149	2	**NSYPMP500DLP**
	298	4	**NSYCTL500DLP2**	298	2	**NSYPMP5002DLP**
750	146	2	**NSYCTL750DLPG**	149	2	**NSYPMP750DLP**
	298	4	**NSYCTL750DLP2**	298	2	**NSYPMP7502DLP**





Polyester floor-standing enclosures
Specific accessories

Installation accessories





NSYPTZ●●●

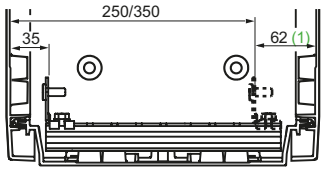


NSYPTZ●●●2P

Characteristics		Step slides	Adapter plates
		■ Set of 4 step slides with brackets allowing continuous depth adjustment of the mounting plate, with a pitch of 25 mm. ■ Designed for direct installation in the enclosures with sealed bottom part (versions PLA or PLAT). ■ In the enclosures with open bottom part (versions PLAZ or PLAZT), installation is made possible by adding the relevant adapter plates. ■ Incompatibility with: internal door, modular distribution chassis, 19" chassis, cableentry plate and door retainer, ref. **NSYRETPLAU**.	■ The enclosures with open bottom part (versions PLAZ and PLAZT) require a set of adapter plates for mounting: □ an internal door, □ step slides, □ modular chassis and 19" chassis. ■ **NSYPTZ●●●** for one door enclosures ■ **NSYPTX●●● 2P** for two door enclosures
Material		Bracket with steel M8 stud on aluminium rail	Galvanised steel
Fixing		Fixing on the top and bottom parts of the enclosure by means of M8 inserts and screws (supplied)	Fixing on the bottom part of the enclosure by means of M8 inserts and screws (supplied)
For enclosure (mm)		**References**	
Depth	**No. of doors**		
320	1	**NSYDPLA3**	**NSYPTZ3**
	2	2 x **NSYDPLA3**	**NSYPTZ32P**
420	1	**NSYDPLA4**	**NSYPTZ4**
	2	2 x **NSYDPLA4**	**NSYPTZ42P**
620	1	**NSYDPLA6**	**NSYPTZ6**
	2	2 x **NSYDPLA6**	**NSYPTZ62P**

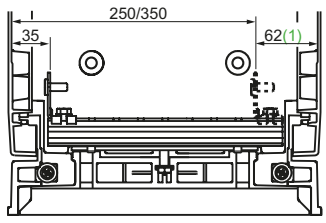
Installation of step slide ref. NSYDPLA●●●





Installation of step slide ref. NSYDPLA●●●, with adapter plateref. NSYPTZ●●●







Additional support

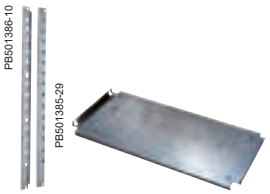
Set of 4 additional brackets, to be slid into the step slides, for the installation of an additional mounting plate.

Reference
NSYEDPLA

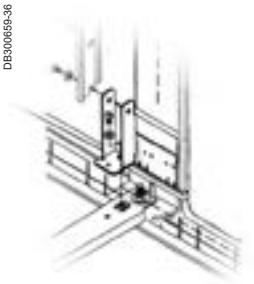
(1) 57 mm with one transparent door.

Polyester floor-standing enclosures
Specific accessories

Installation accessories



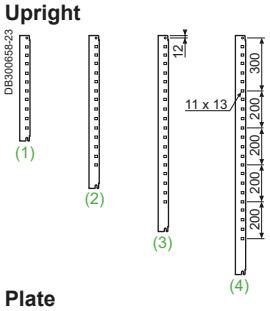




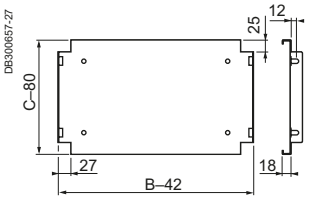
Characteristics		Support plate		M8 inserts	Intermediate support in the 2-door enclosures
		■ Designed to support assorted equipment or simply to install a separation. ■ In the 2-door enclosures, the installation of the plate or the uprights requires the prior installation of an intermediate support, ref. **NSYSBPLA**, presented beside.		To be placed in the bosses moulded on the doors, uprights, rear panels and bottom and top parts, for fixing accessories and assorted devices.	Required accessory for installing support plates, ref. **NSYBANPLA●●●** or uprights, ref. **NSYSPLA●●●** in the 2-door enclosures.
Material		Galvanised steel		Brass	Galvanised steel
Installation		■ It is installed directly on the bottom part of the enclosure ■ For the installation of one or several support plates, use 2 sets of 2 uprights suitable for the height (to be ordered separately). These uprights offer the option of adjusting the height with a step of 50 mm		-	-
Supply		Delivered with the fixings required for installation		References by unit. Order by multiples of 8 units (8, 16, 24, etc.)	Two support kits
For enclosure (mm)		**Upright**			
Height	**Depth**	**No. of adjustments**	**References**	**Reference**	**Reference**
750	320	2	2 x **NSYSPLA75**	**NSYTEX8**	**NSYSBPLA**
	420				
1000	320	3	2 x **NSYSPLA100**		
	420				
1250	320	4	2 x **NSYSPLA125**		
	420				
1500	-	5	2 x **NSYSPLA150***		
For enclosure (mm)		**Plate**			
Depth (C)	**Width (B)**	**Max. load**	**References**		
320	500	60 kg	**NSYBANPLA53**		
	750	60 kg	**NSYBANPLA73**		
420	500	50 kg	**NSYBANPLA54**		
	750	50 kg	**NSYBANPLA74**		
620	500	50 kg	**NSYBANPLA56**		
	750	50 kg	**NSYBANPLA76**		



Upright



Plate



(1) NSYSPLA75 ; (2) NSYSPLA100 ; (3) NSYSPLA125 ; (4) NSYSPLA150.

** Not compatible with NSYCAAPVHD.*

Polyester floor-standing enclosures
Specific accessories

19” chassis

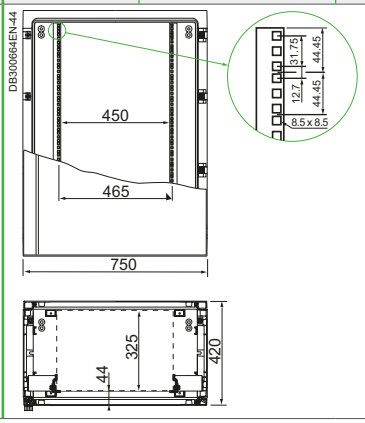


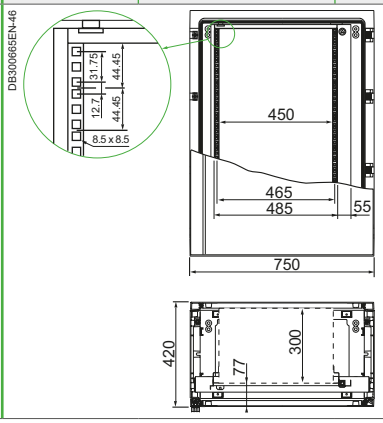
Enclosure with 19” fixed chassis.



Enclosure with 19” swing chassis.

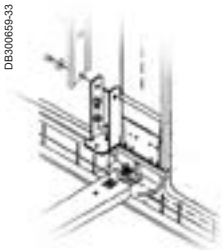
Characteristics		19” fixed chassis			19” swing chassis		
		■ Very sturdy 19” metal chassis, designed for installation in enclosures with a width of 750 and 1250 mm. In the 1250 mm enclosure, the chassis is installed in the 750 mm part with an intermediate support, ref. **NSYSBPLA**. ■ These chassis can be used as partial mounting plates in enclosures with higherthan-nominal height. ■ Incompatible with the internal doors and the step slides.					
		■ Fixed chassis made up of 2 uprights with fixings.			■ Swing chassis opening to 120° with 5 mm double-bar key lock.		
Material		Galvanised steel			Galvanised steel		
Finish		Epoxy-polyester paint			Swing part: epoxy-polyester paint		
Colour		RAL 7035 grey			RAL 7035 grey (swing part only)		
Installation		For heights from 750 to 1500 mm, the installation requires ordering 1 batch of 2 matching uprights. If a chassis is installed in an enclosure with a greater height, it is necessary to use the suitable uprights for the size of the enclosure			For heights from 750 to 1500 mm, the installation requires ordering 1 batch of 2 matching uprights. If a chassis is installed in an enclosure with a greater height, it is necessary to use the suitable uprights for the size of the enclosure		
Maximum load		3 kg per U			3 kg per U		
For enclosure		**Number of U**	**References**		**Number of U**	**References**	
Height (mm)	**Width (mm)**		**19” fixed chassis**	**Batch of 2 uprights**		**19” swing chassis**	**Batch of 2 uprights**
500	750	8	**NSYBRF8PLAG**	-	7	**NSYBRP7PLAG**	-
750	750	12	**NSYBRF12PLAG**	**NSYSPLA75**	11	**NSYBRP11PLAG**	**NSYSPLA75**
1000	750	17	**NSYBRF17PLAG**	**NSYSPLA100**	16	**NSYBRP16PLAG**	**NSYSPLA100**
1250	750	21	**NSYBRF21PLAG**	**NSYSPLA125**	20	**NSYBRP20PLAG**	**NSYSPLA125**
1500	750	26	**NSYBRF26PLAG**	**NSYSPLA150***	25	**NSYBRP25PLAG**	**NSYSPLA150**
2000	750	2 X 17	2 x **NSYBRF17PLAG + NSYPTZ4**	2 x **NSYSPLA100**	2 x 16	2 x **NSYBRP16PLAG**	2 x **NSYSPLA100**





** Not compatible with NSYCAAPVHD.*

Recommendation



Intermediate support

Accessory required for installing uprights, ref. **NSYSPLA●●●**.

■ Only for two door enclosures.
■ Supply: 1 (including 2 supports)

Reference
NSYSBPLA

Polyester DIN floor-standing enclosure
Introduction

> Floor-standing enclosures designed mainly to accommodate busbars and DIN-type three-pole LV fuse, for LV public distribution network.
The properties of the material and the manufacturing process are identical to those of the Thalassa PLA range.

PB502843-169



PB502844-31



PB502841-33



Smart
Enclosure ref. **NSYPLD8122G** with the central upright fixed to the left door.

PB502842-25



Enclosure ref. **NSYPLD8122CG** with central upright, 2 doors and 2 locks.

Green Premium™

**Prolonged exposure to UV radiation, wind and rain can cause aesthetics changes in the external surface of the enclosure.
Without affecting the technical properties according to IEC 62208.
For long exposure applications, it is recommended to use coloured enclosures available through the P&S offer.**

LV public distribution application with DIN three-pole fuse blocks: floor-standing enclosure and plinth

PB502845-32



1

PB502846-32



2

PB502847-32



3

PB502848-36



4

This range can be configured according to your needs

4 differents services available:

- Assemble to order
- Mounting of standard accessories
- Painting
- Machining

See page 488 for details or consult our web site www.se.com

*The customized solutions Configured or Specific types use existing ranges from Universal Enclosures standard offer as a base for its development.
Depending on the modifications made on the enclosures or accessories, they could affect the certification or declarations of conformity existing in the standard ranges.
The certifications and declarations of conformity needed for the solution must be defined early in the process as part of the offer specifications.*

Polyester DIN floor-standing enclosure
Characteristics

According to Reach and RoHs & Halogen free

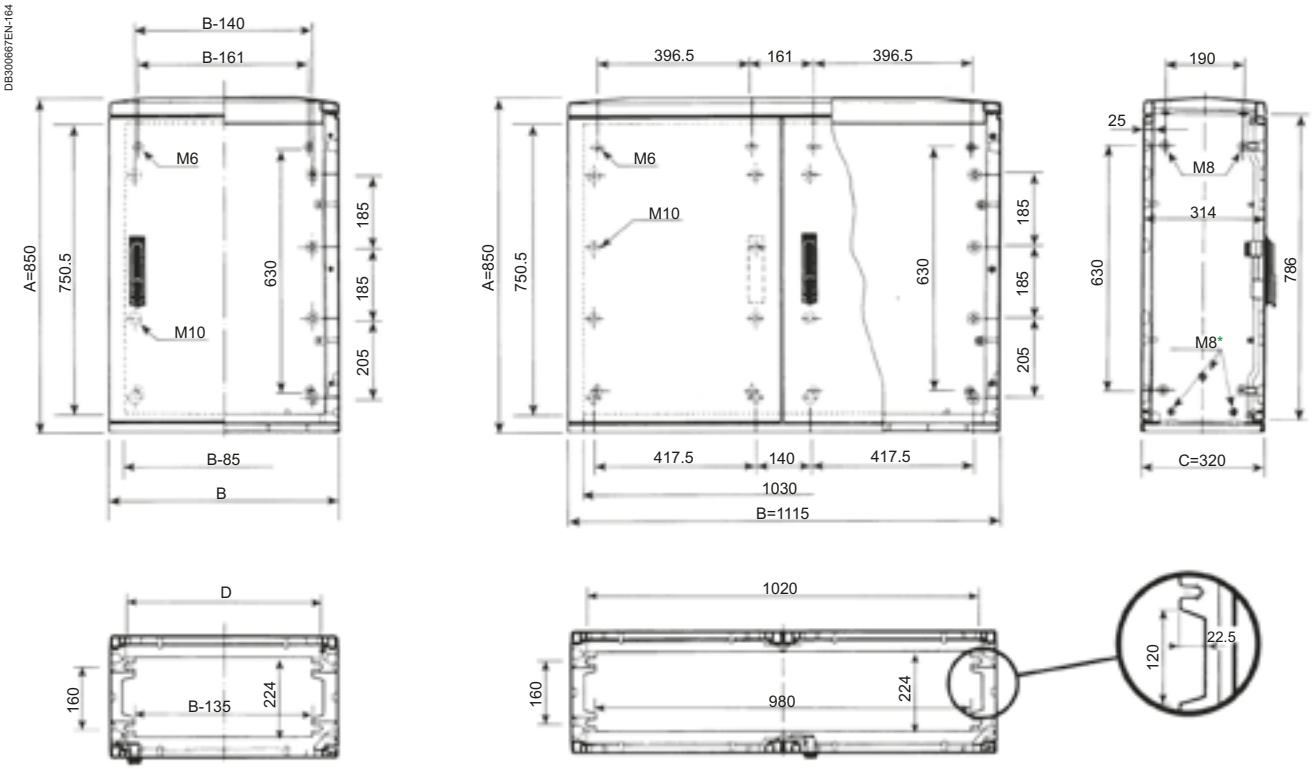


Characteristics	Thalassa PLD
	■ Floor-standing enclosure with built-in canopy, not overhanging, allowing the coupling of enclosures side-to-side or back-to-back. ■ Easily removable inner hinges, allowing the door to be reversed and to open to more than 180°. ■ Doors equipped with impressions allowing the integration of inserts for M6 screws. ■ Closing by handle with lever and 1242 E cylindrical safety lock. Other locks optionally available (see page 202). ■ 2-door floor-standing enclosure with central upright: □ central upright fixed to the enclosure and removable: one lock on each door, □ central upright fixed to the left door: a single lock on the right door. ■ M8 boss for installation on the lateral surfaces, inserts ref. **NSYTEX8** not supplied. ■ M6 bosses in the roof for fixing the lighting or auxiliary equipment, inserts ref. **NSYTEX6** not supplied.
Material	Polyester reinforced with fibreglass
Colour	RAL 7035 grey
Ingress protection rating	IP43 according to IEC 60529 (IP54 with sealing kit, see page 202)
Mechanical protection rating	IK10
Installation	■ Outdoor installation: compliant with IEC 62208 ■ Direct fixing to the floor or on a plinth, with a height of 900 mm, partially embedded ■ Fixing points at the rear of the enclosure with: □ M10 inserts: for installing, direct or on insulators, distribution bars for DIN-type three-pole fuse-holder strips and for a neutral bar □ M6 inserts: for installing a mounting plate

Height (mm)	Width (B) (mm)	Depth (mm)	Size DIN	No. of doors	No. of locks	References
850	465	320	00	1	1	**NSYPLD8500G**
850	590	320	0	1	1	**NSYPLD860G**
850	785	320	1	1	1	**NSYPLD881G**
850	1115	320	2	2	1	**NSYPLD8122G**
850	1115	320	2	2	2	**NSYPLD8122CG**

Polyester DIN floor-standing enclosure
Dimensions

Floor-standing enclosures

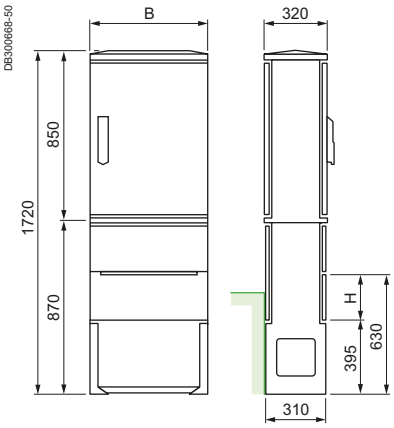


* *Bosses for M8 inserts, ref.* ***NSYTEPLDM8*** *(to be ordered in multiples of 25).*

B	D**	References	
(mm)	(mm)	Floor-standing enclosures	Plinths
465	360	**NSYPLD8500G**	**NSYZD5300G**
590	495	**NSYPLD860G**	**NSYZD630G**
785	690	**NSYPLD881G**	**NSYZD831G**
1115	1020	**NSYPLD8122G**	**NSYZD1232G**

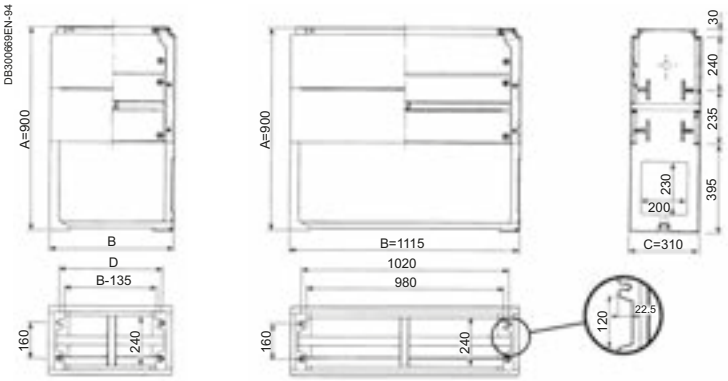
*** Distance between the points for fixing the enclosure to the plinth.*

Floor-standing enclosure plus plinth



The H dimension relates to the finished floor height.

Plinths



Polyester DIN floor-standing enclosure
Specific accessories

Base accessories

PB502849-40



PB502850-48



Characteristics		Plinth height 900 mm	Floor-standing supports			
		■ Easy machining. ■ Embeddable plinth ready for direct fixing of DIN floor-standing enclosures. ■ Retractable top front panel, providing easy access to the inside of the enclosure. ■ On the rear panel, housings with M6 inserts, allowing the fixing of the plate, DIN rail or assorted hardware. ■ Lateral uprights with knock-out auxiliary outlet with a diameter of Pg 36 (48 mm). ■ Internal U- and L-shaped metal uprights, adjustable, for fixing cables. ■ A knock-out zone is provided at the bottom of the lateral uprights for cable entry.	Set of 2 metal supports for fixing the enclosure directly to the floor.			
Material		Polyester reinforced with fibreglass	Galvanised steel			
Colour		RAL 7035 grey	-			
For floor-standing enclosure			**Table of fixing and opening dimensions**			
Width (mm)	**References**		**K**	**L**	**M**	**Reference**
465	**NSYPLD8500G**	**NSYZD5300G**	360	320	224	**NSYSPLD**
590	**NSYPLD860G**	**NSYZD630G**	495	455	224	
785	**NSYPLD881G**	**NSYZD831G**	690	650	224	
1115	**NSYPLD8122G** and **NSYPLD8122CG**	**NSYZD1232G**	1020	980	224	

PB502851-38



Knock-out Pg 36 auxiliary outlet.

PB502852-63



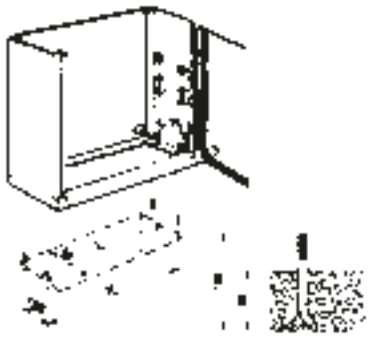
Lateral knock-out is removed.

PB502853-52



Removable top front panel (not hinged).

DB300670



Polyester DIN floor-standing enclosure
Specific accessories

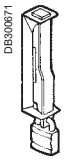
Locking system



Characteristics	Locks
	Standard lock with retractable plastic handle and 1242 E semi-cylindrical safety lock.
Options	Other optional shape inserts or barrels and keys

Options

Inserts for optional change	
Name	**References**
5-mm double bar	**NSYTDB5ME**
6-mm male square	**NSYTC6ME**
7-mm male square	**NSYTC7ME**
8-mm male square	**NSYTC8ME**
6.5-mm male triangle	**NSYTT6ME**
8-mm male triangle	**NSYTT8ME**
Barrel and key 405	**NSYTCL405ME**
Barrel and key 1242E	**NSYTL1242EME**
Reinforced semi-cylindrical barrel and key	**NSYTLRME**
JIS key and barrel	**NSYTLJISME**



Padlocking accessory

- **Description:** padlocking system, for Ø 9 mm padlock, preventing access to the handle.
- **Material:** stainless steel.

Reference
NSYBCME

Other accessories





Characteristics	IP54 sealing kit	Renovation and anti-graffiti paint		
	■ Placed directly on the door and on the rear of the enclosure. ■ Seal made from black synthetic rubber.	2-components paint system, specially formulated for polyester enclosures. Renews enclosures and allows easy removal of graffiti. Paint composed of: base (80%) and hardener (20%).		Solvent bottles to be used as a paint thinner or to clean brushes.
Color	-	RAL 7035 grey		-
Ingress protection rating	IP54	-		-
Supply		1 kg: □ 800 g tin of base paint □ 200 g tin of hardener (coverage = 5 m²)	5 kg: □ 4 kg tin of base paint □ 1 kg tin of hardener (coverage = 25 m²)	1 kg
For floor-standing enclosure	**References**	**References**		
Width (mm)				
465	**NSYJED8500**	**NSYAUPG1G**	**NSYAUPG5G**	**NSYAUPGS**
590	**NSYJED860**			
785	**NSYJED881**			
1115	**NSYJED8122**			

Polyester DIN floor-standing enclosure
Specific accessories

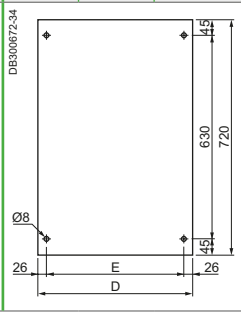
Mounting accessories

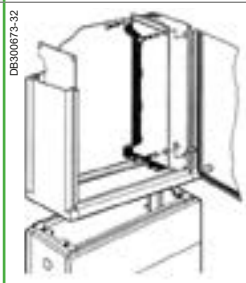






Characteristics	Insulating mounting plate				Lateral uprights for busbars
	It is placed directly on the rear of the enclosure.				■ They are fixed to the plinth, ref. **NSYZD●●●**. ■ They are designed to accommodate busbars, fixed to the built-in inserts. ■ This installation is used with a polyester DIN floor-standing enclosure previously machined to obtain a completely open bottom part. This machining is available in the customised offer. ■ The enclosure is positioned from the top on the set made of both lateral uprights plus the plinth. ■ The fixings supplied allow the attachement of the 2 uprights to the enclosure.
Material	Insulating material, bakelite				Polyester reinforced with fibreglass
Colour	Black				RAL 7035 grey
Thickness	4 mm				-
For floor-standing enclosure	**D (mm)**	**E (mm)**	**Maximum load (kg)**	**References**	**Reference**
Width (mm)					
465	356	304	19	**NSYAPLD85**	**NSYBPLDNG**
590	481	429	27	**NSYAPLD86**	
785	676	624	39	**NSYAPLD88**	
1115	448.5	396.5	2 x 24	**NSYAPLD812***	





** The reference includes 2 mounting plates with the dimensions of the table.*

Accessories

Accessories
Contents



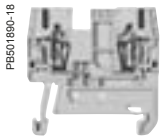


Mounting 206





Cable management 242



Terminal blocks 266



Lighting and power socket 268



Floor accessories 271





Door accessories 272





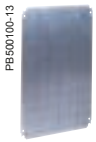
Other accessories 277

Mounting

Mounting plates for wall-mounting enclosures

S3D S3X PLM









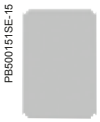
Characteristics	Mounting plates			Telequick mounting plate**
	Plain	Silkscreened	Microperforated**	
	-	Silkscreened for easier distribution of the products to be installed. Centimetric grid pattern.	They considerably reduce the products installation time thanks to the holes prepared to receive the self-tapping screws. Holes with Ø 3.6 mm in steps of 12.5 mm.	They allow cable guides and ducting and other installation accessories to be clipped on, making it easier to install switchgear. 11 x 26 mm slots. Switchgear fixing by clip-on nuts.
Material	Galvanised-steel	Galvanised-steel	Galvanised-steel	Zinc-coated-steel
Colour	-	-	-	-
Maximum load	PLM: 150 kg/m² S3D, S3X, CRN, CRNG: 250 kg/m²			PLM: 150 kg/m² S3D, S3X, CRN and CRNG: 250 kg/m²
Supply	1 mounting plate without fixing elements			1 mounting plate without fixing elements

For enclosures (mm)		Dimensions (mm)		References	References	References	Dimensions (mm)		No. of perforations in		References
Height	Width	H	W				H	W	H	W	
200	200	150	150	**NSYMM22**	-	-	-	-	-	-	-
	300	150	250	**NSYMM23**	-	-	-	-	-	-	-
250	200	200	150	**NSYMM2520**	-	-	-	-	-	-	-
	300	250	200	**NSYMM3025**			-	-			
	400	200	350	**NSYMM2540**	-	-	-	-	-	-	-
	500	200	450	**NSYMM2550**	-	-	-	-	-	-	-
300	200	250	150	**NSYMM32**	-	**NSYMF32**	255	153.7	16	5	**NSYMR32**
	250	250	200	**NSYMM3025***	-	-	253	228	16	8	**NSYMR3025**
	300	250	250	**NSYMM33**	-	**NSYMF33**	255	251	16	9	**NSYMR33**
	400	250	350	**NSYMM43***	**NSYMS43***	**NSYMF43***	255	351	18	11	**NSYMR34**
	450	250	400	**NSYMM3045**	-	-	-	-	-	-	-
	500	450	250	**NSYMM53***	-	-	-	-	-	-	-
	600	250	550	**NSYMM36**	-	-	-	-	-	-	-
400	300	230	350	**NSYMM43***	**NSYMS43**	**NSYMF43**	348.7	251	22	9	**NSYMR43**
	400	350	350	**NSYMM44**	**NSYMS44**	**NSYMF44**	345	351	24	11	**NSYMR44**
	600	350	550	**NSYMM64***	**NSYMS64***	-	345	551	24	19	**NSYMR46**
	800	350	750	**NSYMM48**	-	-	-	-	-	-	-
500	300	450	250	**NSYMM53***	**NSYMS53***	**NSYMF53**	453.7	251	29	9	**NSYMR53**
	400	450	350	**NSYMM54**	**NSYMS54**	**NSYMF54**	450	351	31	11	**NSYMR54**
	500	450	450	**NSYMM55***	**NSYMS55***	**NSYMF55**	450	451	31	14	**NSYMR55**
	600	550	450	**NSYMM65**	-	-	-	-	-	-	-
600	400	550	350	**NSYMM64**	**NSYMS64**	**NSYMF64***	555	351	38	11	**NSYMR64**
	500	550	450	**NSYMM65**	-	**NSYMF65**	555	451	38	14	**NSYMR65**
	600	550	550	**NSYMM66**	**NSYMS66**	**NSYMF66**	555	551	38	17	**NSYMR66**
	800	-	-	-	-	-	551	750	36	24	**NSYMR68**
	1000	-	-	-	-	-	-	-	-	-	-
	1200	-	-	-	-	-	-	-	-	-	-
700	500	650	450	**NSYMM75**	**NSYMS75**	**NSYMF75**	645	451	44	14	**NSYMR75**
	600	650	550	**NSYMM76**	-	-	645	551	44	17	**NSYMR76**
800	600	750	550	**NSYMM86***	**NSYMS86***	**NSYMF86***	750	551	51	17	**NSYMR86**
	800	750	750	**NSYMM88**	-	**NSYMF88**	750	751	51	24	**NSYMR88**
	1000	-	-	**NSYMM108**	-	**NSYMF108**	751	951	49	31	**NSYMR810**
	1200	-	-	**NSYMM128**	-	**NSYMF128**	-	-			2 x **NSYMR86**
1000	600	950	550	**NSYMM106**	-	**NSYMF106**	945	551	64	17	**NSYMR106**
	800	950	750	**NSYMM108***	-	**NSYMF108***	945	751	64	24	**NSYMR108**
	1000	950	950	**NSYMM1010**	-	**NSYMF1010**	945	951	62	31	**NSYMR1010**
	1200	-	-	-	-	-	951	1151	62	37	**NSYMR1012**
1200	600	1150	550	**NSYMM126**	-	**NSYMF126**	1145	551	75	17	**NSYMR126**
	800	1150	750	**NSYMM128***	-	**NSYMF128**	1145	751	75	24	**NSYMR128**
	1000	1150	950	**NSYMM1210***	-	**NSYMF1210***	1145	951	75	31	**NSYMR1210**
	1200	1150	1150	**NSYMM1212**	-	2 x **NSYMF126**	-	-	-	-	2 x **NSYMR126**
1400	1000	1350	950	**NSYMM1410**	-	-	1345	951	88	31	**NSYMR1410**

** Plate with reversible dimensions; it can be installed in enclosures with inverted dimensions.*
*Example: Plate ref. **NSYMM64** can be used for the following enclosures: H 600 x W 400 mm or H 400 x W 600 mm.*
*For plain and silkscreened mounting plates: In wall-mounting enclosures with widths of 1000 and 1200 mm, it is possible to install 2 mounting plates at different depths using an additional central step slide **NSYSDRSDCR•••** (more information on page 210).*

Mounting
Mounting plates for wall-mounting enclosures







Characteristics	Bakelite mounting plate**	Polyester mounting plate**	DIN-rail chassis
	■ They are coupled directly to the rear of the actual enclosure or to the sliding plate supports. ■ Double-door enclosures offer the option of installing two plates.		Components supplied with a DIN-rail chassis: ■ Aluminium uprights. ■ DIN rails (symmetric section A or B, according to the reference). ■ Screws, washers and nuts need to mount the DIN rails to the uprights. ■ Batch of 4 adapters, ref. **NSYAMCSF**, needed to fix the uprights to the enclosure.
Material	Bakelite	Polyester reinforced with fibreglass	Aluminum and zinc-coated steel
Colour	RAL 9005 black	RAL 7035 grey	-
Maximum load	100 kg/m²	150 kg/m²	-
Supply	1 mounting plate without fixing elements	1 mounting plate and fixing elements	1 DIN-rail chassis

For enclosures (mm)		Dimensions (mm)		Thick. (mm)	References	Dimensions (mm)		Thick. (mm)	References	Type of rails	No. of rails	References
Height	Width	H (P)	W (S)			H (P)	W (S)					
300	200	265	150	4	**NSYMB32**	265	150	4	**NSYMPP32**	-	-	-
	250	265	200	4	**NSYMB3025**	265	200	4	**NSYMPP3025**	-	-	-
	300	265	250	4	**NSYMB33**	-	-	-	-	B	4	**NSYMD33**
400	300	325	250	4	**NSYMB43**	325	250	4	**NSYMPP43**	B	4	**NSYMD43**
500	400	465	350	4	**NSYMB54**	465	350	4	**NSYMPP54**	B	4	**NSYMD54**
600	400	565	350	4	**NSYMB64**	565	350	4	**NSYMPP64**	B	6	**NSYMD64**
	500	565	450	4	**NSYMB65**	-	-	-	-	-	-	-
	600	-	-	-	-	-	-	-	-	A	6	**NSYMD66**
700	500	665	450	4	**NSYMB75**	665	450	4	**NSYMPP75**	B	6	**NSYMD75**
800	600	765	550	4	**NSYMB86**	765	550	5	**NSYMPP86**	A	6	**NSYMD86**
	1000	-	-	-	**NSYMB108**	-	-	-	-	-	-	-
	1200	-	-	-	2 x **NSYMB86**	-	-	-	-	-	-	2 x **NSYMD86**
1000	600	965	550	4	**NSYMB106**	-	-	-	-	-	-	-
	800	965	750	4	**NSYMB108**	965	750	5	**NSYMPP108**	A	6	**NSYMD108**
1200	800	-	-	-	-	-	-	-	-	A	7	**NSYMD128**
	1000	1150	950	4	**NSYMB1210**	-	-	-	-	-	-	-

*** To install two mounting plates in a single enclosure, also order reference **NSYCRNGSDR**. See details on page 210.*
*To install the plate in an enclosure with 6 studs, also order reference **NSYEMR**.*



Characteristics	Joinable Telequick mounting plate
	20/10[e] mm Telequick mounting plates. These mounting plates are suitable for mounting vertically multiple plates. 11 x 26 mm slots. Switchgear fixing by clip-on nuts.
Material	Zinc-coated steel
Supply	1 mounting plate and fixing elements

For enclosures (mm)		Dimensions (mm)		References
Height	Width	H	W	
60	700	120	734	**AM1PA0670**
120	700	180	734	**AM1PA1270**
300	150	349	228	**AM1PA3015**
	195	349	258	**AM1PA3020**
	500	360	534	**AM1PA3050**
	700	360	734	**AM1PA3070**
405	300	465	334	**AM1PA4030**
600	400	660	434	**AM1PA6040**
	500	660	534	**AM1PA6050**
	600	660	634	**AM1PA6060**
	700	660	734	**AM1PA6070**
705	500	765	534	**AM1PA7050**
795	600	855	634	**AM1PA8060**
900	500	960	534	**AM1PA9050**
	600	960	634	**AM1PA9060**
	700	960	734	**AM1PA9070**

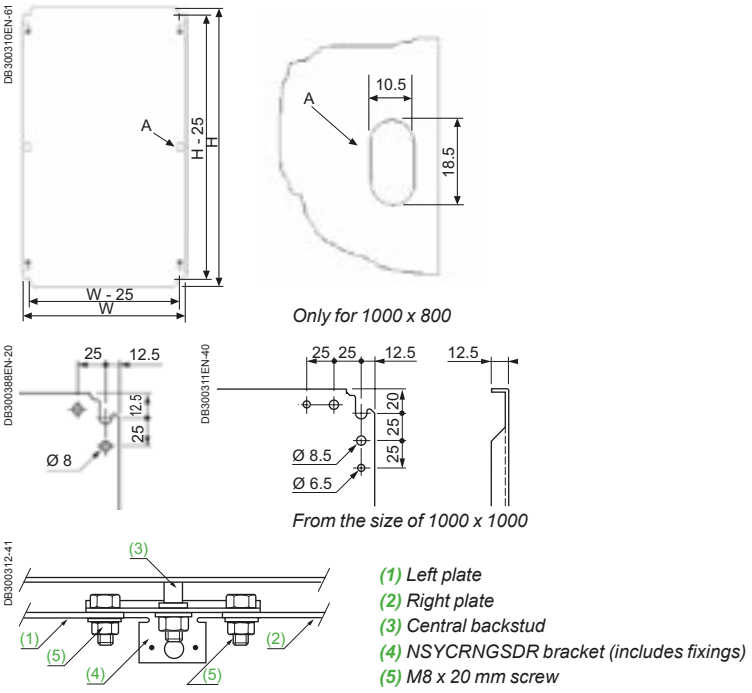
Mounting

Mounting plates for wall-mounting enclosures

S3D S3X PLM

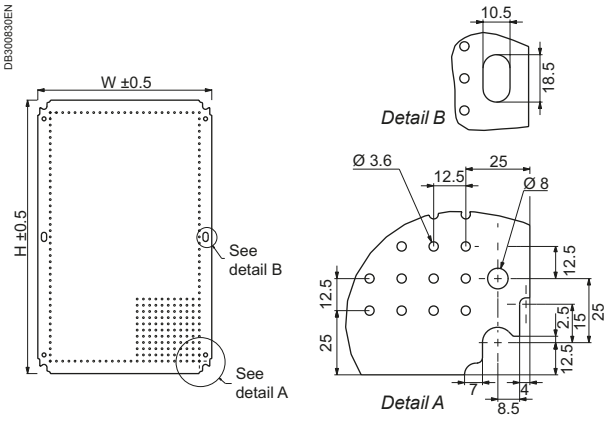
Dimensions

Plain and silkscreened mounting plates

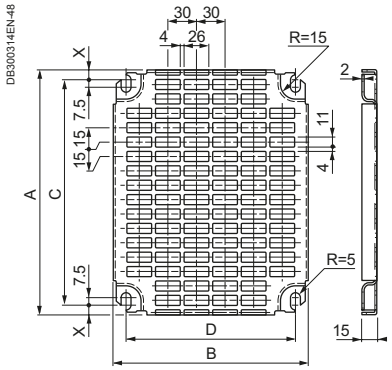


(1) *Left plate*
(2) *Right plate*
(3) *Central backstud*
(4) *NSYCRNGSDR bracket (includes fixings)*
(5) *M8 x 20 mm screw*

Microperforated mounting plate



Telequick mounting plate



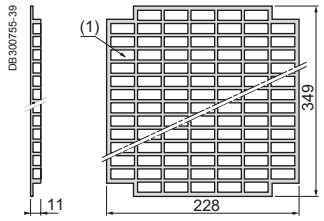
Mounting
Mounting plates for wall-mounting enclosures

S3D S3X PLM

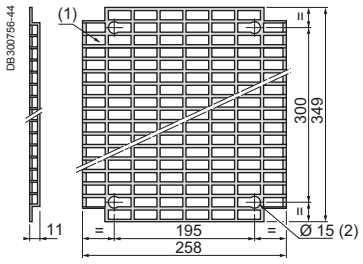
Dimensions

Joinable Telequick mounting plate

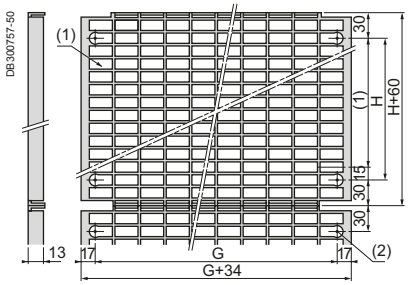
AM1-PA3015



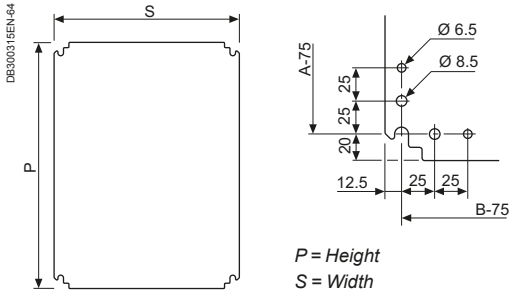
AM1-PA3020



All others

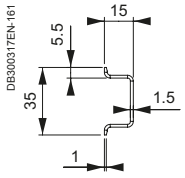


Bakelite and polyester mounting plate

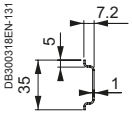


P = Height
S = Width

DIN-rail chassis



Type A



Type B

Mounting plate accessories





Characteristics	Elevator for microperforated mounting plate	Clip-on nuts for Telequick mounting plate	
	Mounting plate elevator to mount the Microperforated mounting plate at the same level as the other Telequick system components.	Used to easily fix devises in the Telequick mounting plate with the possibility of changing the lay-out as much as needed.	
Supply	4 units	100 units. Reference by unit. Order by multiples of 100 (100, 200, 300...)	
	Reference	**Model**	**References**
	AZ1CA04	M3	**AF1EA3**
		M4	**AF1EA4**
		M5	**AF1EA5**
		M6	**AF1EA6**

Mounting
Step slides for wall-mounting enclosures

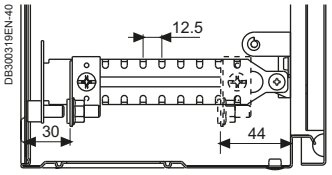
S3D S3X



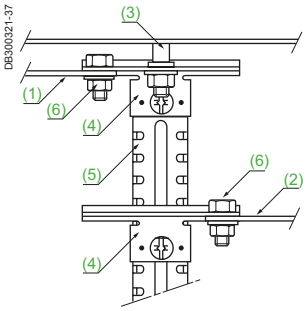




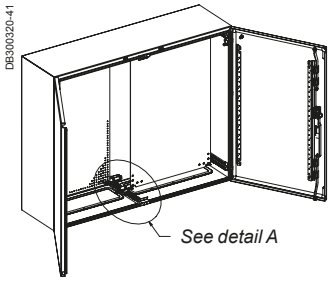
Characteristics	Step slides for mounting plate	Step slides for 2 mounting plates in one enclosure	Slide bracket for 2 mounting plates at different depths
	Set of 4 supports intended for installation in enclosures with depths of 200, 250, 300 and 400 mm. The rail allows the depth of the plate and other accessories to be adjusted in steps of 12.5 mm.	In 1000 and 1200 mm wall-mounting enclosures, it is possible to install 2 mounting plates side by side, using the additional central step slides.	Additional slide bracket to be installed on the central step slides in order to mount 2 mounting plates, side by side, in different depths.
Supply	4 step slides	2 step slides	2 slide brackets
For enclosure	**References**		
Depth (mm)			
200	**NSYSDCR200**	-	**NSYCRNGSDR**
250	**NSYSDCR250**	-	
300	**NSYSDCR300**	**NSYSDRSDCR300***	
400	**NSYSDCR400**	**NSYSDRSDCR400***	

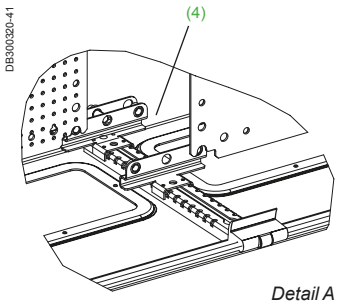






(1) Left plate
(2) Right plate
(3) Central backstud
(4) NSYCRNGSDR bracket (includes fixings)
(5) NSYSDRSDCR slide bracket
(6) M8 x 20 mm screw





Detail A

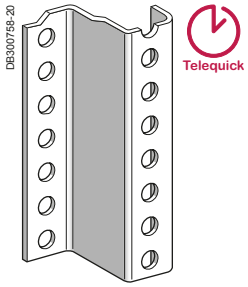
** Not applicable for stainless steel enclosures.*

Mounting
Vertical rails for wall-mounting enclosures

S3D S3X PLM PLA



S3D S3X PLM



Characteristics	Aluminium vertical rails			20/10[e] mm zinc-coated pre-drilled uprights	
	Fixing in the enclosure with M8 nuts, ref. **NSYAMCSF** (batch of 4 adapters to be ordered separately).			Ø 11 mm holes enable to adjust the rows of equipment by 20 mm steps.	
Supply	-			4 units	
Height (a) (mm)	**Material**	**Supply (units)**	**References**	**Weight (g)**	**References**
300	Aluminium	10	**NSYMDVR3**	-	-
400	Aluminium	10	**NSYMDVR4**	-	-
500	Aluminium	10	**NSYMDVR5**	-	-
600	Aluminium	10	**NSYMDVR6**	-	-
700	Aluminium	10	**NSYMDVR7**	-	-
800	Aluminium	10	**NSYMDVR8**	-	-
1000	Aluminium	10	**NSYMDVR10**	-	-
1020	-	-	-	2330	**DZ6MZ121**
1200	Steel	2	**NSYMDVR12**	-	-
1320	-	-	-	2920	**DZ6MZ151**
1620	-	-	-	3375	**DZ6MZ181**
1920	-	-	-	4000	**DZ6MZ211**
3000 (3 m)	Aluminium	10	**NSYMDVR3M**	-	-

Sliding Nuts



Sliding nuts to be used on aluminium vertical rails.

Type	Supply (units)	References
M4	100	**NSYNM4**
M5	100	**NSYNM5**
M6	100	**NSYNM6**

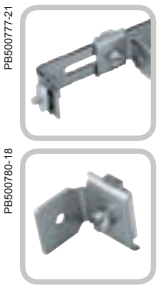
Brass nuts to fix the upright to the enclosures



Supply: 4.

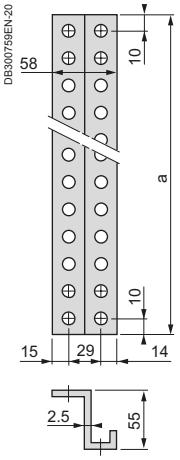
Reference
NSYAMCSF

Slides and brackets

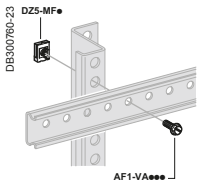


They allow the depth of the plates and rails to be adjusted.
Supply: 10 units. References per unit.
To be ordered in multiples of 10 (10, 20, 30, etc.).

Type	References
90-mm slide with bracket for enclosures with depths of 150 and 200 mm	**NSYSB90**
130-mm slide with bracket for enclosures with depths of 250 and 300 mm	**NSYSB130**
Bracket for slides (customised mounting plate)	**NSYFB**

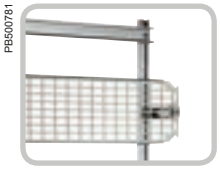


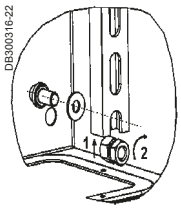
Notched clamp nuts



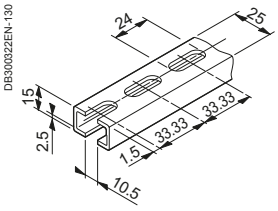
Specially designed for pre-drilled uprights.
Supply: 100 units. Reference by unit. Order by multiples of 100 (100, 200, 300...).

Type	Weight (g)	References
M6	7.0	**DZ5MF6**
M8	8.0	**DZ5MF8**



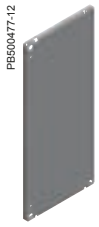


Ref. ***NSYAMCSF***

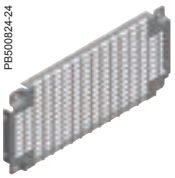


Mounting

Mounting plates for floor-standing enclosures



SM SF SMX SFX



Telequick

SM SF SD SMX SFX SDX



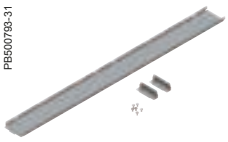
Telequick

SM SF SFX

Characteristics	Plain mounting plate		Perforated mounting plate Telequick						Partial mounting plate		
	■ Depth adjustable with a pitch of 25 mm, provided with plastic shoe for easier sliding. ■ Once the plate is fixed, in advanced position, the sliding shoe can be easily removed, to increase the available plate surface. ■ In sets made up of two or more enclosures with mounting plates, it is possible to obtain a continuous plate surface using intermediate mounting plates (see page 213). ■ Load: 300 kg/ m²		■ Allows the installation of switchgear without drilling or screwing. ■ Plate designed for quick fixing of switchgear by means of clip-on nuts ref. **AF1EA3** to **AF1EA6**. ■ Vertical continuity is guaranteed by the vertical installation of plates. ■ The top plate must be fixed in the third hole, 80 mm from the top frame. ■ Load: 150 kg/m²						■ Partial mounting plate, provided with reinforcement flange on its four sides. ■ Load: 250 kg/m²		
Material	Galvanised steel		Zinc-coated steel						Galvanised steel		
Fixing	Fixing options: ■ At the sides of the enclosure with the orthogonal brackets (see page 215) ■ Back-to-back, with the brackets for fixing the mounting plates in back-to-back position (see page 216)		Fixing options: ■ Directly to the vertical uprights of the structure, by means of self-tapping screws (only Spacial SF) ■ To the technical vertical uprights, by means of sliding nuts, page 219; to standard uprights by means of flat nuts, page 219 or self-tapping screws, and to cross rails						Fixing options: ■ **Spacial SF, SFX:** □ Fixing to the vertical uprights of the structure □ Fixing to the technical or standard vertical uprights, see page 219 □ For installations in advanced position, fixing to cross-rails, see page 223 ■ **Spacial SM:** □ Fixing by means of adaptation profiles and 40-mm universal cross-rails (1 row) in vertical position, or also on horizontal universal cross-rails □ It can be mounted horizontally, as a tray, by means of depthwise cross rails, see page 223		
Maximum load	600 kg in the back of the enclosure and 500 kg in the intermediate position		-						-		
Supply	One mounting plate and sliding shoes		One perforated mounting plate and fixing elements for technical uprights and screws for fixing to the structure or cross rails						Partial mounting plate and fixing elements		
Dimensions (mm)	**Dimensions (mm)**	**References**	**Plate height (mm)**				**Useful surface (dm²)**	**References**	**Plate height (mm)**	**Plate length (mm)**	**References**
Width (B)	**Height (A)**		**D**	**E**	**F**	**G**			**H**	**B-100**	
400	1200	**NSYMP124**	-						247	300	**NSYSPMP2540**
New	1400	**NSYMP144**							397	300	**NSYSPMP4040**
	1600	**NSYMP164**							597	300	**NSYSPMP6040**
	1800	**NSYMP184**									
	2000	**NSYMP204**									
	2200	**NSYMP224**									
600	1200	**NSYMP126**	450	200	-	100	11.4	**NSYSTMP2260**	247	500	**NSYSPMP2560**
	1400	**NSYMP146**	450	425	-	325	22.8	**NSYSTMP4560**	247	750	**NSYSPMP2575**
	1600	**NSYMP166**	450	575	125	475	30.4	**NSYSTMP6060**	397	500	**NSYSPMP4060**
	1800	**NSYMP186**	450	800	250	700	11.9	**NSYSTMP8260**	597	500	**NSYSPMP6060**
	2000	**NSYMP206**									
	2200	**NSYMP226**									
800	1200	**NSYMP128**	650	200	-	100	15.9	**NSYSTMP2280**	247	700	**NSYSPMP2580**
	1400	**NSYMP148**	650	425	-	325	31.8	**NSYSTMP4580**	397	700	**NSYSPMP4080**
	1600	**NSYMP168**	650	575	125	475	42.4	**NSYSTMP6080**	597	700	**NSYSPMP6080**
	1800	**NSYMP188**	650	800	250	700	58.4	**NSYSTMP8280**			
	2000	**NSYMP208**									
	2200	**NSYMP228**									
1000	1200	**NSYMP1210**	850	200	-	100	20.4	**NSYSTMP22100**	247	900	**NSYSPMP25100**
	1400	**NSYMP1410**	850	425	-	325	40.8	**NSYSTMP45100**	397	900	**NSYSPMP40100**
	1600	**NSYMP1610**	850	575	125	475	54.4	**NSYSTMP60100**	597	900	**NSYSPMP60100**
	1800	**NSYMP1810**	850	800	250	700	74.9	**NSYSTMP82100**			
	2000	**NSYMP2010**									
	2200	**NSYMP2210**									
1200	1200	**NSYMP1212**	1050	200	-	100	24.9	**NSYSTMP22120**	247	1100	**NSYSPMP25120**
	1400	**NSYMP1412**	1050	425	-	325	49.9	**NSYSTMP45120**	397	1100	**NSYSPMP40120**
	1600	**NSYMP1612**	1050	575	125	475	66.5	**NSYSTMP60120**	597	1100	**NSYSPMP60120**
	1800	**NSYMP1812**	1050	800	250	700	91.5	**NSYSTMP82120**			
	2000	**NSYMP2012**									
	2200	**NSYMP2212**									
1600	1800	**NSYMP1816**	Order two 800-mm plates						397	1100	**NSYSPMP40160**
	2000	**NSYMP2016**									

Mounting
Mounting plates for floor-standing enclosures

SF SFX

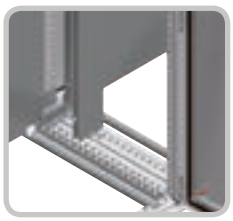

PB500789-31

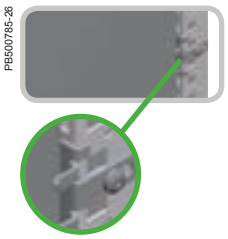

PB500784-24

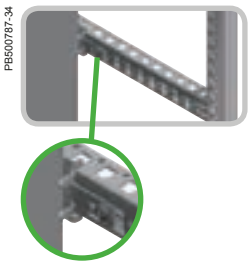

PB500786-22


PB500788-29

Characteristics	Intermediate mounting plate	Intermediate fixing of the mounting plate, located in the back of the enclosure	Intermediate fixing of the mounting plate, in advanced position	Reinforcement for mounting plate
	■ Obtains a continuous surface of the mounting plate at enclosure suites. ■ Adjustable depth with a pitch of 25 mm. When the mounting plates are located in the back of the enclosure, the vertical profiles of the structure are flush with the plates, acting as an intermediate mounting plate. In this case the intermediate plate cannot be installed.	■ Support for additional fixing of the mounting plate, at any height of the plate, when the plate is mounted in the back of the enclosure. ■ The supports minimise the vibration of the plate during the transport and operation of the panel.	■ Support for additional fixing of the mounting plate, at any height of the plate, when the plate is mounted in advanced position. ■ The supports minimise the vibration of the plate during the transport and operation of the panel.	■ Reinforcement kit for transversal mounting plate. ■ Provides extra rigidity to the mounting plates and absorbs vibrations. ■ Can be used as a reinforcement to give more robustness.
Material	Galvanised steel	Zinc-coated steel	Zinc-coated steel	Zinc-coated steel
Thickness	-	-	-	15/10[e] mm
Fixing	-	■ The supports are fixed to the structure when the plate is already located in the back of the enclosure ■ **Spacial SM:** fixing to 40-mm universal cross rails (1 row), installed vertically in the back of the enclosure, see page 223	The supports are mounted on light cross rails or on 40-mm (1 row) universal or quick-fixing cross rails (not supplied), see page 223	-
Supply	One intermediate plate and fixing elements	Ten units and fixing elements. Reference by unit. Order by multiples of 10 (10, 20, 30…)	Ten units and fixing elements. Reference by unit. Order by multiples of 10 (10, 20, 30…)	Two profiles, four supports for fixing to the mounting plate and fixing elements
Dimensions (mm)	**References**			
Height (A) / **Width (B)**				
1200 / -	**NSYSIMP12**	**NSYSMPFB**	**NSYSMPFA**	-
1400 / -	**NSYSIMP14**			-
1600 / -	**NSYSIMP16**			-
1800 / -	**NSYSIMP18**			-
2000 / -	**NSYSIMP20**			-
2200 / -	**NSYSIMP22**			-
- / 800	-			**NSYMPRK8**
- / 1000	-			**NSYMPRK10**
- / 1200	-			**NSYMPRK12**
- / 1600	-			**NSYMPRK16**


PB500794-33


PB500785-26


PB500787-34

Mounting plate accessories

Self-tapping screw


PB500808

■ Hexagonal head, 4.8 x 16 mm thread. Drilling capacity: thicknesses between 17.5/10[e] and 40/10[e] mm.
■ **Supply:** 100 units. To be ordered in multiples of 100 (100, 200, 300, etc.).

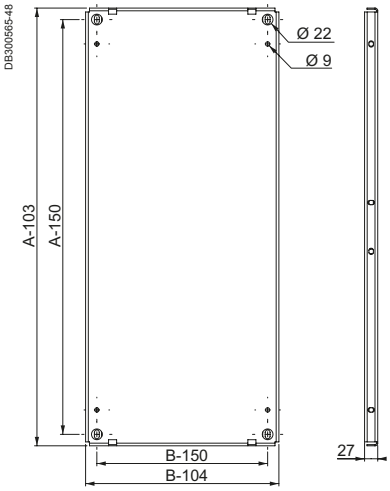
Reference
NSYS16M5HS

Mounting

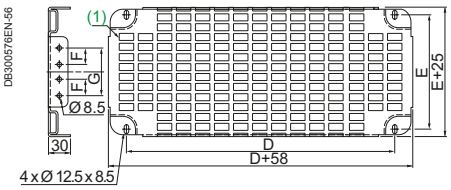
Mounting plates for floor-standing enclosures

Dimensions

Plain mounting plate



Perforated mounting plate Telequick

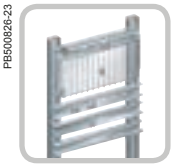


(1) Cut-outs 11 x 26 with a pitch of 15 x 30.

Examples of perforated mounting plate installation



Perforated plate mounted on structure.



Perforated plate mounted on technical vertical uprights.

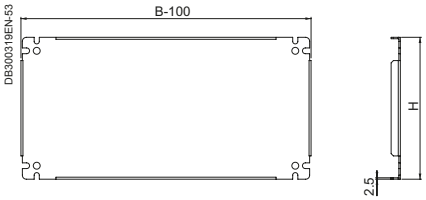


Perforated plate mounted on standard vertical uprights.

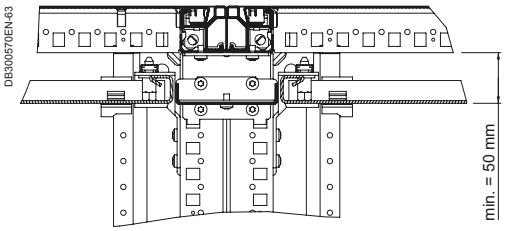


Perforated plate mounted on cross rails.

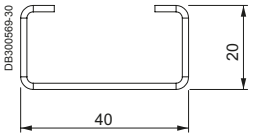
Partial mounting plate



Intermediate mounting plate



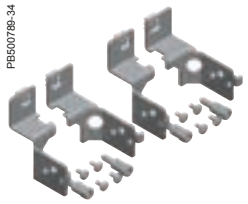
Reinforcement for mounting plate



Mounting

Mounting plate brackets for floor-standing enclosures

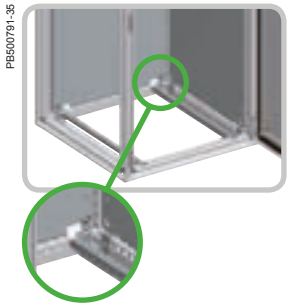
SM SF SMX SFX



SF SFX



Characteristics	Mounting plate fixing brackets		Orthogonal brackets
	■ For direct mounting on the structure of the enclosure. ■ Adjustable depth with a pitch of 25 mm.		■ Designed for the installation of mounting plates on the sides of the enclosure. ■ In the event of installing one plate in the back of the enclosure and one plate at the side, they must both be installed using orthogonal brackets. ■ **Spacial SFX:** in order to mount the lateral mounting plate is necessary to remove the one on the back and its fixing brackets.
Material	Zinc-coated steel		Zinc-coated steel
Maximum load	4 brackets: 600 kg		4 brackets: 600 kg
Supply	Four brackets and fixing elements		Four brackets and fixing elements
References			
	Spacial SF	**Spacial SM, Spacial SFX, Spacial SMX**	
	NSYSFPB	**NSYSMPB**	**NSYSMPSB**



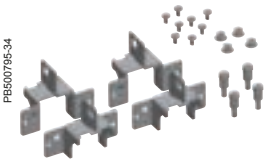
Mounting

Mounting plate brackets for floor-standing enclosures

SF



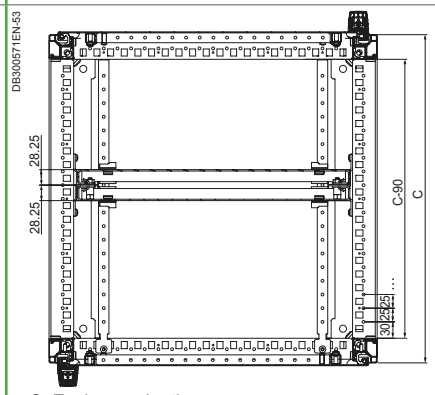
SF



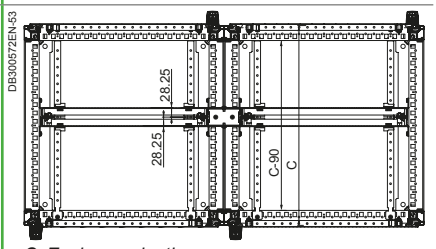
SF SFX



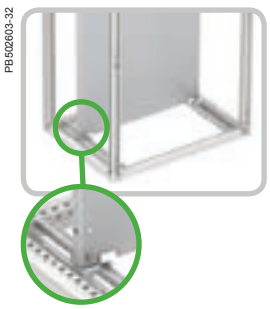
Characteristics	Mounting plate sliding rails		Brackets for fixing mounting plates in back-to-back position	Brackets for fixing intermediate mounting plates in back-to-back position
	■ Rails which the mounting plate slides along when inserted in the enclosure. ■ Once the mounting plate is installed and fixed to the brackets, the sliding rails can be removed to maximise the cable passage surface, and can be installed depthwise in other positions.		■ Doubling the mounting surface. ■ Adjustable with a pitch of 25 mm.	■ Doubling the mounting surface. ■ Adjustable with a pitch of 25 mm.
Material	Zinc-coated steel		Zinc-coated steel	Zinc-coated steel
Supply	Two rails and fixing elements		Four brackets for fixing back-to-back and fixing elements	2 brackets for fixing intermediate plates back-to-back and fixing elements
References				
	Depth (mm)			
	400	**NSYSMPS4**	**NSYSBTB**	**NSYSIBTB**
	500	**NSYSMPS5**		
	600	**NSYSMPS6**		
	800	**NSYSMPS8**		

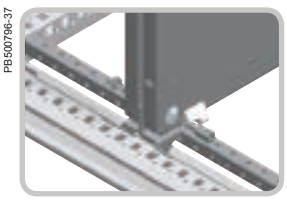


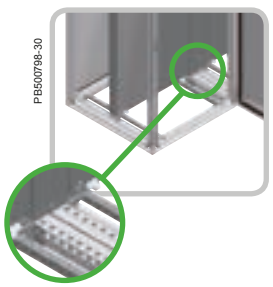
C: Enclosure depth.



C: Enclosure depth.



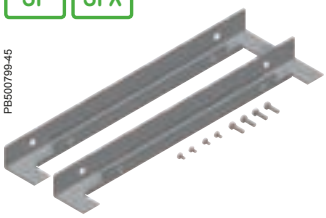




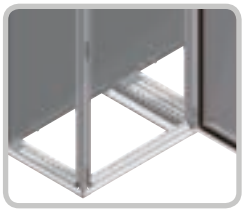
Mounting
Mounting rails for floor-standing enclosures

New

SF SFX


PB500799-45

Characteristics	Side entry rails for mounting plates
	■ Side entry device for the mounting plates when coupling **Spacial SF** enclosures or **Spacial SFX**. ■ The mounting plates can be coupled with one another, and are fixed to the side entry guide by pressure.
Material	Zinc-coated steel
Supply	Two rails (top and bottom) and fixing elements
Dimensions (mm)	**References**
Width (B)	
600	**NSYSMPSE6**
800	**NSYSMPSE8**
1000	**NSYSMPSE10**
1200	**NSYSMPSE12**


PB500800-36

Extra large mounting plate

New

Characteristics		Extra large mounting plates
		■ Mounting plates for the side entry device when coupling **Spacial SF** enclosures or **Spacial SFX**. ■ Mounting plates can be coupled with one another, and are fixed to the side entry guide by pressure.
Material		Galvanised steel
Supply		One mounting plate and fixing elements
Dimensions (mm)		**References**
Height	**Width**	
1800	600	**NSYMP186L**
	800	**NSYMP188L**
	1000	**NSYMP1810L**
	1200	**NSYMP1812L**
2000	600	**NSYMP206L**
	800	**NSYMP208L**
	1000	**NSYMP2010L**
	1200	**NSYMP2012L**
2200	600	**NSYMP226L**
	800	**NSYMP228L**
	1000	**NSYMP2210L**
	1200	**NSYMP2212L**

Mounting plates

New

Characteristics	Mounting plates 400	Partial mounting plates 400
	■ Mounting plates for the side entry device when coupling **Spacial SF** enclosures or **Spacial SFX**. ■ Solution for enclosures of width and depth of 400.	
Material	Galvanised steel	
Supply	One mounting plate and fixing elements	
Dimensions (mm)	**References**	
Height		
250	-	**NSYSPMP2540**
400	-	**NSYSPMP4040**
600	-	**NSYSPMP6040**
1200	**NSYMP124**	-
1400	**NSYMP144**	-
1600	**NSYMP164**	-
1800	**NSYMP184**	-
2000	**NSYMP204**	-
2200	**NSYMP224**	-

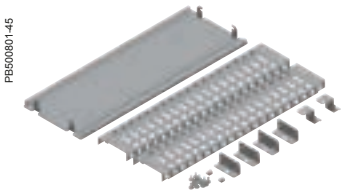
Mounting

Mounting rails for floor-standing enclosures

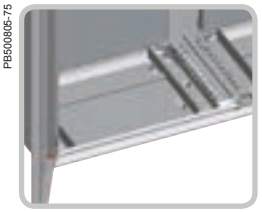
SM



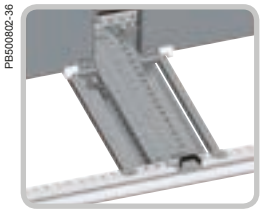
SF

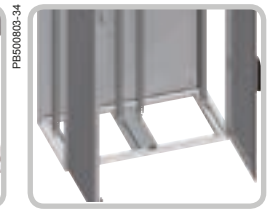


Characteristics	Top/bottom adjustment rails	Kit for adapting two-door enclosures
	■ Allows the installation of two mounting plates or vertical uprights in enclosures with a width of 1200 mm, as if in two independent enclosures. ■ A set of mounting plate fixing brackets ref. **NSYSMPB** is required for this. ■ Optional installation of an intermediate mounting plate.	■ Allows the installation of two mounting plates as if in two independent enclosures. ■ A set of brackets for fixing mounting plates ref. **NSYSMPB** is required for this. ■ Option of installing an intermediate mounting plate. ■ Valid for enclosures with widths of 1200 and 1600 mm. ■ In the event of installing a cable-gland plate for a width of 1200 mm, it is necessary to install two with a width of 600 mm, and for widths of 1600 mm, two with a width of 800 mm.
Material	Galvanised steel	Galvanised steel
Supply	2 rails, top and bottom, and fixing elements	Two 90 mm cross rails, cable-gland plate support, 2 brackets for central fixing of the roof and fixing elements
Dimensions (mm)	**References**	
Depth (C)		
300	**NSYSTBR3**	-
400	**NSYSTBR4**	**NSYSMP2D4**
500	**NSYSTBR5**	**NSYSMP2D5**
600	**NSYSTBR6**	**NSYSMP2D6**
800	-	**NSYSMP2D8**









Examples of combination

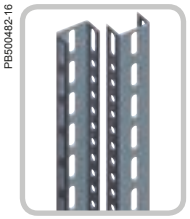
Length of joined Spacial SF enclosures (mm)	Example of Spacial SF enclosure combination width (mm) (B)	Exmaple of combined mounting plates by width (mm)	Useful length (mm)
1200	1200	600 + 800	1192
1400	600 + 800	600 + 1000	1392
1600	2 x 800	800 + 1000	1592
1800	3 x 600	800 + 1200	1792
2000	2 x 1000	1000 + 1200	1992
2200	600 + 2 x 800	1200 + 1200	2192
2400	3 x 800	1600 + 1000	2392
		3 x 600 + 1000	2384
2600	2 x 1000 + 600	1600 + 1200	2592
		3 x 600 + 1200	2584
2800	2 x 1000 + 800	4 x 800	2784
3000	3 x 1000	3 x 800 + 1000	2984
3200	2 x 1000 + 1200	3 x 800 + 1200	3184
3400	3 x 800 + 1000	800 + 3 x 1000	3384
3600	3 x 1200	4 x 1000	3584
3800	800 + 3 x 1000	600 + 3 x 1200	3784
4000	4 x 1000	800 + 3 x 1200	3984

Mounting
Uprights for floor-standing enclosures



Telequick

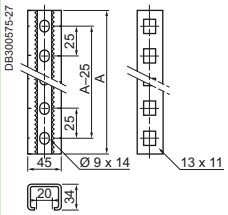
SM | SF | SD | SMX | SFX | SDX | PLA | PHD

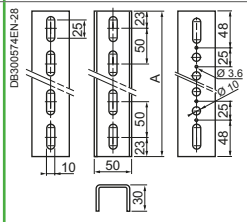


Telequick

SM | SF | SMX | SFX

Characteristics	Technical uprights		Standard uprights	
	■ Vertical uprights for fixing plates and rails. ■ They can be fixed to the fixing brackets of the mounting plate or to the uprightfixing bracket (ref. **NSYMFB**). ■ Adjustable height in steps of 2.5 mm (with quarter-turn nuts, ref. **NSYSNM6** or **NSYSNM8**) or 25 mm (with cage nuts, ref. **NSYCNM6** or **NSYCNM8**).		■ Vertical uprights for fixing plates and rails. ■ They can be fixed on the mounting plate fixing brackets or on the upright fixing bracket, ref. **NSYMFB**. ■ Adjustable height with a pitch of 25 or 50 mm.	
Material	Galvanised steel		Galvanised steel	
Thickness	20/10e mm		20/10e mm	
Supply	Set of 2 uprights		Set of 2 uprights	
Enclosure dimensions (mm)	**Dimensions (mm)**	**References**	**Dimensions (mm)**	**References**
Height	**A**		**A**	
750	625	**NSYTVR7**	-	-
1000*	675	**NSYTVR8**	-	-
1000	875	**NSYTVR10**	-	-
1200	1075	**NSYTVR12**	-	-
1250	1125	**NSYTVR125**	-	-
1400	1275	**NSYTVR14**	-	-
1500	1375	**NSYTVR15**	-	-
1600	1475	**NSYTVR16**	-	-
1800	1675	**NSYTVR18**	1696	**NSYVR18**
2000	1875	**NSYTVR20****	1896	**NSYVR20**
2200	2075	**NSYTVR22**	2096	**NSYVR22**





Nuts and screws for technical uprights



Model	Supply (units)	References
M6 quarter-turn sliding nut (1)	10	**NSYSNM6**
M8 quarter-turn sliding nut (1)	10	**NSYSNM8**
M6 quarter-turn serrated sliding nut (2)	10	**NSYSNSM6**
M8 quarter-turn serrated sliding nut (2)	10	**NSYSNSM8**
M6 renovable nut (3)	50	**NSYCNM6**
M8 renovable nut (3)	50	**NSYCNM8**
M6 x 12 screw	100	**AF1VA612**
M6 x 18 screw	100	**AF1VA618**
M8 x 20 screw	100	**AF1VC820**

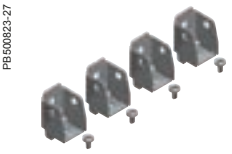
Nuts and screws for standard uprights



Model	Supply (units)	References
M6 flat nut	50	**NSYFNM6**
M8 flat nut	50	**NSYFNM8**
M6 x 12 screw	100	**AF1VA612**
M6 x 18 screw	100	**AF1VA618**
M8 x 20 screw	100	**AF1VC820**

** Control desk.*
*** Not compatible with PLA or PHD 2000 mm high enclosures. Use 2 x NSYTVR10.*

Bracket for fixing uprights



■ Brackets for fixing the uprights, standard or technical, at the same level as the structure, obtaining a greater working surface inside the enclosure.
■ They allow two pairs of uprights to be fixed back to back, doubling the working surface.
■ The brackets are fixed to the structure by means of M6 self-tapping screws.
■ Adjustable depth with a pitch of 25 mm.
■ **Material:** zinc-coated steel.
■ **Supply:** four brackets for fixing uprights and fixing elements.

Reference
NSYMFB

Mounting
Other support brackets

Telequick SM SF SD SMX SFX SDX





Telequick

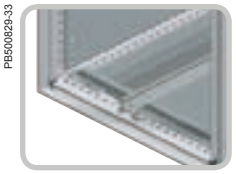


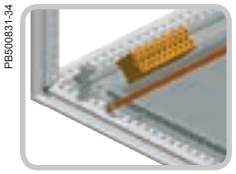
Telequick

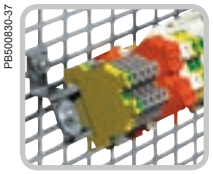




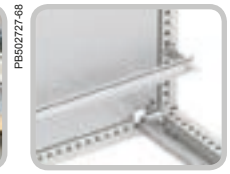
Characteristics	Rail support bracket	Combined support bracket	Terminal-block support bracket	Combined fixing lugs for the earthing strip	Combined support bracket (vertical)
	Bracket for fixing rails at an angle of 45°.	Allow the installation of a DIN rail and an earthing strip on different planes, to minimise the cable radiuses.	■ They allow the mounting of a DIN rail. ■ Tilted to 45°.	■ They allow the mounting of an earth-collector rail and a DIN rail. ■ Tilted to 30°. ■ Earthing strip, ref. **NSYECB1M153**. See page 277.	Allow the installation of a DIN rail and an earthing strip on different planes, to minimise the cable radiuses.
Material	Zinc-coated steel	Zinc-coated steel	Treated steel	-	Zinc-coated steel
Installation	■ **Spacial SF:** mounted on the structure and/or mounting plates ■ **Spacial SM:** mounted on the bottom mounting rail and/or mounting plates	■ **Spacial SF:** directly on the structure and/or using mounting plates ■ **Spacial SM:** on the bottom adjustment rails and/or on mounting plates	-	To be fixed on mounting plate.	**Spacial SF/SM:** directly on the vertical structure and/or using mounting plates
Supply	Ten units and fixing elements. Reference by unit. Order by multiples of 10 (10, 20, 30...)	Ten combined support brackets and fixing elements. Reference by unit. Order by multiples of 10 (10, 20, 30...)	2 lugs and fixings	2 fixing lugs and fixing elements	10 brackets
References					
	NSYFB45	**NSYETF**	**NSYEDCO**	**NSYEDCOC**	**DZ5MS10**







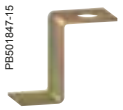




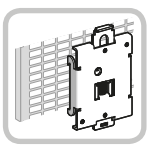
Telequick

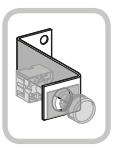


Telequick



Characteristics	Clicked support plate		Bracket for fixing control units (Ø 22)
	For screw mounted equipment. For mounting on 35 mm symmetric and double profile DIN rails or Telequick mounting plate.		To mount any 22 mm diameter device directly on mounting plates.
Material	Zinc-plate coated		-
Installation	-		-
Supply	Ten units and fixing elements. Reference by unit. Order by multiples of 10 (10, 20, 30...)		Ten units and fixing elements. Reference by unit. Order by multiples of 10 (10, 20, 30...)
References	**A (mm)**		
	44 x 65 - 9 screws	**AX2DL01**	**DX1AP52**
	49 x 65 - 4 screws	**AX2DL02**	



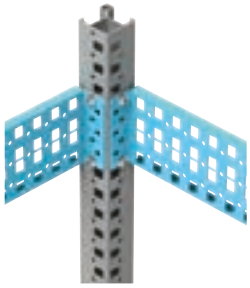


Mounting
Cross rails for floor-standing enclosures overview

Telequick SM SF SD SMX SFX SDX

New

PB503463-41



PB503464-44



Integrated cross-rails enable 30mm space saving

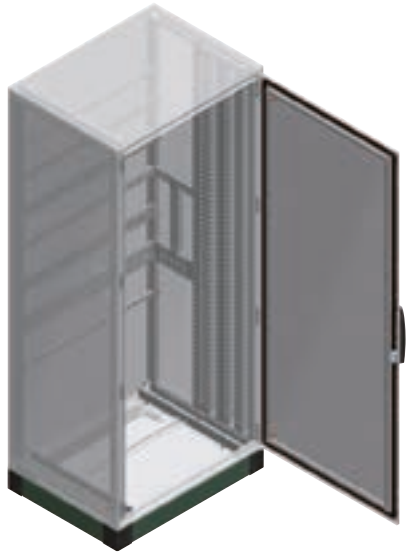
In the **Spacial SF**, **SM**, **SFX** and **SMX** enclosures, it is possible to create a fixing at any point of the inner volume, providing mounting planes with different widths, heights and depths.
In the case of the **Spacial SM**, it may be necessary to install vertical/horizontal adaptation profiles and 40-mm universal cross rails (1 row).

Four types of cross-rails are available to create fixing points:
- Universal cross-rails (page 223);
- Quick-fixing cross-rails (page 223);
- Integrated cross-rails (page 224) New;
- light cross-rails (page 225).

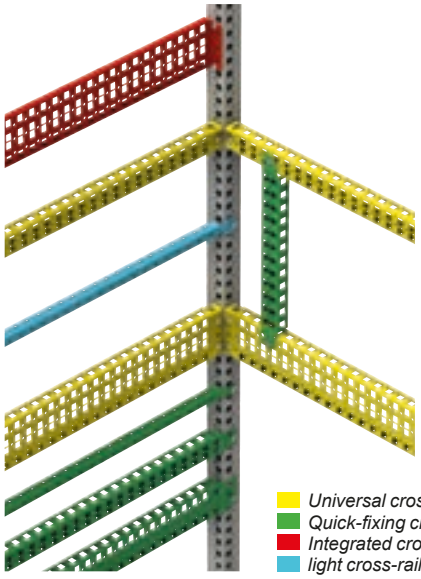
Universal, quick-fixing and integrated cross-rails are available in 3 sizes: 40 mm (1 row), 65 mm (2 rows) et 90 mm (3 rows).

Cross-rails for specific applications are also available:
- Cross-rails for heavy loads (page 226) to be fixed on the bottom part of of the enclosure or to be associated with a "heavy load kit" (page 229) to be used at any height in the enclosure,
- Cross-rails fo Lütze chassis (page 226).

PB500465-55



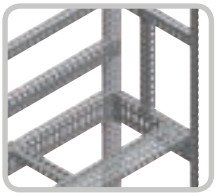
PB503465-83



Universal cross-rails
Quick-fixing cross-rails
Integrated cross-rails
light cross-rails

Combination examples

PB500486-29



Spacial SF and SFX: the cross rails can be fixed to the structure and among each other, offering multiple possibilities.

PB500835-27



Universal cross-rails and integrated cross-rails can be simultaneously mounted at the same height, on all the sides of the enclosure.
To perform this type of installation in a **Spacial SM** enclosure, the vertical adaptation profile and the vertical 40-mm universal cross rail (1 row) are required, mounted in the back of the enclosure.

PB500837-27



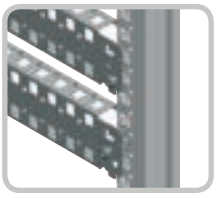
Spacial SF: universal cross-rails and integrated cross-rails can be mounted in vertical position.

Mounting

Cross rails for floor-standing enclosures overview

Combination examples

PB500838-26



The quick-fixing cross rails can be fixed directly to the structure, quickly and easily.

■ **Spacial SF and SFX*:**

□ They clip onto the structure and are fixed by M6 self-tapping screws, or optionally with M6 caged nuts.

■ **Spacial SM:**

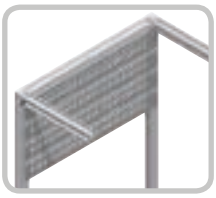
□ Possibility of clipping onto the adaptation profile or another cross rail.

□ Fixing by means of M6 self-tapping screws.

□ Fixing by means of M6 caged nuts.

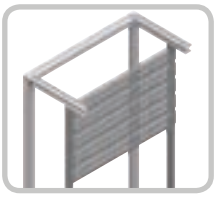
** In enclosures Spacial SFX is not possible to mount it in depth.*

PB500839-30



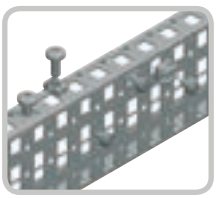
Quick-fixing cross-rails can be used to support equipments at the back of the enclosure or be fixed every 25 mm on two cross-rails (universal or integrated) in vertical position.

PB500841-24



40mm wide universal and integrated cross-rails can be used as uprights, adjustable every 25 mm in depth. They enable the fixing of diverse equipment supports and are adjustable every 25 mm in height.

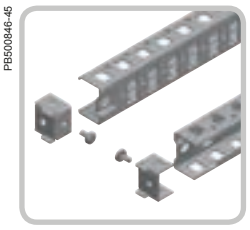
PB500842-30

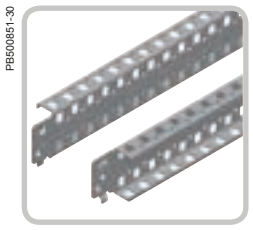


The main fixing point to the quick-fixing cross rails is the 5.2 mm drill hole for M6 self-tapping screw, although they can also receive M6 and M8 caged nuts.

Mounting
Cross rails for floor-standing enclosures

Telequick SM SF SD SMX SFX SDX

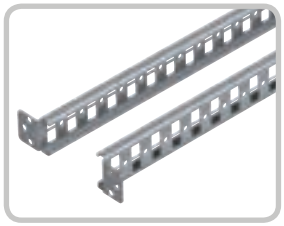




Characteristics			Universal cross rails	Quick-fixing cross rails
			■ Used for the creation of structures inside the enclosure. ■ Cross-rails available in 3 sizes: 40 mm (1 row), 65 mm (2 rows) et 90 mm (3 rows). ■ Each row is perforated every 25 mm with a 5.2 mm diameter hole and a 11x13 mm cutout which enables fixing by means of M6 self-tapping screws, ref NSYST30M6S. ■ Equipment are fixed by means of caged nuts or self-tapping screws.	
Material			Zinc-coated steel	
Thickness			15/10e mm	
Fixing to the structure			Fixing accordingly to uprights axis. Possibility to mount cross-rails simultaneously on all sides, at the same height of the enclosure.	Fixing accordingly to uprights axis. No possibility to mount two cross-rails at the same level of an upright.
Supply			2 cross rails, 4 supports for cross rails and fixing elements	2 cross rails and fixing elements
Dimensions		**Maximum load by rail**	**References**	
Width of the cross rail (mm)	**H / L / P (Dn) of cubicle (mm)**	**(kg)**		
40 (1 row)	300	70	**NSYSUCR4030**	-
	400	60	**NSYSUCR4040**	**NSYSQCR4040**
	500	60	**NSYSUCR4050**	**NSYSQCR4050**
	600	50	**NSYSUCR4060**	**NSYSQCR4060**
	700 (3)	50	**NSYSUCR4070**	-
	800	40	**NSYSUCR4080**	**NSYSQCR4080**
	900 (3)	40	**NSYSUCR4090**	-
	1000	30	**NSYSUCR40100**	**NSYSQCR40100**
	1100 (3)	30	**NSYSUCR40110**	-
	1200	20	**NSYSUCR40120**	**NSYSQCR40120**
	1400	(1)	**NSYSUCR40140**	-
	1500 (3)	(2)	**NSYSUCR40150**	-
	1600	(1)	**NSYSUCR40160**	-
	1800	(1)	**NSYSUCR40180**	-
	2000	(1)	**NSYSUCR40200**	-
	2200	(1)	**NSYSUCR40220**	-
65 (2 rows)	300	110	**NSYSUCR6530**	-
	400	100	**NSYSUCR6540**	**NSYSQCR6540**
	500	90	**NSYSUCR6550**	**NSYSQCR6550**
	600	80	**NSYSUCR6560**	**NSYSQCR6560**
	800	70	**NSYSUCR6580**	**NSYSQCR6580**
	1000	50	**NSYSUCR65100**	**NSYSQCR65100**
	1200	50	**NSYSUCR65120**	**NSYSQCR65120**
	1400	(1)	**NSYSUCR65140**	-
	1600	(1)	**NSYSUCR65160**	-
	1800	(1)	**NSYSUCR65180**	-
	2000	(1)	**NSYSUCR65200**	-
	2200	(1)	**NSYSUCR65220**	-
90 (3 rows)	300	130	**NSYSUCR9030**	-
	400	120	**NSYSUCR9040**	**NSYSQCR9040**
	500	120	**NSYSUCR9050**	**NSYSQCR9050**
	600	110	**NSYSUCR9060**	**NSYSQCR9060**
	700 (3)	110	**NSYSUCR9070**	-
	800	100	**NSYSUCR9080**	**NSYSQCR9080**
	900 (3)	100	**NSYSUCR9090**	-
	1000	70	**NSYSUCR90100**	**NSYSQCR90100**
	1100 (3)	70	**NSYSUCR90110**	-
	1200	70	**NSYSUCR90120**	**NSYSQCR90120**
	1400	(1)	**NSYSUCR90140**	-
	1500 (3)	(2)	**NSYSUCR90150**	-
	1600	(1)	**NSYSUCR90160**	-
	1800	(1)	**NSYSUCR90180**	-
	2000	(1)	**NSYSUCR90200**	-
	2200	(1)	**NSYSUCR90220**	-

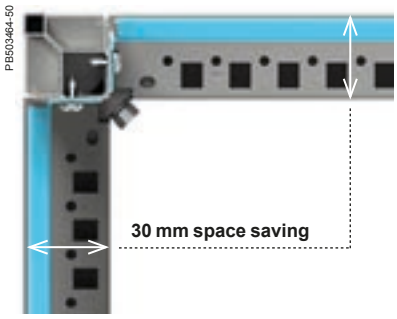
(1) For vertical assembly only.
(2) Cross rails only for fixing cables.
(3) These cross-rails have not been sized to be used in the width, depth or height of the enclosure, but to be mounted in other positions or in between cross-rails.

Mounting
Cross rails for floor-standing enclosures

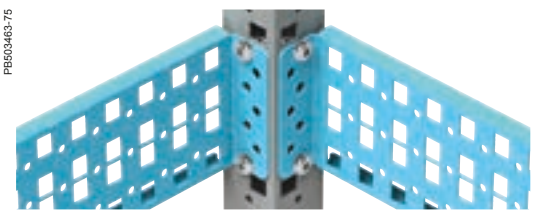


New

Characteristics			Integrated cross-rails
			■ Used for the creation of structures inside the enclosure. ■ Cross-rails available in 3 sizes : 40 mm (1 row), 65 mm (2 rows) et 90 mm (3 rows). ■ Each row is perforated every 25 mm with a 5.2 mm diameter hole and a 11x13 mm cutout which enables fixing by means of M6 self-tapping screws, ref NSYST30M6S. ■ Equipment are fixed by means of caged nuts or self-tapping screws.
Material			Zinc-coated steel
Thickness			15/10e mm
Fixing to the structure			Fixing is shifted by 30 mm relatively to uprights' axis. Possibility to mount cross-rails simultaneously on all sides, at the same height of the enclosure.
Supply			2 cross rails and fixing elements
Dimensions		**Maximum load by rail**	**References**
Width of the cross rail (mm)	**H / L / P (Dn) de la cellule (mm)**	**(kg)**	
40 (1 row)	300	70	**NSYSICR4030**
	400	60	**NSYSICR4040**
	500	60	**NSYSICR4050**
	600	50	**NSYSICR4060**
	800	40	**NSYSICR4080**
	1000	30	**NSYSICR40100**
	1200	20	**NSYSICR40120**
65 (2 rows)	300	110	**NSYSICR6530**
	400	100	**NSYSICR6540**
	500	90	**NSYSICR6550**
	600	80	**NSYSICR6560**
	800	70	**NSYSICR6580**
	1000	50	**NSYSICR65100**
	1200	50	**NSYSICR65120**
90 (3 rows)	300	130	**NSYSICR9030**
	400	120	**NSYSICR9040**
	500	120	**NSYSICR9050**
	600	110	**NSYSICR9060**
	800	100	**NSYSICR9080**
	1000	70	**NSYSICR90100**
	1200	70	**NSYSICR90120**



30 mm space saving thanks to new fixation mode



Quick mounting, at same level, on all enclosure perimeter

Mounting
Cross rails for floor-standing enclosures

SM SF SFX

PB500853-37



PB500854-35

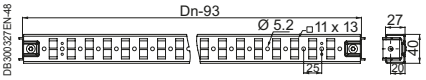


Characteristics	Light cross rails
	■ **Spacial SF and SFX:** direct fixing to the structure or between cross rails. ■ **Spacial SM:** fixing by means of adaptation profiles and 40 mm universal cross rails (1 row), or between cross rails in any other position. ■ Adjustable with a pitch of 25 mm. ■ The light cross rails are equipped with a row of drill holes with a diameter of 5.2 mm and a pitch of 25 mm, which allows fixing with an M6 self-tapping screw, ref. **NSYST30M6S**.
Material	Zinc-coated steel
Thickness	-
Supply	2 light cross rails and fixing elements
Width/Depth (mm)	**References**
400	**NSYSLCR40**
500	**NSYSLCR50**
600	**NSYSLCR60**
800	**NSYSLCR80**

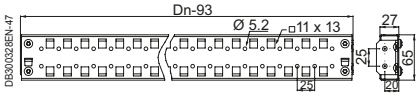
Dimensions

Universal cross rails

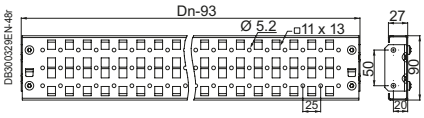
DB300327EN-48



DB300328EN-47



DB300329EN-48

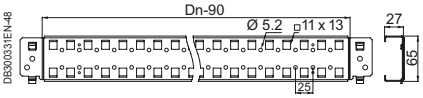


Quick-fixing cross rails

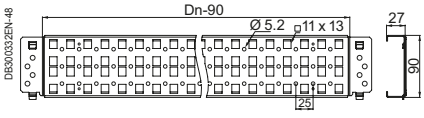
DB300330EN-48



DB300331EN-48

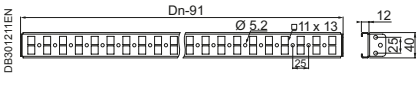


DB300332EN-48

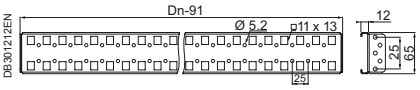


Integrated cross-rails

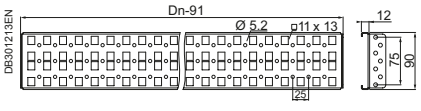
DB301211EN



DB301212EN

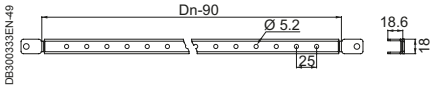


DB301213EN



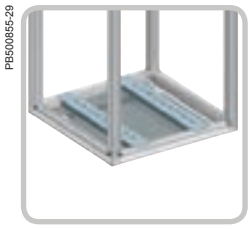
Light cross rails

DB300333EN-49

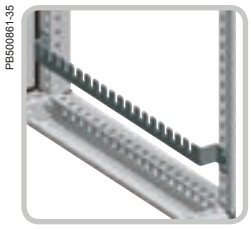


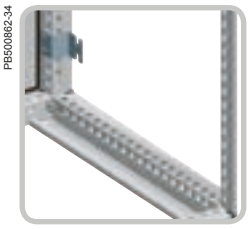
Mounting
Cross rails for floor-standing enclosures

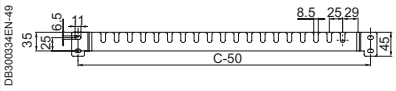
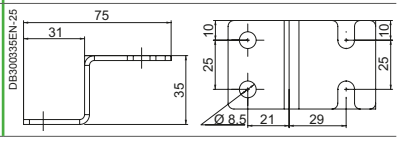
SF



SF

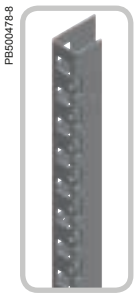




Characteristics	Rails for heavy loads		Cross rail for Lütze chassis	Support for Lütze chassis
	■ They can be mounted with a cable-gland plate or with a previously mounted mounting plate. ■ Laterally adjustable with a pitch of 25 mm. ■ Elongated holes, for adjusting the centre-to-centre distance of the switchgear.		Cross rail for fixing and adjusting the depth of the Lütze chassis.	Support for installing Lütze chassis in the back of the enclosure.
Fixing to the structure	Directly fixed on the bottom frame of the enclosure		-	-
Material	Galvanised steel		Galvanised steel	Galvanised steel
Thickness	30/10[e] mm		25/10[e] mm	25/10[e] mm
Supply	2 rails for heavy loads and fixing elements		6 cross rails for Lütze chassis and fixing elements	6 supports and fixing elements
Depth (mm)	**Maximum load (kg)**	**References**	**References**	**Reference**
400	575	**NSYHLCR40**	**NSYLCR40**	**NSYLSUP**
500	525	**NSYHLCR50**	**NSYLCR50**	
600	500	**NSYHLCR60**	**NSYLCR60**	
700	500	**NSYHLCR70**	-	
800	475	**NSYHLCR80**	-	
				

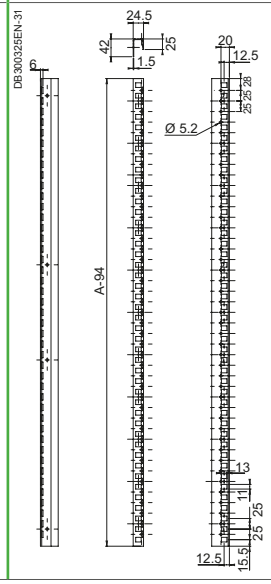
Mounting
Profiles for floor-standing enclosures

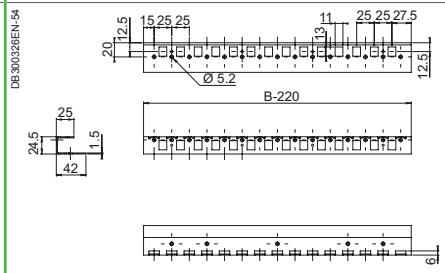
SM

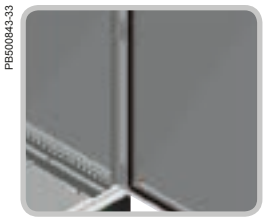


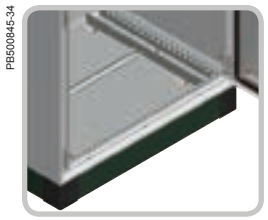


Characteristics	Vertical adaptation profiles	Horizontal adaptation profiles
	■ The vertical adaptation profiles provide fixing points at the entrance to the enclosure. ■ Fixing on the screws of the hinge and catches of the lock. ■ Allows the depthwise fixing of cross rails, etc.	■ The horizontal adaptation profiles provide fixing points at the entrance to the enclosure.
Material	Zinc-coated steel	Zinc-coated steel
Thickness	15/10e mm	15/10e mm
Supply	2 vertical adaptation profiles and fixing screws	2 horizontal adaptation profiles and fixing screws
Dimensions (mm)	**References**	
Height (A)		
1200	**NSYSMVR12**	-
1400	**NSYSMVR14**	-
1600	**NSYSMVR16**	-
1800	**NSYSMVR18**	-
2000	**NSYSMVR20**	-
Width (B)		
600	-	**NSYSMHR6**
800	-	**NSYSMHR8**
1000	-	**NSYSMHR10**
1200	-	**NSYSMHR12**
1600	-	**NSYSMHR16**









Mounting
Standard supports

SM SF

PB500523-44



Tray installed on the structure.

PB500669-42



Telescopic rails fixed to the structure.

Characteristics		Fixed tray		Telescopic rails
		■ Options for fixing the tray to the enclosure: □ If the tray has the same dimensions as the enclosure: - **Spacial SF:** direct fixing to the structure. - **Spacial SFX:** installation possible only with universal cross rails, see on page 223. - **Spacial SM:** fixing by means of adaptation profiles and 40-mm universal cross rails (1 row) in vertical position. □ If the tray is smaller than the dimensions of the enclosure: fixing on depth cross rails. - Depth-adjustable tray with a pitch of 25 mm. ■ Provided with cut-outs for improving air circulation inside.		■ **Spacial SF:** installation directly on the structure of the enclosure or on universal cross rails. ■ **Spacial SFX:** installation possible only with universal cross rails, see on page 223. ■ **Spacial SM:** installation by means of adaptation profiles and 40-mm universal cross rails (1 row) in vertical position, or on horizontal universal cross rails. ■ The installation of a telescopic tray consists of the following: □ 1 fixed tray. □ 2 telescopic rails. ■ End-of-travel stop of the rails in open and closed position.
Material		Steel		Zinc-coated steel
Finish		Painted with epoxy-polyester resin		Painted with epoxy-polyester resin
Colour		RAL 7035 grey		RAL 7035 grey
Maximum load		150 kg direct fixed to the structure 40 kg when universal cross rails are used		25 kg evenly distributed
Supply		1 fixed tray and fixing elements		2 telescopic rails and fixing elements
Depth	**Width**	**Tray dimensions (mm)**	**References**	**References**
400	600	482 x 290 x 30	**NSYFXT6040**	**NSYTTG40**
	800	682 x 290 x 30	**NSYFXT8040**	
500	600	482 x 390 x 30	**NSYFXT6050**	**NSYTTG50**
	800	682 x 390 x 30	**NSYFXT8050**	
600	600	482 x 490 x 30	**NSYFXT6060**	**NSYTTG60**
	800	682 x 490 x 30	**NSYFXT8060**	
800	800	682 x 690 x 30	**NSYFXT8080**	

Handle for telescopic trays

PB500671-18



■ Designed for easy extraction of the sliding trays.
■ **Material:** polyamide 6 (black).
■ **Supply:** two units and fixing elements.

Reference
NSY1TH

SM SF
SMX SFX

Tray cross rails

PB500668-34



PB500672-34



■ Allow the installation of fixed trays and telescopic rails. Quick and universal cross rails, see page 223

Tray installed on cross rails.

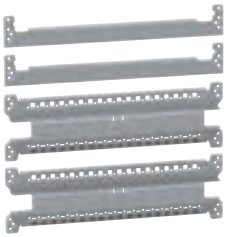
Dimensions (mm)	Universal cross rail	Quick-fixing cross rail
Depth	**40 mm (1 row)**	**40 mm (1 row)**
400	**NSYSUCR4040**	**NSYSQCR4040**
500	**NSYSUCR4050**	**NSYSQCR4050**
600	**NSYSUCR4060**	**NSYSQCR4060**
800	**NSYSUCR4080**	**NSYSQCR4080**

Mounting
Heavy load supports

SF

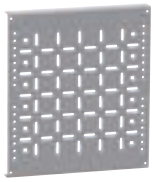
New

PB503485-44



New

PB503486-44



PB503485-22



Characteristics	Heavy load kit	Ventilated shelf
	■ 4 parts designed to strengthen installation supports (shelves or cross-rails) in case of heavy loads. ■ The kit can be used with following rails: □ standard crossrails delivered with Spacial SF, □ quick-fixing cross-rails NSYSQCR••••, □ DIN rails NSYSDR•• and NSYDPR••, □ NSYCN•• rails, □ heavy load cross-rails NSYHLCR••. ■ Several kits can be set up in the same enclosure as long as the maximum load of 1000kg is not exceeded. ■ Strengthen the stiffness of the enclosure. ■ Supports set up in the depth direction embed cut outs to secure equipment fixing.	■ Ventilation is ensured by two cut-out sizes: □ 11 x 13 mm rectangles for fixation on both sides with self- tapping screws, □ 40 x 8.5 mm rectangles. ■ The ventilated shelf must be fixed in the enclosure with a heavy load kit.
Material	Steel	Steel
Colour	RAL 7035	RAL 7035
Maximum load	Up to 500 kg	350 kg
Supply	2 cross-rails (front/rear) + 2 supports to be mounted according to depth direction	1 tray and fixing elements

Enclosure dimensions (mm)		References	Tray dimensions	References
Depth	Width		W x D x H (mm)	
400	600	**NSYSHLT6040**	500 x 359 x 50	**NSYDHLT6040**
	800	**NSYSHLT8040**	700 x 359 x 50	**NSYDHLT8040**
600	600	**NSYSHLT6060**	500 x 559 x 50	**NSYDHLT6060**
	800	**NSYSHLT8060**	700 x 559 x 50	**NSYDHLT8060**
800	600	**NSYSHLT6080**	500 x 759 x 50	**NSYDHLT6080**
	800	**NSYSHLT8080**	700 x 759 x 50	**NSYDHLT8080**

PB50346642

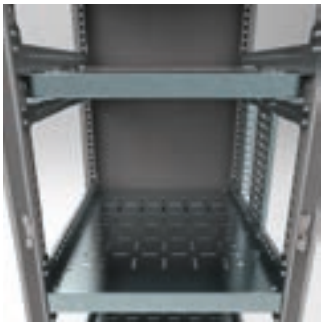


Combination examples

PB503532-50



PB503533-42

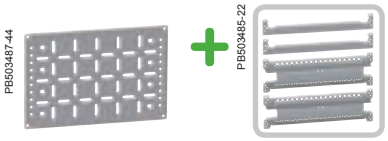


Heavy load kit +
Ventilated shelf

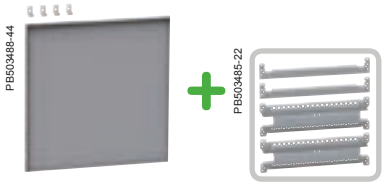
Mounting
Heavy load supports

SF

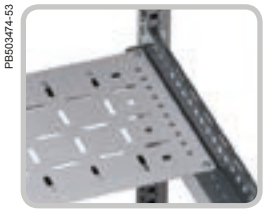
New

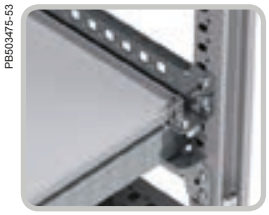


New

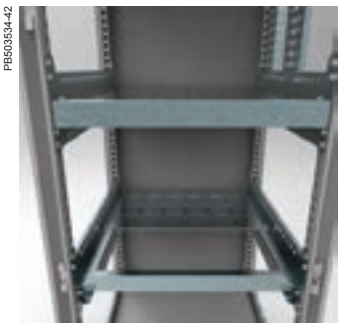


Characteristics		Partially ventilated shelf		Plain shelf for battery	
		■ in order to support the maximum load, the shelf must be mounted either in the rear or in the front of the enclosure. ■ An intermediary cross-rail must be set up in the middle to bear a heavy loads. ■ Ventilation is ensured by two cut-out sizes: □ 11 x 13 mm rectangles for fixation on both sides with self-tapping screws, □ 40 x 8.5 mm rectangles. ■ The partially ventilated shelf must be fixed in the enclosure with a heavy load kit.		■ Painted shelf with rims to avoid potential liquid leakage. ■ Electrical continuity is ensured by specific staples. ■ Acces and replacement (thus maintenance) are eased by mounting brackets. ■ The plain shelf must be fixed in the enclosure with a heavy load kit.	
Material		Steel		Steel	
Colour		RAL 7035		RAL 7035	
Maximum load		250 kg		350 kg	
Supply		1 tray and fixing elements		1 tray and fixing elements	
Enclosure dimensions (mm)		**Tray dimensions**	**References**	**Tray dimensions**	**References**
Depth	**Width**	**W x D x H (mm)**		**W x D x H (mm)**	
400	600	500 x 325 x 2	**NSYPPHLT6040**	500 x 300 x 16	**NSYPHLT6040**
	800	700 x 325 x 2	**NSYPPHLT8040**	700 x 300 x 16	**NSYPHLT8040**
600	600	-	-	500 x 500 x 16	**NSYPHLT6060**
	800	-	-	700 x 500 x 16	**NSYPHLT6080**
800	600	-	-	500 x 700 x 16	**NSYPHLT6080**
	800	-	-	700 x 700 x 16	**NSYPHLT8080**





Combination examples



Heavy load kit +
Partially ventilated shelf

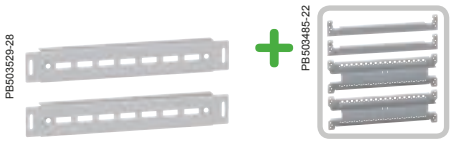


Heavy load kit +
Plain shelf for battery

Mounting
Heavy load supports

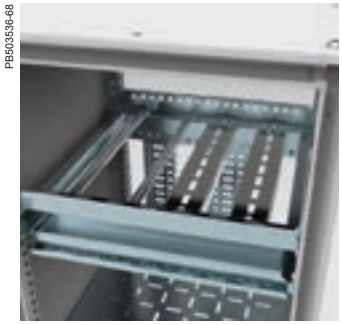
SF

New



Characteristics	Heavy load cross-rails		
	■ Can be fixed anywhere in the enclosure with a heavy load kit. ■ Free space useful for thermal management. ■ Nominal width of cross-rails must be 100mm shorter than the associated heavy load kit width.		
Material	Steel		
Supply	2 cross rails and fixing elements		
Nominal width (mm)	**Maximum load (kg)**	**References**	**Associated heavy load kit references**
400	575	**NSYHLCR40**	Not usable with heavy load kit
500	525	**NSYHLCR50**	**NSYHLT6040 NSYHLT6060 NSYHLT6080**
600	500	**NSYHLCR60**	Not usable with heavy load kit
700	500	**NSYHLCR70**	**NSYSHLT8040 NSYHLT8060 NSYHLT8080**
800	475	**NSYHLCR80**	Not usable with heavy load kit

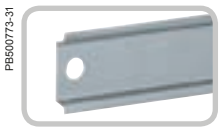
Combination examples



Heavy load kit +
Heavy load cross-rails

Mounting
Rails

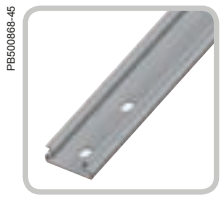
Telequick
S3D S3X PLM

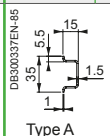
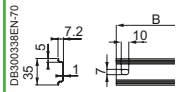
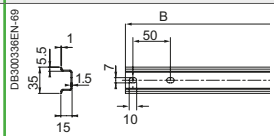
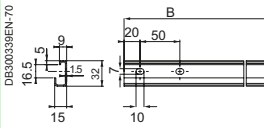
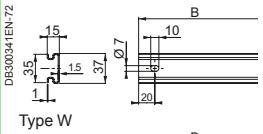
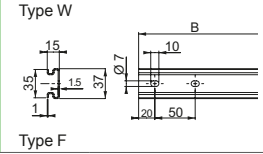


Telequick
SM SF SD
SMX SFX SDX



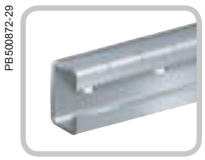




Characteristics		Symmetric mounting rail for the wall-mounting enclosures		Symmetric DIN rails for floor-standing enclosures	Asymmetric DIN rails for the floor-standing enclosures	Double-profile DIN rails	
		2 types: ■ Type A: 35 x 15 mm. ■ Type B: 35 x 7.5 mm.		Ensure horizontal continuity in case of enclosure assembly. Rail type: ■ Type A: 35 x 15 mm.	Ensure horizontal continuity in the case of enclosure assembly.	■ They combine the advantages of symmetric and asymmetric rails. ■ Quick installation of terminals according to standard DIN 46277/1.	
Material		Zinc-coated steel		Zinc-coated steel	Zinc-coated steel	Zinc-coated steel	
Standards		IEC 715		IEC 715	IEC 715	-	
Thickness		■ Type A: 15/10e mm ■ Type B: 10/10e mm		15/10e mm	15/10e mm	15/10e mm	
Fixing		Fixed to mounting plates or another fixing elements, uprights not included in the supply		Fixed to the standard or technical uprights (see page 219) or directly to the structure	Fixed to the standard or technical uprights (see page 219) or directly to the structure	Fixed to the standard or technical uprights (see page 219) or directly to the structure	
Supply		10 rails and fixings for direct assembling to the structure. References by unit. Order by multiples of 10 units (10, 20, etc.)		10 rails and fixings for direct assembling to the structure. References by unit. Order by multiples of 10 units (10, 20, etc.)	10 rails and fixings for direct assembling to the structure. References by unit. Order by multiples of 10 units (10, 20, etc.)	10 rails and fixings for direct assembling to the structure. References by unit. Order by multiples of 10 units (10, 20, etc.)	
Dimensions (mm)		**Type**	**References**	**References**	**References**	**Type**	**References**
Enclosure	**Rail length (B)**						
300	250	B	**NSYSDR30B**	-	-	W*	**NSYDPR25**
400	350	B	**NSYSDR40B**	-	-	W*	**NSYDPR35**
500	450	A	**NSYSDR50A**	-	-	W*	**NSYDPR45**
600	550	A	**NSYSDR60A**	-	-	W*	**NSYDPR55**
	588	-	-	**NSYSDR60**	**NSYADR60**	F**	**NSYDPR60**
700	650	-	-	-	-	W*	**NSYDPR65**
800	750	A	**NSYSDR80A**	-	-	W*	**NSYDPR75**
	788	-	-	**NSYSDR80**	**NSYADR80**	F**	**NSYDPR80**
1000	950	A	**NSYSDR100A**	-	-	-	-
	988	-	-	**NSYSDR100**	**NSYADR100**	F**	**NSYDPR100**
1200	1188	-	-	**NSYSDR120**	**NSYADR120**	F**	**NSYDPR120**
		 Type A  Type B				 Type W  Type F	

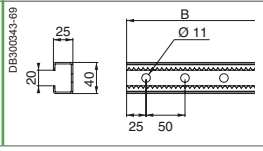
** For wall-mounting enclosure. ** For floor-standing enclosure.*
(1) Not perforated.

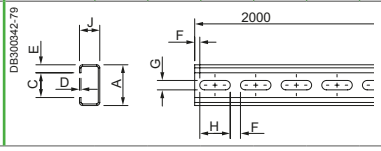
Mounting
Rails


PB500872-29


PB500870-45

Characteristics	Serrated C-shaped rail for heavy loads	Symmetric C-shaped rails									
	Marked in steps of 25 mm to facilitate switchgear positioning.	Rails for supporting and fixing switchgear on panels and enclosures, formation of chassis, racks and panel reinforcements.									
Material	Zinc-coated steel	Galvanised steel									
Standards	-	-									
Thickness	20/10[e] mm	-									
Fixing	-	They are fixed to the structure and to one another by means of fixing elements									
Supply	2 rails with a length of 2 m	References by unit. Order by multiples of the units specified in the supply									
Dimensions (mm)	**References**	**Type**	**Dimensions (mm)**								**Supply**	**References**
Rail length (B)			**A**	**J**	**C**	**D**	**E**	**F**	**G**	**H**		
1500	**AM1EC115**	-	-	-	-	-	-	-	-	-	-	-
2000	**AM1EC200**	C20 (1)	21	11	10	1.5	5.5	-	-	-	10	**NSYCN20**
		C20	21	11	10	1.5	5.5	5	6.2	15	10	**NSYCNT20**
		C40 (1)	40	20	24	1.5	8	-	-	-	10	**NSYCN40**
		C40	40	20	24	1.5	8	10	8.5	30	10	**NSYCNT40**





** For wall-mounting enclosure. ** For floor-standing enclosure.*
(1) Not perforated.

Nuts for symmetric C-shaped rails


PB500871-16

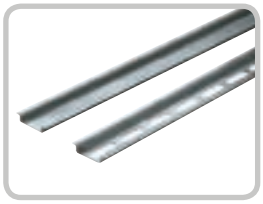

PB500871-16

Characteristics		Combiplas nut		Metal sliding nut	
Rail type	**Nuts type**	**Supply**	**References**	**Supply**	**References**
C20	M3	-	-	-	-
	M4	100	**NSYBN204**	100	**NSYB204**
	M6	100	**NSYBN206**	-	-
C40	M4	50	**NSYBN404**	100	**NSYB404**
	M6	50	**NSYBN406**	-	**NSYB406**
	M8	50	**NSYBN408**	-	-
C60	M6	20	**NSYBN606**	100	-
	M8	20	**NSYBN608**	-	-
	M10	20	**NSYBN610**	-	-

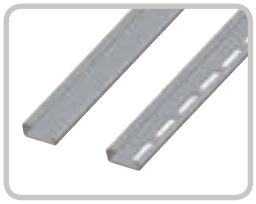
Mounting
2000 mm rails

Telequick

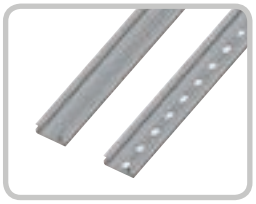
PB500864-36

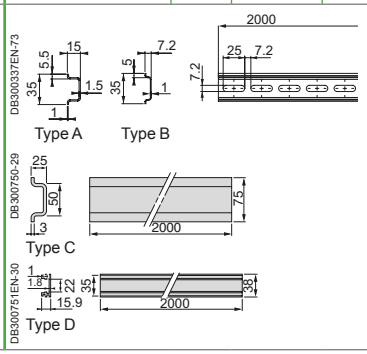
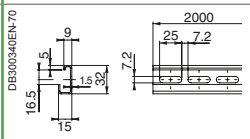
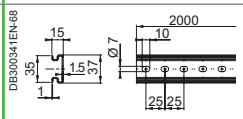


PB500867-37



PB500869-42



Characteristics		Symmetric rails				Asymmetric DIN rails	Double-profile DIN rails
Material		Galvanized steel, zinc-coated steel or aluminium				Galvanised steel	Galvanised steel
Thickness		-				-	15/10[e] mm
Supply		-				20 rails with a length of 2 m. References by unit. Order by multiples of 20 units (20, 40, etc.)	20 rails with a length of 2 m. References by unit. Order by multiples of 20 units (20, 40, etc.)
Length (mm)	**Perforations**	**Material**	**Type**	**Supply**	**References**	**References**	**References**
2000	Perforated	Galvanized steel	A	20	**NSYSDR200D**	**NSYADR200D**	**NSYDPR200D**
			B	20	**NSYSDR200BD**		**NSYDPR200T***
	Not perforated	Galvanized steel	A	20	**NSYSDR200**	**NSYADR200**	**NSYDPR200**
			B	20	**NSYSDR200B**		
		Zinc-coated steel	C	6	**AM1DL201**		
		Aluminium	D	10	**AM1EA200**		
							

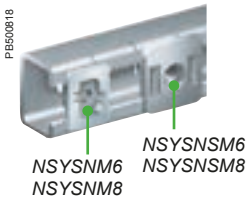
** 10/10[e] mm thickness.*

Mounting
Rail accessories







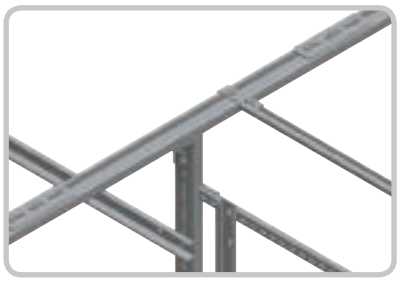


Characteristics	Nuts				
	For symmetric rails	For asymmetric DIN rails, 2000 mm version	For double-profile DIN rails	For serrated C-shaped rails	
	Clip-on nut.	Quarter-turn sliding nut.	Quarter-turn sliding nut.	Quarter-turn sliding nuts.	
Supply	100	100	100	10	
Type	**References**				
M3	-	-	**AF1CF34**	-	-
M4	**AF1CG4**	**DZ5ME8**	**AF1CF34**	-	-
M5	**AF1CG5**	**DZ5ME9**	**AF1CF56**	-	-
M6	**AF1CG6**	**DZ5ME5**	**AF1CF56**	**NSYSNM6**	**NSYSNSM6**
M8	-	-	-	**NSYSNM8**	**NSYSNSM8**

Mounting
Connectors for symmetric C-shaped rails

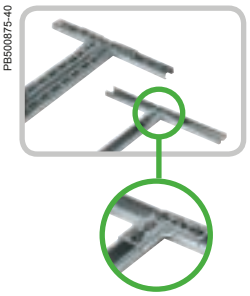
Examples
Combinations with connectors for symmetric C-shaped rails

PB500509-73

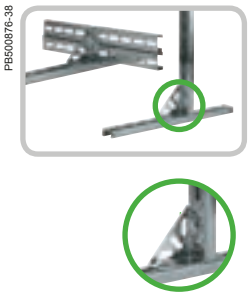


- The connectors enable the formation of chassis or frames and structures for fixing switchgear, in any position inside the enclosures, allowing the fixing of DIN rails or other elements.
- See symmetric C-shaped rails.

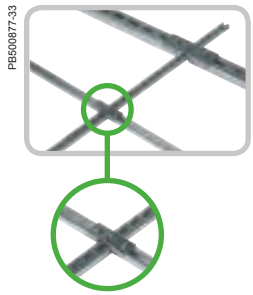
PB500875-40



PB500876-38



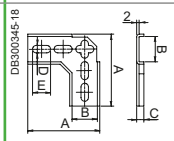
PB500877-33



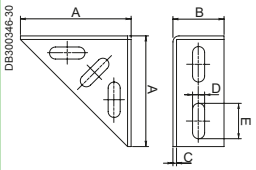
Characteristics	EMA connectors	EVA connectors	UCA connectors
	To joint two symmetric C-shaped rails, C20 and C40 types, at right angles; they can also be used to obtain a T-shaped assembly.	To join two symmetric C-shaped rails, C20 and C40 types, forming an overlapping assembly with plane change, or also at right angles for the formation of spacers or supports at a different level.	To join symmetric C-shaped rails, types C20 and C40, forming a cross-shaped assembly of three rails located on the same plane, for example inside a frame.
Material	Zinc-coated steel		
Thickness	20/10e mm	-	-
Supply	20 units. References by unit. Order by multiples of 20 units (20, 40, 60, etc.)	20 units. References by unit. Order by multiples of 20 units (20, 40, 60, etc.)	20 units. References by unit. Order by multiples of 20 units (20, 40, 60, etc.)

Dimensions (mm)								References		
A	B	C	D	E	F	G	H			
60	21.3	6	6.2	15	-	-	-	**NSYEMA20**	-	-
100	40.3	10	8.5	25	-	-	-	**NSYEMA40**	-	-
43	19	2	6.2	15	-	-	-	-	**NSYEVA20**	-
78	36	2.5	8.5	25	-	-	-	-	**NSYEVA40**	-
21.3	60	21.3	6	2	6.2	15	-	-	-	**NSYUCA22**
40.3	116	40.3	10	2.5	8.5	25	-	-	-	**NSYUCA44**
21.3	21.5	53.5	8	2	6.2	15	-	-	-	-
21.3	40.5	72.5	8	2	6.2	15	-	-	-	-
40.3	40.5	81	10	2.5	8.5	25	-	-	-	-
21.3	21.5	8	2	6.2	15	6.2	15	-	-	-
21.3	40.5	8	2	6.2	15	6.2	13	-	-	-
40.3	40.5	10	2.5	8.5	25	8.5	25	-	-	-
60	18	2	20	15	5	-	-	-	-	-
130	36	3	40	30	10	-	-	-	-	-
130	55	3	40	30	10	-	-	-	-	-
54	54	2	20	20	5	-	-	-	-	-
60	80	2	20	25	8	-	-	-	-	-
80	110	2	20	29	10	-	-	-	-	-

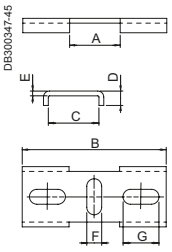
DB300345-18



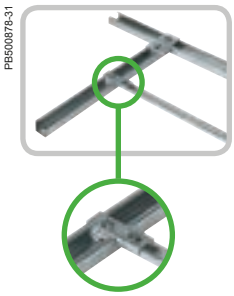
DB300346-30

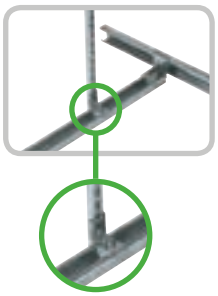


DB300347-45

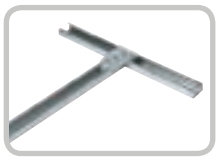


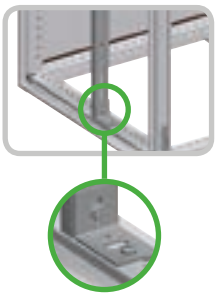
Mounting
Connectors for symmetric C-shaped rails


PB500878-31


PB500879-34


PB500880-29


PB500881-33


PB500883-28

	UTA connectors	ECA connectors	UR connectors	UT connectors	EN connectors		
	■ To create a T-shaped assembly between two symmetric C-shaped rails, C20 and C40 types, especially recommended for forming crossbars on chassis and frames. ■ The UTA42 connectors type allows C20 rails to be joined with C40 rails.	■ To form a cross-shaped assembly with two symmetric C-shaped rails, C20 and C40 types, located perpendicularly on different planes. ■ The ECA42 connector type makes it possible to join C20 rails with C40 rails.	■ For rectilinear joining of symmetric C-shaped rails. ■ Recommended when the standard length is not sufficient or for maximising fractions.	To form T-shaped assemblies between symmetric C-shaped rails. They are used to form crossbars on frames and structures.	To create L-shaped assemblies with plane change in the symmetric C-shaped rails, between them or with any other section.		
	-	-	-	-	-		
	20 units. References by unit. Order by multiples of 20 units (20, 40, 60, etc.)	20 units. References by unit. Order by multiples of 20 units (20, 40, 60, etc.)	20 units. References by unit. Order by multiples of 20 units (20, 40, 60, etc.)	20 units. References by unit. Order by multiples of 20 units (20, 40, 60, etc.)	20 units. References by unit. Order by multiples of 20 units (20, 40, 60, etc.)		
					NSYEN20	NSYEN40	NSYEN60
	-	-	-	-			
	-	-	-	-			
	-	-	-	-			
	-	-	-	-			
	-	-	-	-			
	-	-	-	-			
	NSYUTA22	-	-	-			
	NSYUTA42	-	-	-			
	NSYUTA44	-	-	-			
	-	**NSYECA22**	-	-			
	-	**NSYECA42**	-	-			
	-	**NSYECA44**	-	-			
	-	-	**NSYUR20**	-			
	-	-	**NSYUR40**	-			
	-	-	**NSYUR60**	-			
	-	-	-	**NSYUT20**			
	-	-	-	**NSYUT40**			
	-	-	-	**NSYUT60**			
	DB300348-48	DB300349-36	DB300350-28	DB300351-24	DB300352EN-24	DB300353EN-22	DB300354EN-25

Mounting
Spacers

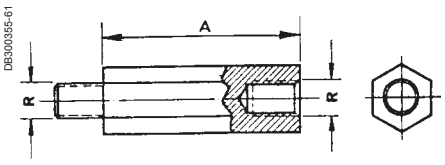




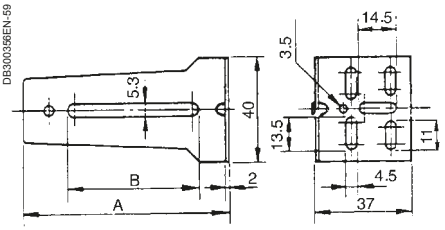
Characteristics	Hexagonal spacers	ETU modular spacers
	■ Hexagonal spacers for raising switchgear, mounting plates, etc. They can be linked together to achieve variable heights with gradual elevation. ■ Their assembly requires M5, M6 or M8 caged nuts.	Modular spacers for installing devices or rails at a different level from that achieved with the basic chassis or mounting plate.
Material	Zinc-coated steel	Zinc-coated steel
Installation	If used to raise a mounting plate, the maximum load of the mounting plate is decreased	-
Supply	100 hexagonal connectors. References by unit. Order by multiples of 100 units (100, 200, 300, etc.)	20 units. References by unit. Order by multiples of 20 units (20, 40, 60, etc.)

References

Thread type (R)	Spacer height (mm) (A)	
M5	10	**NSYE1025**
M5	15	**NSYE1525**
M5	20	**NSYE2025**
M6	10	**NSYEX106**
M6	12	**NSYEX126**
M6	14	**NSYEX146**
M6	16	**NSYEX166**
M6	18	**NSYEX186**
M6	20	**NSYEX206**
M6	30	**NSYEX306**
M6	40	**NSYEX406**
M6	50	**NSYEX506**
M6	100	**NSYEX1006**
M8	15	**NSYEX158**
M8	20	**NSYEX208**
M8	30	**NSYEX308**
M8	40	**NSYEX408**
M8	50	**NSYEX508**
M8	60	**NSYEX608**
M8	100	**NSYEX1008**



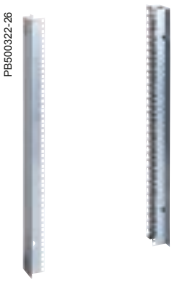
A (mm)	B (mm)	
48	25	**NSYETU48**
58	25	**NSYETU58**
79	55	**NSYETU79**
118	55	**NSYETU118**



Combination of spacers	Minimum height (mm)	Maximum height (mm)
NSYETU48 + NSYETU48	53	64
NSYETU48 + NSYETU58	63	74
NSYETU48 + NSYETU79	85	95
NSYETU48 + NSYETU118	124	134
NSYETU58 + NSYETU58	73	84
NSYETU58 + NSYETU79	94	104
NSYETU58 + NSYETU118	134	144
NSYETU79 + NSYETU79	84	125
NSYETU79 + NSYETU118	124	164
NSYETU118 + NSYETU118	164	204

Mounting
19" Chassis

S3D S3X





Characteristics		19" fixed chassis for wall-mounting enclosure		19" swing chassis for wall-mounting enclosure	
		■ 19" fixed chassis comprising 2 19" uprights with fixing. ■ Adjustable in depth by fixing on the step slides in accessories.		19" swing chassis opening to 120° with closure by 3 mm double bar insert.	
Material		Galvanized steel		Steel	
Finish		-		Structured finish, epoxy-polyester powder	
Colour		-		RAL 7035 grey	
Thickness		20/10^{e} mm		-	
Maximum load		3 kg per unit		3 kg per unit	
Enclosure (mm)		**Unit number**	**References**	**Unit number**	**References**
Height	**Width**				
400	600	8	**NSYVDM8UF**	7	**NSYVDM7UP**
600	600	12	**NSYVDM12UF**	11	**NSYVDM11UP**
800	600	17	**NSYVDM17UF**	16	**NSYVDM16UP**
1000	600	21	**NSYVDM21UF**	20	**NSYVDM20UP**
	800	-	-	20	**NSYVDM20U8P**
1200	800	-	-	25	**NSYVDM25U8P**

Fixings for 19" rack



■ They allow 19" accessories to be mounted.
■ Caged nut compatible with 8.5 x 8.5 mm and 9.5 x 9.5 mm holes.

Name	Batch of	References
M6 screws + washers + nuts	30	**NSYGFR95M63**
M6 x 16 screws and washers	50	**NSYGFR166P**
M6 caged nuts	100	**NSYCN9M625**
M6 screws + washers + nuts	50	**NSYGFR95M65**
M5 screws + washers + nuts	50	**NSYGFR95M55**

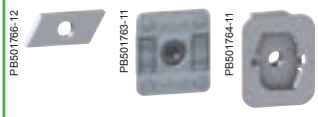
Mounting
Nuts and screws overview







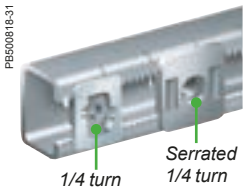


Characteristics	Clip-on nuts		Combiplas slide nut					Screws with captive washer Hexagonal head		
Usage	For Telequick mounting plates		C - shaped rail - 20/40/60 mm					All nuts		
										
Type	**Supply**	**References**	**Rail type**	**Combiplas nut**		**Metal sliding nut**		**Models**	**Supply**	**References**
				Supply	**References**	**Supply**	**References**			
M3	100	**AF1EA3**	-	-	-	-	-	-	-	-
M4	100	**AF1EA4**	C20	100	**NSYBN204**	100	**NSYB204**	M4 x 10 mm	100	**AF1VA410**
			C40	100	**NSYBN404**	100	**NSYB404**	M4 x 16 mm	100	**AF1VA416**
M5	100	**AF1EA5**	-	-	-	-	-	M5 x 12 mm	100	**AF1VA512**
								M5 x 18 mm	100	**AF1VA518**
M6	100	**AF1EA6**	C20	100	**NSYBN206**	-	-	M6 x 12 mm	100	**AF1VA612**
			C40	100	**NSYBN406**	-	-	M6 x 18 mm	100	**AF1VA618**
			C60	100	**NSYBN606**	100	**NSYB406**			
M8	-	-	C40	100	**NSYBN408**	-	-	M8 x 20 mm	100	**AF1VC820**
			C60	100	**NSYBN608**					
M10	-	-	C60	100	**NSYBN610**	-	-	-	-	-

References by unit. Order by multiples of the units specified in the supply.



Fixing brackets

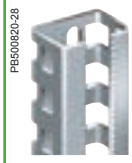




Removable nut



Cage nut

Characteristics	Fixings and nuts for serrated uprights					Nuts for uprights and cross rails			
Usage	2 per serrated mounting uprights for floor-standing enclosures								
									
Type	**Fixing brackets**			**1/4 turn**	**Serrated 1/4 turn**	**Removable nut**		**Cage nut**	
	Supply	**Ref.**	**Supply**	**Ref.**	**Ref.**	**Supply**	**Ref.**	**Supply**	**Ref.**
M4	4	**NSYMFB**	-	-	-	-	-	-	-
M5			-	-	-	-	-	-	-
M6			10	**NSYSNM6**	**NSYSNSM6**	50	**NSYCNM6**	50	**NSYCNFM6**
M8			10	**NSYSNM8**	**NSYSNSM8**	50	**NSYCNM8**	50	**NSYCNFM8**
-			-	-	-	-	-	-	-

References by unit. Order by multiples of the units specified in the supply.

Mounting
Nuts and screws overview


PB500856-19

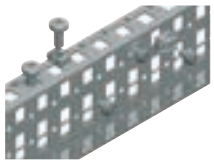

PB501855-10


PB501766-17


PB501859-10

Torx screws

Nuts and 6 mm Spacial enclosures holes


PB500842-29

Models	Supply	References
-	-	-
-	-	-
-	-	-
T30 M6 x 16 mm	100	**NSYST30M6**
T30 M6 x 14 mm self-tapping	100	**NSYST30M6S**
T40 M8 x 16 mm	100	**NSYST40M8**
-	-	-

Self-tapping screw


PB500108-28

Models	Supply	References
-	-	-
-	-	-
M5 x 13 mm	100	**NSYS13M5HS**
M5 x 16 mm	100	**NSYS16M5HS**
M6 x 16 mm	100	**NSYS16M6HS**
-	-	-
-	-	-
-	-	-

Fixings and nuts for aluminium uprights

Mounting uprights for wall-mounting enclosures


PB500105-29

Sliding nuts		Brass nuts to fix the upright to the enclosures	
Supply	References	Supply	Reference
-	-	4	**NSYAMCSF**
100	**NSYNM4**		
100	**NSYNM5**		
100	**NSYNM6**		
-	-		
-	-		


PB500817-22


PB500863-25


PB500886-24


PB500866-24

Flat nuts for standard uprights

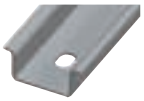
2 per standard mounting uprights for floor-standing enclosures


PB500482-26

Supply	Ref.
-	-
-	-
50	**NSYFNM6**
50	**NSYFNM8**
-	-

Clip nut for symmetric DIN rail

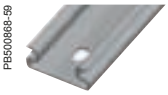
35 x 15 mm symmetric DIN rail


PB500222-45

Supply	Ref.
100	**AF1CG4**
100	**AF1CG5**
100	**AF1CG6**
-	-
-	-

Quarter turn nut for double profile DIN rail

35 mm double profile DIN rail


PB500868-59

Models	Supply	Ref.
-	-	-
-	-	-
-	-	-
-	-	-
M3 + M4	100	**AF1CF34**
M5 + M6	100	**AF1CF56**

Quarter turn nut for asymmetric DIN rail

35 mm asymmetric DIN rail


PB500865-54

Supply	Ref.
100	**DZ5ME8**
100	**DZ5ME9**
100	**DZ5ME5**
-	-
-	-

Cable management
Cable entries overview

Multiple cable entries


PB501865-18


PB501700-18


PB500024-33


PB500023-21

New

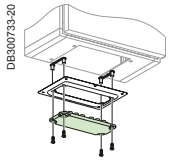

PB503490

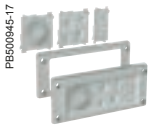

PB502492-17

Characteristics	Flexicable	Multi-A	Multi-C	Multi-R	Multi-CS	Multi-T
	Full membrane cable gland plate.	FL13 & FL21 type membranes.	Circular connector-free entries.	Rectangular connector-free entries.	Modular entry allowing the passing of up to 48 pre-assembled cables.	FL21-type membranes.
Material	HCE for membrane. Steel for frame	TPE, SBS, SEBS and PP co-polymer - halogen free	Polyamide	Polyamide	Reinforced polypropylene and TPE. Halogen free	TPE
Colour	Frame: RAL 7035	RAL 7035	-	-	Black	RAL 7035
Cable entry material	Soft membrane	Combined	Soft membrane			
Cable glands to be fitted	No	Optional: specific cable clamp ref. **NSYAECPFLACA●●** to be used	No	No	No	No
Installation possibilities	Replaces cable gland plate (S3D) or directly on enclosure	On cable gland plate adapter or directly on enclosure	On modified cable gland plate or directly on enclosure	On cable gland plate with special cut-out or directly on enclosure	On cable gland plate adapter or directly on enclosure	
Flexibility of the installation	Full	Medium	Medium	Medium	Full	Medium
Reversibility	Medium	Medium	Full	Full	Full	Medium
Ingress protection rating	IP55 according to IEC 60529	IP65 according to IEC 60529	IP65 according to IEC 60529	IP65 according to IEC 60529	IP65 according to IEC 60529	IP66 according to IEC 60529**
Cable retention	Low	High with cable clamp, (up to 18 daN)	Medium	Medium	Medium	Low
Cable diameter (mm)	Up to 26	From 13 to 30	From 3 to 15.9	From 4.3 to 15.9	Up to 22	From 5 to 60
Cable Installation time	Fast	Medium	Fast	Fast	Fast	Fast
Quantity of cables to be fitted for a given surface	+++	++	++	++	+++	++
Cable entries for cables with connectors	No	No	No	No	Yes	No
Cut-out dimensions (mm)	178 x 63 to 478 x 63	134 x 52 (FL13) 214 x 90 (FL21)	Ø 50.5 Ø 63.5	112 x 36	112 x 36	214 x 90 (FL21)
External dimensions (mm)	245 x 130 to 545 x 130 or 495 x 220	216 x 84	Ø 58 Ø 71	146 x 14 x 58	148 x 58 x 15 148 x 58 x 18	214 x 88
Certificates	Tested on short-circuit effect 250 A, 25 kA following IEC 61439-1	Cable anchorage pull test: EN 50262. Long term UV-resistance: ASTM G 154-06	■ UL 94 V-0	■ UL 94 V-0	■ UL 94 V-0 ■ Fire resistance: V0	UL 94 V-0
Fire resistance	650°C	750°C	650°C	650°C	-	650°C
Temperature range	-	-40°C to +85°C	-	-	-30°C to +100°C	-40°C to +100°C
References*						
See page	250	250	251	251	264	252

** For details, type the reference in the search engine of www.schneider-electric.com.*
*** IP65 for NSYAECPFLBP.*

Cable management
Cable entries overview











Characteristics	Prisma	Multi-F	Multi-CF	Multi-CR	Multi-H
	FL21 or rectangular.	FL13 & FL21 pre-configured flanges.	Cable entry for protected cables.	Cable entries with dies for cables equipped with connectors.	FL21 insulated flange with ISO knockouts.
Material	Insulating material	Fibreglass-reinforced polypropylene and TPE - Halogen Free	Reinforced polypropylene and TPE. Halogen free	Polyamide	Polycarbonate glass-fiber reinforced
Colour	RAL 9001	RAL 7035	Black	-	RAL 7035
Cable entry material	Soft membrane			Hard plastic	
Cable glands to be fitted	No	No	No	Yes	Yes
Installation possibilities	On cable gland plate adapter or directly on enclosure				
Flexibility of the installation	Medium	Medium	Full	Low	Low
Reversibility	Medium	Medium	Full	Medium	Medium
Ingress protection rating	IP55 according to IEC 60529	IP65 according to IEC 60529	IP65 according to IEC 60529	IP54 according to IEC 60529	IP65 according to IEC 60529
Cable retention	Low	Low	Medium	High (with fastener)	High (with cable clamp)
Cable diameter (mm)	From 28 to 60 (FL21) From 7 to 72 (rectangular)	From 16 to 50	From 9 to 30	From 3 to 31	From 12 to 25
Cable Installation time	Fast	Fast	Fast	Slow	Slow
Quantity of cables to be fitted for a given surface	++	++	+++	++	++
Cable entries for cables with connectors	No	No	Yes	Yes	No
Cut-out dimensions (mm)	214 x 90 (FL21)	134 x 52 (FL13) 214 x 90 (FL21)	112 x 36	36 x 91 (**NSYDCE168**) 36 x 112 (**NSYDCE24•**)	214 x 90 (FL21)
External dimensions (mm)	216 x 84	From 134 x 52 to 214 x 90	148 x 60 x 10	146 x 58	215 x 85
Certificates	-	■ UL 94-HB ■ Test standard EN 60529:1991 + A1 EN 60670-1:2005, EN 50262:1998 EMKO-TUI (03-SEC) FI001/84. Semko report 816003 ■ UL-approved materials	■ UL 94-HB ■ Fire resistance: V0	-	UL 94 V-1
Flame resistance	-	-	-	650 °C	750 °C
Temperature range	-	-20°C to +125°C (1)	-30°C to +70°C	-40°C to +80°C	■ For normal operation: -40°C to +80°C ■ For a short time: -40°C to +120°C
References*					
See page	256	253	265	253	252

** For details, type the reference in the search engine of www.schneider-electric.com.*
(1) "Pop-out" membranes only.

Cable management
Cable entries overview

Simple cable entries


PB500266-52


PB500975-16


PB500267-10


PB500976-11

Characteristics	Simple-1	Simple-2	Simple-3	Simple-4
	Mixed membrane entries for enclosure thickness 20/10e - 32/10e mm.	PVC adjustable cone-shaped entries for enclosure thickness 30/10e - 32/10e mm.	Quick cable entries for enclosure thickness 10/10e - 40/10e mm (5/10e - 20/10e mm for ref. **IMT36179**).	PVC adjustable cone-shaped entries for PG tubes or for enclosure thickness 12/10e - 15/10e mm.
Material	SBS	PVC	EPDM plastic	PVC
Colour	RAL 7035 light grey or RAL 9010 white	-	■ Grey cable entries: NCS 5500 ■ Black cable entries: NCS 9000	Black
Cable entry material	Soft membrane		Combined	
Cable glands to be fitted	Not applicable			
Installation possibilities	On cable gland plate or directly on enclosure			
Flexibility of the installation	Low			
Reversibility	Medium			
Ingress protection rating	IP55 according to IEC 60529	IP55 according to IEC 60529	IP67 according to IEC 60529	IP55 according to IEC 60529
Cable retention	Low	Low	Medium	Low
Cable diameter (mm)	From 20 to 40	From 5 to 87	From 12 to 50	From 16 to 44
Cable Installation time	Fast	Fast	Fast	Fast
Quantity of cables to be fitted for a given surface	+	+	+	+
Cable entries for cables with connectors	No	No	No	No
Cut-out dimensions (mm)	Various circular hole diameters according to cable diameter			
External dimensions (mm)	From Ø 23 to 44	From Ø 25 to 98	From Ø 12.5 to 50.7	From Ø 25 to 52
Certificates	-	-	-	-
Standard	-	-	-	-
Flame resistance	750°C	-	750°C	-
References*				
See page	258	258	259	259


PB500099-9


PB503494

New


PB503493

New

Caractéristiques	Simple-5	Synthetic snap in cable gland	Stainless steel cable gland with lamellar insert
	ISO cable gland.	Without thread. Easy assembly and disassembly. Suitable for walls from 0.5 to 4 mm thick.	Lamellar technology provides excellent resistance to traction as well as excellent torsional protection. For outdoor use, or for aggressive environments.
Material	PA6 Polyamide, neoprene gasket	PA6 Polyamide, neoprene gasket	Stainless steel AISI 304L or AISI 316L, neoprene gasket
Colour	RAL 7035 grey	RAL 7035, RAL 7001, RAL 9005. Other colours on demand	-
Cable entry material	Combined	Non armoured	Non armoured
Installation possibilities	On cable gland plate or directly on enclosure		
Flexibility of the installation	Low		
Reversibility	Medium		
Ingress protection rating	IP68 according to IEC 60529	IP68	IP68
Cable retention	High	High	High
Cable diameter (mm)	From 12 to 40	From 16 to 40	From 12 to 40
Cable Installation time	Slow	Slow	Slow
Quantity of cables to be fitted for a given surface	+	+	+
Cable entries for cables with connectors	No	No	No
Thread type	-	Metric EN 60423 Other types are available on demand	Metric EN 60423
Cut-out dimensions (mm)	Various circular hole diameters according to cable diameter		
External dimensions (mm)	From Ø 15 to 46	From Ø 22 to 46	From Ø 14 to 43
Certificates	Glow wire resistance: 960°C	UL 94 V-2	UL 94 V-2
Standard	Compliance with VDE, UL and CSA	DIN EN 62444, UL 514B, UL 514B§8.26.7	DIN EN 62444, UL 514
Flame resistance	750 °C	-	-
Temperature range	-	-20°C to + 100°C	-20°C to + 100°C
References*			
See page	258	259	259

** For details, type the reference in the search engine of www.schneider-electric.com.*

Cable management
Cable entries overview


PB500268-17


ODAPB500268-22


PB500269-23


PB500270-19

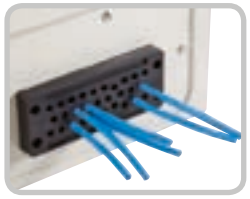
Characteristics	Multi-cable disc		Cable-gland gasket	Blanking plug	Transport plug
	It is possible to pass several cables through a single cable-gland using the multi-cable bushing.		-	It is screwed into the cable-gland's plate.	It is installed to block the cable-gland during transport or during maintenance operations.
Material	EDPM rubber		EDPM rubber	PA6	PA6
Colour	Black		Black	RAL 7035	Black
Ingress protection rating	-		IP68	-	-
Standards	-		-	-	-
Other characteristics	-		-	-	-
Supply	Batch of 40 (M16 and M20), 20 (M25 and M32)		Batch of 100 (M12 to M20) 50 (M25 and M32), 25 (M40)	Pack of 40 plugs (M12 to M20), 20 plugs (M25 and M32), 10 plugs (M40)	Pack of 40 plugs (M16 to M20), pack of 20 (M25 and M32), pack of 10 (M40)
Ø	**Number / Ø (mm)**	**References**	**References**	**References**	**References**
M12	-	-	**IMT36151**	**IMT36161**	-
M16	2 x Ø 4	**IMT36157**	**IMT36152**	**IMT36162**	**IMT36167**
M20	3 x Ø 4	**IMT36158**	**IMT36153**	**IMT36163**	**IMT36168**
M25	4 x Ø 5	**IMT36159**	**IMT36154**	**IMT36164**	**IMT36169**
M32	6 x Ø 5	**IMT36160**	**IMT36155**	**IMT36165**	**IMT36170**
M40	-	-	**IMT36156**	**IMT36166**	**IMT36171**

Cable management
Cable entries

Key features when selecting a cable entry

1 - Multiple cable entries or single cable entries

PB500023-38



Multiple

PB502701-58



Single

Your choice depends on:

■ The amount of cables going through the cable entry: generally for 3 or more cables, choose a multiple cable entry. It will make your installation faster and more economical.
In other words, your final bill will not necessarily be lower with single cable entries!

■ Flexibility of installation: for high flexibility, the multiple cable entry is the right choice.

2 - Entry cable material

■ **Soft membranes** allow cables to be easily pushed through, but still offer a good IP rating, protecting from moisture as well as physical intrusions. Cable retention force, however, is lower than with other alternatives.

PB502702



Push the membrane into a standard hole.

PB502703



Make a small hole in the membrane.

PB502704



Push the cable or tube through the guide hole.

PB502705



Pull the cable or tube back some 20 mm to lock it.

■ **Hard plastic** needs specific tools to create the opening (drill or knife) but, thanks to the cable gland, offers a very high retention force. Another use of this solution is for public places, since the hard surface prevents objects being pushed in.
■ **Combined:** the material of the cable entry plate is hard plastic, but the cable is pushed through a soft membrane. In this case you have the advantages both of soft membranes (easy and fast installation, flexibility) and hard plastic membranes (high retention force, when using specific cable clamps).

PB502707-70



PB501702



PB501703-30



PB501704-35



PB502706-68



3 - Cable glands to be fitted

■ Some multiple cable entries require a cable gland to be able to retain the cables and ensure the degree of protection.

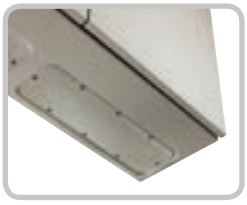
Cable management
Cable entries

4 - Installation possibilities

There are 4 ways to install your cable entries on the enclosure:

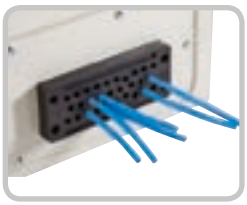
■ **By replacing the cable gland plate:** the standard cable gland plate of your S3D wall-mounting enclosure is unscrewed and replaced by the cable entry.
A gasket between enclosure and cable entry will ensure good water and dust tightness.

PB500305-30



■ **On modified cable gland plate:** the standard cable gland plate is unscrewed and machined. A cut-out is created in it.

PB500023-35

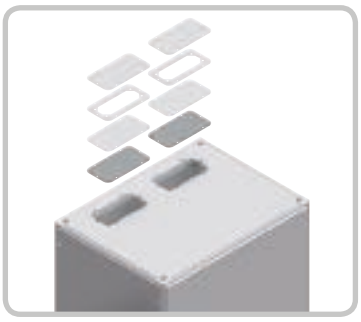


■ **On cable gland plate adapter:** this plate, which has the outer dimensions of a standard cable gland plate, has one or more pre-cut cut-outs of standard dimensions (FL13 and FL21).
On steel wall-mounting enclosures, the plate can replace the standard cable gland plate once the cable entry is fitted into it. On polyester enclosures, a cut-out must be created. Schneider Electric provides this service: a precise laser cut-out is factory-created upon request.
On steel floor-standing enclosures, you may either use the specific cable gland roof or create a cut-out (see expert's tip 1, page 249).

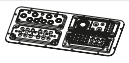
PB500462-44



PB500699-37



Cable gland plate adapters

Enclosure range	1 membrane	2 membranes	3 membranes	4 membranes
Spacial S3D	PB500604-16  **NSYTL•FL**	PB500604-15 **NSYTL•2FL**	-	DB300718-15  **NSYTLG4FL**
Spacial SF	PB502708-10  **NSYSFLR••** **NSYSFLR•••**	PB502709-12  **NSYSFLR••** **NSYSFLR•••**	PB500597-15  **NSYSFLR•••**	-

PB500358-108



■ **Directly on the enclosure:** a cut-out is created on the enclosure's side according to the cable entry's dimensions (see expert's tip 1, page 249).

Zoom on…

FL13 and FL21 are standard cut-out dimensions frequently used in northern European countries and also used by our enclosures for several years now.

Cable management
Cable entries

PB502710-32



Full flexibility

PB500946-35



Medium flexibility

5 - Flexibility of the installation

■ **Full flexibility:** this means that cables can be added/removed easily, changing:
□ quantity
□ diameter
□ position
(see expert's tip 2, page 249)
■ **Medium flexibility:**
□ the amount, diameter or position of cables can be changed to a limited extent.
■ **Low flexibility:**
□ it is not possible to change the above parameters.

6 - Reversibility

■ **Full reversibility: this means that cables can be added/ removed easily** without losing their initial characteristics, such as water tightness.
■ **Medium reversibility:** for soft membranes, once the cable has been removed, there may be a loss of IP depending on the size of the cable and the cut. For hard plastic entries or combined material entries, initial characteristics are regained by adding plugs.
■ **Low reversibility:** the cable entry must be completely replaced in order to regain the initial characteristics.

7 - Degree of protection (IP)

If an enclosure is to be used in a clean, dry and well insulated environment, lower levels of IP may be acceptable (IP54 or IP55).
In a dusty environment you may require higher IP levels, such as IP65 or IP68 (see expert's tip 4, page 249).

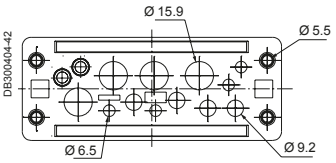
8 - Cable retention

Choose the right level of cable retention according to your needs. For locations accessible to the public, preferably choose a high level of cable retention.

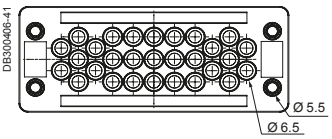
9 - Cable diameter

Choose the cable entry seal according to the cable diameter.
Take into account cable diameter tolerances.

DB300404-42



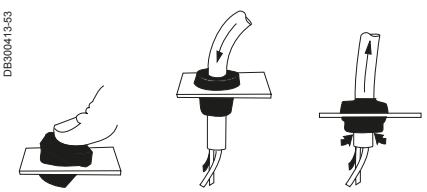
DB300406-41



10 - Cable installation time

Each cable entry has different installation characteristics. Some can be installed easily and quickly thanks to the soft membrane. Take this into account depending on labour costs in your region.

DB300413-53

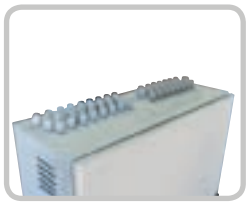


Cable management
Cable entries

PB502711-30



PB502712-31



11 - Quantity of cables to be fitted for a given surface

For some installations, a large quantity of cables must go through the cable entry.
Some cable entries can receive a high density of cables, which can result in more economical installation (fewer cable entries to be bought).
For small enclosures, it may simply be impossible to install too many cable entries due to the available space on the enclosure's wall (see expert's tip 3, page 249).

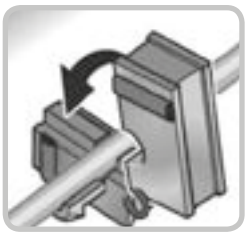
PB502713-34



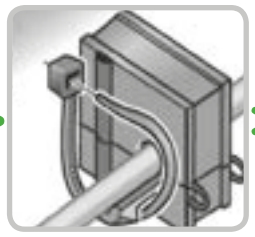
12 - Cable entries for cables with connectors

Some cables have large connectors which cannot be pushed through tight cable clamps or cable seals.
These cable entries have the unique advantage of not requiring the cable to be cut, thanks to the snap-fitting system.

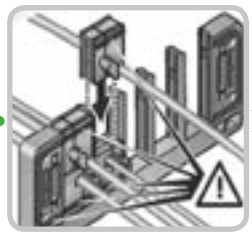
DB300410



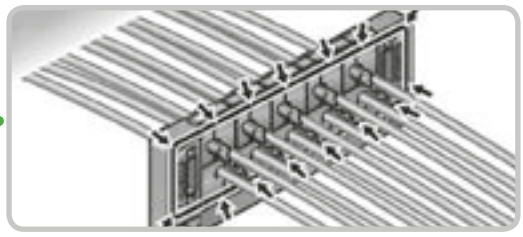
DB300410



PB502714

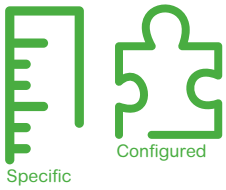


PB502715



A high cable retention force is provided thanks to the integrated cable fastener.

Expert's tip



❶ Some cable entries require cut-outs to be machined on the enclosure or cable gland plate.
Our customized offer provides this service.
The quality of your enclosure will therefore be guaranteed since the painting operation is performed after creating the cut-outs.

❷ Installing a cable entry with full flexibility is **the** solution when a large series of enclosures is being prepared for different types of installations.
By using one combination of enclosure-cable entry, you can cover a large variety of installations!

❸ When the cable entry has been defined, the next step is cable management inside the enclosure. For correct thermal management, all wires must be fitted and attached so as not to create an obstacle for correct air flow.
Consult our Universal Enclosures catalogue for cable management accessories (such as cable ducts) and consumables (such as cable ties).

❹ When your environment requires a high level of IP for your installation, make sure you have an appropriate thermal management system to avoid condensation or overheating problems.
Consult our Thermal Management offer in our Universal Enclosures catalogue and our Control Panel Technical Guide related to this issue.

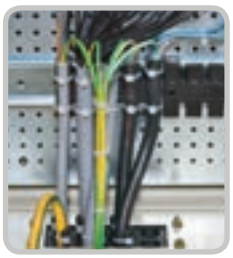
PB502716-53



PB502717-50



PB500966-50

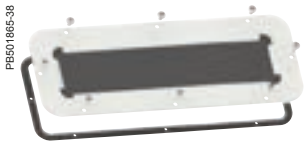


PB500965-44



Cable management
Cable entries

Dimensions



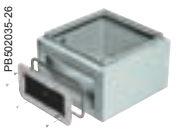


FL 13



FL 21

Characteristics	FlexiCable cable entrances				Multi-A										
See page	242				242										
Supply	■ 1 metallic frame with pre-mounted membrane ■ 1 gasket ■ Fixing hardware				-										
	Type	Plate dimensions (mm)		Effective cable entrance dimensions (mm)	References	Dimensions (mm)			No. of cable entries	Diameter of the cable entry (Ø mm)							References
		Width (A)	Depth (B)			H	W	D		13	14	15	16	18	21	30	
	C	245	130	178 x 63	**NSYTLCME**	**Type FL13**											
	D	345	130	278 x 63	**NSYTLDME**	20	135	47	7	-	-	4	-	-	3	-	**NSYAECPFLA7**
	E	445	130	378 x 63	**NSYTLEME**				10	6	-	-	4	-	-	-	**NSYAECPFLA10**
	F	545	130	478 x 63	**NSYTLFME**	**Type FL21**											
	G	495	220	428 x 153	**NSYTLGME**	25	215	86	25	-	16	-	-	6	-	3	**NSYAECPFLA25**
	D (1)	345	130	-	2 x **NSYTLDME**				33	-	24	-	-	9	-	-	**NSYAECPFLA33**
	E (1)	445	130	-	2 x **NSYTLEME**												



Mount FlexiCable on your S3D enclosure.



Create a hole with a screw driver.



Push the cable through FlexiCable and finish-off your installation.



NSYAECPFLA7



NSYAECPFLA10



NSYAECPFLA25



NSYAECPFLA33

(1) Enclosure with 2 cable-gland plates.

Cable management
Cable entries

Dimensions

PB500024-57



DB300396-38



PB500023-56



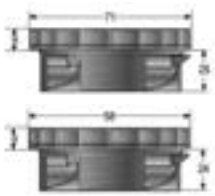
Characteristics	Multi-C								Multi-R							
See page	242								242							
Supply	10 units. Reference by unit. Order by multiples of 10 (10, 20, 30...)								1 unit							
	No. of openings	Dim./ cut-out Ø	Diameter of the cable entry (Ø mm)						References	No. of openings	Dim./ cut-out Ø	Diameter of the cable entry (Ø mm)					References
			3-5.5	3-6.5	3.6-6.5	5-9.2	6-10	9.6-15.9				4.3-8.1	3-6.5	5-9.2	8-12.5	9.6-15.9	
	4	50.5	-	-	-	-	3	1	NSYTSAM504SE	14	112 x 36	-	6	4	-	4	NSYTSA2414SE
	8	50.5	-	-	7	-	1	-	NSYTSAM508SE	17	112 x 36	-	-	17	-	-	NSYTSA2417SE
	8	63.5	-	2	-	4	-	2	NSYTSAM638SE	22	112 x 36	-	16	4	2	-	NSYTSA2422SE
	13	63.5	6	-	6	-	1	-	NSYTSAM6313SE	23	112 x 36	23	-	-	-	-	NSYTSA2423SE
										29	112 x 36	-	29	-	-	-	NSYTSA2429SE

DB300397-53



DB300398-53





Position of the holes on the circular cable entries with diameters 50 and 63 mm

DB300400-12



NSYTSAM504SE

DB300401-12



NSYTSAM508SE

DB300402-12



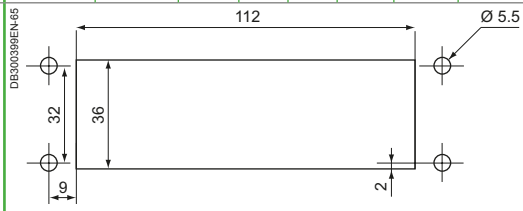
NSYTSAM638SE

DB300403-12



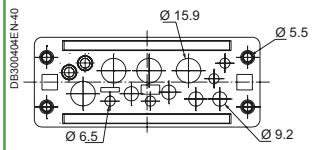
NSYTSAM6313SE

DB300399EN-65



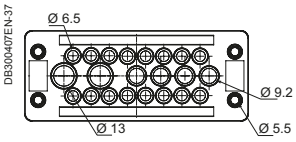
Diagrams of dimensions and positions of the holes on a rectangular cable entry

DB300404EN-40



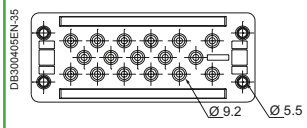
NSYTSA2414SE

DB300407EN-37



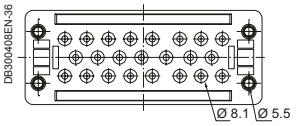
NSYTSA2422SE

DB300405EN-35



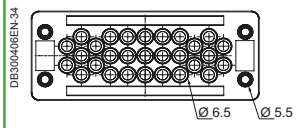
NSYTSA2417SE

DB300408EN-36



NSYTSA2423SE

DB300406EN-34



NSYTSA2429SE

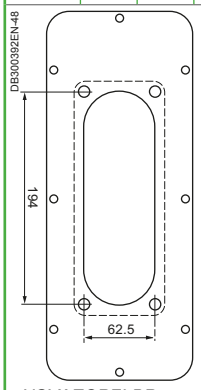
Cable management
Cable entries

Dimensions

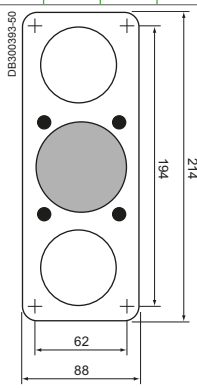




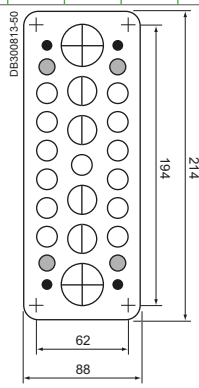
Characteristics	Multi-T												Multi-H			
See page	243												243			
Supply	-												-			
	No. of cable entries	Diameter of the cable entry (Ø mm)										References	Dimensions (mm)			Reference
		5-7	6-10	8-12	8-16	10-14	12-18	14-20	17-32	20-26	24-54	30-60		L1	L2	H	
	Type FL21													Type FL21			
	0	-	-	-	-	-	-	-	-	-	-	-	NSYAECPFLBP*	215	85	10	NSYTSAKFL
	7	-	-	-	4	-	-	-	-	-	2	1	NSYAECPFLT7				
	27	4	-	4	-	13	-	4	-	2	-	-	NSYAECPFLT25				
	37	-	4	14	-	16	2	-	1	-	-	-	NSYAECPFLT35				



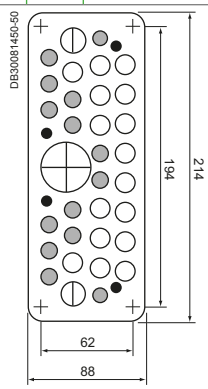
NSYAECPFLBP



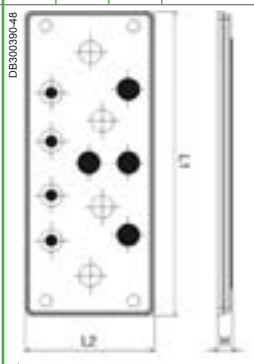
NSYAECPFLT7



NSYAECPFLT25



NSYAECPFLT35

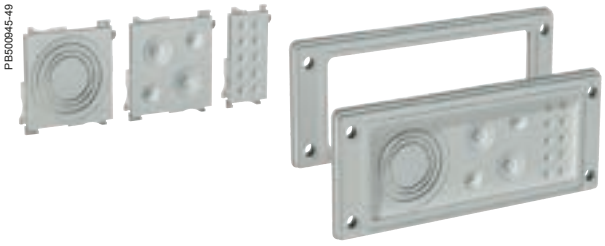


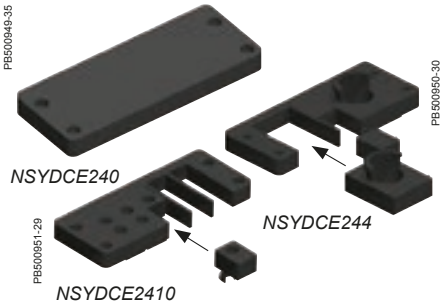
M16 or M25
M12
M12 or M20

** Metallic plate.*

Cable management
Cable entries

Dimensions

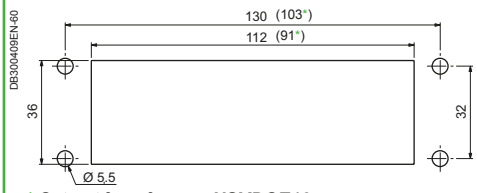




Characteristics	Multi-F										Multi-CR		
See page	243										243		
Supply	-										1 die and fixing elements		
	Dimensions (mm)				Diameter of the cable entry (Ø mm)					References	Connector cut-out type	Number of cable entries	References
	L1	L2	H	H2	4-10 mm (1)	M16 (2) (5-10 mm)	M20 (2) (6-13 mm)	M25 (2) (8-17 mm)	M32 or M40 or M50 (3)				
	Type FL13												
	134	52	6.5	~35	10	-	1	-	-	**NSYAECPKFL11**	16	8	**NSYDCE168**
	Type FL21										24	0	**NSYDCE240**
	214	90	9	~35	-	2	2	2	1	**NSYAECPKFL7A**	24	4	**NSYDCE244** (4)
	214	90	9	~35	-	4	2	4	-	**NSYAECPKFL10**	24	10	**NSYDCE2410**



Cut-out for reference NSYDCE24●●●



** Cut-out for reference **NSYDCE16●●●**.*

Split seals for cable entries equipped with connectors

■ Split seals suited to the diameter of the cable to be mounted on the cable-entry dies for the connectors. Ref. **NSYDCE●●●**.
■ **Supply:** 10 units. Reference per unit. To be ordered in multiples of 10 (10, 20, 30, etc.).

For cables Ø (mm)**	References
0	**NSYCEJD**
3-4	**NSYCEJD3**
5-6	**NSYCEJD5**
7-8	**NSYCEJD7**
9-10	**NSYCEJD9**
11-12	**NSYCEJD11**
13-14	**NSYCEJD13**
16-17	**NSYCEJD16****
18-19	**NSYCEJD18****
20-21	**NSYCEJD20****
22-23	**NSYCEJD22****
24-25	**NSYCEJD24****
26-27	**NSYCEJD26****
28-29	**NSYCEJD28****
30-31	**NSYCEJD30****

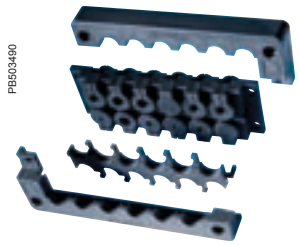
*** Large seal, 24/4 die only.*

(1) "Pop-out" membranes only.
(2) "Pop-out" membranes or cable gland installation.
(3) Knock out system.
(4) NSYDCE244 accepts 4 entries: 2 large seals and 2 small seals.

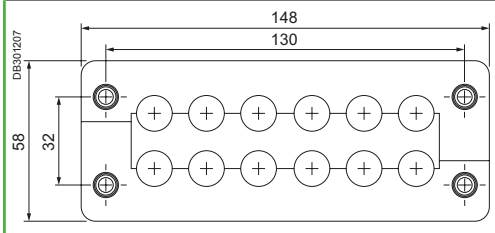
Cable management
Cable entries

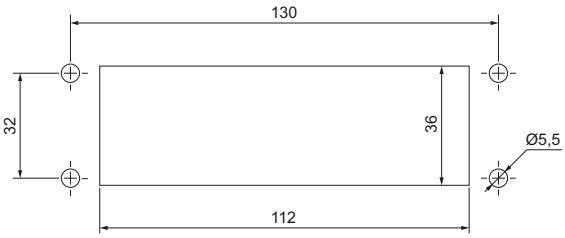
New

Dimensions



Characteristics	Multi-CS				
See page	242				
Supply	1 unit				
	No. of openings	Cut-out dimensions (mm)	Ø of the cable entry (mm)		References
			2-12	12-24	
	12	112 x 36	12	-	NSYDCD2412
	4	112 x 36	-	4	NSYDCD244
	8	112 x 36	6	2	NSYDCD248
	9	112 x 36	8	1	NSYDCD249





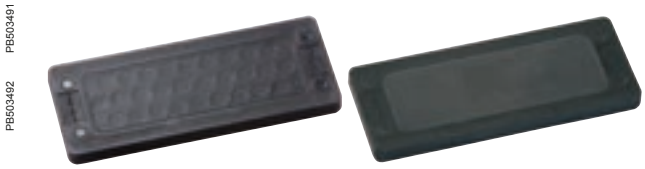
Cable gland			
Size of cable gland	Supply	Cable Ø	References
Small	Pack of 12	2-3	NSYCEJDS2
		3-4	NSYCEJDS3
		4-5	NSYCEJDS4
		5-6	NSYCEJDS5
		6-7	NSYCEJDS6
		7-8	NSYCEJDS7
		8-9	NSYCEJDS8
		9-10	NSYCEJDS9
		10-11	NSYCEJDS10
		11-12	NSYCEJDS11
Large	Pack of 4	12-13	NSYCEJDL12
		13-14	NSYCEJDL13
		14-15	NSYCEJDL14
		15-16	NSYCEJDL15
		16-17	NSYCEJDL16
		17-18	NSYCEJDL17
		18-19	NSYCEJDL18
		19-20	NSYCEJDL19
		20-21	NSYCEJDL20
		21-22	NSYCEJDL21

Blanking plugs		
Size of cable gland	Supply	References
Small	Pack of 12	NSYCEJDS0
Large	Pack of 4	NSYCEJDL0

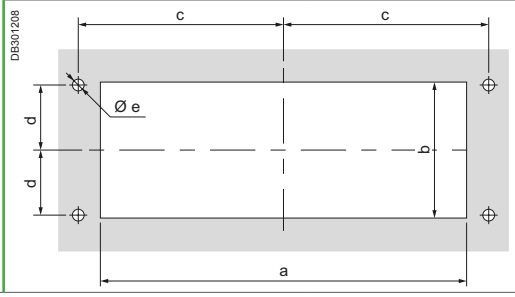
Cable management
Cable entries

New

Dimensions

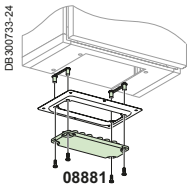


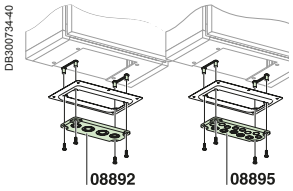
Characteristics	Multi-CF							
See page	243							
Supply	1 unit							
	Entries	**No. x Ø max. (mm)**	**Ø of the cable entry (mm)**					**References**
	Total No.		**a**	**b**	**c**	**d**	**e**	
	14	6 x 9	112	36	65	16	5.5	**NSYTLK2414**
		4 x 11						
		4 x 18						
	22	16 x 9	112	36	65	16	5.5	**NSYTLK2422**
		4 x 11						
		2 x 15						
	28	28 x 9	112	36	65	16	5.5	**NSYTLK2428**
	46	46 x 9	112	36	65	16	5.5	**NSYTLK2446**
	multi	3 / 27 x 300	112	36	65	16	5.5	**NSYTLK24M**

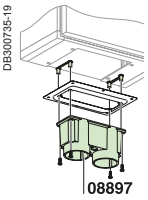


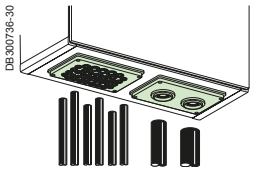
Cable management
Cable entries

Dimensions









Characteristics	Prisma									
Type	**FL21**								**225 x 137 mm opening**	
	Plain	**Pre-drilled**		**Membrane**					**Pre-drilled**	
	Solid cable-gland plates.	Suitable for receiving cable glands with metric pitch.		Membrane to be drilled according to the required diameter.					Suitable for receiving cable glands with metric pitch.	
See page	243									
	Reference	**References**		**No. entries**	**Amount of entries per Ø**	**Cable diameter comprised between**		**Ref.**	**References**	
						Min.	**Max.**			
	08881	2 x M20 or M32 + 2 x M25 or M40	**08892**	2	2	28	60	**08897**	With 39 entries from 7 to 26	**08898***
		5 x M16 or M25 + 8 x M20	**08895**						With 2 entries from 33 to 72	**08899**

** Reference 08898 is made up of:*
3 cables with diameters from 14 to 26.
4 cables with diameters from 10 to 20.
32 cables with diameters from 7 to 16.

Accessories for Multi-A





2 x 30 + 3 x 18 + 5 x 14 mm.

Characteristics	Cable clamp for improved cable retention					Blanking plugs
	Installation on FL 21 membrane type "A" for cable entrance to block cables when installed. It can be easily removed.					■ Installation on FL 21 membrane type "A" for cable entrance to fill the opening used. ■ Set of 2 plugs for diameter 30 mm, 3 plugs for diameter 18 mm and 5 plugs for diameter 14 mm.
Material	PA6					LDPE
Installation	**1.** Push the cable through the membrane entrance to the desired position **2.** Put the cable clamp around the cable and slide it into the cable entry **3.** Push the cable clamp fully into the membrane entrance and the cable will be fixed					-
Other characteristics	Temperature range: -40 to +85°C					Temperature range: -30 to +50°C
	Cable clamp outer diameter (mm)	**Membrane entrance diameter (mm)**	**Cable diameter range (mm)**	**Supply**	**References**	**Reference**
	15	14	7-9	Set of 8	**NSYAECPFLACA14**	**NSYAECPFLAP**
	18	18	9-11	Set of 6	**NSYAECPFLACA18**	
	20	18	10-12	Set of 6	**NSYAECPFLACA20**	
	30	30	20-23	Set of 3	**NSYAECPFLACA30**	





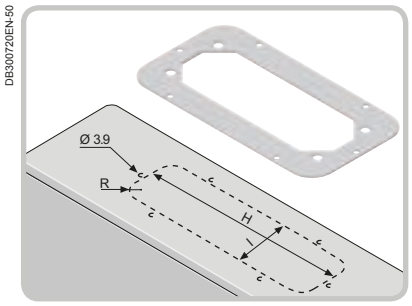


** Secure your installation with an easy solution for cable anchorage.*

Cable management
Cable entries

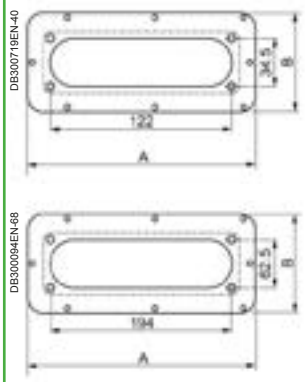
Dimensions



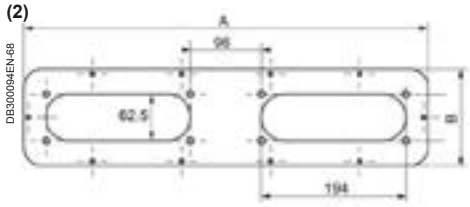


Characteristics		Steel adapter plate for FL13 and FL21 membranes				
		Allows the mounting of FL13 and FL21 membranes on every type of enclosure.				
Ingress protection rating		IP55 according to IEC 60529				
Supply		Delivered with fixing screws and gasket				
Type		**Plate dimensions (mm)**		**Cut-out dimensions (mm)**		**References**
		A	**B**	**H**	**I**	
FL13	B	245	80	212	47	**NSYTLBFL** (1)
FL21	C	245	130	212	97	**NSYTLCFL** (1)
	D	345	130	312	97	**NSYTLDFL** (1)
	E	445	130	412	97	**NSYTLEFL** (1)
	F	545	130	512	97	**NSYTLFFL** (1)
						NSYTLF2FL (2)
	G	495	220	462	187	**NSYTLGFL** (1)
						NSYTLG2FL (2)
						NSYTLG4FL (3)

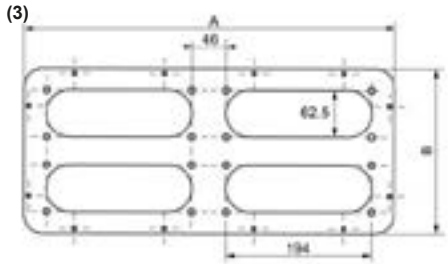
(1)



(2)

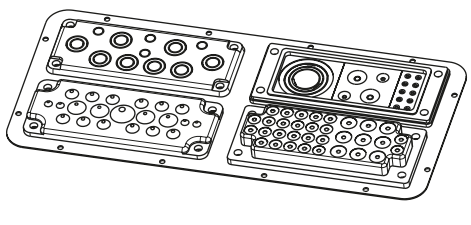


(3)



Our membrane can be easily adapted to fit onto all our metallic enclosures using the adapter plate.

Application example



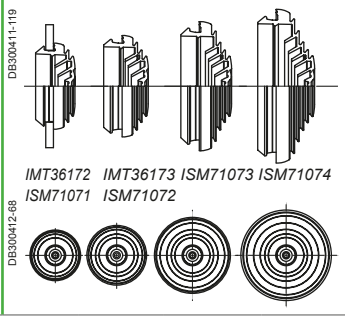
Cable management
Cable entries

Dimensions





Characteristics	Mixed membrane entries for IP55 direct cable entries				PVC adjustable cone-shaped entries										
See page	244				244										
Supply	Minor packaging of 10 pieces				-										
	Ø (mm)		References		Fig.	Ø A	Ø B*	Ø C	Ø D	E	F	Capacity		Supply	References
	Drill hole	Cable / conduit	RAL 9003	RAL 7035								Cable Ø	Tube		
	23	4 - 20	**IMT36130**	**ISM71071**	1	25	21.5	18	5	3.2	13	5 to 18	PG 9 to 11	50	**NSYECPC3**
	29	4 - 25	**IMT36131**	**ISM71072**		33	29.5	26	5	3.2	20	5 to 26	PG 9 to 16	25	**NSYECPC5**
	36	4 - 32	-	**ISM71073**		43	38.5	36	5	3.2	22	5 to 36	PG 9 to 21	25	**NSYECPC6**
	44	4 - 40	-	**ISM71074**	2	70	63	60	28	3	20	28 to 60	PG 21 to 48	10	**NSYECPC9**
						98	90	87	28	3	23	28 to 87	PG 21 to 48	10	**NSYECPC15**



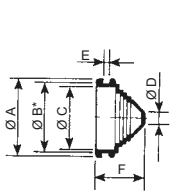


Fig. 1

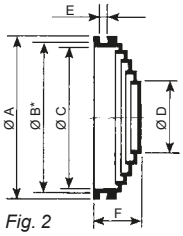
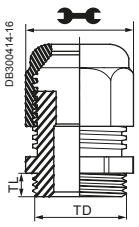


Fig. 2

** Drill-hole for mounting.*



Characteristics	ISO cable-gland					
	The cable-gland (ref. **IMT36150**) is especially recommended for security circuits.					
See page	244					
Supply	■ The cable-glands are supplied with nuts ■ Pack of 20 (M12 to M20), 10 (M25 and M32), 5 (M40)					
Ø	Ø min / max (mm)	Drill Ø (2)	TD	TL		References
M12	3 / 6.5	12.2 (0 + 0.2)	12	6	15	**ISM71501**
M16	5 / 10	16.2 (0 + 0.2)	16	8	19	**ISM71502**
M20	6 / 12	20.2 (0 + 0.2)	20	10	24	**ISM71503**
M20 (1)	6 / 12	20.2 (0 + 0.2)	20	10	24	**IMT36150**
M25	11 / 17	25.2 (0 + 0.2)	25	8	29	**ISM71504**
M32	15 / 21	32.2 (0 + 0.3)	32	10	36	**ISM71505**
M40	19 / 28	40.5 (0 + 0.3)	40	10	46	**ISM71506**



(1) Cable-gland with high resistance to fire.
(2) In brackets: tolerance.

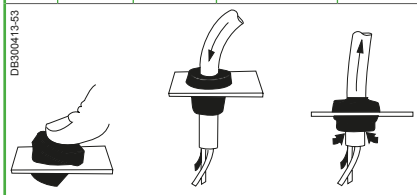
Cable management
Cable entries

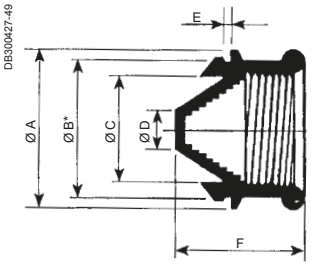
Dimensions


PB500267-70


PB500976-37

Characteristics	IP67 quick cable entries				PVC adjustable cone-shaped entries									
See page	244				244									
	ISO	Ø (mm)		Supply	Ref.	Ø A	Ø B*	Ø C	Ø D	E	F	Capacity		Supply	Ref.
		Drill hole	Cable									Cable Ø	Tube		
	M12	12.5	3 - 5	50	**IMT36179**	25	19.5	16	3	1.2	21	3 to 16	PG 9	50	**NSYEC1**
	M16	16	5 - 7	50	**IMT36180**	27	21.5	18	7	1.2	23	7 to 18	PG 13.5	50	**NSYEC3**
	M20	20.3	7 - 10	50	**IMT36181**	29.5	23.5	20	8	1.2	26	8 to 20	PG 16	25	**NSYEC4**
	M25	25.3	10 - 14	50	**IMT36182**	35	29.5	26	10	1.2	27	10 to 26	PG 21	25	**NSYEC5**
	M32	32.4	14 - 20	50	**IMT36183**	52	48.5	44	13	1.5	30	13 to 44	PG 36	25	**NSYEC7**
	M40	40.7	20 - 26	25	**IMT36184**										
	M50	50.7	26 - 35	25	**IMT36185**										


DB300413-53



DB300427-49

** Drill-hole for mounting.*

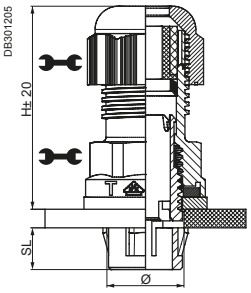

PB503494

New


PB603538-9
PB603539-9

New

Characteristics	Synthetic snap in cable gland							Snap in cable gland disassembling tool
	Wall thickness : E = 0,5 à 4 mm.							Tool to quickly disassemble cable gland.
See page	244							-
Supply	■ The cable-glands are supplied with nuts ■ Pack of 20 (M16 and M20), of 10 (M25 and M32), of 5 (M40)							■ Plastic
Dimensions (mm)							References	References
Ø	Ø min / max	Drill Ø	SL	SD	H			
M16	5/10	16.2 to 16.4	9	15.9	42.5	22	**NSYCGSP16**	**NSYDT16**
M20	6/12	20.2 to 20.4	9	19.9	41.5	24	**NSYCGSP20**	**NSYDT20**
M25	11/17	25.2 to 25.4	9	24.9	43.5	29	**NSYCGSP25**	**NSYDT25**
M32	15/21	32.2 to 32.4	9	31.9	49.5	36	**NSYCGSP32**	**NSYDT32**
M40	19/28	40.2 to 40.4	11.5	39.9	56	46	**NSYCGSP40**	**NSYDT40**

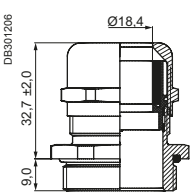


DB301205


PB503493

New

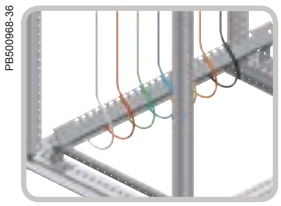
Characteristics	Stainless steel cable gland with lamellar insert							
	Applications: Outdoor, food and beuverage industries, pharmazeutical industry and other sensitive applications.							
See page	244							
Supply	■ The cable-glands are supplied with nuts ■ Pack of 5 (M12 and M16), of 4 (M20 and M25), of 2 (M32 and M40)							
Dimensions (mm)							References	
Ø	Ø min / max	Drill Ø	TD	TL	H		AISI 304L	AISI 316L
M12	3/6.5	12 to 12.2	12	12	22	14	**NSYCGX12**	**NSYCGX12H**
M16	5/10	16 to 16.2	16	12	28.5	20	**NSYCGX16**	**NSYCGX16H**
M20	6/12	20 to 20.2	20	12	24	22	**NSYCGX20**	**NSYCGX20H**
M25	11/17	25 to 25.2	25	12	32.5	27	**NSYCGX25**	**NSYCGX25H**
M32	15/21	32 to 32.3	32	15	36	34	**NSYCGX32**	**NSYCGX32H**
M40	19/28	40 to 40.3	40	15	43.5	43	**NSYCGX40**	**NSYCGX40H**

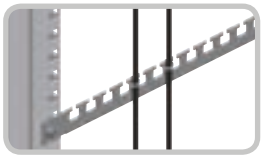


DB301206

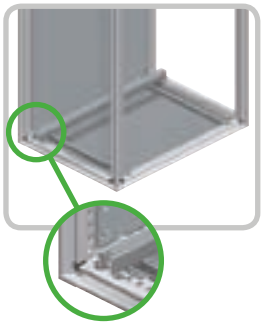
Cable management
Cable holding

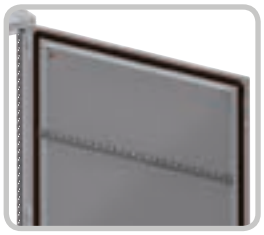
SM SF SMX SFX


PB500968-36

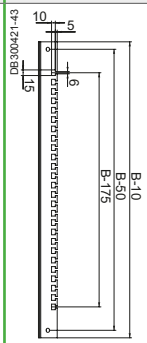

PB500969-41

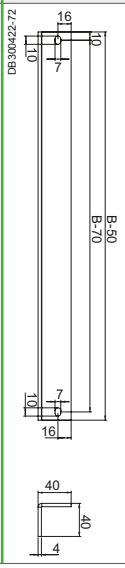

PB500970-42

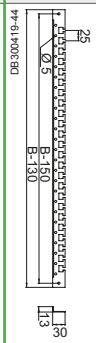

PB500971-32


PB500967-39

Characteristics	Lower cable-guide cross-rail	Cable-guide cross-rails for framework		L-rail for fixing cables	Door cable-guide cross-rail
	■ It allows quick fixing of cables entering and exiting the enclosure. ■ Depth adjustable every 25 mm.	Support types: ■ Angle support at 90°: for vertical cable fixing. ■ Angle support at 120°: for fixing cables near the cable entry.		■ Rail for fixing cables entering from the bottom. ■ Adjustable depth with a pitch of 25 mm. ■ It is not possible to mount it on a plinth cross rail.	■ Recommended for fixing cables in the internal equipment of the door. ■ Height adjustable every 25 mm.
Material	Galvanised steel	Zinc-coated steel		Zinc-coated steel	Zinc-coated steel
Fixing	■ **Spacial SF:** for suitable enclosures with widths of 1200 and 1600 mm, use the adaptation kit for 2-door suitable enclosures, see page 218 ■ **Spacial SM:** for floor-standing enclosures with a width of 1200 mm, a top/bottom mounting rail installed in central position is required ■ **Spacial SFX:** no adaptation piece is required for the 1200 mm suitable enclosures ■ **Spacial SMX:** no adaptation piece is required for the 1600 mm floor-standing enclosures	■ **Spacial SF and SFX:** support for direct mounting on the framework, cross-rails or rails ■ **Spacial SM:** fixing on the bottom mounting rail, or on the floor-standing enclosure by means of adaptation rails and 40 mm universal cross-rails (1 row) in vertical position ■ **Spacial SMX:** fixing on the bottom mounting rail and 40 mm universal cross-rails (1 row) in vertical position		■ **Spacial SF and SFX:** fixing to the bottom frame, above the cable entry, or else to the plinth, using the plinth cross rails, see page 92 ■ **Spacial SM and SMX:** fixing to the bottom adjustment rails, above the cable entry, or else to the plinth, using the plinth cross rails, see page 92 ■ The cables are fixed to the rail by means of metal clamps	■ Direct fixing on the reinforcement frame
Supply	1 cable-guide cross-rail and fixing elements	2 supports and fixing elements		One rail, two mounting supports and fixing elements	2 cable-guide cross-rails and fixing elements
Dimensions (mm)	**References**				
Width (B)		**Support angle**			
500	-	-	-	-	**NSYSDGCR5**
600	**NSYCFP60**	90°	**NSYCFS96**	**NSYFCG60**	**NSYSDGCR6**
		120°	**NSYCFS126**		
800	**NSYCFP80**	90°	**NSYCFS98**	**NSYFCG80**	**NSYSDGCR8**
		120°	**NSYCFS128**		
1000	**NSYCFP100**	-	-	**NSYFCG100**	**NSYSDGCR10**
1200	2 x **NSYCFP60**	-	-	**NSYFCG120**	-
1600	2 x **NSYCFP80**	-	-	**NSYFCG160**	-



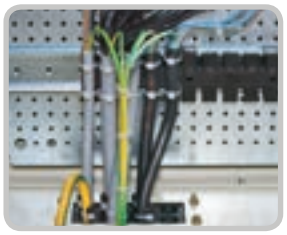




Cable management
Cable holding

S3D S3X

PB500966-46

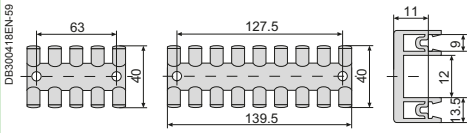


PB500333-37

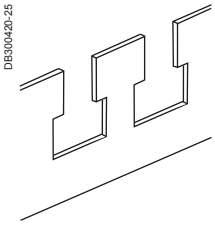


Characteristics	Plastic cable support			Door cable-guide cross-rails for wall-mounting enclosures	
	It clips or screws onto 35 mm symmetric rails or a C-shaped rail.			■ They are installed on wall-mounting enclosures with heights from 400 mm for Spacial S3D and 500 mm for Spacial S3X. ■ They make it easy to equip the inside of the door. ■ Installation cable ties, see page 262.	
Fixing	Quick and easy fixing of cables using cable ties			■ They are fixed to the door reinforcement frame by 2 self-tapping screws. The angle can be directed towards the body of the enclosure or towards the door	
Supply	10 units. Reference by unit. Order by multiples of 10 (10, 20, 30...)			2 cable-guide cross-rails and fixing elements	
Dimensions (mm)	**Support dimensions (mm)**	**Maximum no. of cables**	**References**	**Door dimensions (mm)**	**References**
	Width			**Width**	
	75	5	**NSYSCCDINLG75**	400	**NSYTFPCRN4**
	140	9	**NSYSCCDINLG140**	500	**NSYTFPCRN5**
				600	**NSYTFPCRN6**
				800	**NSYTFPCRN8**
				1000	**NSYTFPCRN10**

DB300418EN-59



DB300420-25



Cable management
Cable ties

P147785



Thorsman cable ties

Description

■ Cable ties are used for a wide range of applications including bundle up and fix cables, conduits and tubing
■ Material PA6.6
■ Available in black and clear colour
■ Max operating temperature -40°C to +85°C
■ Minimum installation temperature -20°C.

Application

■ There are two types of Thorsman cable ties available:
□ made of clear polyamide, for indoor use
□ made of UV-stabilized black polyamide for both indoor and outdoor use

Benefits

- The cable ties are self-locking. They cannot be opened and re-sealed.
- The cable ties have smooth rounded edges for easier handling and safer installation.
- The bent rounded tip allows easier insertion through the head of the cable tie.
- User friendly re-sealable packaging and documented quality.
- Manufactured and tested to EN62275, RoHS compliant.

P147787



Thorsman cable ties (x 100)

Type	Length (mm)	Colour	Qty per package	Ref. No.
Thorsman cable ties				
2.5 mm	100	Clear	100	**IMT46026**
		Black	100	**IMT46033**
	120	Clear	100	**IMT46035**
		Black	100	**IMT46036**
	160	Clear	100	**IMT46074**
		Black	100	**IMT46073**
	200	Clear	100	**IMT46158**
		Black	100	**IMT46157**
3.6 mm	150	Clear	100	**IMT46064**
		Black	100	**IMT46071**
	200	Clear	100	**IMT46149**
		Black	100	**IMT46156**
	300	Clear	100	**IMT46921**
		Black	100	**IMT46922**
4.8 mm	200	Clear	100	**IMT46101**
		Black	100	**IMT46118**
	250	Clear	100	**IMT46918**
		Black	100	**IMT46968**
	300	Clear	100	**IMT46919**
		Black	100	**IMT46969**
	370	Clear	100	**IMT46248**
		Black	100	**IMT46970**
7.6 mm	300	Black	100	**IMT46923**
	380	Clear	100	**IMT46286**
		Black	100	**IMT46293**
8.8 mm	550	Clear	100	**IMT46926**
		Black	100	**IMT46924**
	780	Black	100	**IMT46927**

Thorsman cable ties (x 20)

Type	Length (mm)	Colour	Qty per package	Ref. No.
Thorsman cable ties				
2.5 mm	100	Black	20	**IMT46231**
		Clear	20	**IMT46221**
4.6 mm	200	Black	20	**IMT46232**
		Clear	20	**IMT46222**
4.8 mm	280	Black	20	**IMT46233**
		Clear	20	**IMT46223**
	380	Clear	20	**IMT46224**
		Black	20	**IMT46234**

P148324



P148323



P148326



P148300



Thorsman accessories

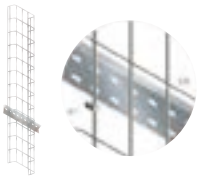
Type	Colour	Qty per package	Dimensions H x W x D (mm)	Ref. No.
Self -adhesive base for fixing of cable ties. There are two sizes base, one for max. tie width 3.6 mm and the other for max. tie width 4.8 mm. Both self-adhesives are using high-end 3M form. There are additional screw-fix option cradle for fixing cable tie and cable tie with identification and marking tab. ■ Material: PA6.6				
Self-adhesive bases				
For max. tie width 3.6 mm	Clear	100	19/19/5.8	**IMT47000**
For max. tie width 4.8 mm	Clear	100	28/28/6.4	**IMT47001**
Cradle				
For max. tie width 7.8 mm	Clear	100	22/16/9.6	**IMT47002**
Cable tie with ID tab				
Cable tie with ID tab 100 x 2.5 mm	Clear	100	100/2.5	**IMT47004**

Cable management
Ducts


PB500962-22


PB500965-37


PB500774-35


PB500961-29

Characteristics	Corrugated cable tube				Spiral cable duct				Lyre-shaped clamps		Steel wired cable tray	
	■ Corrugated tube allowing cable entry between the structure and the door. ■ Free from halogens and heavy metals. ■ UV protection.				■ Spiral strip for bundling cables. ■ Allows cables to enter between the body and the door.				Clip-on clamps designed for direct installation on the 19" racks, Telequick mounting plates and symmetric DIN rails.		Mounting on the cable supports. Dimensions (2 types): ■ 1845 x 200 x 35 mm. ■ 1845 x 200 x 54 mm.	
Material	Low-density polyethylene (LDPE)				-				-		Zinc-coated steel wire	
Colour	Black				Colourless				Black		-	
Supply	One 25 m reel				One 50 m reel				10 units. Reference by unit. Order by multiples of 10 (10, 20, 30...)		1 vertical steel wired cable tray and fixing elements	
	Ø (mm)			**References**	**Tightening range (mm)**	**Ø (mm)**		**References**	**Use**	**References**	**Necessary depth (mm)**	**References**
	Nominal	**Inner**	**Outer**			**Inner**	**Outer**					
	17	16.6	21.2	**NSYCPT17**	12 to 100	9	12	**NSYTC12100**	For Telequick mounting plates and 19" racks	**AK2LA39**	35	**NSYBPC3**
	29	29	34.5	**NSYCPT29**							54	**NSYBPC5**
	37	36	42.4	**NSYCPT37**					For symmetric DIN rail 90 x 2.5 mm cables	**AK2LD01**		
	50	47.7	54.5	**NSYCPT50**								
									For symmetric DIN rail 75 x 2.5 mm cables	**AK2LD02**		

Fixing support for corrugated tube


PB500963-18


PB500964-20

■ Mounting options:
□ directly on the enclosure,
□ on a 19" swing rack and/or on cross-rails, by means of a fixing point.
■ The supports can be assembled with one another to form sets of tubes that allow a better arrangement of the cables.
■ It allows the rotation of the tube once it is fixed on the support and prevents the corrugated tube from coming loose if subject to pulling movements.
■ **Material:** polyamide (PA), black.
■ **Supply:** 10 units and fixing elements. The support is supplied with its cover.

Model (n. Ø)	References
17	**NSYCPTS17**
29	**NSYCPTS29**
37	**NSYCPTS37**
50	**NSYCPTS50**

n. Ø = nominal diameter.

Cable management
Ducts





Characteristics			Cable-duct
			With lateral through slots and rear perforations.
Material			Rigid PVC
Colour			RAL 7030 grey or RAL 5000 blue
Standards			Compliance with standards VDE 0660/506 and DIN 43659
Other characteristics			■ Temperature resistance: -5 ... +60°C ■ Behaviour in fire: material V0 according to UL 94 ■ Fire resistance: 960°C according to IEC 60695-2-1/1 ■ Maximum capacity of H07.V.K 1.5 mm² flexible wire (filling factor: 0.6)
Supply			8 units. Supplied in lengths of 2 m
Width (mm)	**Height (mm)**	**Color**	**References**
25	25	Grey	**AK2GD2525**
	50	Grey	**AK2GD2550**
30	35	Blue	**AK2GA33**
	55	Blue	**AK2GA35**
	90	Blue	**AK2GA39**
	144	Blue	**AK2GA315**
37.5	50	Grey	**AK2GD3750**
	75	Grey	**AK2GD3775**
50	50	Grey	**AK2GD5050**
	75	Grey	**AK2GD5075**
60	55	Blue	**AK2GA65**
	90	Blue	**AK2GA69**
	144	Blue	**AK2GA615**
75	50	Grey	**AK2GD7550**
	75	Grey	**AK2GD7575**
100	75	Grey	**AK2GD10075**
125	75	Grey	**AK2GD12575**

Cable-duct accessories

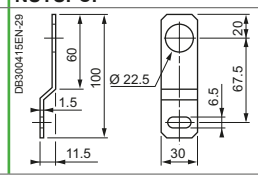
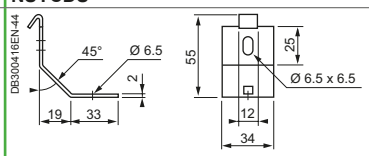


S3D SM SF S3X
SFX SDX PLA



SM SF SD SMX
SFX SDX PLA



Characteristics	Retention bars	Ø 22 mm cable-duct support	Cable-duct support on technical upright
	■ Fixed between 2 cable-duct slats by a hinged screw, preventing cable dropout. ■ They can be cut to length to adapt to the width of the ducting.	Installed on the door of the wall-mounting or floor-standing enclosure associated with Ø 22 mm elements.	Allows cable ducts to be installed on technical uprights, while increasing the usable surface of the equipment (up to 20 % according to the width of the cable duct).
Material	Flameproof high-impact polystyrene	Treated steel	Galvanised steel
Supply	50 units. Reference by unit. Order by multiples of 50 (50, 100, 150...)	10 units. Reference by unit. Order by multiples of 10 (10, 20, 30...)	10 units. Reference by unit. Order by multiples of 10 (10, 20, 30...)
References			
	NSYCDRB	**NSYSPCP**	**NSYCDS**
			

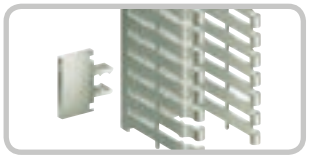
Cable management
Ducts


PB501811-49


PB501812-41

	Covers for cable-duct
	Replacement covers.
	Rigid PVC
	RAL 7030 grey or RAL 5000 blue
	Compliance with standards VDE 0660/506 and DIN 43659
	■ Temperature resistance: -5 ... +60°C ■ Behaviour in fire: material V0 according to UL 94 ■ Fire resistance: 960°C according to IEC 60695-2-1/1 ■ Maximum capacity of H07.V.K 1.5 mm² flexible wire (filling factor: 0.6)
	8 unit. Supplied in lengths of 2 m
	AK2CD25
	AK2CA3
	AK2CD37
	AK2CD50
	AK2CA6
	AK2CD75
	AK2CD100
	AK2CD125

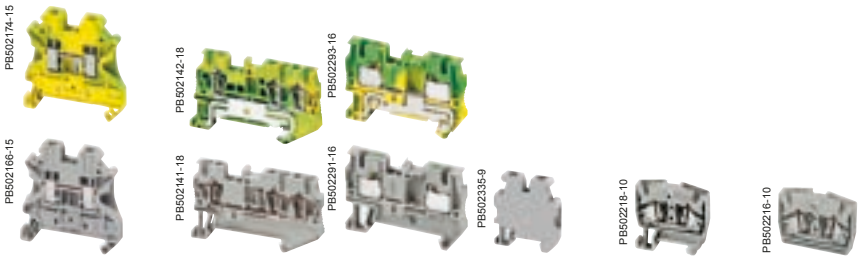

PB500775-40


PB500959-50


PB500960-40

	Plastic cable-duct support	Label frame	Insulated-head screw
	■ Clips onto the Telequick mounting plate or the 35 mm DIN rail. ■ Includes a bolt for fixing the cable ducts through the 6.5 x 14 mm drill holes made in the back. ■ The 2 functions, clipping and bolting, provide considerable time savings. ■ Respects electrical insulation.	In transparent plastic, clipping onto the slats of the cable ducts.	■ M5 x 10 mm slotted hexagonal head. ■ Respects electrical insulation.
	Black polyamide. Behaviour in fire: V0 according to UL 94	Polycarbonate	-
	20 units. Reference by unit. Order by multiples of 20 (20, 40, 60...)	■ 50 units. Reference by unit. Order by multiples of 50 (50, 100, 150...) ■ Paper labels supplied	100 units. Reference by unit. Order by multiples of 100 (100, 200, 300...)
	NSYSPC	**NSYCDL**	**NSYSM10M5HP**
	DB300417-25 15 15 40 24		

Terminal blocks
Selection guide



Characteristics			Connection technology					
References								
Type of terminal block	**Cross section area**	**Colour**	**Screw tech**	**Spring tech**	**Push-in tech**	**Miniature screw for 15 mm DIN rail**	**Miniature spring for 15 mm DIN rail**	**Miniature spring for direct mount**
Passthrough	2.5 mm² (2 pts)	Grey	**NSYTRV22**	**NSYTRR22**	**NSYTRP22**	**NSYTRV22M**	**NSYTRR22M**	**NSYTRR22MF**
		Blue	**NSYTRV22BL**	**NSYTRR22BL**	**NSYTRP22BL**	**NSYTRV22MBL**	**NSYTRR22MBL**	**NSYTRR22MFBL**
		Orange	**NSYTRV22AR**	**NSYTRR22AR**	**NSYTRP22AR**	-	-	**NSYTRR22MFF***
	2.5 mm² (3 pts)	Grey	-	**NSYTRR23**	**NSYTRP23**	-	-	-
		Blue	-	**NSYTRR23BL**	**NSYTRP23BL**	-	-	-
		Orange	-	**NSYTRR23AR**	**NSYTRP23AR**	-	-	-
	2.5 mm² (4 pts, 1 level)	Grey	-	**NSYTRR24**	**NSYTRP24**	-	**NSYTRR24M**	**NSYTRR24M**
		Blue	-	**NSYTRR24BL**	**NSYTRP24BL**	-	**NSYTRR24MBL**	**NSYTRR24MBL**
	2.5 mm² (4 pts, 2 levels)	Grey	**NSYTRV24D**	**NSYTRR24D**	**NSYTRP24D**	-	-	-
		Blue	**NSYTRV24DBL**	**NSYTRR24DBL**	**NSYTRP24DBL**	-	-	-
	4 mm² (2 pts)	Grey	**NSYTRV42**	**NSYTRR42**	**NSYTRP42**	**NSYTRV42M**	-	-
		Blue	**NSYTRV42BL**	**NSYTRR42BL**	**NSYTRP42BL**	**NSYTRV42MBL**	-	-
		Orange	**NSYTRV42AR**	**NSYTRR42AR**	-	-	-	-
	4 mm² (3 pts)	Grey	**NSYTRV43**	**NSYTRR43**	**NSYTRP43**	-	-	-
		Blue	**NSYTRV43BL**	**NSYTRR43BL**	**NSYTRP43BL**	-	-	-
		Orange	**NSYTRV43AR**	-	-	-	-	-
	4 mm² (4 pts, 1 level)	Grey	**NSYTRV44**	**NSYTRR44**	**NSYTRP44**	-	-	-
		Blue	**NSYTRV44BL**	**NSYTRR44BL**	**NSYTRP44BL**	-	-	-
	4 mm² (4 pts, 2 levels)	Grey	**NSYTRV44D**	**NSYTRR44D**	-	-	-	-
		Blue	**NSYTRV44DBL**	**NSYTRR44DBL**	-	-	-	-
	6 mm² (2 pts)	Grey	**NSYTRV62**	**NSYTRR62**	-	-	-	-
		Blue	**NSYTRV62BL**	**NSYTRR62BL**	-	-	-	-
	10 mm² (2 pts)	Grey	**NSYTRV102**	**NSYTRR102**	-	-	-	-
		Blue	**NSYTRV102BL**	**NSYTRR102BL**	-	-	-	-
	16 mm² (2 pts)	Grey	**NSYTRV162**	**NSYTRR162**	-	-	-	-
		Blue	**NSYTRV162BL**	**NSYTRR162BL**	-	-	-	-
	150 mm² (2 pts)	Grey	**NSYTRV1502BB**	-	-	**NSYTRV22MPE**	**NSYTRR22MPE**	-
Earth protection	2.5 mm² (2 pts)	Green	**NSYTRV22PE**	**NSYTRR22PE**	**NSYTRP22PE**	-	-	-
	2.5 mm² (3 pts)	Green	-	**NSYTRR23PE**	**NSYTRP23PE**	-	-	-
	2.5 mm² (4 pts)	Green	-	**NSYTRR24PE**	**NSYTRP24PE**	-	-	-
	4 mm² (2 pts)	Green	**NSYTRV42PE**	**NSYTRR42PE**	**NSYTRP42PE**	**NSYTRV42MPE**	-	-
	4 mm² (3 pts)	Green	**NSYTRV43PE**	**NSYTRR43PE**	**NSYTRP43PE**	-	-	-
	4 mm² (4 pts)	Green	**NSYTRV44PE**	**NSYTRR44PE**	**NSYTRP44PE**	-	-	-
	6 mm² (2 pts)	Green	**NSYTRV62PE**	**NSYTRR62PE**	-	-	-	-
	10 mm² (2 pts)	Green	**NSYTRV102PE**	**NSYTRR102PE**	-	-	-	-
	16 mm² (2 pts)	Green	**NSYTRV162PE**	**NSYTRR162PE**	-	-	-	-
Knife disconnect	2.5 mm² (2 pts)	Grey	**NSYTRV42ST** (1)	**NSYTRR22SC**	**NSYTRP22SC**	-	-	-
		Orange	**NSYTRV42STAR** (1)	**NSYTRR22SCAR**	-	-	-	-
	2.5 mm² (3 pts)	Grey	-	**NSYTRR23SC**	**NSYTRP23SC**	-	-	-
		Orange	-	**NSYTRR23SCAR**	-	-	-	-
	2.5 mm² (2 levels)	Grey	**NSYTRV42SCD** (1)	**NSYTRR24SCD**	-	-	-	-
Fuse disconnect	4 mm² (2 pts) 5 x 20 mm fuse	Black	**NSYTRV42SF5**	-	-	-	-	-
		Black (12 V)	**NSYTRV42SF5LD** (2)	-	-	-	-	-
		Black (230 V)	**NSYTRV42SF5LA** (2)	-	-	-	-	-
Basic disconnect (3)	4 mm² (2 pts)	Grey	**NSYTRV42TB**	**NSYTRR22TB**	**NSYTRP42TB**	-	-	-
Measuring transducer	6 mm² (2 pts) disconnect	Grey/Orange	**NSYTRV62TTD**	-	-	-	-	-
	6 mm² (2 pts)	Grey	**NSYTRV62TT**	-	-	-	-	-
	6 mm² (2 pts)	Green	**NSYTRV62TTPE**	-	-	-	-	

** Grey terminal with flange.*
(1) 4 mm² terminal, with 2 test points.
(2) With light indicator.
(3) Fuse or component carrier not supplied.

Terminal blocks
Selection guide


PB502217-10


PB502273-17


PB502245-28


PB502127-17


PB502336-20


PB503378-4
PB503379-20

		Accessories				
	Miniature spring for direct mount	End plate for screw TBs	End plate for spring TBs	End plate for push-in TBs	Plug-in bridge	Marking strips 10 characters
	NSYTRR22MP	NSYTRAC22	NSYTRACR22	NSYTRACR22	NSYTRAL22 NSYTRAL23 NSYTRAL24 NSYTRAL25 NSYTRAL210 NSYTRAL210BL NSYTRAL210GR NSYTRAL220	NSYTRAB510 NSYTRAB520 NSYTRAB530 NSYTRAB540 NSYTRAB550 … NSYTRAB590 NSYTRAB5100 NSYTRAB51100
	NSYTRR22MPBL	NSYTRAC22BL	NSYTRACR22BL	NSYTRACR22BL		
	-	-	-	-		
	-	-	NSYTRACR23	NSYTRACR23		
	-	-	NSYTRACR23BL	NSYTRACR23BL		
	-	-	-	-		
	NSYTRR24MP	-	NSYTRACR24	NSYTRACR24		
	NSYTRR24MPBL	-	NSYTRACR24BL	NSYTRACR24BL		
	-	NSYTRACE24	NSYTRACRE24	NSYTRACRE24		
	-	-	-	-		
	-	NSYTRAC22	NSYTRACR42	NSYTRACR42	NSYTRAL42 NSYTRAL43 NSYTRAL44 NSYTRAL45 NSYTRAL410 NSYTRAL410BL NSYTRAL410GR NSYTRAL420	NSYTRAB610 NSYTRAB620 NSYTRAB630 NSYTRAB640 NSYTRAB650 … NSYTRAB690 NSYTRAB6100 NSYTRAB61100
	-	NSYTRAC22BL	-	-		
	-	-	-	-		
	-	NSYTRAC23	NSYTRACR43	NSYTRACP43		
	-	-	-	-		
	-	-	-	-		
	-	NSYTRAC24	NSYTRACR44	NSYTRACP44		
	-	-	-	-		
	-	NSYTRACE24	NSYTRACRE44	-		
	-	-	-	-		
	-	NSYTRAC22	NSYTRACR62	-	NSYTRAL62	NSYTRAB810
	-	NSYTRAC22BL	-	-	NSYTRAL610	NSYTRAB820
	-	NSYTRAC22	NSYTRACR102	-	NSYTRAL102	NSYTRAB1010
	-	NSYTRAC22BL	-	-	-	NSYTRAB1020
	-	NSYTRAC162	NSYTRACR162	-	NSYTRAL162	NSYTRAB1010
	-	-	-	-	-	NSYTRAB1020
	-	NSYTRAC952	-	-	NSYTRAL1502	-
	-	NSYTRAC22	NSYTRACR22	NSYTRACR22		
	-	-	NSYTRACR23	NSYTRACR23		
	-	-	NSYTRACR24	NSYTRACR24		
	-	NSYTRAC22	NSYTRACR42	NSYTRACR42		
	-	NSYTRAC23	NSYTRACR43	NSYTRACP43		
	-	NSYTRAC24	NSYTRACR44	NSYTRACP44		
	-	NSYTRAC22	NSYTRACR62	-		
	-	NSYTRAC22	NSYTRACR102	-		
	-	NSYTRAC162	NSYTRACR162	-		
	-	Included	NSYTRACR23	NSYTRACPK22		
	-	Included	-	-		
	-	-	NSYTRACR24	NSYTRACPK23		
	-	-	-	-		
	-	NSYTRACE24	Included	-		
	-	Included	-	-		
	-	Included	-	-		
	-	Included	-	-		
	-	Included	NSYTRACR23	NSYTRACR42		
	-	NSYTRACT22	-	-		
	-	NSYTRACT22	-	-		
		NSYTRACT22	-	-		

Cable ends compatible with all technologies	
Wires Cross section area	References
0.5 mm²	DZ5CE005 DZ5CA005
0.75 mm²	DZ5CE007 DZ5CA007
1 mm²	DZ5CE010 DZ5CA010
1.5 mm²	DZ5CE015 DZ5CA015
2.5 mm²	DZ5CE025 DZ5CA025
4 mm²	DZ5CE042 DZ5CA042
6 mm²	DZ5CE062 DZ5CA062
10 mm²	DZ5CA102
16 mm²	DZ5CA162
35 mm²	DZ5CA352
50 mm²	DZ5CA502

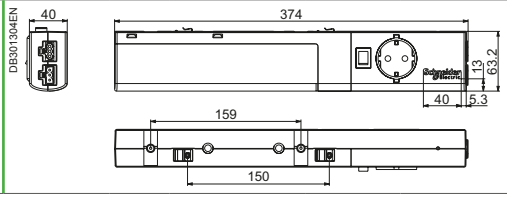
Lighting and power sockets
LED lamps

New



Characteristics	Multi-Fixing LED Lamps
	This LED lamps are designed to optimise the life time, consumption, space and accessibility inside the enclosure, as well as having three fixing option as standard.
Colour	Black RAL 9005
Ingress protection rating	IP20 according to IEC60529
Standards	■ IEC 60598 ■ UL 94: for plastic components ■ UL508A: Control Panel ■ UL1598: Lamps ■ UL8750: LED for lighting ■ EN55015: EMC
Other characteristics	■ Built-in switch ■ Power consumption: 10 W ■ Frequency: 50/60 Hz ■ Power factor: □ V AC lamps: 0,9 □ V DC lamps: 1 ■ Luminosity: 640 lm* ■ Light Temperature: 4000 K* ■ LED service life: 25000 h* ■ Casing: Plastic UL94 V-0 ■ Degree of insulation: □ Class I - Lamps with socket □ Class II - Lamps without socket ■ Compliant with RoHS and Reach ■ Ambiance temperature: □ Operating: -16°C to +65°C (-3°F to +149°F) □ Storage: -10°C to +60°C (-14°F to +140°F) ■ Max. 2 Apms and 5 lamps in serial connection
Connections	■ 3 m power black or orange cable with quick connector (Not supplied. See reference below) ■ 1.5 m interconnection black or orange cable with quick connectors (Not supplied. See reference below) According to the directive IEC 60204-1: ■ Black cables: power circuits for switch or DC voltage. ■ Orange cables: external voltage that may be present even if the cabinet is turned off.
Supply	1 lamp and fixing elements

	Lamps			Cables				
Lamp model	**Socket**		**References**	**Standard**	**Black cables**		**Orange cables**	
					Power (3 m)	**Interconnection (1.5 m)**	**Power (3 m)**	**Interconnection (1.5 m)**
With socket 120 / 230 V AC	SCHUKO		**NSYLAMLDS**	IEC	**NSYLAM3M**	**NSYLAM1M**	**NSYLAM3MN**	**NSYLAM1MN**
	UTE		**NSYLAMLDF**		**NSYLAM3M**	**NSYLAM1M**	**NSYLAM3MN**	**NSYLAM1MN**
	British		**NSYLAMLDB**		**NSYLAM3M**	**NSYLAM1M**	**NSYLAM3MN**	**NSYLAM1MN**
	USA		**NSYLAMLDU**	UL	**NSYLAM3MUL**	**NSYLAM1MUL**	**NSYLAM3MULN**	**NSYLAM1MULN**
Without socket 120 / 230 V AC	-	-	**NSYLAMLD**	IEC	**NSYLAM3M**	**NSYLAM1M**	**NSYLAM3MN**	**NSYLAM1MN**
				UL	**NSYLAM3MUL**	**NSYLAM1MUL**	**NSYLAM3MULN**	**NSYLAM1MULN**
Without socket With presence detection 230 V AC	-	-	**NSYLAMLDD**	IEC	**NSYLAM3M**	**NSYLAM1M**	**NSYLAM3MN**	**NSYLAM1MN**
				UL	**NSYLAM3MUL**	**NSYLAM1MUL**	**NSYLAM3MULN**	**NSYLAM1MULN**
Without socket - DC 24-48 V DC	-	-	**NSYLAMLDVDC**	IEC	**NSYLAM3MDC**	**NSYLAM1MDC**	-	-
				UL	**NSYLAM3MDCUL**	**NSYLAM1MDCUL**	-	-



** Approximate values.*



Rack for VDI

- 1 U, 19" rack. For lamp installation in VDI enclosures.
- **Supply:** supplied with fixing elements.

Reference
NSYLAM1U

Fixing options



Fixing by sliding brackets.



Fixing to DIN rail.



Magnetic fixing.

Lighting and power sockets
LED lamps

New



AC model



AC model



DC model



DC model

Characteristics	3 pole female connectors	3 pole male connectors
	Designed to connect Multi-Fixing LED Lamps.	
Colour	AC: Black DC: Black (body) and brown (head)	
Ingress protection rating	IP20	
Rated current	16 A	
Rated voltage	250 V	
Strain relief	Yes	
Connection type for cabling	Screw connection	
Material	Polyamide	
Dimensions	■ Length: 53.2 mm ■ Width: 23 mm ■ Height: 13.8 mm	
Connection data	■ Cable diameter: 9 mm ■ Cable diameter 2: 5.5 mm ■ Cross section solid: 2.5 mm² ■ Cross section solid 2: 0.5 mm² ■ Connection cross section stranded (max.): 2.5 mm² ■ Cross section stranded 2: 0.5 mm²	
References		
AC model	**NSYLAMACF**	**NSYLAMACM**
DC model	**NSYLAMDCF**	**NSYLAMDCM**

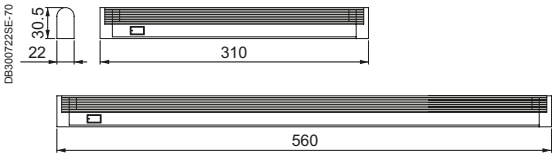
Lighting and power sockets
LED lamps

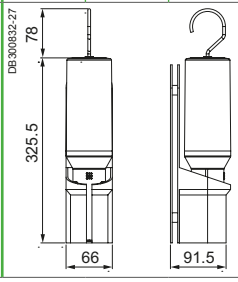




Characteristics	Cost-effective LED Lamps	Portable LED lamp
	This LED lamp is designed to optimise the cost benefit relation and can be used in almost all enclosures respecting the dimensions. It can be interconnected using a single power source: ■ 5 W lamps: max. 10 lamps interconnected, ■ 10 W lamps: max. 5 lamps interconnected.	This LED portable lamp is designed to be installed as enclosure lamp or maintenance lamp bringing mobility, resistance, versatility and durability. ■ Double function: □ internal enclosure lamp, □ maintenance lamp.
Colour	Aluminium	Black RAL 9005
Ingress protection rating	IP20 according to IEC60529	IP20 according to IEC60529
Standards	■ IEC 60598	■ IEC 60598 ■ UL 94: for plastic components
Other characteristics	■ Built-in switch ■ Light Temperature: 4000 K* ■ LED service life: 25000 h* ■ Casing: □ Plastic for transparent cover and connectors □ Aluminium for body ■ Degree of insulation: Class I ■ Compliant with RoHS and Reach ■ Ambiance temperature: □ Operating: -16°C to +65°C (-3°F to +149°F) □ Storage: -10°C to +60°C (-14°F to +140°F)	■ E27 LED lamp ■ Built-in recessed switch ■ Light temperature: 4000 K* ■ LED service life: 25000 h* ■ Power cable 3 m long with male plug (European standard type) ■ Casing: plastic, UL94 V-0 ■ Degree of insulation: Class II ■ Compliant with RoHS and Reach ■ Ambiance temperature: □ Operating: -16°C to +65°C (-3°F to +149°F) □ Storage: -10°C to +60°C (-14°F to +140°F)
Supply	■ 1 lamp and fixing elements ■ 3 m connection cable with quick connector ■ 1 m interconnection cable with quick connectors	■ 1 lamp with 3 m power cable with European universal plug ■ 1 fix base ■ Fixing elements

Voltage	Power	Power factor	Frequency	Luminous flux	References	Power	Power factor	Frequency	Luminous flux	Reference
(V)	(W)		(Hz)	(lm)*		(W)		(Hz)	(lm)*	
120/230 V AC	5	0.8	50-60	500	**NSYLAMT5LD1**	10	0,5	50-60	1100	**NSYLAMPORTLD**
	10	0.9	50-60	1100	**NSYLAMT5LD2**					
24/48 V DC	5	1	-	470	**NSYLAMT5LD1VDC**	-	-	-	-	-





** Approximate values.*

Fixing options



Magnetic fixing.



Fixing by adapter brackets.

Use options



Fixing by adhesive or by screws.



Used on workbench.

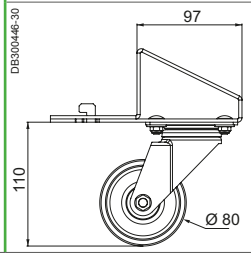
Floor accessories
Casters and feet for floor-standing enclosures

SM SF SD
SMX SFX SDX





Characteristics	Transport casters*	Enclosure casters
	■ Quick installation on plinths with heights of 100 and 200 mm, except the plinth for enclosure sets. ■ They can be installed in front or side position. ■ Clipping and fixing to the corner by screws. ■ For use on flat surfaces. ■ Height: 110 mm.	■ Double casters. ■ Height: 92 mm. ■ Diameter: 64 mm.
Maximum load	200 kg	135 kg per caster 1000 kg when it is installed directly on the upright, 400 kg when it is installed on the frame
Supply	4 transport casters (2 with a blocking system) and fixing elements	4 casters and fixing elements
References		
	NSYSTW	**NSYSW**

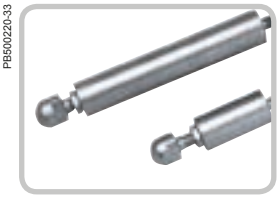


** Only for Spacial SM, SF and SD.*

SM SF SD
SMX SFX SDX







Characteristics	Levelling feet		Hygienic stainless-steel feet
	Fixed	**Adjustable**	
	Height: 42 mm.	Height: 22 mm.	Hygienic feet specific for harsh environments. Adjustable: 140 to 200 mm.
Material	Steel	-	316L stainless steel
Maximum load	400 kg		800 kg
Supply	Set of 4 floor feet		Set of 4 hygienic feet
References			
	NSYSPSJ	**NSYSPRJ**	**NSYPHX200**

Door accessories
Switches and pockets

Switches

S3D S3X

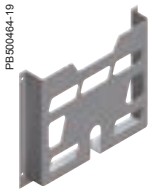


SM SF SFX



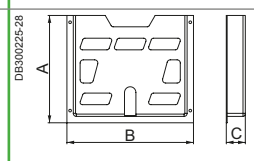
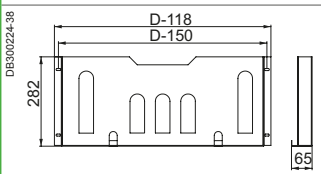
Characteristics	Door switch for wall-mounting enclosures	Door switch for floor-standing enclosures	
	■ Switch/commutator unit equipped with support and fixings for direct fixing to the enclosure. ■ Can be used to control lighting, air-conditioning units, etc. ■ It is not compatible with installing the 19" swing rack and the internal door. ■ NC + NO contact, 10 A/500 V.	■ The switch is fixed to the structure of the enclosure. ■ Drilled M20 cable entry for cable gland. ■ NC + NO contact, 10 A/500 V.	
Supply	1 door switch and fixing elements	1 door switch and fixing elements	
	Reference	**For ranges**	**References**
	NSYINLCRN	SF & SFX	**NSYDCM20**
		SM	**NSYMDCM20**

Pockets



SM SF SMX SFX



Characteristics				Plastic document pocket	Metal document pocket
				Attachment made by adhesive tape.	Direct fixing on the door reinforcement frame. Height adjustable in steps of 25 mm.
Material				Polystyrene (PS)	Steel
Finish				-	Structured finish, epoxy-polyester powder
Colour				RAL 7035 grey (NSYDPA4: RAL 9001)	RAL 7035 grey
Maximum load				-	-
Supply				1 plastic document pocket	1 metal document pocket and fixing elements
Dimensions (mm)				**References**	
Doc. format	**A**	**B**	**C**		
A5	174	188	22	**NSYDPA5**	-
A4	230	247	23	**NSYDPA4**	-
A4	234	278	40	**NSYDPA44** (1)	-
A3	285	476	35	**NSYDPA3**	-
Width (D)					
600				-	**NSYSDP6M**
800				-	**NSYSDP8M**
					

(1) Not compatible with 19" chassis or modular distribution.

Door accessories

Door accessories for floor-standing enclosures

SM SF SMX SFX



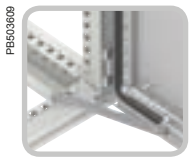




SM



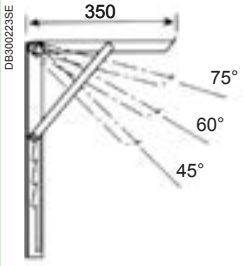
SF

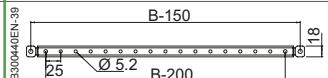




Characteristics	Folding support tray	Door cross rails	Floor-standing door retainer
	■ Adjustable horizontal support for laptop computers, documents or any other elements. ■ Mounting on the door reinforcement frame. ■ It can also be mounted on door cross-rails. ■ Height adjustable in steps of 25 mm. ■ In 1000-mm-wide enclosures, any size can be mounted using door cross-rail ref. NSYSDCR10. ■ 4 positions: 45°, 60°, 75° and 90°.	■ Direct mounting cross rails on the profiles of the reinforcement frame of the door. ■ Adjustable height with a pitch of 25 mm.	■ Door blocker at the opening limit. ■ It is fixed directly to the front frame of the enclosure and to the reinforcement frame of the door. ■ It can be installed on doors that open both to the right and to the left.
Material	Steel	Galvanised steel	-
Finish	Structured finish, epoxy-polyester powder	-	-
Colour	RAL 7035 grey	-	-
Thickness	15/10e mm	20/10e mm	-
Maximum load	30 kg	-	-
Supply	1 folding support tray and fixing elements	2 cross rails and bag of fixings	Door stop and fixing elements

Dimensions (mm)	References				
Width (B)					
400	-	**NSYSDCR4**	-		
500	**NSYSDT5**	**NSYSDCR5**	-		
600	**NSYSDT6**	**NSYSDCR6**	-		
800	**NSYSDT8**	**NSYSDCR8**	-		
1000	-	**NSYSDCR10**	-		
Door stop model			**For enclosures**	**Limit**	**References**
Mechanical	-	-	Spacial SF	90° and 120°	**NSYSFMDR**
	-	-	Spacial SM	90°	**NSYSMDR**
Pneumatic	-	-	Spacial SF	120°	**NSYSFNDR**
	-	-	Spacial SM	90° and 120°	**NSYSMNDR***





** Compatible with SFX.*

Door accessories

Door accessories for wall-mounting enclosures

S3D

PB500223-45



S3D

PB500993-40

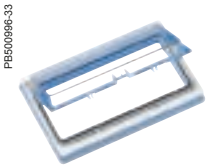


Characteristics	Wall-mounting door retainer	
	Steel	**Polyamide**
	To block the door in the open position. ■ It is installed on enclosures with heights from 400 mm and widths from 300 mm. ■ Door opening angle: 120°. ■ Earthing connection of the enclosure by means of the reinforcement rail. ■ Earthing accessories supplied with the enclosure (earth-connection wire to be ordered separately), see page 277. ■ Warning: cannot be installed on 19" mounting plates or on enclosures equipped with internal door.	To block the door in the open position. ■ It is installed on the perforated rails of the enclosure doors at the required height. ■ It is only installed on enclosures with a height of less than 400 mm (no perforated rails).
Material	Steel	Polyamide 6 (PA6)
References		
	NSYAEDRSCST	**NSYAEDRS3DPA6**

Door accessories
Windows







Characteristics	Window for modular equipment								Plastic window
	They provide viewing and access to the inside of the enclosure while keeping the IP65 protection degree.								Plastic window with hinged cover for installation on front panel. ■ External dimensions: 213 x 133 mm. ■ Internal dimensions of the window: 180 x 78 mm.
Material	Transparent polycarbonate								■ Cover: polycarbonate ■ Body: PVC
Ingress protection rating	IP65 according to IEC 60529								IP55 according to IEC 60529
Supply	1 window								1 plastic window delivered with a drilling template
	N.° of modules	**Fig. n.°**	**A**	**B**	**C**		**References**		**Reference**
					Low cover	**High cover**	**Low cover**	**High cover**	
	2	1	78	60	15	25	**NSYVA272M**	**NSYVA272MA**	**NSYMW10M**
	4	1	78	95	15	25	**NSYVA274M**	**NSYVA274MA**	
	6	1	78	130	15	25	**NSYVA276M**	**NSYVA276MA**	
	8	1	78	165	15	25	**NSYVA278M**	**NSYVA278MA**	
	10	1	78	200	15	25	**NSYVA2710M**	**NSYVA2710MA**	
	12	1	78	235	15	25	**NSYVA2712M**	**NSYVA2712MA**	
	16	2	195	165	13	-	**NSYVA2716M**	-	
	24*	2	196	235	13	-	**NSYVA2724M**	-	

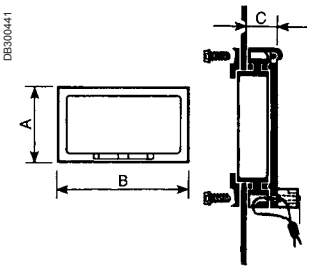


Fig. 1

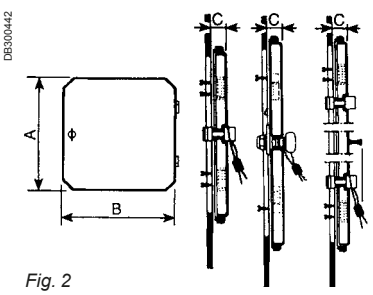


Fig. 2

** In 2 rows.*

Door accessories
Windows


PB502001-34


PB502728-24

Characteristics	Plastic window for modular equipment	Control window
	Frame with transparent hinged cover for mounting modular switchgear on the front panel. Opening: 46 x 180 mm (10 modules).	■ To prevent accidental handling of the control units by any unauthorised person. ■ Allows all the displayed information to be read without opening the door. ■ Equipped with hinges for opening (180°). ■ Closure by a n° 2233X lock. ■ Indoor and outdoor installation.
Material	■ Cover: polycarbonate ■ Body: PVC	Aluminium frame and 3-mm acrylic window
Ingress protection rating	IP55 according to IEC 60529	IP55 according to IEC 60529
Supply	1 modular front panel	1 window, fixings and instruction sheet

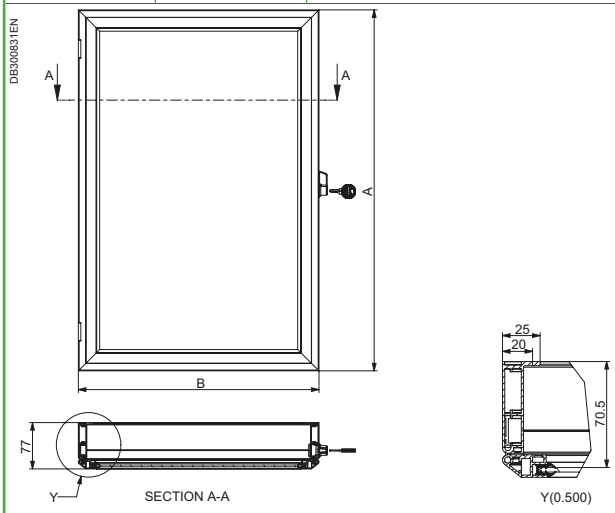
Reference	Dimensions (mm)		References
	A	B	
NSYMW10MK	300	300	NSYCW33
	400	400	NSYCW44
		500	NSYCW45
		600	NSYCW46
	500	400	NSYCW54
		500	NSYCW55
		600	NSYCW56
	600	500	NSYCW65
		600	NSYCW66
	800	600	NSYCW86



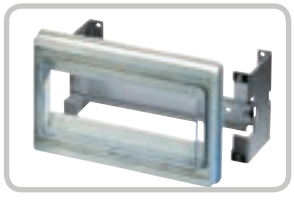
Kit for fixing the switchgear

■ The unit is delivered assembled.
■ **Supply:** 1 DIN rail and two supports.

Reference
NSYMW10MR

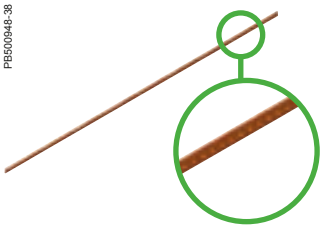


Mounting example


PB500997-39

NSYMW10MK + NSYMW10MR.

Other accessories
Earthing accessories



SM SF SD SMX SFX SDX



Characteristics	Earthing strip	Central earthing point
	■ Perforated brass bar, 15 x 3 mm. ■ 1 m long. ■ 87 connection points, M5 drill holes.	■ Connects earthing braids and cables to the structure of the enclosure. ■ The earth connection is made by means of the M8 x 18 mm bolt.
Fixing	-	Fixing to the structure by means of self-tapping screws
Supply	1 earthing strip and fixing elements	1 central earthing point, elements for fixing to the structure, and fixings for fixing to the bolt
References		
	NSYECB1M153	**NSYCEP**

S3D S3X

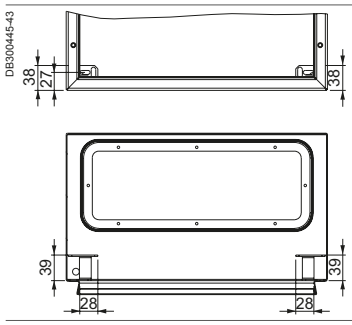


Fixing lugs for the earthing strip

■ They allow the mounting of an earth-collector rail or a DIN rail at the top and bottom of an enclosure.
■ Mounting incompatible with certain accessories. Please consult us.
■ **Fixing:** on holes made in the gutter of the enclosure.
■ **Supply:** 2 lugs and fixings.

Reference

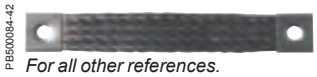
NSYEDCOS



Other accessories
Earthing and paint accessories


PB503659-39

For NSYEB2050D8.


PB500084-42

For all other references.


PB500217-32

Characteristics				Earth braids	Earth cables
				Guarantee the earth connection for high frequencies, avoiding the disturbing electric currents that are produced.	Make it easier to install a safe earth connection, with a perfect contact, with optimised length.
Material				Tinned copper	Brass and copper alloy terminal, green and yellow PVC insulating sheath
Supply				10 earth braids (nuts and washers not included). Reference by unit. Order by multiples of 10 (10, 20, 30...)	10 earth cables (nuts and washers not included). Reference by unit. Order by multiples of 10 (10, 20, 30...)
Length (mm)	**Width (mm)**	**Section (mm²)**	**Terminal Ø (mm)**	**References**	
130	-	6	6.4	-	**NSYEL136D6**
150	12	6	6.5	**NSYEB156D6**	-
	17	10	6.5	**NSYEB1510D6**	-
155	17	16	8.5	**NSYEB1516D8**	-
160	-	6	6.4	-	**NSYEL166D6**
	-	6	8.3	-	**NSYEL166D8**
170	-	10	8.3	-	**NSYEL1710D6**
200	27	25	8.5	**NSYEB2025D8**	-
	33	50	8.5	**NSYEB2050D8**	-
220	-	6	6.4	-	**NSYEL226D6**
	-	6	13	-	**NSYEL226D13**
	-	25	8.3	-	**NSYEL2225D8**
250	-	10	6.4	-	**NSYEL2510D6**
350	-	25	8.3	-	**NSYEL3525D8**


PB500221-19


PB501003-37


PB500191-25

Characteristics	Aerosol paint can	Paint touch-up	Renovation and anti-graffiti paint		
	■ Air-drying paint. ■ Content: 150 g.	■ Paint for touching up with a brush. ■ Air-drying paint.	Paint kit with 2 components (base 80 % + hardener 20 %), specially designed for polyester enclosures, for their renovation and/or as prevention to allow removal of graffiti.		Solvent for diluting the paint and cleaning the utensils.
Supply	-	-	The 1 kg reference includes 1 pot with 800 g of base paint and 200 g of hardener (It is enough to paint a surface of around 5 m²)	The 5 kg reference includes 1 pot with 4 kg of base paint and 1 kg of hardener (It is enough to paint a surface of around 25 m²)	1 kg
Colour	**References**				
RAL 7032	**NSYBPA7032**	**NSYTUP7032**	-	-	-
RAL 7035	**NSYBPA7035**	**NSYTUP7035**	**NSYAUPG1G**	**NSYAUPG5G**	**NSYAUPGS**

Applicative and customised solutions

Applicative and customised solutions
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Enclosures for power distribution (terminal blocks)
Introduction

> The **Spacial S3DB enclosure** is made to be equipped with terminal blocks. It is ready to be equipped with a ladder mounting plate and a symmetrical DIN rail (to be ordered separately). The body does not have cable gland opening.
The **Spacial S3DB enclosure** is the ideal coupling enclosure with FL21 cut-out.

PB500228-90



Safety
Welding studs on door and body (earth cables to be ordered separately).

PB500228-35



Smart
Example of installation with the ladder mounting plate.

PB500200-42



Vertical position.

PB500230-45



Horizontal position.

PB500201-50



Terminal blocks
Characteristics





Characteristics	Spacial S3DB	Spacial S3DBFL
	Body Single-piece body, folded and welded. Front rail with double sheet thickness, guttershaped. ■ Depth 150 mm. The terminal enclosure can be installed vertically (the width becomes the height). ■ Wall-mounting directly or by means of fixing lugs (to be ordered separately). ■ 4 M8 x 25 shouldered backstuds. ■ Body without cable-gland openings. **Door** ■ Easily removable and reversible door, with 20-mm return with double sheet thickness granting excellent rigidity; equipped with 2 hinges opening to 180°. ■ Door opening to 180° for maximum accessibility (the door comes to rest on the body of the enclosure in top position). ■ Maximum acceptable load on the door: 20 kg/m^2. ■ Wall-mounting enclosure supplied with 3-mm double-bar lock as standard. ■ M6 x 16 earthing screw for equipotential connection between the door and the body of the enclosure. **Dedicated accessories** The terminal enclosure, with a depth of 150 mm, can be equipped: ■ With 2 rails to be installed on the 4 M8 x 25 shouldered backstuds. See page 17. ■ With a symmetrical rail to be installed on the rails. See page 232. ■ With a 6-mm^2 earth braid to be placed between the body and the door. It can also be equipped with a plain mounting plate, see page 206.	**Body** Single-piece body, folded and welded. Front rail with double sheet thickness, guttershaped. ■ Wall-mounting directly or by means of fixing lugs (to be ordered separately). ■ 4 M8 x 25 shouldered backstuds. ■ Body with FL21-type cable-gland opening on the bottom of the enclosure (blanking plate ref. **NSYAECPFLBP** to be ordered separately). **Door** ■ Easily removable and reversible door, with 20-mm return with double sheet thickness granting excellent rigidity; equipped with 2 hinges opening to 180°. ■ Door opening to more than 180° for maximum accessibility (the door comes to rest on the body of the enclosure in top position). To be ordered separately, see page 68 reference **NSYAEDH180S3D**. ■ Maximum acceptable load on the door: 50 kg/m^2. ■ Wall-mounting enclosure supplied with 3-mm double-bar lock as standard. ■ M6 x 16 earthing screw for equipotential connection between the door and the body of the enclosure. **Dedicated accessories** The terminal enclosure, with a depth of 170 mm, be equipped: ■ With 2 rails to be installed on the 4 M8 x 25 shouldered backstuds. See page 17. ■ With a symmetrical rail to be installed on the rails. See page 232. ■ With a 6-mm^2 earth connection to be placed between the body and the door. It can also be equipped with a plain mounting plate, see page 206.
Finish	Structured finish, epoxy-polyester powder	Structured finish, epoxy-polyester powder
Colour	RAL 7035 grey	RAL 7035 grey
Ingress protection rating	IP66 according to IEC 60529	IP65 (with blanking plate ref. **NSYAECPFLBP**) according to IEC 60529
Mechanical protection rating	IK10 according to IEC 62262	IK10 according to IEC 62262

References

Height (A) (mm)	Width (B) (mm)	Depth (C) (mm)		
250	300	150	**NSYS3DB25315**	-
	400	150	**NSYS3DB25415**	-
	500	150	**NSYS3DB25515**	-
300	300	150	**NSYS3DB3315**	-
		170	-	**NSYS3DBFL3317**
	400	150	**NSYS3DB3415**	-
		170	-	**NSYS3DBFL3417**
	500	150	**NSYS3DB3515**	-
	600	150	**NSYS3DB3615**	-
400	300	150	**NSYS3DB4315**	-
		170	-	**NSYS3DBFL4317**
	800	150	**NSYS3DB4815**	-
500	400	150	**NSYS3DB5415**	-
600	400	150	**NSYS3DB6415**	-

Enclosures for power distribution (terminal blocks)
Dimensions

Spacial S3DB

A: Enclosure height
B: Enclosure width
C: Enclosure depth

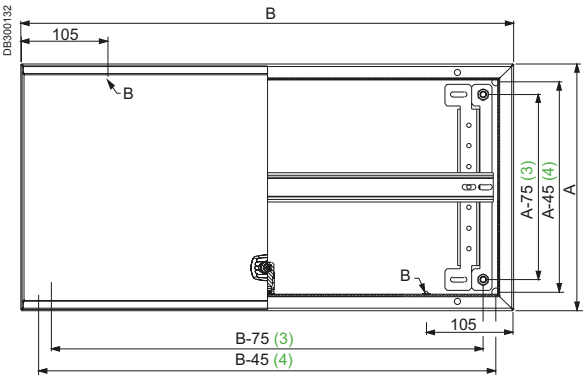
(1) With ladder mounting plate installed.
(2) M6 x 17.5 mm earthing stud.
(3) Stud centre-to-centre distance.
(4) Centre-to-centre distance of the holes for direct fixing.
(5) Drop-leaf door.

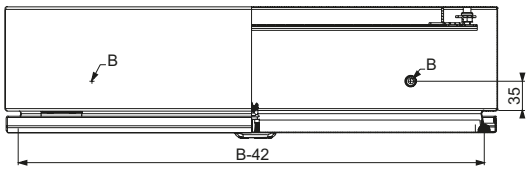
The provided dimensions are with the ladder mounting plate, which is the most commonly used accessory with this enclosure.

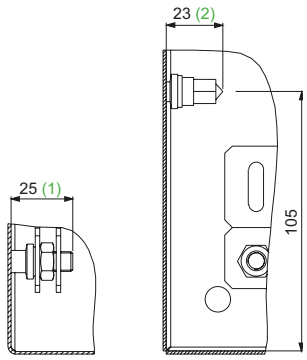
PB500228-44



DB300132

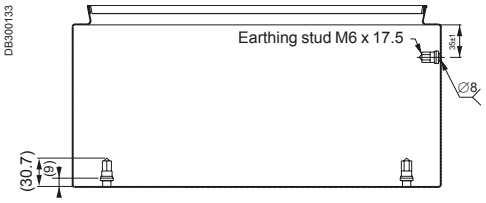


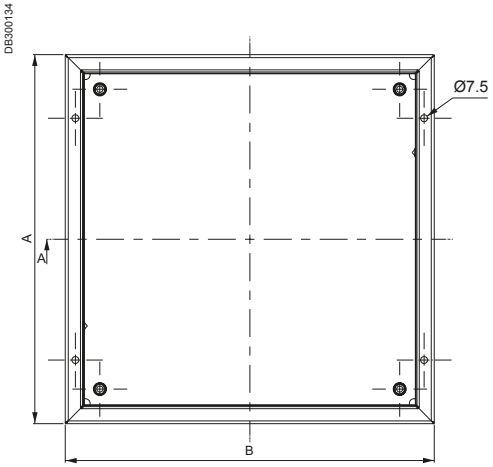


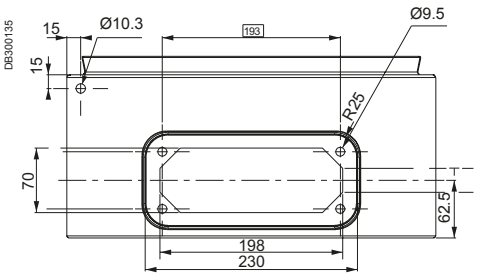


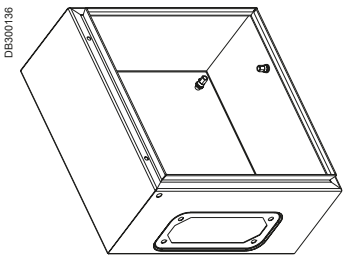
Enclosures for power distribution (terminal blocks)
Dimensions

Spacial S3DBFL









Modular wall-mounting enclosures
Introduction

> The **Spacial S3DM enclosure** for modular switchgear can be equipped with:
- a modular chassis (NSYDLM•••) with cut-out front panels for 24 to 234 modules according to the dimensions and references,
- a 6 mm² earth connection placed between the body and the door.

The enclosure can be equipped with accessories from the Spacial standard wall-mounting range.

PB500097



S3DM enclosure (standard delivery).

PB500406-30



S3DM enclosure equipped with a DLM modular chassis.

PB500407-32



Easily removable and reversible door
- With 20 mm return with double thickness granting excellent rigidity, opening to 120°, equipped with 2 or 3 invisible hinges.
- Three locking points for heights of more than 600 mm.
- Perforated rails on the hinge side of the door, with drill holes with a diameter of 4.2 mm in steps of 25 mm.

PB500408-23



Dedicated accessories
The DLM modular chassis consists of metal cut-out front panels which can clip on with any screws. Rigid structure made from galvanised steel. The depth of the chassis can be adjusted from 40 to 85 mm, between the rail and the front panel, allowing the installation of all types of devices.
For enclosures with a depth of 150 mm, the chassis can be installed at the front or on the backstuds at the rear. It is possible to adjust its depth using the adjustable supports (**NSYSDCR••** type).
It can also be equipped with a plain mounting plate, see page 206.

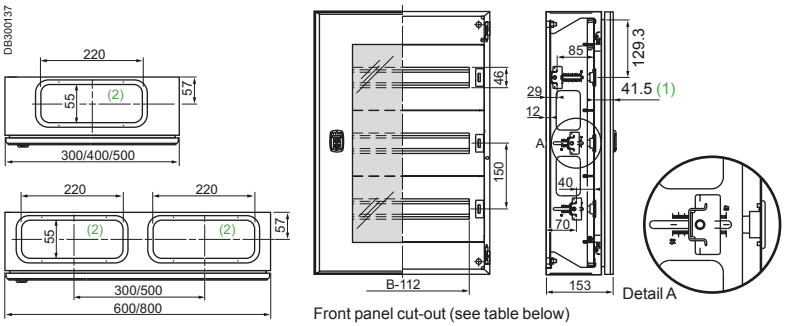
Modular wall-mounting enclosures
Characteristics



Characteristics	Spacial S3DM
	■ Single-piece body, folded and welded. Front rail with double sheet thickness, gutter-shaped. ■ 4 M8 x 25 mm shouldered backstuds for installing chassis and step slides, leaving a space of 10 mm behind them. ■ Cable-gland plate (245 x 80) at the top and bottom of the enclosure, guaranteeing the maximum access surface (also available in plain door).
Finish	Structured finish, epoxy-polyester powder
Colour	RAL 7035 grey
Ingress protection rating	IP66 according to IEC 60529
Mechanical protection rating	IK08 according to IEC 62262
Supply	Wall-mounting enclosure supplied with 3 mm double-bar lock as standard

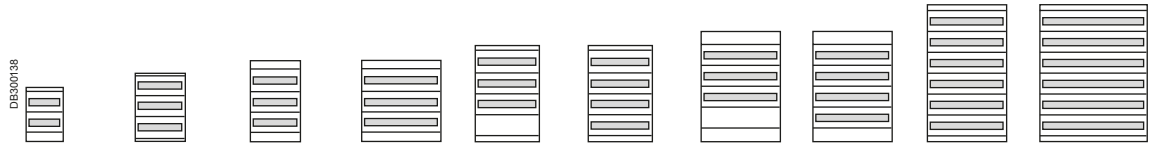
References

Height (mm)	Width (mm)	Depth (mm)	
400	300	150	**NSYS3DM4315T**
500	400	150	**NSYS3DM5415T**
600	400	150	**NSYS3DM6415T**
	600	150	**NSYS3DM6615T**
700	500	150	**NSYS3DM7515T**
800	600	150	**NSYS3DM8615T**
1000	600	150	**NSYS3DM10615T**
	800	150	**NSYS3DM10815T**



(1) Front face of the modular chassis / front face of the door.
(2) Cable-gland plates at the top and bottom of the enclosure.

Number of modules per chassis** (every 18 mm)



Chassis reference	NSYDLM24	NSYDLM48*	NSYDLM48P*	NSYDLM84P*	NSYDLM66	NSYDLM88	NSYDLM84	NSYDLM112	NSYDLM168	NSYDLM240
Enclosure height (mm)	400	500	600	600	700	700	800	800	1000	1000
Enclosure width (mm)	300	400	400	600	500	500	600	600	600	800
Number of rows	2	3	3	3	3	4	3	4	6	6
Modules per row	12	16	16	28	22	22	28	28	28	39
Total nº of modules	24	48	48	84	66	88	84	112	168	234

** References **NSYDLM48**, **NSYDLM48P** and **NSYDLM84P**, the central row cannot receive modules at the height of the lock (check our technical instructions) when installed at the front of the enclosure. In this case, 1 module is sealed up.*
*** DLM modular chassis.*
The provided dimensions are with the modular chassis, which is the most commonly used accessory with this enclosure.

Modular wall-mounting enclosures
Accessories

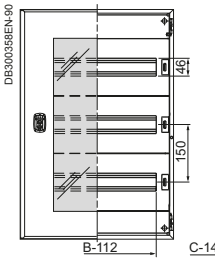
CRN S3D S3X



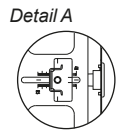




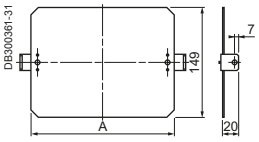
Characteristics			DLM modular chassis	Plain front panel	Plain mounting plate
			■ The chassis consists of metal cut-out front panels, which can be clipped on without screws. ■ The depth of the chassis can be adjusted from 40 to 85 mm, between the rail and the front panel, allowing the installation of all types of devices.	Metal front panels to be clipped on without screws.	Mounting plate for fixing non-modular devices.
Material			Rigid galvanised-steel structure	-	Galvanised steel
Finish			Structured finish, epoxy-polyester powder	Structured finish, epoxy-polyester powder	-
Colour			RAL 7035 grey	RAL 7035 grey	-
Thickness			-	-	20/10e mm
Supply			-	2 plain front panel and fixings	2 plain chassis and fixings
Height (mm)	**Width (mm)**	**Number of modules***	**References**		
400	300	24	**NSYDLM24**	**NSYCTL300DLM**	**NSYPMP300DLM**
500	400	48	**NSYDLM48**	**NSYCTL400DLM**	**NSYPMP400DLM**
600	400	48	**NSYDLM48P**	**NSYCTL400DLM**	**NSYPMP400DLM**
	600	84	**NSYDLM84P**	**NSYCTL600DLM**	**NSYPMP600DLM**
700	500	66	**NSYDLM66**	**NSYCTL500DLM**	**NSYPMP500DLM**
	500	88	**NSYDLM88**	**NSYCTL500DLM**	**NSYPMP500DLM**
800	600	84	**NSYDLM84**	**NSYCTL600DLM**	**NSYPMP600DLM**
	600	112	**NSYDLM112**	**NSYCTL600DLM**	**NSYPMP600DLM**
1000	600	168	**NSYDLM168**	**NSYCTL600DLM**	**NSYPMP600DLM**
	800	234	**NSYDLM240**	**NSYCTL800DLM**	**NSYPMP800DLM**



Front-panel cut-out

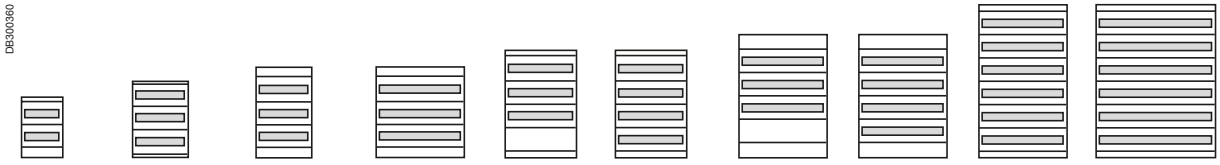


Rail adjustment: 45 mm



** 1 module = 2 steps = 18 mm.*

Number of modules per chassis in steps of 18 mm



Chassis reference	NSYDLM24	NSYDLM48*	NSYDLM48P*	NSYDLM84P*	NSYDLM66	NSYDLM88	NSYDLM84	NSYDLM112	NSYDLM168	NSYDLM240
Enclosure height (mm)	400	500	600	600	700	700	800	800	1000	1000
Enclosure width (mm)	300	400	400	600	500	500	600	600	600	800
Number of rows	2	3	3	3	3	4	3	4	6	6
Modules per row	12	16	16	28	22	22	28	28	28	39
Total n. of modules	24	48	48	84	66	88	84	112	168	234

** For references **NSYDLM48**, **NSYDLM48P** and **NSYDLM84P** on Spacial wall-mounting enclosures the central row can only receive modules at the height of the lock when installed at the front of the enclosure. In this case, 1 module is sealed up (check our technical instructions).*

Modular wall-mounting enclosures
Accessories

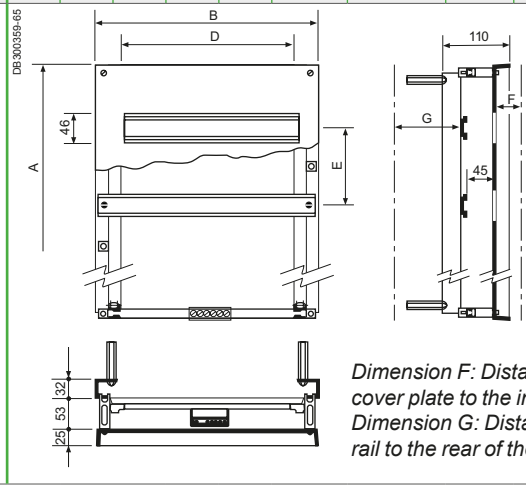
CRN S3D* S3X

** For Spacial S3D please consult us.*



Characteristics	DL modular chassis*
	■ Dinimel chassis designed for devices with heights of 53 and 68 mm, which can be coupled directly to the enclosure plate-support bolts. ■ Distance between device rail and protective cover plate: 45 mm.
Material	Steel
Finish	Metal protective cover plate
Colour	RAL 7035 grey

For coupling to the enclosures with normal or transparent door			Dimensions (mm)						No. of 18-mm modules	No. of rows	Approx. weight (kg)	References
Height	Width	Depth	A	B	D	E	F***	G				
300	250	150**	255	205	162	120	41	51	18	2	1.2	**NSYDLCR18**
400	300	150**	355	255	216	160	41	51	24	2	1.7	**NSYDLCR24**
	300	150**	355	255	216	110	41	51	36	3	1.7	**NSYDLCR36**
500	400	150**	455	355	288	130	41	51	48	3	2.4	**NSYDLCR48**
600	400	150/200	555	355	288	130	41	51/101	64	4	3.3	**NSYDLCR64**
	500	150/200	555	455	396	130	41	51/101	88	4	4.5	**NSYDLCR88**
700	500	200	655	455	396	125	41	101	110	5	5.1	**NSYDLCR110**
800	600	200	755	555	486	140	41	101	135	5	7.5	**NSYDLCR135**



Dimension F: Distance from the protective cover plate to the inside of the door.
Dimension G: Distance from the device-support rail to the rear of the enclosure.

** For Spacial S3D please consult us.*
*** For coupling to enclosures with a depth of 200 mm, the stand-offs (ref. **NSYEX608**) are to be ordered separately (4 per chassis).*
**** For enclosures with transparent door, the F dimension is reduced by 4 mm.*



Characteristics	Blanking plate
	Blanking plate for full or partial covering of the circuit-breaker windows; it can easily be cut to the required size.
Material	Plastic

Length (mm)	No. of modules	Colour	References
72	4	RAL 7032	**NSYATP72G**
72	4	RAL 7035	**NSYATP72M**
108	6	RAL 7035	**NSYATP6DTM**
432	24	RAL 7035	**NSYATP24DTM**
1100	-	RAL 7035	**NSYATPUND**

Accessories for modular floor-standing enclosures

Modular floor-standing enclosures

PB500524-36



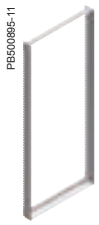
PB500892-40



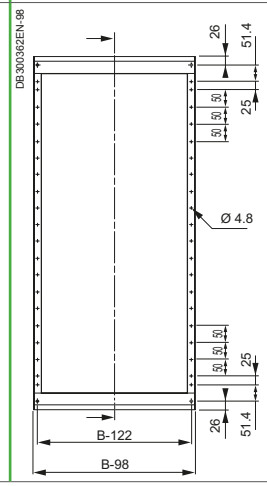
Introduction

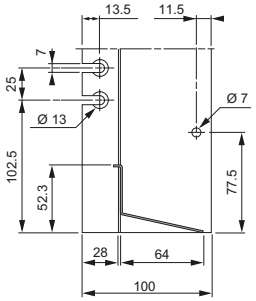
■ The modular distribution system is made up of a range of accessories prepared for forming electric panels with high distribution capacity.
■ The accessories are installed on a chassis mounted at the front of the enclosure, such as:
□ cover plates for enclosures with widths of 600 and 800 mm, solid or cut-out in screwed-on or hinged versions. They cover 24 or 36 modules per row, depending on the width of the enclosure,
□ material support rails, fixed or with adjustable depth,
□ mounting plate supports for coupling non-modular equipment,
□ supports for fixing cable-distribution cable ducts.
■ Sets of accessories made up of material-supporting frames with chassis and cover plates are offered for the construction of double or busbar modular chassis. All the accessories of the individual chassis system can also be combined in the same way with the double chassis or with the chassis with busbar area.

Accessories for modular floor-standing enclosures
Modular chassis



Characteristics		Single-chassis coupling set	
		■ Chassis made up of vertical uprights and horizontal crossbars: □ **Spacial SF:** they are screwed to the front frame of the enclosure. □ **Spacial SM:** they are screwed to the front frame of the enclosure by means of the vertical adaptation profiles, see page 227. ■ Easy access to the inside for component installation.	
Material		Steel	
Finish		Structured finish, epoxy-polyester powder	
Colour		RAL 7035 grey	
Supply		2 vertical uprights, 2 horizontal crossbars and fixing elements	
Height (A)	**Width (B)**	**Maximum no. of 18-mm modules**	**References**
1200	600	144	**NSYCSH126**
	800	216	**NSYCSH128**
1400	600	192	**NSYCSH146**
	800	288	**NSYCSH148**
1600	600	216	**NSYCSH166**
	800	324	**NSYCSH168**
1800	600	240	**NSYCSH186**
	800	360	**NSYCSH188**
2000	600	288	**NSYCSH206**
	800	432	**NSYCSH208**

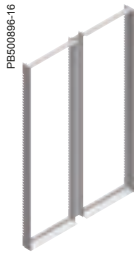




** Installation example: see page 293.*

Accessories for modular floor-standing enclosures

Modular chassis

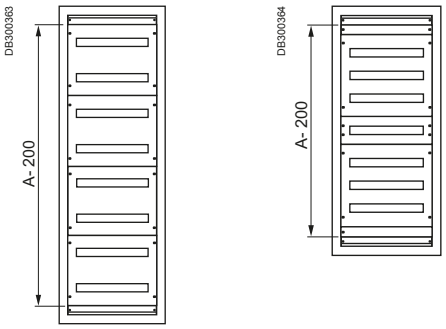




Characteristics		Double-chassis coupling set*			Chassis-coupling set with zone for busbars*		
		■ Mounting on enclosures with widths of 1200 and 1600 mm. ■ **Spacial SF:** the double-door enclosure adaptation kit is required for enclosure widths of 1200 and 1600 mm, see page 218. ■ **Spacial SM**: they are screwed to the front frame of the enclosure by means of the vertical adaptation profiles, see page 227. For enclosures with a width of 1200 mm the top/bottom adjustment rails are necessary. ■ Set made up of two modular chassis with an intermediate central upright.			■ Set for mounting on enclosures with widths of 1000 and 1200 mm. ■ **Spacial SF:** they are screwed to the front frame enclosure. ■ **Spacial SM:** they are screwed to the front frame of the enclosure by means of the vertical and horizontal adaptation profiles, see page 227. ■ Assembly made up of a modular chassis with an intermediate central upright and a blanking cover plate for busbars (width 300 mm).		
Material		Steel			Steel		
Finish		Structured finish, epoxy-polyester powder			Structured finish, epoxy-polyester powder		
Colour		RAL 7035 grey			RAL 7035 grey		
Supply		2 single-chassis coupling sets, 1 intermediate central upright and fixing elements			1 single-chassis coupling set, 1 intermediate central upright, 1 busbar blanking cover plate and fixing elements		
Height (A)	**Width (B)**	**Maximum no. of 18-mm modules**	**Set made up of columns with a width (mm)**	**References**	**Maximum no. of 18-mm modules**	**Set made up of columns with a width (mm)**	**References**
1400	1000	-	-	-	192	600 + 400	**NSYCSHB1410**
	1200	384	600 + 600	**NSYDCSH1412**	288	800 + 400	**NSYCSHB1412**
1600	1000	-	-	-	216	600 + 400	**NSYCSHB1610**
	1200	432	600 + 600	**NSYDCSH1612**	324	800 + 400	**NSYCSHB1612**
1800	1000	-	-	-	240	600 + 400	**NSYCSHB1810**
	1200	480	600 + 600	**NSYDCSH1812**	360	800 + 400	**NSYCSHB1812**
	1600	720	800 + 800	**NSYDCSH1816**	-	-	-
2000	1000	-	-	-	288	600 + 400	**NSYCSHB2010**
	1200	576	600 + 600	**NSYDCSH2012**	432	800 + 400	**NSYCSHB2012**
	1600	864	800 + 800	**NSYDCSH2016**	-	-	-

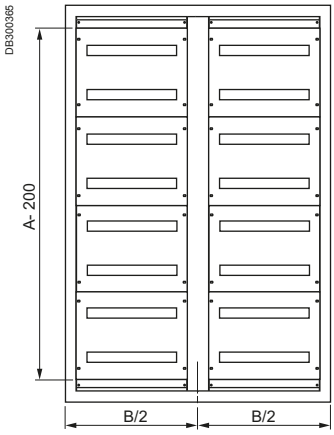
** Installation example: see page 293.*

Accessories for modular floor-standing enclosures
Installation examples



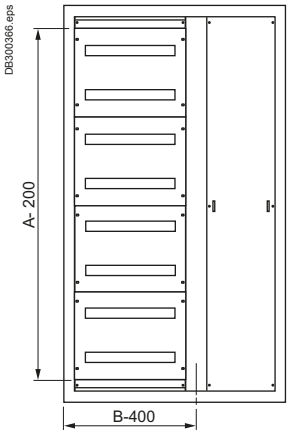
Combination of cut-out, screwed-on cover plates and single-chassis coupling set

Dimensions (mm)		No. of 18-mm modules	References		
H (A)	W (B)		1 single-chassis coupling set	5 screwed-on cut-out cover plates	2 adjustment cover plates
1800	600	240	1 x **NSYCSH186**	5 x **NSYMUC306**	1 x **NSYADC16**



Combination of cut-out, screwed-on cover plates and double-chassis coupling set

Dimensions (mm)			No. of 18-mm modules	References		
H (A)	W (B)	D (C)		1 double-chassis coupling set	12 screwed-on cut-out 300-mm cover plates	Double-door enclosure adaptation kit
2000	1200	500	576	1 x **NSYDCSH2012**	12 x **NSYMUC306**	**NSYSMP2D5**
	1600	500	864	1 x **NSYDCSH2016**	12 x **NSYMUC308**	-

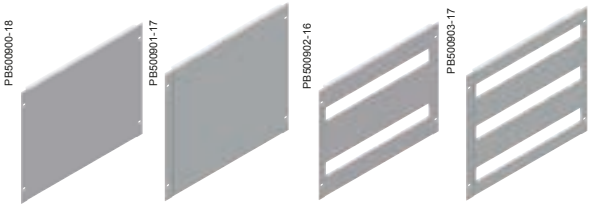


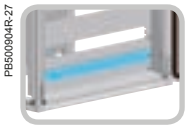
Combination of cut-out, screwed-on cover plates and chassis-coupling set with busbar zone

Dimensions (mm)		No. of 18-mm modules	References		
H (A)	W (B)		1 chassis-coupling set with zone for busbars	5 screwed-on cut-out 300-mm cover plates	2 adjustment cover plates
1800	1000	240	1 x **NSYCSHB1810**	5 x **NSYMUC306**	1 x **NSYADC16**
	1200	360	1 x **NSYCSHB1812**	5 x **NSYMUC308**	1 x **NSYADC18**

Accessories for modular floor-standing enclosures
Accessories

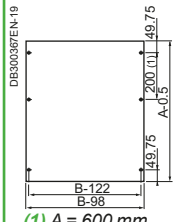
Cover plates



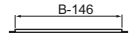


Characteristics	Plain cover plates	Cut-out cover plates	Adjustment cover plates
	■ Metal cover plates for protecting control devices. ■ The cut-outs in non-modular control devices is at user's request. ■ Suitable by modules of 150 or 200 mm. ■ Versions: □ screwed-on plain cover plate, □ hinged plain cover plate. 120° opening with flat hinge.	■ Cut-out metal cover plates for modular switchgear (1 module = 18 mm). ■ Suitable by modules of 150 or 200 mm. □ cover plates for 600-mm width enclosures: 24 modules per row, □ cover plates for 800-mm width enclosures: 36 modules per row. ■ Versions: □ screwed-on cut-out cover plate, □ hinged cut-out cover plate. 120° opening with flat hinge.	Metal adjustment cover plates designed to complete the front of the modular chassis according to the combinations made by modules of 150 or 200 mm.
Material	Steel	Steel	Steel
Finish	Structured finish, epoxy-polyester powder	Structured finish, epoxy-polyester powder	Structured finish, epoxy-polyester powder
Colour	RAL 7035 grey	RAL 7035 grey	RAL 7035 grey
Fixing	-	-	-
Supply	1 plain cover plate and fixing elements	1 cut-out cover plate and fixing elements	2 adjustment cover plates and fixing elements

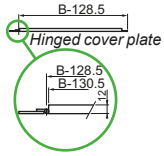
Height (A)	Width (B)	Screwed-on plain cover plate references	Hinged plain cover plate references	D	E	F	No. of cut-outs	Max. no. of 18-mm modules	Screwed-on cut-out cover plate references	Hinged cut-out cover plate references	References
50	600	-	-	-	-	-	-	-	-	-	**NSYADC16**
	800	-	-	-	-	-	-	-	-	-	**NSYADC18**
150	600	**NSYMPC156**	**NSYMPCH156**	432	-	-	1	24	**NSYMUC156**	**NSYMUCH156**	-
	800	**NSYMPC158**	**NSYMPCH158**	642			1	36	**NSYMUC158**	**NSYMUCH158**	-
200	600	**NSYMPC206**	**NSYMPCH206**	432	-	-	1	24	**NSYMUC206**	**NSYMUCH206**	-
	800	**NSYMPC208**	**NSYMPCH208**	642			1	36	**NSYMUC208**	**NSYMUCH208**	-
300	600	**NSYMPC306**	**NSYMPCH306**	432	51.75	150	2	48	**NSYMUC306**	**NSYMUCH306**	-
	800	**NSYMPC308**	**NSYMPCH308**	642			2	72	**NSYMUC308**	**NSYMUCH308**	-
400	600	**NSYMPC406**	**NSYMPCH406**	432	76.75	200	2	48	**NSYMUC406**	**NSYMUCH406**	-
	800	**NSYMPC408**	**NSYMPCH408**	642			2	72	**NSYMUC408**	**NSYMUCH408**	-
450	600	**NSYMPC456**	**NSYMPCH456**	432	51.75	150	3	72	**NSYMUC456**	**NSYMUCH456**	-
	800	**NSYMPC458**	**NSYMPCH458**	642			3	108	**NSYMUC458**	**NSYMUCH458**	-
600	600	**NSYMPC606**	**NSYMPCH606**	432	76.75	200	3	72	**NSYMUC606**	**NSYMUCH606**	-
	800	**NSYMPC608**	**NSYMPCH608**	642			3	108	**NSYMUC608**	**NSYMUCH608**	-



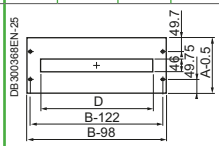
(1) A = 600 mm



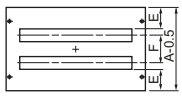
Screwed-on cover plate



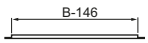
Hinged cover plate



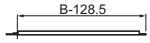
A = 150 and 200 mm



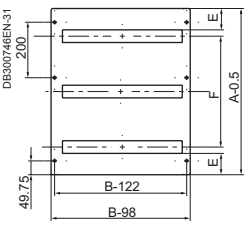
A = 300 and 400 mm



Screwed-on cover plate



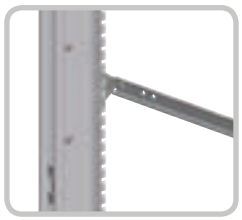
Hinged cover plate



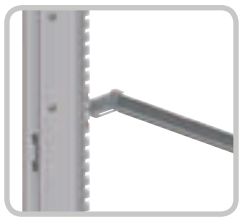
Cut-out at 200 mm when A = 600

Accessories for modular floor-standing enclosures
Accessories

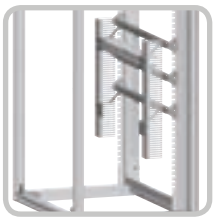
PB500907-29



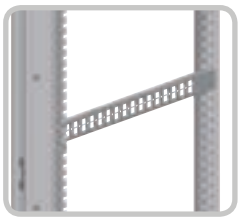
PB500909-31



PB500914-26



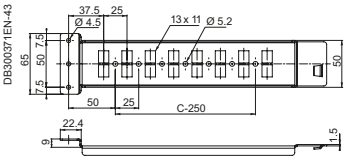
PB500911-29



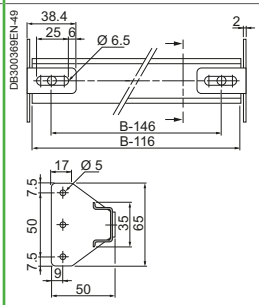
	Set of fixed rail with supports	Set of depth-adjustable rail with supports	Cable duct fixing supports	Reinforced plate supports
	■ Set made up of a galvanised symmetric DIN rail, 35 x 15 mm, and fixed mounting supports, for the installation of modular devices or not. ■ Maximum number of 18-mm modules: □ enclosure width 600 mm: 24 modules, □ enclosure width 800 mm: 36 modules.	■ Set made up of a galvanised symmetric DIN rail, 35 x 15 mm, and depth adjustable mounting supports, for the installation of modular devices or not. ■ Maximum number of 18-mm modules: □ enclosure width 600 mm: 24 modules, □ enclosure width 800 mm: 36 modules.	■ Supports for fixing cable-distribution gutters in the modular chassis. ■ Allows the fixing of gutters in horizontal and vertical position on the same plane to facilitate cable distribution.	Supports for fixing the partial mounting plate for small non-modular equipment or material-supporting cross rails for heavy equipment. See partial mounting plate, page 212.
	Zinc-coated steel	Zinc-coated steel	Zinc-coated steel	Zinc-coated steel
	-	-	-	-
	-	-	-	-
	Mounting by screws directly on the uprights of the chassis-coupling set	Mounting by screws directly on the uprights of the modular chassis-coupling set	Installation by screws directly on the rail supplied with the fixed or adjustable rail	Direct fixing by screws to the vertical uprights of the modular chassis-coupling set, and at the rear directly to the structure (Spacial SF) and on universal or quick-fixing cross rails (see page 223) installed vertically in the back of the enclosure (Spacial SM)
	1 DIN rail, 2 fixed supports and fixing elements	1 DIN rail, 2 adjustable supports and fixing elements	6 supports (3 on the right and 3 on the left) and fixing elements	2 supports and fixing elements
	References	**References**	**References**	
	NSYMFSC60	**NSYMFSC60D**	**NSYMCDFIX**	
	NSYMFSC80	**NSYMFSC80D**	**NSYMCDFIX**	
	NSYMFSC60	**NSYMFSC60D**	**NSYMCDFIX**	
	NSYMFSC80	**NSYMFSC80D**	**NSYMCDFIX**	
	NSYMFSC60	**NSYMFSC60D**	**NSYMCDFIX**	
	NSYMFSC80	**NSYMFSC80D**	**NSYMCDFIX**	
	NSYMFSC60	**NSYMFSC60D**	**NSYMCDFIX**	
	NSYMFSC80	**NSYMFSC80D**	**NSYMCDFIX**	
	NSYMFSC60	**NSYMFSC60D**	**NSYMCDFIX**	
	NSYMFSC80	**NSYMFSC80D**	**NSYMCDFIX**	
	NSYMFSC60	**NSYMFSC60D**	**NSYMCDFIX**	
	NSYMFSC80	**NSYMFSC80D**	**NSYMCDFIX**	

Depth (C)	No. of cut-outs (Ø 5.2 mm)	References
300	4	**NSYMPS30**
400	8	**NSYMPS40**
500	12	**NSYMPS50**
600	16	**NSYMPS60**
800	24	**NSYMPS80**

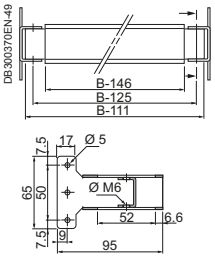
DB300371EN-43



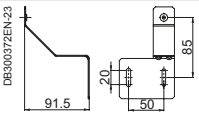
DB300369EN-49



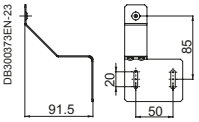
DB300370EN-49



DB300372EN-23



DB300373EN-23



Fixed supports with no rail

PB500908-13



Supply: 2 fixed supports and fixing elements.

Reference
NSYMFS1

Adjustable supports with no rail

PB500910-13

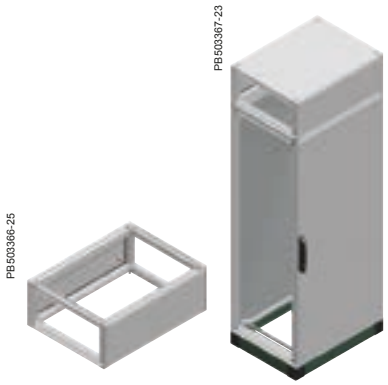


Supply: 2 adjustable supports and fixing elements.

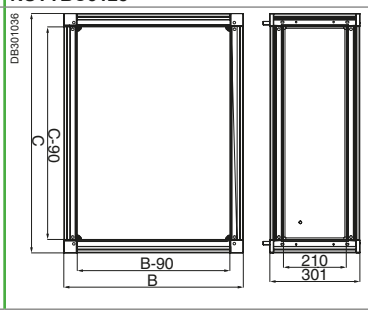
Reference
NSYMFS1D

Accessories for low voltage switchboards

Top busbar chamber





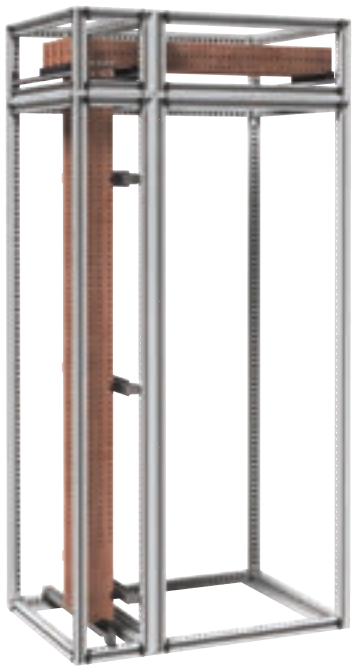
Characteristics			Top busbar chamber	Side panels for the top busbar chamber
			Chamber which protects and supports the sets of horizontal bars. Enables new switchgear by tapping and isolates the sets of bars from the rest of the equipment. It is only installed at the top of the enclosure.	Set of two side panels for coupling with the busbar chamber. Captive screws.
Material			Steel	Steel
Finish			Structured finish, epoxy-polyester powder	Structured finish, epoxy-polyester powder
Colour			RAL 7035 grey	RAL 7035 grey
Ingress protection rating			IP55 according to IEC 60529	-
Supply			■ One structure of the busbar chamber as a kit ■ Two front panels ■ Reinforced coupling kit ■ One sealing gasket	Two side panels and fixing elements
Height (A) (mm)	**Width (B) (mm)**	**Depth (C) (mm)**	**References**	
300	300	500	**NSYTBC335**	**NSYSPBC35**
		600	**NSYTBC336**	**NSYSPBC36**
		800	**NSYTBC338**	**NSYSPBC38**
	400	500	**NSYTBC345**	**NSYSPBC35**
		600	**NSYTBC346**	**NSYSPBC36**
		800	**NSYTBC348**	**NSYSPBC38**
	600	500	**NSYTBC365**	**NSYSPBC35**
		600	**NSYTBC366**	**NSYSPBC36**
		800	**NSYTBC368**	**NSYSPBC38**
	800	500	**NSYTBC385**	**NSYSPBC35**
		600	**NSYTBC386**	**NSYSPBC36**
		800	**NSYTBC388**	**NSYSPBC38**
	1000	500	**NSYTBC3105**	**NSYSPBC35**
		600	**NSYTBC3106**	**NSYSPBC36**
		800	**NSYTBC3108**	**NSYSPBC38**
	1200	500	**NSYTBC3125**	**NSYSPBC35**
		600	**NSYTBC3126**	**NSYSPBC36**
		800	**NSYTBC3128**	**NSYSPBC38**
				

Accessories for low voltage switchboards
Side busbar chamber


PB500739-20


PB500114-20

Characteristics			Side busbar chamber	Side panels for the side busbar chamber
			Protects and supports the sets of vertical bars. Enables new switchgear by tapping and isolates the sets of bars from the rest of the equipment. It can be installed on either of the two sides of the enclosure.	Set of 2 side panels fixed to the outside. Captive screws.
Material			Steel	Steel
Finish			Structured finish, epoxy-polyester powder	Structured finish, epoxy-polyester powder
Colour			RAL 7035 grey	RAL 7035 grey
Ingress protection rating			IP55 according to IEC 60529	-
Supply			■ One structure of the busbar chamber ■ One roof ■ One rear panel ■ One door with handle (5-mm DB lock)	Two side panels with external fixing and fixing elements
Height (A) (mm)	**Width (B) (mm)**	**Depth (C) (mm)**	**References**	
1800	400	400	**NSYSF18440**	**NSY2SP184**
		500	**NSYSF18450**	**NSY2SP185**
		600	**NSYSF18460**	**NSY2SP186**
2000	300	500	**NSYSF20350**	**NSY2SP205**
		600	**NSYSF20360**	**NSY2SP206**
		800	**NSYSF20380**	**NSY2SP208**
	400	400	**NSYSF20440**	**NSY2SP204**
		500	**NSYSF20450**	**NSY2SP205**
		600	**NSYSF20460**	**NSY2SP206**
		800	**NSYSF20480**	**NSY2SP208**
2200	400	600	**NSYSF22460**	**NSY2SP226**


PB503420

Example installation of busbars in their chambers.

Accessories for low voltage switchboards

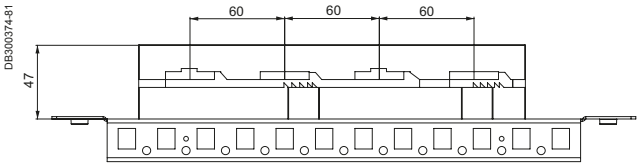
Copper bar support up to 630 A





Characteristics	630 A bar support	630 A busbar end cover
	■ **Spacial SF:** support prepared for coupling directly to the structure of the enclosure. ■ **Spacial SFX:** a universal cross rail is needed, in some cases, to replace the 400mm quick-fixing cross rail. ■ **Spacial SM:** installation by means of a vertical adaptation profile and 40 mm universal cross rails (1 row). ■ Maximum nominal rating 630 A. ■ Determine according to the enclosed table the cross-section of the bars and the distance between supports, according to the nominal and short-circuit current respectively.	Busbar end protection.
Material	-	-
Fixing	-	Direct installation on the actual bar support (insulator)
Supply	One 630 A bar support, one 40 mm quick-fixing cross rail and fixing elements	Two 630 A bar support plates and fixing elements

Width / Depth (mm)	References	Reference
400	**NSYBS400**	**NSYBSC630**
500	**NSYBS500**	
600	**NSYBS600**	
800	**NSYBS800**	



Table

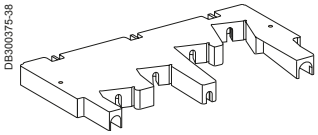


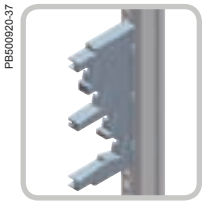


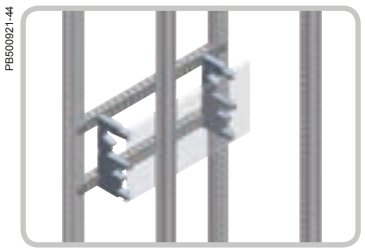


Nominal rating IP55 NR (A)	No. of barsper phase	Bar cross-section		Maximum distance between bar supports according to the short-circuit current (mm)							Neutral (mm)	Earth (mm)
		(mm)	(mm²)	Icw kA								
				12	23	30	39	52	66	69		
200	1	12 x 5	60	525	525	525	400	250	-	-	-	-
250	1	15 x 5	75	575	575	575	450	325	-	-	-	-
320	1	20 x 5	100	600	600	600	475	350	150	-	12 x 5-10	-
390	1	25 x 5	125	600	600	600	475	350	150	-	12 x 5-10	6 x 3
440	1	30 x 5	150	650	650	650	650	525	400	350	20 x 5-10	10 x 3
500	1	20 x 10	200	675	675	675	525	350	150	-	25 x 5-10	10 x 6
600	1	30 x 10	300	675	675	675	600	475	325	275	30 x 5-10	10 x 6

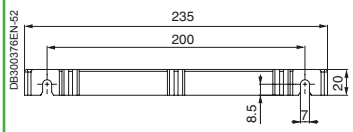
Accessories for low voltage switchboards
Copper bar support up to 630 A

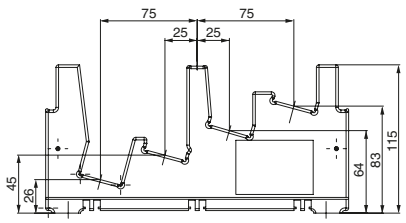






	630 A multi-stage bar support	Screen for 630 A multi-stage busbar
	■ Support for fixing bars with cross-sections: 15 x 5, 20 x 5, 32 x 5, 32 x 8. ■ The orientation of the copper bars makes tightening easier and allows better circulation of the cables. ■ It can be 3-pole or 4-pole, with gauges from 160 to 630 A. ■ Electrical characteristics: □ Rated peak withstand current Ipk (kÂ): - 30 kÂ for 160 A busbar, - 40 kÂ for 250 A busbar, - 55 kÂ for 400 A and 630 A busbar. □ Rated insulation voltage Ui = 750 V.	■ Protects against direct contact from the front in the connections of the busbar. ■ Length: 1500 mm.
	Insulating plastic	-
	■ Mounting on mounting plates (see page 212) or cross-rails (see page 223) ■ M6 x 25 self-tapping screws are required for fixing on the cross-rails, not included	Direct mounting on the actual support
	1 multi-stage bar support and fixing elements	1 screen for multi-stage busbar and fixing elements
Reference	**Reference**	
	04192	**04197**





Table

The following table shows:
■ The cross-section of the bars that will be used according to the current-carrying capacity in the busbar.
■ The distance between the bar supports that will be installed according to the rated short-time withstand current: Icw.

Rating (A)	Bar cross-section (mm)	Centre-to-centre distance of the supports (mm)				
		Icw (kA rms/1 s)				
		10	13	15	20	25
160	15 x 5	450			300	300 (1)
250	20 x 5					
400	32 x 5					
630	32 x 8					

(1) Icw (kA rms/0.6 s).

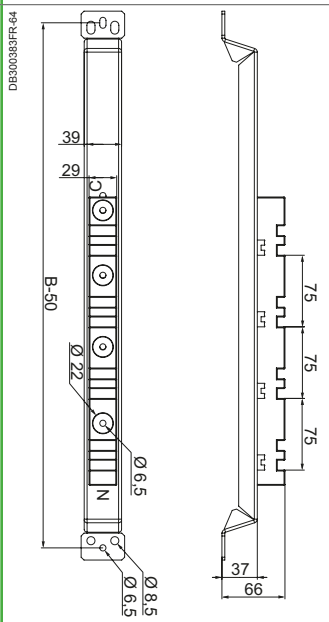
Accessories for low voltage switchboards

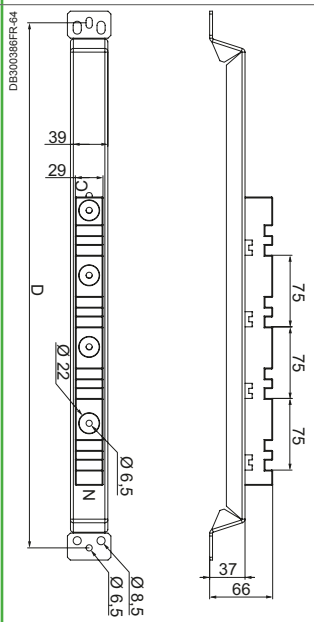
Vertical bar support



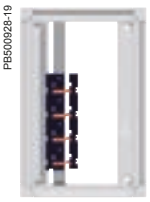


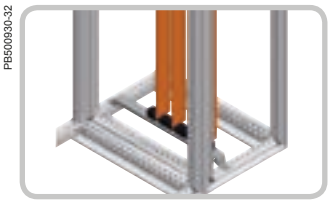
Characteristics	Vertical bar support	Setting support
	■ Support prepared for fixing bars in vertical position, mounted directly on the structure of the enclosure. Adjustable height with a pitch of 25 mm. ■ For a nominal rating In ≥ 3000 A and ≤ 4000 A you must add one spacer ref. **04646**.	■ Bottom support for bars in vertical position. ■ It is fixed to the bottom frame of the enclosure. ■ It is required for supporting the bars. ■ It is not considered a bar support when calculating the number of supports.
Supply	2 insulating bar supports, 1 metal vertical support and fixing elements	1 insulating bar support, 1 metal vertical support and fixing elements
Width / Depth (B) (mm)	**References**	
400	**NSYBVS400**	**NSYAS400**
500	**NSYBVS500**	**NSYAS500**
600	**NSYBVS600**	**NSYAS600**
800	**NSYBVS800**	**NSYAS800**









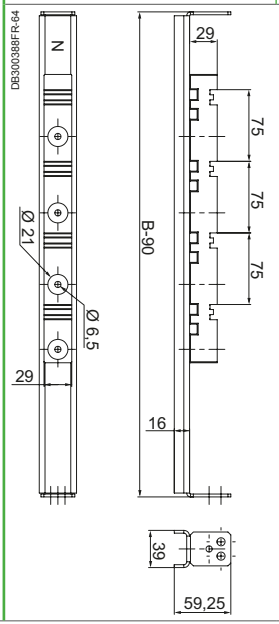


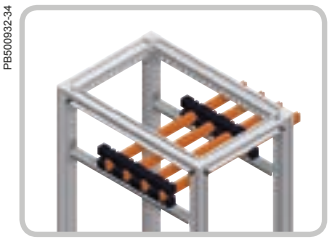
Accessories for low voltage switchboards
Horizontal bar support





Characteristics	Horizontal bar support		Bar support arm
	■ Support prepared for fixing bars in horizontal position. ■ Direct mounting to the structure of the enclosure, on the vertical uprights, at any height, adjustable with a pitch of 25 mm. ■ For a nominal rating In ≥ 3000 A and ≤ 4000 A you must add one spacer ref. **04646**.		■ Support without fixing to the enclosure, required to guarantee the distance between the bars. ■ It is used on bars in both vertical and horizontal position. ■ For a nominal rating In ≥ 3000 A and ≤ 4000 A you must add one spacer ref. **04646**.
Supply	2 insulating bar supports, 1 metal horizontal support and fixing elements		2 insulating bar supports and fixing elements
	Width / Depth (B) (mm)	**References**	**Reference**
	500	**NSYBHS500**	**NSYBSA**
	600	**NSYBHS600**	
	800	**NSYBHS800**	





Accessories for low voltage switchboards

Masterpact support

Overview of the offer Masterpact NT and NW



Circuit breakers

- Ratings:
  - Masterpact NT: 630 to 1600 A
  - Masterpact NW: 800 to 4000 A.
- Circuit breakers type N1, H1, H2, H3, L1.
- Switch-disconnectors type NA, HA, HF, HH.
- 3 or 4 poles.
- Fixed or drawout versions.
- Option with neutral on the right.
- Protection derating.



Micrologic control units

Ammeter A and Energy E

- 2.0 basic protection
- 5.0 selective protection
- 6.0 selective + earth-fault protection
- 7.0 selective + earth-leakage protection (1).

Power meter P

- 5.0 selective protection
- 6.0 selective + earth-fault protection
- 7.0 selective + earth-leakage protection

Harmonic meter H

- 5.0 selective protection
- 6.0 selective + earth-fault protection
- 7.0 selective + earth-leakage protection
- External sensor for earth-fault protection.
- Rectangular sensor for earth-leakage protection.
- Setting options (long-time rating plug):
  - low setting 0.4 to 0.8 x Ir
  - high setting 0.8 to 1 x Ir
  - without long-time protection.
- External AD power-supply module.
- Battery module.

(1) Only for ammeter A.



Power meter functions

Masterpact equipped with Micrologic 2 / 5 / 6 / 7 trip units offer type A (ammeter) or E (energy) metering functions as well as communication. Using Micrologic sensors and intelligence, Masterpact provides access to measurements of all the main electrical parameters on the built-in screen, on a dedicated FDM display unit or via the communication system.



Operating assistance functions

Integration of measurement functions provides operators with operating assistance functions including alarms tripped by user-selected measurement values, time-stamped event tables and histories, and maintenance indicators.



Communication

- COM option in Masterpact.
- Masterpact in a communication network.
- IFM: Modbus interface module.
- IFE: Ethernet interface module.
- I/O application module.
- Electrical Asset Manager.



Accessories for low voltage switchboards
Masterpact support

Overview of the offer Masterpact MTZ

Circuit breakers

MTZ1
From 630 to 1600 A



MTZ2
From 800 to 4000 A



Micrologic™ X control units

2.0X | 5.0X | 6.0X | 7.0X
Only four references



Digital Modules

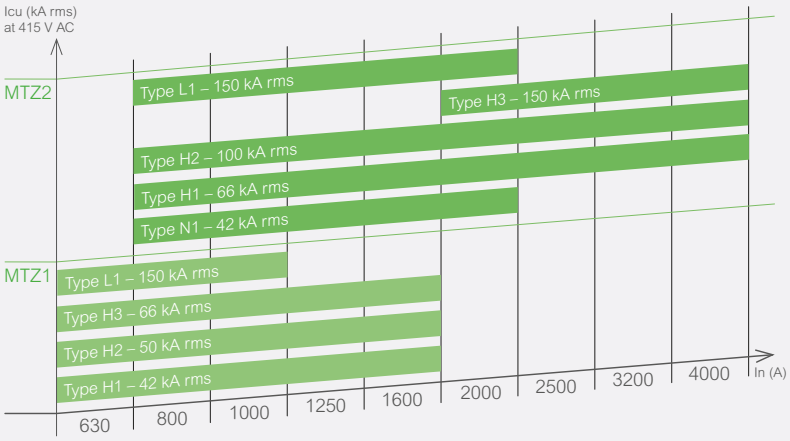
Protection

Measurement

Diagnostics and Maintenance



Five performance levels
N1, H1, H2, H3, L1





Masterpact MTZ1

Find all functions and technical characteristics in:
Masterpact MTZ catalogue
LVPED216026EN



Accessories for low voltage switchboards

Masterpact support


PB503560

Introduction

Installation of a Masterpact in a SF switchboard requires:
- Lateral cross-rails (NSYSQCR••, NSYSUCR••) (See table below)
- 1 specific transversal Masterpact support (NSYFXMN••) fixed to the lateral cross-rails
- Bar supports to reduce bar movements due to constraints

Masterpact supports New

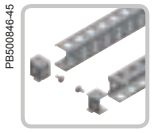
Dedicated offer to secure and facilitate Masterpact positioning in the switchboard
- Less distortion
- Reduced installation time
- Possibility to use bar CAD library

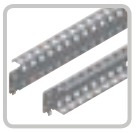

PB503547

NSYFXMNT80W


PB503545


PB503546


PB500846-45


PB500851-30

Characteristics		Masterpact supports		Associated cross-rails	
		W600	W800	Universal cross-rails	Quick-finxing cross-rails
		■ Cut outs already defined ■ Availlable in the Schneider CAD library		-	
Material		Galvanised-steel		Zinc-coated steel	
Supply		1 support delivered with fixing elements (self tapping screws M6/T30 + type 9/M6 cage nuts)		2 cross-rails and fixing elements (see cross-rail section page 221 for more information)	
Mounting instructions		Screwdriver: T30 Tightening torque: 4.5 Nm/39.82 lb-in		-	
Masterpact association		**References**			
Masterpact MTZ1 and NT	Fixed	**NSYFXMNT60F**	**NSYFXMNT80F**	**NSYSUCR65••**	**NSYSQCR65••**
	Withdrawable	**NSYFXMNWT60FW**	**NSYFXMNT80W**	**NSYSUCR65••**	**NSYSQCR65••**
Masterpact MTZ2 and NW	Fixed	**NSYFXMNWT60FW**	**NSYFXMNW80F**	**NSYSUCR90••**	**NSYSQCR90••**
	Withdrawable	**NSYFXMNWT60FW**	**NSYFXMNW80W**	**NSYSUCR90••**	**NSYSQCR90••**

Bar supports


PB503416


PB503418


PB503417


DB301165

Characteristics	Supports for Masterpact MTZ1 and NT			Supports for Masterpact MTZ2 and NW		
	Fixed support		Free support	Fixed support		Free support
	Fixing by screw with hexagonal head.		Fixing by screw with hexagonal head.	Fixing by screw with hexagonal head		Fixing by screw with hexagonal head.
Material	■ Metal support: zinc-coated steel ■ Isolating supports: thermosetting coating		■ Isolating supports: thermosetting coating	■ Metal support: zinc-coated steel ■ Isolating supports: thermosetting coating		■ Isolating supports: thermosetting coating
Supply	2 insulating bar supports, 1 metal horizontal support and fixing element		2 insulating bar supports and fixing elements	2 insulating bar supports, 1 metal horizontal support and fixing element		2 insulating bar supports and fixing elements
	Width (mm)	**References**	**Reference**	**Width (mm)**	**References**	**Reference**
	500	**NSYBHNT500**	**NSYBSA70**	600	**NSYBHNW600**	**04678**
	600	**NSYBHNT600**		800	**NSYBHNW800**	
	800	**NSYBHNT800**				

Accessories for low voltage switchboards
Distribution blocks

Linergy DX

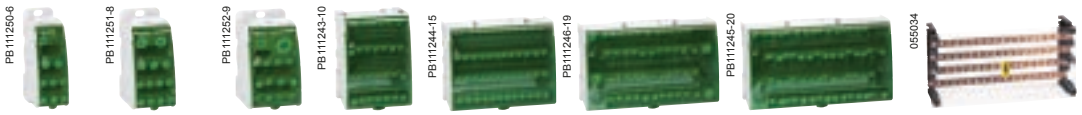
Fast connection distribution blocks



Characteristics		Linergy DX				
Rating		**63 A**		**125 A**	**160 A**	**160 A**
		■ Incoming through the top. ■ Clip-on to rail.	■ Incoming through the bottom. ■ Clip-on to rail.	■ Set of 4 35 mm² flexible connections, length 210 mm to be ordered separately (cat. no. **04047**). ■ Clip-on to rail.	■ Set of 4 prefabricated flexible connections supplied, for connection with an INS100/160 or NSA160 switch, installed on the right or left. ■ Clip-on to rail	Clip-on to rail.
Number of poles		4P		4P	4P	1P
Total connection capacity (dia. for flexible cables)	4 mm²	-		7		-
	6 mm²	12 per phase + 12 neutral		3		6
	10 mm²	-		2		-
	16 mm²	-		1 tunnel terminal		6
	25 mm²	4 tunnel terminals per phase + 1 neutral		-		-
	35 mm²	-		1 tunnel terminal		-
	70 mm²	-		-		1 tunnel terminal
Size	in 9 mm modules	8		12		4.5
	in 18 mm modules	4		6		2.5
References						
		04040	**04041**	**04045 + 04047**	**04046**	**04031**

Linergy DS and Linergy BS

Screw distribution blocks



Characteristics		Linergy DS							Linergy BS		
Rating		**125 A**	**160 A**	**250 A**	**100 A**	**125 A**		**160 A**	**160 A**	**250 A**	**400 A**
		Clip-on to rail.			Clip-on to rail.				■ To be screwed on back. ■ 13 M6 tapped holes + 4 plain holes of dia. 12.2 mm.		
Number of poles		1P			4P				4P		
Total connection capacity		10	13	14	4 x 7	4 x 12	4 x 15	4 x 12	4 + 13 (dia. for flexible cables: 50 mm²)		
Size	in 9 mm modules	3	4	5	8	14	20	18	-	-	-
	in 18 mm modules	-	-	-	-	-	-	-	-	-	-
References											
		LGY112510	**LGY116013**	**LGY125014**	**LGY410028**	**LGY412548**	**LGY412560**	**LGY416048**	**04052**	**04053**	**04054**
Neutral terminal strip (optional)		-	-	-	LGYN1007	LGYN12512	LGYN12515	LGYN12512	-	-	-

Accessories for low voltage switchboards

Device feeders

Linergy FM

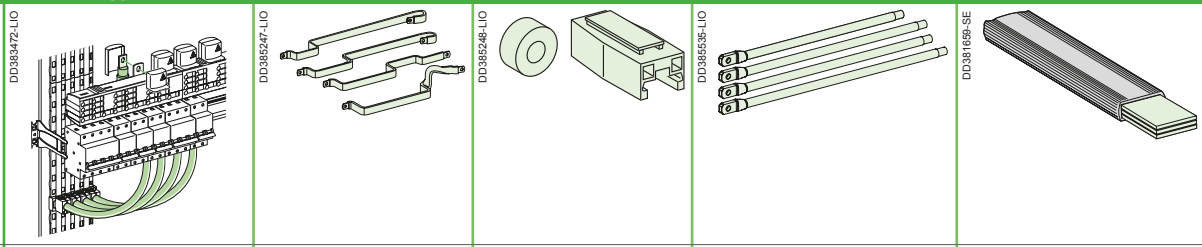
Quick device feeders



Characteristics			Linergy FM: for cable links						
Rating			**63 A**	**80 A**	**160 A**	**200 A**			
Length	in 9 mm modules		24	48	24	48			72
	in 18 mm modules		12	24	12	24			36
Supply at incomming terminals			Enclosed terminals for cables up to 25 mm²	Enclosed terminals for flexible cables 6 to 25 mm² or rigid cables 10 to 35 mm²	Direct onto the row by cable 70 mm² with crimped lug, or flexible bar 20 x 3 from busbar with prefabricated connection				
Downstream connection capacity	Max. 4 mm²	Phase	6	-	-	-			
		Neutral	4	-	-	-			
	Max. 6 mm²	Phase	6	18	-	-			
		Neutral	4	18	-	-			
	Max. 10 mm²	Phase	-	-	18	12	36	36	54
		Neutral	-	-	9	12	-	18	27
Accessories included	Pre-stripped copper connections		10 of 4 mm² + 6 of 6 mm² (L=100 mm)	12 blue + 12 black	12 of 10 mm² (L=100 mm)	24 of 10 mm²			36 of 10 mm²
	Protective cover		-	-	For pads (IPxxB)	-			-
	Screws and nuts		-	-	For pads	-			-
References									
2P			-	-	-	**04012** (1)	-	-	-
3P			-	-	-	-	**04013** (1)	-	-
4P			**04008** (1)	**04000**	**04018** (1)	-	-	**04014** (1)	**04026** (1)

(1) Cable to be used without ferrules.

Connection of Linergy FM with upstream device



Upstream device	Linergy BW busbar	Multi-stage Linergy BS busbar	Rear Linergy BS busbar	Device 160 A	Busbar
Connection hardware	4P 200 A connection (supplied with fixing accessories)	4P 200 A connection (supplied with fixing accessories)	4P 200 A connection (supplied with fixing accessories)	4P 160 A connection for Linergy FM 1/2 row	200 A connection (20 x 3 mm) for Linergy FM
References	**04021 + 04150 insulating covers**	**04024**	**04029**	**04030**	**04743**

Accessories for low voltage switchboards
Device feeders

Linergy FC

Feeders for Compact NSX et INS



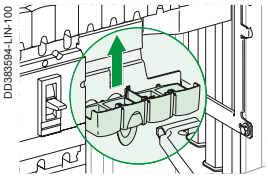
Characteristics	Compact NSX100/250 & INS/INV250 - All controls, fixed and withdrawable	
	Linergy FC without prefabricated connections (1)	
Number of poles	3P	4P
Connection to	Linergy BS, Linergy LGY or Linergy LGYE busbars	
Number of devices	4	3
Composition	Self-adhesive labels to mark the phases for connections to the busbars.	
References		
	04407 (2)	04408 (2)

*(1) The connection of a Linergy FC distribution block using pre-wired connectors or insulated flexible bars is not compatible with Form 2 partitioning (**04922**).*
*In this case, use the form 2 restoration kit (**04924**).*
*(2) For the connection, use insulated flexible bars, 32 x 8 mm (**04753**). Each connection must not be longer than 500 mm. This size is validated with Schneider Electric insulated flexible bars.*

Accessories



Tooth caps

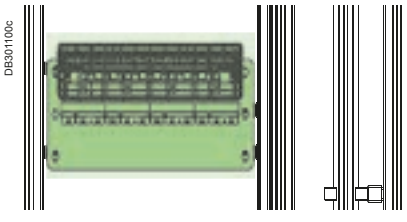


The caps block off the reserve terminals on a Linergy FC distribution block.
Made of an insulating material, they simply clip on from the front.

Reference
04809



Caractéristiques	Mounting plate for Linergy FC	
	Fixing with NSYMPFIX kit	
Material	Galvanised steel	
Supply	1 mounting plate	
	Width (mm)	References
	600	NSYMPLGYFC600
	800	NSYMPLGYFC800



Front view *Side view*

Accessories for low voltage switchboards

Distribution blocks



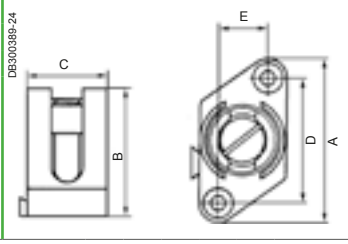




Fig. 1 *Fig. 2*

Characteristics	Sigma safety terminals*	Bimetal terminals	Plate/cable terminals
	Safety terminals made from self-extinguishing Polyamide-6, with matt black base, MS-58 brass terminal (DIN 17660), tempered, zinc-plated and dichromated steel ring, and cover made from orange-coloured self-extinguishing polypropylene. ■ Anti-shearing: the connection is made by means of a tightening mechanism, which distributes the pressure across the entire contact surface, avoiding friction and occasional stress that can damage the conductors. ■ Unloosenable: the ring that surrounds the brass body guarantees that the pressure exerted by the actual conductors cannot open the terminal and loosen the connection. ■ Full insulation: all the SIGMA "S" terminals are supplied with a terminal-covering cap, avoiding any accidental contact with live parts. All the gauges can be coupled together, forming strips of any length. Operating voltage: 500 V.	Terminals specially designed for the junction of cables on plates, their main application is in busbar connections. The bimetal terminals are made from a copper alloy, hot-stamped and tin plated, suitable for connecting a copper or aluminium conductor indistinctly (bimetal).	Entry by plate and junction by cable, plate or terminal.
Supply	20 units (except for ref. NSYS95100: 10 units)	4 bimetal terminals	1 junction terminal

Section (mm²)	A	B	C	D	E	References
1 x 4	30	20	13	21	4	**NSYS04**
1 x 6	33	25	16	24	7	**NSYS06**
1 x 10	38	28	16	28	6	**NSYS10**
1 x 16	42	32	19	32	9	**NSYS16**
1 x 35	46	38	23	34	11	**NSYS2535**
1 x 50	52	45	27	40	15	**NSYS50**
1 x 70	55	50	30	40	15	**NSYS70**
1 x 100	58	54	33	40	20	**NSYS95100**

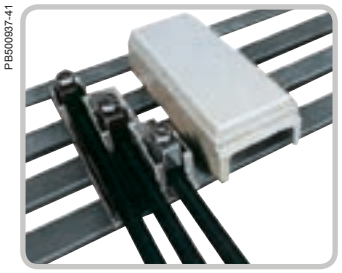


Main section (mm²)	Junction section (mm²)	References
6-50	-	**NSYBBH29**
6-50	-	**NSYBBH29C**
10-95	-	**NSYBBH30**
16-150	-	**NSYBBH31**
50-240	-	**NSYBBH32**
6-50	6-50	**NSYBBH29D**
10-95	10-95	**NSYBBH30D**
25-150	16-150	**NSYBBH31D**
95-240	5-240	**NSYBBH32D**
6-50	-	**NSYBBH29P**
6-50	6-50	**NSYBBH29DPC**

Junction cable section (mm²)	Plate thickness (mm)	Fig.	References
1.5 to 16	5	2	**NSYBPCH516**
1.5 to 50	5	2	**NSYBPCH550**
16 to 120	5	2	**NSYBPCH5120**
1.5 to 16	10	1	**NSYBPCH1016**
1.5 to 50	10	1	**NSYBPCH1050**

** Each terminal accepts up to 2 conductors with the specified section.*

Accessories for low voltage switchboards
Distribution blocks



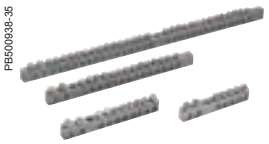


Fig. 3



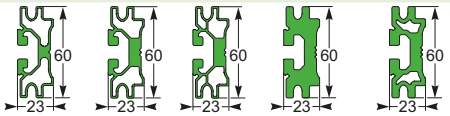
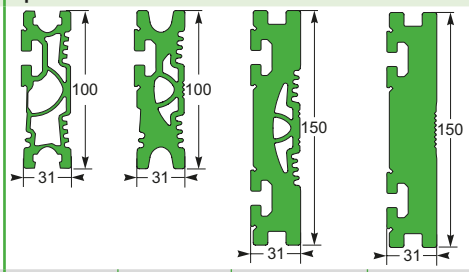
Fig. 4 *Fig. 4*

Characteristics	Three-pole junction terminals				Earthing strips		
	Entry by plate and junction by cable (for busbars).				For the junction of neutral and earth cables. ■ Models **NSYRBL●●** (Fig. 3) for installation in boxes with insulating rear or by means of insulators, not supplied. ■ Models **NSYRBLZ●●** (Fig. 4) with insulating plinth for fitting under pressure on 12 x 2-mm rail.		
Supply	1 junction terminal				10 earthing strips		
	Entry plate width (mm)	**Entry plate thickness (mm)**	**Junction cable section (mm^2)**	**Reference**	**Number of terminals x section mm^2**	**Fig.**	**References**
	12/15/20/25/30	5 to 10	35 to 120	**NSYBTE630TBT**	2 x 16 mm^2 + 5 x 6 mm^2	3	**NSYRBL21656M**
					2 x 16 mm^2 + 8 x 6 mm^2	3	**NSYRBL21686M**
					2 x 16 mm^2 + 14 x 6 mm^2	3	**NSYRBL216146M**
					2 x 16 mm^2 + 29 x 6 mm^2	3	**NSYRBL216296M**
					2 x 16 mm^2 + 5 x 6 mm^2	4	**NSYRBLZ21656**
					2 x 16 mm^2 + 8 x 6 mm^2	4	**NSYRBLZ21686**
					2 x 16 mm^2 + 14 x 6 mm^2	4	**NSYRBLZ216146**
					2 x 16 mm^2 + 29 x 6 mm^2	4	**NSYRBLZ216296**

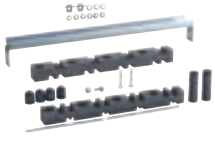
Accessories for low voltage switchboards
Power busbars

Linergy LGYE

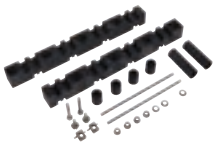
Linergy LGYE - Horizontal profiles up to 4000 A

Installation in Spacial SF		Up to 1600 A					Up to 4000 A			
Linergy profiles, 2000 mm length										
		630 A	**800 A**	**1000 A**	**1250 A**	**1600 A**	**2000 A**	**2500 A**	**3200 A**	**4000 A**
Permissible current for an ambient temperature of 35 °C around the switchboard	IP > 31	530 A	680 A	850 A	1050 A	1480 A	1650 A	2100 A	2800 A	3350 A
Number of profiles per phase		1								
Height available (mm)		150					150		200	
References		**04560**	**04561**	**04562**	**04563**	**04564**	**04565**	**04566**	**04567**	**04568**

Busbar supports



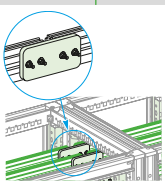
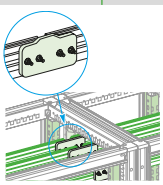
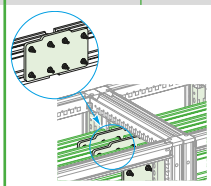
Fixed support
NSYBHS••



Free support
NSYBSA

Characteristics		2 supports shall mandatorily be fastened to the structure of the 800 mm wide Spacial SF cubicle. If the width is greater, add a NSYSUCR40•• cabinet cross rail to add a third fixed support. 1 support shall mandatorily be fastened to the structure of the cubicles of width 300 mm and 400 mm. If more supports are required, use free supports.	
Number of supports depending on Icw (kA rms/1 s)	≤ 15	2 x **NSYBHS••** *	
	≤ 25	2 x **NSYBHS••** *	
	≤ 30	2 x **NSYBHS••** *	
	≤ 40	-	2 x **NSYBHS••** *
	≤ 50	-	2 x **NSYBHS••** *
	≤ 60	-	2+1 ** / 2 x **NSYBHS••** *
	≤ 65	-	2+1 **
	≤ 75	-	2+1 **
	≤ 85	-	2+1 **
	≤ 100	-	2+4 ***
References	Fixed support	**NSYBHS••**	**NSYBHS•• + 04646**
	Free support	**NSYBSA**	**NSYBSA + 04646**

Joints

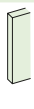
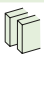
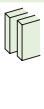
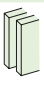
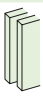
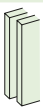
	Up to 1600 A					Up to 4000 A			
	630 A	**800 A**	**1000 A**	**1250 A**	**1600 A**	**2000 A**	**2500 A**	**3200 A**	**4000 A**
									
	04620					**04621**		**04623**	
References	3 x **04620** (3P) 4 x **04620** (4P)					3 x **04621** (3P) 4 x **04621** (4P)		3 x **04623** (3P) 4 x **04623** (4P)	
Note	If insulation clearance < 20 mm add an insulating shield between the busbar and the metallic part of the cabinet.								

** If spacing between supports > 800 mm add 1 NSYBSA free support.*
*** If spacing between supports > 300 mm add 1 NSYBSA free support.*
**** If spacing between supports > 135 mm add 1 NSYBSA free support.*

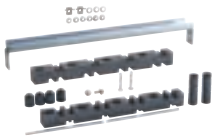
Accessories for low voltage switchboards
Power busbars

Linergy BS

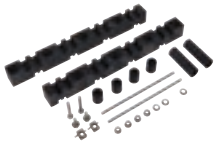
Linergy BS - Horizontal busbars up to 4000 A

Installation in Spacial SF	Up to 1600 A				Up to 4000 A					
Copper without holes, 2000 mm length										
Permissible current for an ambient temp. of 35°C around the switchboard IP > 31	750 A	900 A	1250 A	1600 A	1600 A	1800 A	2000 A	2500 A	2900 A	3340 A
Size of bars (mm)	60 x 5	80 x 5	60 x 5	80 x 5	80 x 10	50 x 10	60 x 10	80 x 10	100 x 10	120 x 10
Number of bars per phase	1	1	2	2	1	2	2	2	2	2
Height available (mm)	150									200
References	**04536**	**04538**	**04536**	**04538**	**04548**	**04545**	**04546**	**04548**	**04550**	**04552**

Busbar supports



Fixed support **NSYBHS••**

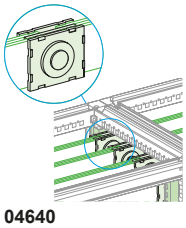
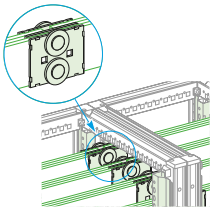
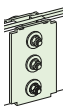


Free support **NSYBSA**

Characteristics		2 supports shall mandatorily be fastened to the structure of the 800 mm wide Spacial SF cubicle. If the width is greater, add a NSYSUCR40•• cabinet cross rail to add a third fixed support. 1 support shall mandatorily be fastened to the structure of the cubicles of width 300 mm and 400 mm. If more supports are required, use free supports.	
Number of supports depending on Icw (kA rms/1 s)	≤ 15	2 x **NSYBHS••** *	
	≤ 25	2+1 ** | 2 x **NSYBHS••** *	
	≤ 30	2+1 ** | 2 x **NSYBHS••** *	
	≤ 40	2+1 ** | 2 x **NSYBHS••** *	
	≤ 50	- | 2+1 ** | 2 x **NSYBHS••** *	
	≤ 60	- | 2+1 **	
	≤ 65	- | 2+1 **	
	≤ 75	- | 2+4 *** | 2+1 **	
	≤ 85	- | - | 2+1 **	
References	Fixed support	**NSYBHS••**	**NSYBHS•• + 04646**
	Free support	**NSYBSA**	**NSYBSA + 04646**

** If spacing between supports > 800 mm add 1 NSYBSA free support.*
*** If spacing between supports > 300 mm add 1 NSYBSA free support.*
**** If spacing between supports > 135 mm add 1 NSYBSA free support.*

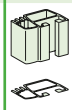
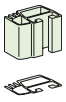
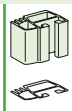
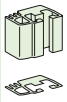
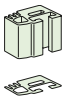
Joints

Installation dans Spacial SF	Up to 1600 A				Up to 4000 A					
	1 vertical bar per phase		2 vertical bars per phase		1 vert. bar per phase	2 vertical bars per phase				
Size of bars (mm)	60 x 5	80 x 5	60 x 5	80 x 5	80 x 10	50 x 10	60 x 10	80 x 10	100 x 10	120 x 10
Sliding joints with torque nut	 04640			 04641						
References	**04640**	**04641**	**04640**	**04641**	**04641**	**04640**	**04640**	**04641**	**04641**	**04643**

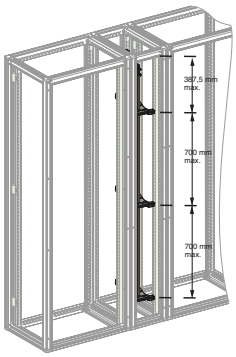
Accessories for low voltage switchboards
Power busbars

Linergy LGY

Linergy LGY - Lateral profiles up to 1600 A

		Up to 1600 A				
Installation in Spacial SF		**L 300**				
						
		630 A	**800 A**	**1000 A**	**1250 A**	**1600 A**
Permissible current for an ambient temp. of 35 °C around the switchboard	IP > 31	590 A	760 A	950 A	1170 A	1480 A
Number of profiles per phase		1				
References		**04502**	**04503**	**04504**	**04505**	**04506**

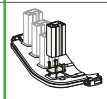
Busbar supports





Fixed support **04651**

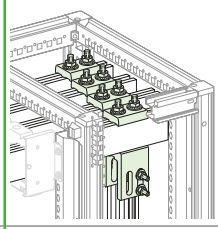
Characteristics



An end stop must be fitted on the bottom support: **01109** (sold in lots of 12)

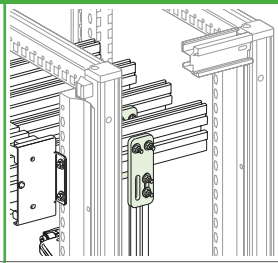
Number depending on Icw (kA rms/1 s)	≤ 25	3				
	≤ 30	-	3			
	≤ 40	-		3		
	≤ 50	-			4	
	≤ 60	-			5	
	≤ 65	-				5
	≤ 75	-				7
	≤ 85	-				8
References		**04651** + upright adapters **NSYSFPA** + **NSYSUCR40••**				
Note		Only for depth cubicle ≥ 500 mm				

Connections to the Linergy BS horizontal busbar



Characteristics			Supplied with mounting hardware. Reference include 1 connection only. Order 1 connection per phase.	
References according to horizontal busbar size	5 mm thick		**04634**	**04635**
	10 mm thick	Width ≤ 80 mm	**04636**	
		Width > 80 mm	**04636** + **04642** **04638** + **04642**	

Connections to the Linergy LGYE horizontal busbar

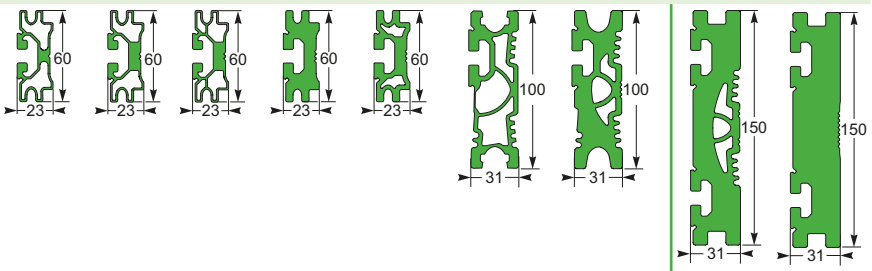


Characteristics	Supplied with mounting hardware. Reference include 1 connection only. Order 1 connection per phase.
References	**04602** (vertical connection) **04603** (vertical shifted connection)

Accessories for low voltage switchboards
Power busbars

Linergy LGYE

Linergy LGYE - Lateral profiles up to 4000 A

	Up to 4000 A								
Installation in Spacial SF	**L 300**								
Linergy profile, 2000 mm length									
	630 A	**800 A**	**1000 A**	**1250 A**	**1600 A**	**2000 A**	**2500 A**	**3200 A**	**4000 A**
Permissible current for an ambient temperature of 35°C around the switchboard IP > 31	530 A	680 A	850 A	1050 A	1480 A	1650 A	2100 A	2800 A	3350 A
Number of profiles per phase	1								
Height available (mm)	150					150		200	
References	**04560**	**04561**	**04562**	**04563**	**04564**	**04565**	**04566**	**04567**	**04568**

Busbar supports





Fixed support **NSYBVS••**



Free support **NSYBSA**

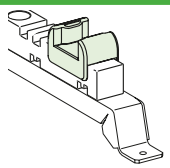


Bottom support **NSYAS••**

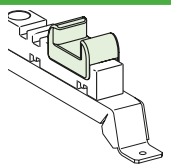
Characteristics		3 fixed supports are compulsory to hold the busbar in position. If more than 3 supports are needed, use free supports (in addition).							
Number depending on Icw (kA rms/1 s)	≤ 30	3							
	≤ 40	-		3+2 *			3		
	≤ 50	-			3+2 *		3		
	≤ 60	-			3+2 *			3	
	≤ 65	-				3+2 *			
	≤ 75	-				3+4 **		3+2 *	
	≤ 85	-				3+4 **			
	≤ 100	-					3+6 ***		
References	Fixed support	**NSYBVS••**						**NSYBHS•• + 04646**	
	Bottom support	**NSYAS••**						**NSYAS•• + 04646**	
	Free support	**NSYBSA**						**NSYBSA + 04646**	

** If spacing between supports > 400 mm add 1 NSYBSA free support.*
*** If spacing between supports > 250 mm add 1 NSYBSA free support.*
**** If spacing between supports > 130 mm add 1 NSYBSA free support.*

Wedging busbars in position



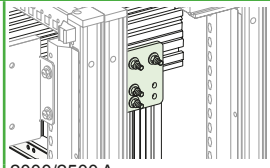
Wedge fitted on bottom support



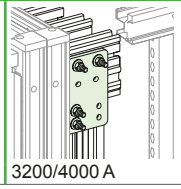
Wedge fitted on bottom support

Characteristics	The bottom support **NSYAS••** + **0465•** is used to place profiles and ensure they are in the correct position. It is not considered to be a busbar support.	
References	**04658** (set of 12 wedges)	**04659** (set of 12 wedges)

Connections to the Linergy LGYE horizontal busbar



2000/2500 A



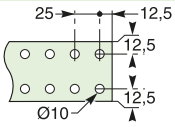
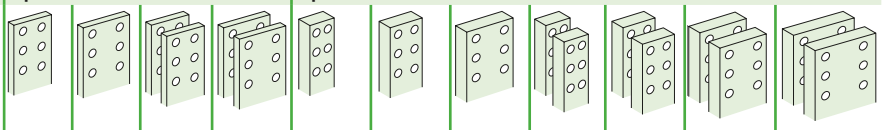
3200/4000 A

Characteristics	Supplied with mounting hardware. Reference include 1 connection only. Order 1 connection per phase.	
References	**04604** (short connection) **04605** (long connection)	**04607**

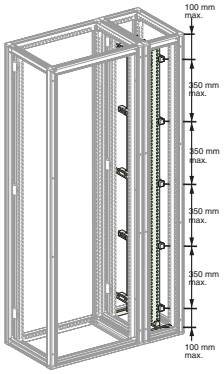
Accessories for low voltage switchboards
Power busbars

Linergy BS

Linergy BS - Lateral flat busbars up to 3200 A

Installation in Spacial SF		Up to 1600 A				Up to 3200 A						
Pre-slotted copper, 1675 mm length 												
Permissible current for an ambient temp. of 35°C around the switchboard	IP > 31	750 A	900 A	1250 A	1600 A	1080 A	1250 A	1600 A	1850 A	2000 A	2500 A	2820 A
Busbar cross-section (mm)		60 x 5	80 x 5	60 x 5	80 x 5	50 x 10	60 x 10	80 x 10	50 x 10	60 x 10	80 x 10	100 x 10
Number of profiles per phase		1		2		1			2			
References		**04516**	**04518**	**04516**	**04518**	**04525**	**04526**	**04528**	**04525**	**04526**	**04528**	**04550**

Busbar supports





Fixed support **NSYBVS••**



Free support **NSYBSA**

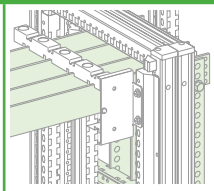


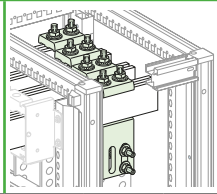
Bottom support **NSYAS••**

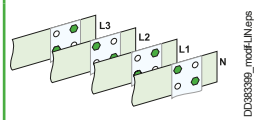
Characteristics		3 fixed supports are compulsory to hold the busbar in position. If more than 3 supports are needed, use free supports (in addition). The bottom wedge support is used to place the busbar and ensure it is in the correct position. It does not count as a busbar support.										
Number of supports depending on Icw (kA rms/1 s)	≤ 15	3 *										
	≤ 25	3+2 *			3 *							
	≤ 30	3+2 *									3 *	
	≤ 40	3+4		3+2 *								
	≤ 50		3+4			3+2 *						
	≤ 60					3+4					3+2 *	
	≤ 65					3+4					3+2 *	
	≤ 75						3+6		3+4			
	≤ 85									3+4		
References	Fixed support	**NSYBVS••**										
	Bottom support	**NSYAS••**										
	Free support	**NSYBSA**										

** If spacing between supports > 350 mm add 1 NSYBSA free support.*

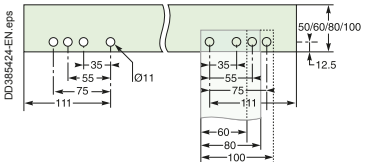
Connections to the Linergy BS horizontal busbar



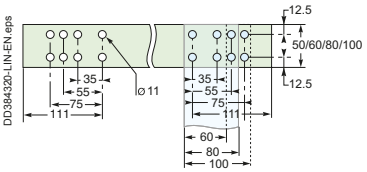


Characteristics		For a busbar with 75 mm distance between bars, the bars must be completely covered. Staggered assembly points between one bar and the next, to maintain the necessary clearance distances.(3)  DD383399_modif-LIN.eps				References **04636**, **04637, 04638** are supplied individually: 1 connection per phase. Reference **04642** consists of 2 M8 x 140 screws which can replace the original M8 x 120 screws.						
		1 bar per phase		2 bars per phase		1 bar per phase			2 bars per phase			
		60 x 5	80 x 5	60 x 5	80 x 5	50 x 10	60 x 10	80 x 10	50 x 10	60 x 10	80 x 10	100 x 10
References depending on horizontal busbar size	Width ≤ 80 mm	**04645**				**04636**		**04637**				**04645**
	Width > 80 mm	**04645**				**04636 + 04642**		**04637 + 04642**				**04645**

(1) Drill hole dimensions for 5 mm thick horizontal busbars.

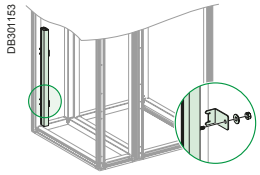


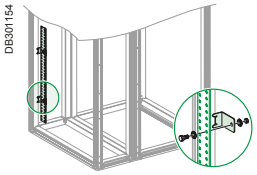
Drill hole dimensions for 10 mm thick horizontal busbars.

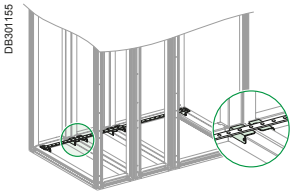


Accessories for low voltage switchboards
PE conductor

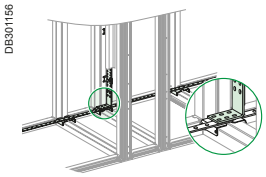
Linergy TB



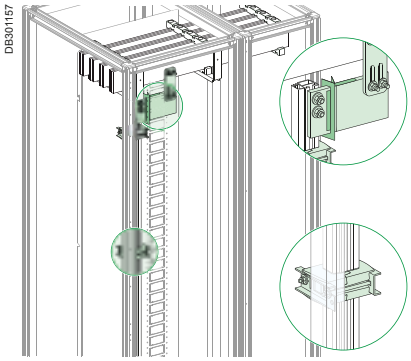




Characteristics	PE conductor						
	Vertical PE conductor with Linergy LGY profile (W = 1670 mm)			Vertical PE conductor with Linergy BS busbar (W = 1675 mm)		Horizontal PE conductor with Linergy BS busbar	
Rated short-time current (Isc)	≤ 65	> 65... ≤ 80	= 100	≤ 40	> 40	≤ 40	> 40
Permissible current (A)	630	800	1250	-	-	-	-
Bar size (mm)	-	-	-	25 x 5	50 x 5	25 x 5	50 x 5
Characteristics	-	-	-	Drilled flat bar Ø10.6 mm (one 10.6 mm hole every 25 mm along the entire length)	Drilled flat bar Ø10.6 mm (two 10.6 mm hole every 25 mm along the entire length)	-	-
References							
	04502	**04503**	**04505**	**04512**	**04515**	**04512**	**04512**



Connection between PE conductors		
	Connection plates for horizontal/vertical PE bars	Linergy connection hardware
Composition	2 copper angle brackets	20 M8 bolts (W = 25 mm) + 20 nuts + 20 contact washers for connection to cable lugs or flexible bars
References		
	04672	**04766**

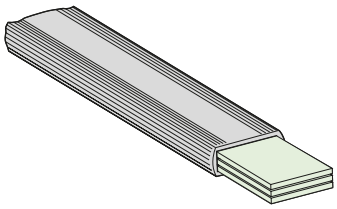


PEN conductor			
	Linergy TB PEN installation kit with LGY vertical profile	1600 A connection 10 mm horizontal busbar with Linergy LGY profile	Linergy LGYE vertical connection 1600 A
References			
	04656	**04636**	**04602**

Accessories for low voltage switchboards

Insulated flexible bars

DD381659-SE



Characteristics

Width	1800 mm
Rated insulation voltage (Ui)	1000 V
Maximum withstand temperature for the insulating material	125 °C

Connection between device and busbars

The flexible bars are determined taking into account the connected device, whatever the internal temperature of the switchboard.
The bar sizes indicated below take into account the derating curves of devices.

Devices	Size (mm)	References
NSX100	20 x 2	**04742**
NSX160/250	20 x 3	**04743**
NSX400	32 x 5	**04751**
NSX630	32 x 8	**04753**
FM 200 A Linergy	20 x 3	**04743**
FC 3P Linergy	32 x 8	**04753**
FC 4P Linergy	32 x 8	**04753**
Fupact 250	24 x 5	**04746**
Fupact 400	32 x 5	**04751**
Fupact 630	32 x 8	**04753**

Accessories for low voltage switchboards

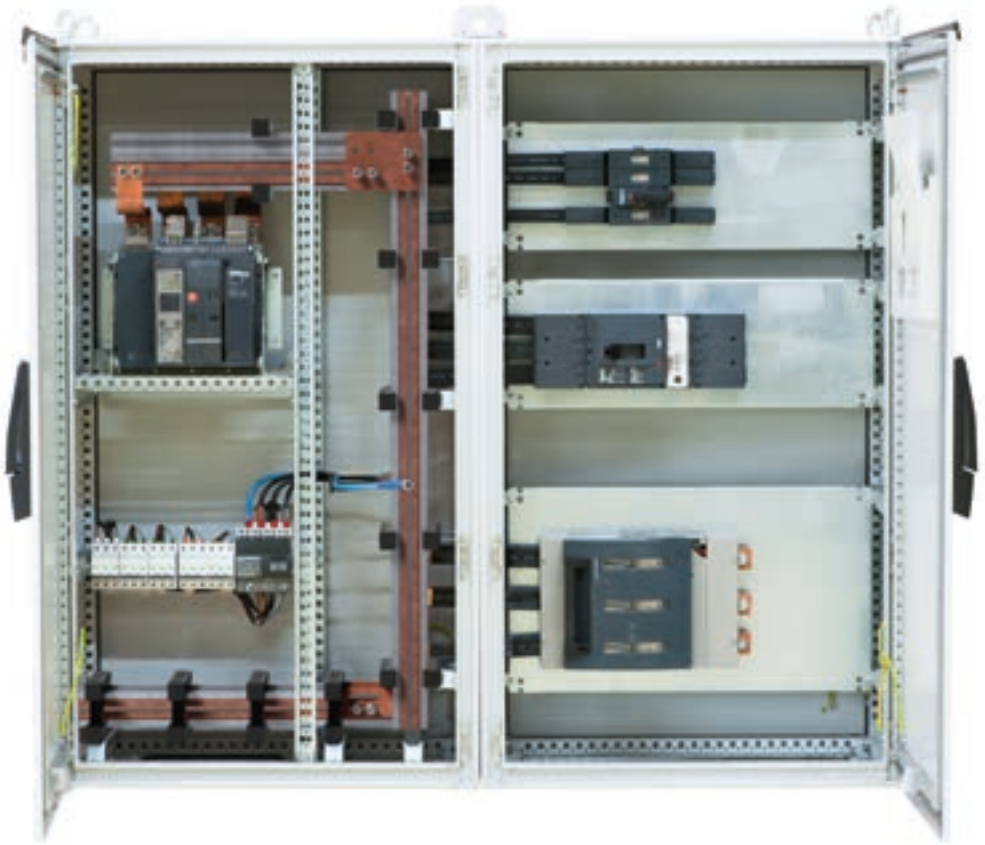
IEC 61439-2 certified assemblies

Introduction

Because low-voltage switchboards must comply with the IEC 61439-2 standard, we have tested the most unfavourable and the most representative configurations (§ 10.10.2 of IEC 61439-1 ed2 2011) ranging up to 4000 A. We thus cover the entire product range, based on the Spacial SF universal assembly system, allowing you to thus comply with the requirements of the standard.

Whether you are an OEM or a panelbuilder, using universal enclosures and looking for flexibility and reliable assembly advice for integration of the equipment, you will find in this guide how to produce in optimal conditions an electrical switchboard fitted with Schneider Electric equipment.

PB503374-R



To meet continuity of service and electrical safety requirements, we provide you with certificates based on assemblies tested with a third-party organization in accordance with the IEC 61439-2 standard, adopting the most commonly used configurations, which will help you to finalize your switchboard with complete confidence using useful, reliable and certain information that has been verified.

These tests cover the entire Spacial SF range of dimensions and supplement our range of tested Spacial SFP enclosures based on the functional unit system of Prisma, and Spacial SFM for MCC applications.
This guide is also an opportunity to give a reminder of the fundamental rules for use of an enclosure and for installation of equipment in Spacial SF.

Accessories for low voltage switchboards

IEC 61439-2 certified assemblies

Compatibility table

Dimensions (mm)			Intensity (A)				
Height	Width	Depth	≤ 800A	≤ 1250A	≤ 1600A	≤ 2500A	≤ 4000A
1200	600	400	•				
		600	•				
	800	400	•				
		600	•				
1400	600	400	•	•			
	800	400	•	•			
1600	600	600	•	•			
		800	•	•			
	800	600	•	•			
		800	•	•			
1800	600	400	•	•	•		
		500	•	•	•		
		600	•	•	•	•	
		800	•	•	•	•	
	800	400	•	•	•		
		500	•	•	•		
		600	•	•	•	•	
	1000	400	•	•	•		
		500	•	•	•		
		600	•	•	•	•	
	1200	400	•	•	•		
		500	•	•	•		
		600	•	•	•	•	
2000	600	400	•	•	•		
		500	•	•	•		
		600	•	•	•	•	
		800	•	•	•	•	•
	800	400	•	•	•		
		500	•	•	•		
		600	•	•	•	•	
		800	•	•	•	•	•
	1000	400	•	•	•		
		500	•	•	•		
		600	•	•	•	•	
		800	•	•	•	•	•
	1200	400	•	•	•		
		500	•	•	•		
		600	•	•	•	•	
		800	•	•	•	•	•
	1600	400	•	•	•		
		500	•	•	•		
		600	•	•	•	•	
2200	600	600	•	•	•	•	
		800	•	•	•	•	•
	800	600	•	•	•	•	
		800	•	•	•	•	•
	1000	600	•	•	•	•	
	1200	600	•	•	•	•	
		800	•	•	•	•	•

"•": Certified dimensions for indicated intensity

[!]

IEC 61439-2 certification **(IECEE CB scheme issued by DEKRA)** is valid only once installation has been carried out, according to the recommendations indicated in the technical guide, "how to assemble a Spacial SF switchboard", with the Schneider Electric devices featured in this guide.



How to assemble a Spacial SF switchboard
(Implementation of the standard IEC 61439)
Technical guide
Ref : UE17MK01EN

Prisma functional system
Introduction

The Prisma functional system can be used for all types of low-voltage distribution switchboards up to 4000 A, in commercial and industrial environments.

PB502719_50



PB502720_72



Switchboard design is very simple



① **A metal structure**
made up of one or more frameworks combined side-by-side or back-to-back.

② **A distribution system**
positioned in a lateral compartment or at the rear of the cubicle are used to distribute electricity throughout the switchboard.

③ **Complete functional units**
- dedicated mounting plate for device installation
- front plate to block direct access to live parts
- devices for on-site connections.

The functional units are modular and are arranged rationally, one on top of another, within the enclosure.
The components of the Spacial SFP and those of the functional units in particular have been designed and tested taking into account device characteristics.
This design approach ensures a high degree of reliability in system operation and optimum safety for personnel.

Advantages of Prisma system switchboards



① **A safe electrical installation**
The total compatibility of Schneider Electric devices with the Prisma system is a key advantage in ensuring a high level of installation dependability.

② **An upgradeable electrical installation**
Thanks to modular design, Spacial SFP switchboards can be modified easily to integrate new functional units as needed.

③ **Total safety for personnel**
Work in a switchboard must be carried out by authorised persons in compliance with all applicable safety regulations. To increase the safety of personnel, devices are installed behind protective front plates; only the operating handles are accessible. Additional internal protection (partitions, barriers) is available to create form 2, form 3 and form 4 separation to protect against direct contacts with live parts.
Terminal shields are mandatory for installation of Compact NSX and INS/INV devices in Prisma system enclosures.

Prisma functional system
Introduction

Use of the components in the Prisma functional system ensures the creation of switchboards complying with standards IEC 62208, IEC 61439-2.

PB500740



Electrical characteristics

- Rated insulation level of main busbars: 1000 V.
- Rated operational current Ie: 4000 A.
- Rated peak withstand current Ipk: 220 kÂ.
- Rated short-time withstand current Icw: 100 kA rms/1 second.
- Frequency: 50/60 Hz.

Mechanical characteristics

- Steel sheet metal.
- Structured finish, epoxy-polyester powder.
- Grey colour RAL 7035.
- Can be dismantled.
- Can be combined side-by-side and back-to-back.
- Degree of protection: IP55 according to IEC 60529.
- Degree of protection against mechanical impacts: IK10 (IK08 for the glazed-door) according to IEC 62262.
- Framework dimensions:
  - ◻ two widths:
    - W 300: cable compartment
    - W 700: device compartment or cable compartment
  - ◻ three depths:
    - D500 up to 1600 A with incoming Masterpact NT and MTZ1 only
    - D600 up to 1600 A with incoming Masterpact NT and MTZ1 only. Possibility to connect with cables from rear
    - D800 up to 3200 A with incoming Masterpact NT and MTZ1 or NW and MTZ2. Possibility to connect to cables from rear or to connect to rear vertical busbars
  - ◻ height: 2000 mm
- Enclosures for indoor installation.

Electrical switchboards built using the Prisma functional system and Schneider Electric recommendations fully comply with international standard IEC 61439-2.

Prisma functional system
Introduction

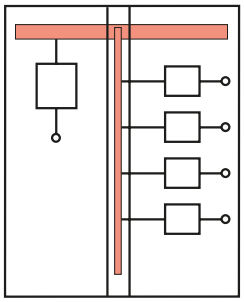
The forms according to IEC 61439-2

Decisions concerning the Form of separation and the degree of protection are the subject of an agreement between the manufacturer and the user.

In most installations, Spacial SFP cubicles do not require partitioning.
In this case, the switchboard is a Form 1.
Safety being one of its foremost goals, Schneider Electric offers options and features that go well beyond the recommendations of the standard.
The protection of life and property is a standard feature due to:
- front plates that require a tool to be removed
- keylocks on doors, some of which provide access to live parts
- the systematic installation of terminal shields on Compact NSX circuit breakers and Compact INS and INV switch-disconnectors
- covering of the upstream and downstream terminals on the incoming device so that operators are perfectly safe at all points in the switchboard when the incoming device is off (open).

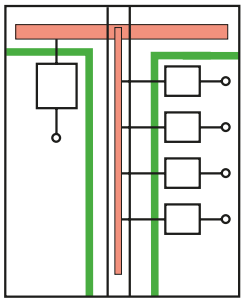
What is more, Spacial SFP offers different levels of partitioning to create separations inside the cubicles and thus create Form 2b, 3b, 4a and 4b electrical switchboards. Electrical switchboards must meet the degree of protection IP2X to comply with standard IEC 61439-2.

Form 1



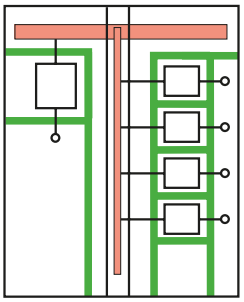
In most installations, Spacial SFP cubicles do not require partitioning. In this case, the switchboard is a Form 1. Safety being one of its foremost goals, Schneider Electric offers options and features that go well beyond the recommendations of the standard.

Form 2b



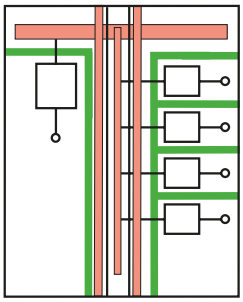
- Terminals for external conductors separated from busbars.
- The functional units and the terminals are separated from the busbars.

Form 3b



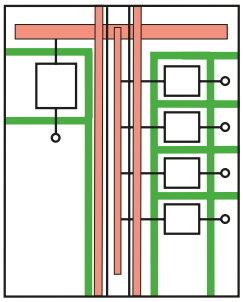
- Terminals for external conductors separated from busbars.
- The functional units are separated from each other and from the busbars.
- The terminals are separated from the busbars, but not from each other.

Form 4a



Terminals for external conductors in the same compartment as the associated functional unit.

Form 4b



Terminals for external conductors not in the same compartment as the associated functional unit, but in individual, separate, enclosed protected spaces or compartments.

Prisma functional system
Introduction

Upgradeable Prisma functional units

Functional units include switchgear mounting plates, front plates, connection supports, barriers…

Masterpact
NW08 to NW40



Masterpact
NT06 to NT16



Masterpact
MTZ1 and MTZ2



Compact NSX
up to 630 A



Compact NS
from 630b to 1600 A



Compact NS
up to 3200 A



Easypact
from 100 to 630 A



Compact INS-INV250-630 A



Compact INS-INV630-2500 A

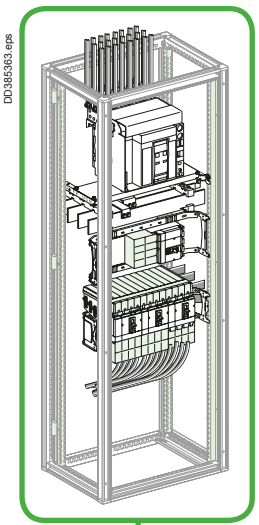


Source changeover systems
Compact/Masterpact



Source changeover
systems Compact INS





Fupact
from 32 to 1250 A



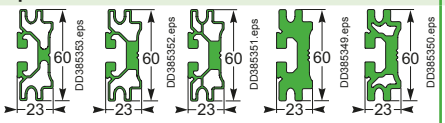
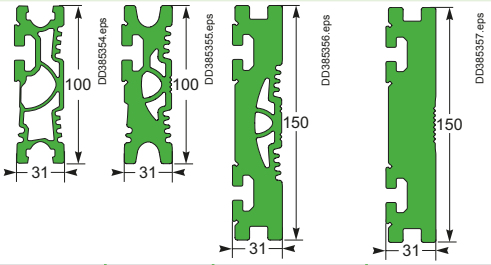
Multi 9 - Acti 9

Accessories

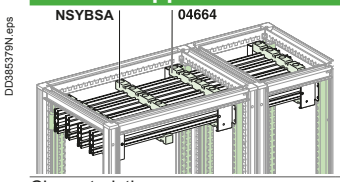
For more informations, see the catalogue Prisma P DESW016EN.

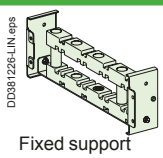
Prisma functional system
Power busbars

Linergy LGYE - Horizontal profiles up to 4000 A

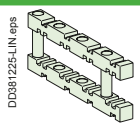
Installation in Spacial SFP		Up to 1600 A					Up to 4000 A			
Linergy profile, 2000 mm length										
		630 A	**800 A**	**1000 A**	**1250 A**	**1600 A**	**2000 A**	**2500 A**	**3200 A**	**4000 A**
Permissible current for an ambient temperature of 35 °C around the switchboard	IP ≤ 31	630 A	800 A	1000 A	1250 A	1650 A	2000 A	2440 A	3200 A	3620 A
	IP > 31	530 A	680 A	850 A	1050 A	1480 A	1650 A	2100 A	2800 A	3350 A
Number of profiles per phase		1								
Total number of vertical modules (50 mm)		3					3		4	
Cat. no.		**04560**	**04561**	**04562**	**04563**	**04564**	**04565**	**04566**	**04567**	**04568**

Busbar supports





Fixed support
04664

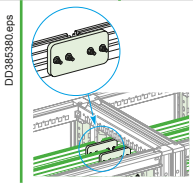
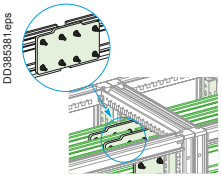
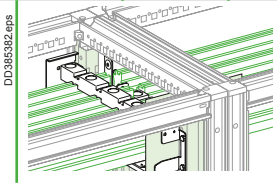


Free support
NSYBSA

Characteristics: 2 fixed supports for Spacial SFP 700 wide frame are compulsory.
1 fixed support for 300/400 wide frame are compulsory.
If more supports are needed, add free supports.

In cubicle: W700 Busbar supports 75 mm distance between bars	Number of supports depending on Icw (kA rms/1 s)	≤ 15	2							
		≤ 25	2							
		≤ 30	2							
		≤ 40	-	2						
		≤ 50	-		2					
		≤ 60	-		2+1		2			
		≤ 65	-			2+1				
		≤ 75	-			2+1				
		≤ 85	-			2+1				
		≤ 100	-				2+2			
Cat. no.	Fixed support	**04664**					**04664** + **04671** (order 1 per support)		**04664** + **04646** (sold in lots of 12 spacers)	
	Free support	**NSYBSA**					**NSYBSA** + **04671** (order 1 per support)		**NSYBSA** + **04646** (sold in lots of 12 spacers)	
In duct: W300 Busbar supports 75 mm distance between bars	Number of supports depending on Icw (kA rms/1 s)	≤ 15	1							
		≤ 25	1							
		≤ 30	1							
		≤ 40	1							
		≤ 50	1							
		≤ 60	1							
		≤ 65	1 + 1							
		≤ 75	1 + 1							
		≤ 85	1 + 1							
		≤ 100	-				1 + 1			
Cat. no.	Fixed support	**04664**					**04664** + **04671** (order 1 per support)		**04664** + **04646** (sold in lots of 12 spacers)	
	Free support	**NSYBSA**					**NSYBSA** + **04671** (order 1 per support)		**NSYBSA** + **04646** (sold in lots of 12 spacers)	

Joints

	Up to 1600 A					Up to 4000 A			
	630 A	**800 A**	**1000 A**	**1250 A**	**1600 A**	**2000 A**	**2500 A**	**3200 A**	**4000 A**
	 **04620**		 **04623**			 **04624**			
Cat. no.	3 x **04620** (3P) 4 x **04620** + **04624** (4P)					3 x **04621** (3P) 4 x **04621** + **04624** (4P)		3 x **04623** (3P) 4 x **04623** + **04624** (4P)	
Note	Reference **04624** is compulsory when installing jointed Linergy LGYE 4P busbars and must be fitted where the frames meet. When installed at the bottom of a cubicle, the busbar must be partitioned.								

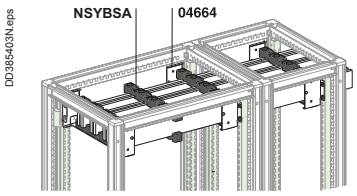
Note: *for accessories, see page 336.*

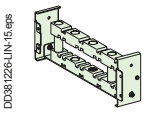
Prisma functional system
Power busbars

Linergy BS - Horizontal flat busbars up to 4000 A

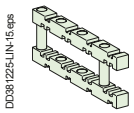
Installation in Spacial SFP		Up to 1600 A				Up to 4000 A					
Copper bar, 2000 mm length											
Permissible current for an ambient temp. of 35 °C around the switchboard	IP ≤ 31	800 A	1000 A	1400 A	1800 A	1800 A	2050 A	2300 A	2820 A	3300 A	3760 A
	IP > 31	750 A	900 A	1250 A	1600 A	1600 A	1850 A	2000 A	2500 A	2900 A	3340 A
Busbar cross-section (mm)		60 x 5	80 x 5	60 x 5	80 x 5	80 x 10	50 x 10	60 x 10	80 x 10	100 x 10	120 x 10
Number of busbars per phase		1	1	2	2	1	2	2	2	2	2
Total number of vertical modules (50 mm)		3									4
Cat. no.		**04536**	**04538**	**04536**	**04538**	**04548**	**04545**	**04546**	**04548**	**04550**	**04552**

Busbar supports





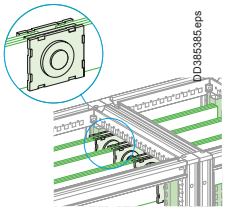
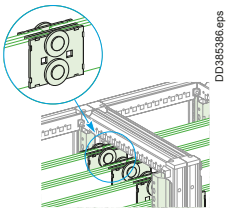
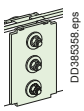
Fixed support **04664**



Free support **NSYBSA**

In cubicle: W700 with 75 mm distance between bars	Characteristics		2 fixed supports for Spacial SFP 700 wide frame are compulsory. 1 fixed support for 300/400 wide frame are compulsory. If more supports are needed, add free supports.								
	Number of supports depending on Icw (kA rms/1 s)	≤ 15	2								
		≤ 25	2+1	2							
		≤ 30	2+1		2						
		≤ 40	2+1			2					
		≤ 50	-	2+1				2			
		≤ 60	-			2+1					
		≤ 65	-			2+1					
		≤ 75	-			2+2	2+1				
		≤ 85	-			-		2+1			
	Cat. no.	Fixed support	**04664**			**04664**			**04664 + 04671**		
		Free support	**NSYBSA**			**NSYBSA**			**NSYBSA + 04671**		
In duct: W300 with 75 mm distance between bars	Number depending on Icw (kA rms/1 s)	≤ 30	1								
		≤ 50	1+1			1					
		≤ 85	-			2					
	Cat. no. depending on depth	Fixed support	**NSYBHS500** (D500) or **NSYBHS600** (D600) or **NSYBHS800** (D800)			**NSYBHS500** (D500) or **NSYBHS600** (D600) or **NSYBHS800** (D800)			**NSYBHS500** (D500) or **NSYBHS600** (D600) or **NSYBHS800** (D800) + **04671**		
		Free support	**NSYBSA**			**NSYBSA**			**NSYBSA + 04671**		

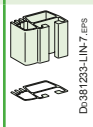
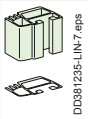
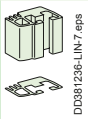
Joints

Installation in Spacial SFP		Up to 1600 A				Up to 4000 A					
		1 vertical bar per phase		2 vertical bars per phase		1 vert. bar per phase	2 vertical bars per phase				
Busbar cross-section (mm)		60 x 5	80 x 5	60 x 5	80 x 5	80 x 10	50 x 10	60 x 10	80 x 10	100 x 10	120 x 10
Sliding joints with self-breaking lock nut		 04640				 04641					
Cat. no.		**04640**	**04641**	**04640**	**04641**	**04641**	**04640**	**04640**	**04641**	**04641**	**04643**

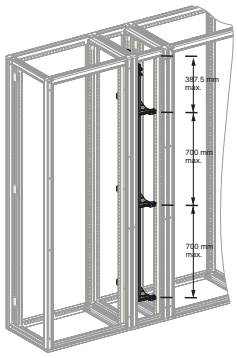
Note: *When installed at the bottom of a cubicle, the busbar must be partitioned.*

Prisma functional system
Power busbars

Linergy LGY - Lateral profiles up to 1600 A

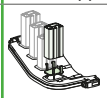
		Up to 1600 A (single busbar)				
In Spacial SFP duct		**W300**				
Linergy profile, 1670 mm length						
		630 A	**800 A**	**1000 A**	**1250 A**	**1600 A**
Permissible current for an ambient temp. of 35 °C around the switchboard	IP ⩽ 31	680 A	840 A	1040 A	1290 A	1650 A
	IP > 31	590 A	760 A	950 A	1170 A	1480 A
Number of profiles per phase		1				
Cat. no.		**04502**	**04503**	**04504**	**04505**	**04506**

Busbar supports

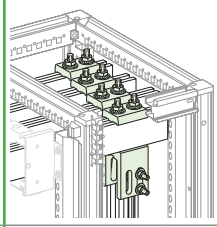




Fixed support **04651**

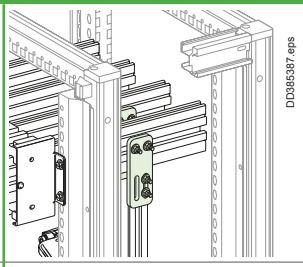
Characteristics			An end stop must be fitted on the bottom support: **01109** (sold in lots of 12)
Number depending on Icw (kA rms/1 s)	⩽ 25	3	
	⩽ 30	-	3
	⩽ 40	-	3
	⩽ 50	-	4
	⩽ 60	-	5
	⩽ 65	-	5
	⩽ 75	-	7
	⩽ 85	-	8
Cat. no.		**04651** (set of 2 upright adapters **NSYSFPA** for installation in Spacial SFP cubicle)	

Connections to the Linergy BS horizontal busbar



Characteristics			Supplied with mounting hardware. Reference include 1 connection only. Order 1 connection per phase.	
Cat. no according to horizontal busbar size	5 mm thick		**04634**	**04635**
	10 mm thick	Width ⩽ 80 mm	**04636**	
		Width > 80 mm	**04636 + 04642** **04638 + 04642**	

Connections to the Linergy LGYE horizontal busbar

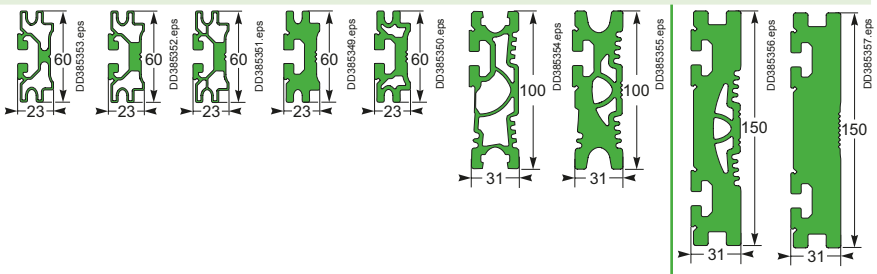


Characteristics	Supplied with mounting hardware. Reference include 1 connection only. Order 1 connection per phase.
Cat. no.	**04602** (vertical connection) **04603** (vertical shifted connection) (1)

(1) Dedicated connection 04603 for Linergy LGYE busbar in 150 mm duct with horizontal jointing.

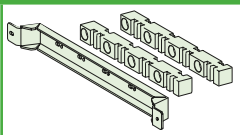
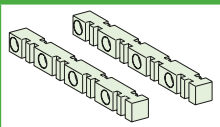
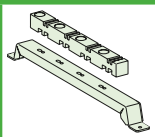
Prisma functional system
Power busbars

Linergy LGYE - Lateral profiles up to 4000 A

		Up to 4000 A							
In Spacial SFP duct		W300							
Linergy profile, 2000 mm length									
		630 A	**800 A**	**1000 A**	**1250 A**	**1600 A**	**2000 A**	**2500 A**	**3200 A**	**4000 A**
Permissible current for an ambient temperature of 35 °C around the switchboard	IP ⩽ 31	530 A	680 A	850 A	1050 A	1480 A	1650 A	2100 A	2800 A	3620
	IP > 31	630 A	800 A	1000 A	1250 A	1650 A	2000 A	2440 A	3200 A	3350
Length to cut for side mounting		1675 mm							1625 mm	
Number of profiles per phase		1								
Cat. no.		**04560**	**04561**	**04562**	**04563**	**04564**	**04565**	**04566**	**04567**	**04568**

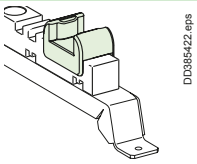
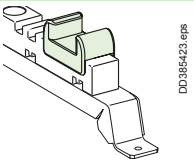
Busbar supports



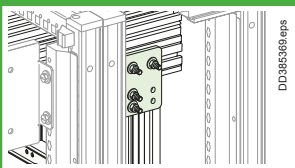
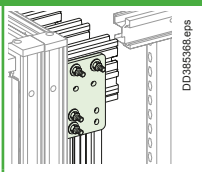
		 Fixed support **NSYBVS500**	 Free support **NSYBSA**	 Bottom support **NSYAS500**
Characteristics		3 fixed supports are compulsory to hold the busbar in position. If more than 3 supports are needed, use free supports (in addition).		
Number depending on Icw (kA rms/1 s)	⩽ 30	3		
	⩽ 40	-	3+2	3
	⩽ 50	-	3+2	3
	⩽ 60	-	3+2	3
	⩽ 65	-	3+2	
	⩽ 75	-	3+4	3+2
	⩽ 85	-	3+4	
	⩽ 100	-		3+6
Cat. no. of supports depending on distance between bars and duct depth	Spacial SFP duct 75 mm distance between bars W300, D500	**NSYBVS500** (fixed) + **NSYBSA** (free) + **NSYAS500** (spacer) (1)		
	Spacial SFP duct 75 mm distance between bars W300, D600	**NSYBVS600** (fixed) + **NSYBSA** (free) + **NSYAS600** (spacer) (1)		
	Spacial SFP duct 75 mm distance between bars W300, D800	**NSYBVS800** (fixed) + **NSYBSA** (free) + **NSYAS800** (spacer) (1)		
	Spacial SFP duct 115 mm distance between bars W300, D800	**NSYBVS800L** (fixed) + **04678** (free) + **NSYAS800L** (spacer) (1)		

*(1) If using a 100 x 10 bars, add a pack of screws ref. **04671** for each fixed support and free support.*

Wedging busbars in position

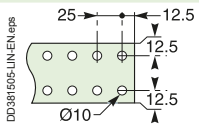
		 Wedge fitted on bottom support **04658**	 Wedge fitted on bottom support **04659**
Characteristics		The bottom support is used to place profiles and ensure they are in the correct position. It is not considered to be a busbar support.	
Cat. no.	Bottom support	**04663**	**04666 + 04661**
	Wedge	**04658**	**04659**

Connections to the Linergy LGYE horizontal busbar

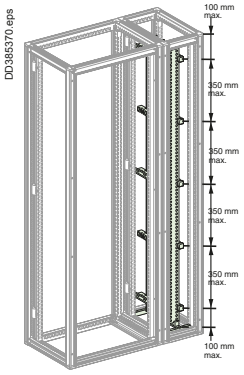
	 2000/2500 A	 3200/4000 A
Characteristics	Supplied with mounting hardware. Reference include 1 connection only. Order 1 connection per phase.	
Cat. no.	**04604** (short connection) **04605** (long connection)	**04607**

Prisma functional system
Power busbars

Linergy BS - Lateral flat busbars up to 3200 A

		Up to 1600 A				Up to 3200 A						
In Spacial SFP duct		W300 D500/600/800				W300 D500/600/800						
Pre-slotted copper, 1675 mm length												
Permissible current for an ambient temp. of 35 °C around the switchboard	IP ⩽ 31	800 A	1000 A	1400 A	1800 A	1200 A	1400 A	1800 A	2050 A	2300 A	2820 A	3200 A
	IP > 31	750 A	900 A	1250 A	1600 A	1080 A	1250 A	1600 A	1850 A	2000 A	2500 A	2820 A
Busbar cross-section (mm)		60 x 5	80 x 5	60 x 5	80 x 5	50 x 10	60 x 10	80 x 10	50 x 10	60 x 10	80 x 10	100 x 10
Number of busbars per phase		1		2		1			2			
Cat. no.		**04516**	**04518**	**04516**	**04518**	**04525**	**04526**	**04528**	**04525**	**04526**	**04528**	**04550** (1)

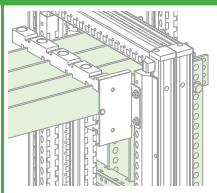
Busbar supports

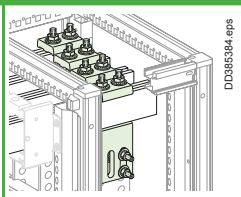


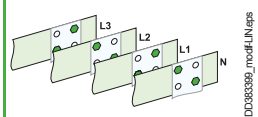
Description		3 fixed supports are compulsory to hold the busbar in position. If more than 3 supports are needed, use free supports (in addition). The bottom wedge support is used to place the busbar and ensure it is in the correct position. It does not count as a busbar support.										
Number of supports depending on Icw (kA rms/1 s)	⩽ 15	3				3						
	⩽ 25	3+2			3	3						
	⩽ 30	3+2				3+2					3	
	⩽ 40	3+4		3+2		3+2						
	⩽ 50		3+4			3+2						
	⩽ 60					3+4					3+2	
	⩽ 65					3+4					3+2	
	⩽ 75						3+6		3+4			
	⩽ 85									3+4		
Cat. no. of supports depending on distance between bars and duct depth	Spacial SFP duct 75 mm distance between bars – W300, D500	**NSYBVS500** (fixed) + **NSYBSA** (free) + **NSYAS500** (spacer) (2)										
	Spacial SFP duct 75 mm distance between bars – W300, D600	**NSYBVS600** (fixed) + **NSYBSA** (free) + **NSYAS600** (spacer) (2)										
	Spacial SFP duct 75 mm distance between bars – W300, D800	**NSYBVS800** (fixed) + **NSYBSA** (free) + **NSYAS800** (spacer) (2)										
	Spacial SFP duct 115 mm distance between bars – W300, D800	**NSYBVS800L** (fixed) + **04678** (free) + **NSYAS800L** (spacer) (2)										

(1) Copper bar without holes.
*(2) If using a 100 x 10 bars, add a pack of screws ref. **04671** for each fixed support and free support.*

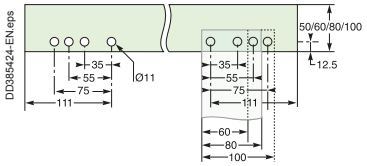
Connections to the Linergy BS horizontal busbar



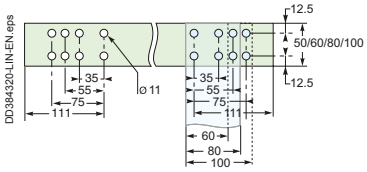


Characteristics		For a busbar with 75 mm distance between bars, the bars must be completely covered. Staggered assembly points between one bar and the next, to maintain the necessary clearance distances.(3) 				References **04636**, **04637, 04638** are supplied individually: 1 connection per phase. Reference **04642** consists of 2 M8 x 140 screws which can replace the original M8 x 120 screws.						
		1 vertical bar per phase		2 vertical bars per phase		1 vertical bar per phase			2 vertical bars per phase			
		60 x 5	80 x 5	60 x 5	80 x 5	50 x 10	60 x 10	80 x 10	50 x 10	60 x 10	80 x 10	100 x 10
Cat. no. of the connection piece depending on horizontal busbar size	⩽ 80 mm	**04645**				**04636**		**04637**	**04637**			**04645**
	> 80 mm	**04645**				**04636 + 04642**		**04637 + 04642**	**04637 + 04642 04638 + 04642**			**04645**

(3) Drill hole dimensions for 5 mm thick horizontal busbars.

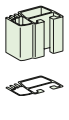
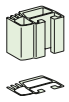
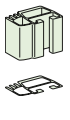
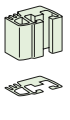
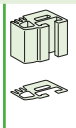


Drill hole dimensions for 10 mm thick horizontal busbars.

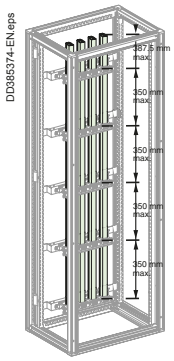


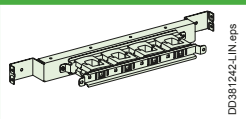
Prisma functional system
Power busbars

Linergy LGYE - Rear profiles up to 1600 A

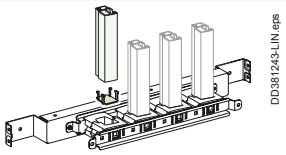
		Up to 1600 A				
At the rear of a Spacial SFP cubicle		**W700**				
Linergy profile, 1670 mm length		 DD381233-LIN-7.eps	 DD381234-LIN-7.eps	 DD381235-LIN-7.eps	 DD381236-LIN-7.eps	 DD381237-LIN_7.eps
		630 A	**800 A**	**1000 A**	**1250 A**	**1600 A**
Permissible current for an ambient temp. of 35 °C around the switchboard	IP ≤ 31	680 A	840 A	1040 A	1290 A	1650 A
	IP > 31	590 A	760 A	950 A	1170 A	1480 A
Number of profiles per phase		1				
Cat. no.		**04502**	**04503**	**04504**	**04505**	**04506**

Busbar supports

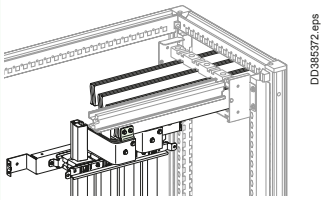



DD381242-LIN.eps

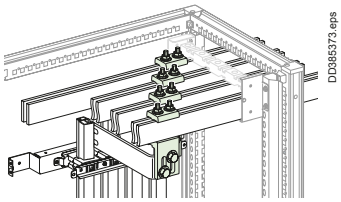
Fixed support **04652**

Number depending on Icw (kA rms/1 s)	≤ 25	3			
	≤ 30		4		
	≤ 40			5	
	≤ 50				7
Characteristics		 DD381243-LIN.eps		An end stop must be fitted on the bottom support **01109** (sold in lots of 12)	
Cat. no.		**04652**			

Connections to the Linergy BS horizontal flat busbar


DD385372.eps

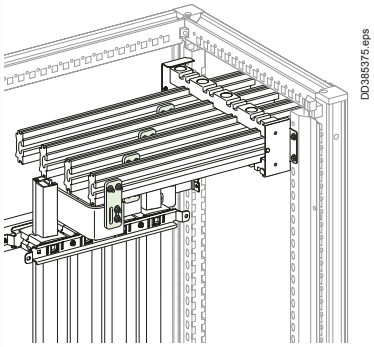
04635 connection to 5 mm thick horizontal busbar


DD385373.eps

04636 connection to 10 mm thick horizontal busbar

Characteristics			Fixings supplied, order 1 connection per phase. For part of the connection, flexible insulated busbars are needed.
Cat. no. according to horizontal busbar size	5 mm thick		**04635**
	10 mm thick	Width ≤ 80 mm	**04636**
		Width > 80 mm	**04636** + **04642**

Connections to the Linergy LGYE horizontal flat busbar

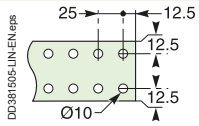

DD385375.eps

04602 connection to the Linergy LGYE horizontal flat busbar

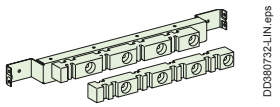
Characteristics	Fixings supplied, order 1 connection per phase. For part of the connection, flexible insulated busbars are needed.
Cat. no.	**04602**

Prisma functional system
Power busbars

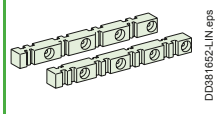
Linergy LGYE - Rear flat busbars up to 1600 A

			Up to 1600 A				
At the rear of a Spacial SFP cubicle			**W700**				
Pre-slotted copper, 1670 mm length							
		800 A	**1000 A**	**1400 A**	**1000 A**	**1200 A**	**1600 A**
Permissible current for an ambient temperature of 35 °C around the switchboard	IP ⩽ 31	800 A	1000 A	1400 A	-	-	-
	IP > 31	750 A	900 A	1250 A	1080 A	1250 A	1600 A
Busbar cross-section (mm)		60 x 5	80 x 5	60 x 5	50 x 10	60 x 10	80 x 10
Number of busbars per phase		1		2	1		
Cat. no.		**04516**	**04518**	**04516**	**04525**	**04526**	**04528**

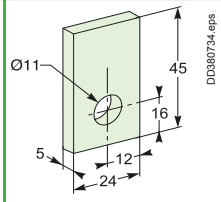
Busbar supports



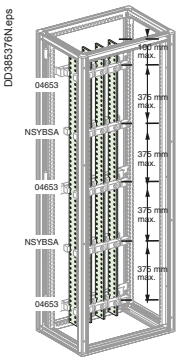
Fixed busbar support **04653**



Busbar free support **NSYBSA**

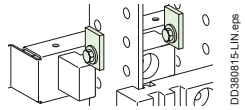


Mounting chocks **04669**

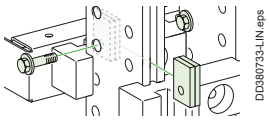


Characteristics

3 fixed supports ref. 04653 are compulsory to keep the busbar vertical.
If more than 3 supports are needed, use free support ref. NSYBSA (in addition).
Metal shim ref. 04669 (sold in lots of 100), 5 mm thick, is screwed onto the busbar.
It rests on a fixed support and is used to wedge the busbar in position.



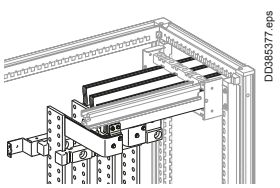
Wedging: 1 busbar/phase



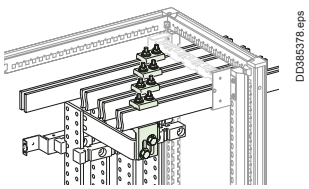
Wedging: 2 busbars/phase

Number depending on Icw (kA rms/1 s)	⩽ 15	3			3	
	⩽ 25	3+2			3	
	⩽ 30	3+2			3+2	
	⩽ 40	3+4		3+2	3+2	
	⩽ 50		3+4		3+2	
	⩽ 60				3+4	
	⩽ 65				3+4	
	⩽ 75					3+6
	⩽ 85					
Cat. no.		**04653** (fixed) + **NSYBSA** (free) + **04669** (spacer)				

Connections to the Linergy BS horizontal flat busbar



04635 connection to horizontal busbar
5 mm thick

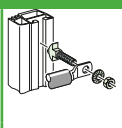


04636 connection to horizontal busbar
10 mm thick

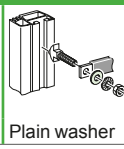
Characteristics			For part of the connection, flexible insulated busbars are needed. References **04635**, **04636** are supplied individually = 1 connection per phase. Reference **04642** consists of 2 M8 x 140 screws which can replace the original M8 x 120 screws.
Cat. no. according to horizontal busbar size	5 mm thick		**04635**
	10 mm thick	Width ⩽ 80 mm	**04636** (1)
		Width > 80 mm	**04636** + **04642** (1)

(1) To be made.

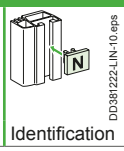
Linergy LGYE - Accessories



Linergy screw



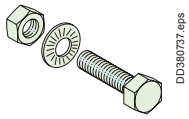
Plain washer



Identification

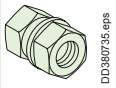
Linergy screw	Characteristics		Sold in lots of 20: 20 screws + 20 nuts + 20 contact washers, class 8.8. The screws slide into the profile and are then locked in the desired position.
	Cat. no.	25 mm length 39 mm length	see the table "Connections on Linergy LGYE & LGY" below
Steel plain washers	Characteristics		M8 sold in lots of 20
	Cat. no.	ext. Ø20 mm	**04772**
		ext. Ø24 mm	**04773**
		ext. Ø28 mm	**04774**
Brass plain washers	Characteristics		M8 sold in lots of 20 for connection of ≤ 25 mm² lugs to Linergy
	Cat. no.	ext. Ø20 mm	**04775**
Identification	Characteristics		12 clip-on supports + N, L1, L2, L3, PE, PEN labels
	Cat. no.		**04794**
	Characteristics		Linergy LGYE busbar screw plate kit after sales service
	Cat. no.		**01130**

M8 bolts



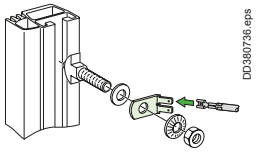
Linergy BS, 20 bolts 8.8 class	Characteristics		Set of 20 bolts + 20 nuts + 40 contact washers.
	Cat. no.	M8 x 20	**04782**
		M8 x 25	**04783**
		M8 x 30	**04784**
		M8 x 35	**04785**
		M8 x 40	**04786**
		M8 x 45	**04787**
		M8 x 50	**04788**

Torque nuts



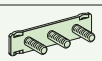
20 M8 torque nuts	Characteristics	Can be used to obtain the correct tightening torque (28 Nm) recommended by then manufacturer, without using a torque wrench. Torque nuts may be used for all electrical connections.
	Cat. no.	**04759**

Voltage tap-offs



20 M10 voltage tap-offs for two 6.35 mm tab connectors	Characteristics	For small lugs (on low-current cables or measurement tap-offs), insert a conducting washer (cat. no. 04775) between the busbar and the lug.
	Cat. no.	**04229**

Connections on Linergy LGYE & LGY

InA (A)		Connection on Linergy	Utilisation	Cat no.	
0 to 630	Cable Insulated flexible bar	Use the 25 mm Linergy screw	Recommended	**04766**	
		Use the 39 mm Linergy screw	Possible	**04767** (1)	
800 to 1250	5 mm thick bar	Use the 25 mm Linergy screw	Recommended	**04766**	
		Use the 39 mm Linergy screw	Possible	**04767** (1)	
		Use the flat plate screw with 2 studs	Possible	**04768**	
1600 to 2500	5 or 10 mm thick bar	Use the flat plate screw with 2 studs	Recommended	**04768**	
		Use the 39 mm Linergy screw	Possible	**04767** (1)	
3200 to 4000	10 mm thick bar	Use the flat plate screw with 3 studs	Recommended	**04769**	

(1) ***04767*** *is only compatible with Linergy LGY.*

Prisma functional system
Characteristics

Form 1 partitioning

Presentation

Decisions concerning the Form of separation and the degree of protection are the subject of an agreement between the manufacturer and the user.

In most installations, Spacial SFP cubicles do not require partitioning. In this case, the switchboard is a Form 1.

Safety being one of its foremost goals, Schneider Electric offers options and features that go well beyond the recommendations of the standard.

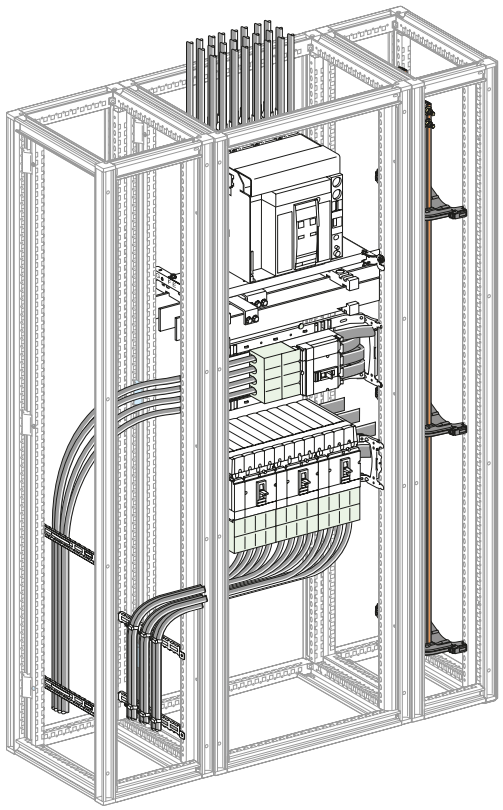
The protection of life and property is a standard feature due to:

> front plates that require a tool to be removed
> keylocks on doors, some of which provide access to live parts
> the systematic installation of terminal shields on Compact NSX circuit breakers and Compact INS and INV switch-disconnectors.

What is more, Spacial SFP offers different levels of partitioning to create separations inside the cubicles and thus create Form 2b, 3b, 4a & 4b electrical switchboards.

Electrical switchboards must meet the degree of protection IP2X to comply with standard IEC 61439-2.

DD385393

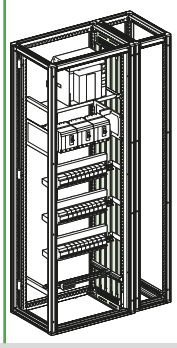
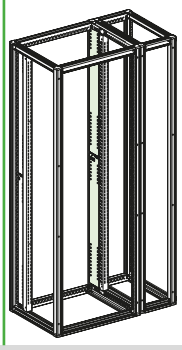
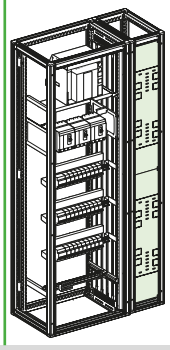
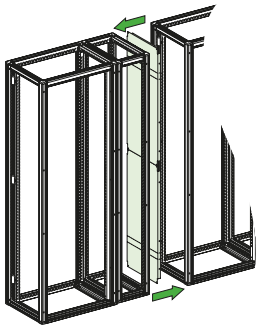
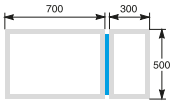
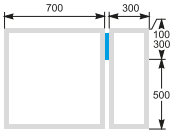
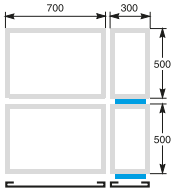
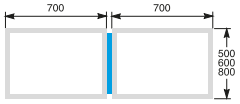


The protection of life and property is ensured by the systematic installation of terminal shields on Compact NSX circuit breakers and on Compact INS and INV switch-disconnectors (see the pages on the functional units).

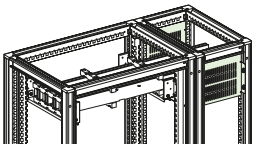
Prisma functional system
Characteristics

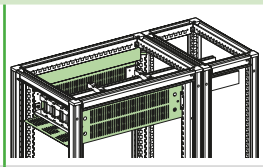
Form 2b partitioning

Separation of busbars from the functional units:
- protection against contact with live parts upstream of the outgoing circuits
- protection against penetration of foreign solid bodies.

	Lateral partitioning	Form 2 restoration for side-barrier cut-out	Partitioning extension	Front and rear barrier	Inter-cubicle partitioning
	DD384407.eps 	DD384408.eps 	DD384409.eps 	DD384410.eps 	
Schemes					
	DD383356.EPS 	DD385542.eps 	DD383360.EPS 	DD385543.eps 	
Characteristics	■ Vertical barrier made of insulating slats. ■ Can be installed on both sides of Linergy and flat busbars. ■ The space between the slats is sufficient for prefabricated connections (one copper bar, 5 or 10 mm thick, or insulated flexible bars) or for cables up to 35 mm², while maintaining the degree of protection IP2X compliance with standard IEC 60695.2.1 concerning withstand to fire.	■ This kit enables passage of the connection between a device > 1600 A (NW, INS) and lateral vertical busbars. ■ It is made up of an insulated plate (six modules H 300 mm) that can be cut as required, supplied with supports and the necessary hardware.	■ For the Spacial SFP system switchboards 600 and 800 mm depth, a partitioning extension is required.	■ Front protection is realized by the association of the door W300 and this barrier. Metallic barrier, composed of 2 parts H850, pre-cut at both ends. ■ Rear protection, a barrier is required at the rear of the busbar compartment in cubicles that are 800, 1000 and 1300 mm deep.	■ Metal partition, used to separate two adjacent cubicles. ■ It is made up of two panels, each 850 mm high. ■ The top and bottom ends have knock-outs for horizontal busbars. ■ Supplied with the necessary supports and hardware, the partition is mounted on the framework and does not hinder installation of the functional mounting plates.
Referencias	**06545**	**04924**	D600: **06541** D800: **06543**	**06540**	D500: **06555** D600: **06555** + **06541** D800: **06555** + **06543**

Partitioning of horizontal busbars

DD384412.eps 

DD384411.eps 

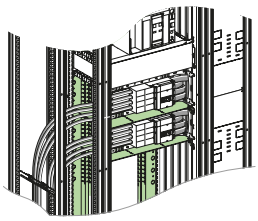
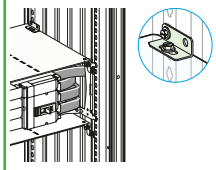
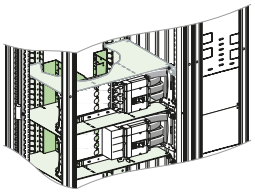
	W300			W700		
Designation	■ Set of two barriers (front and rear), plus a slotted rear panel for efficient natural convection in the switchboard. ■ The set can be used to partition horizontal busbars installed at the top or bottom of the cubicle. ■ The space required for the busbars is not increased.					
For Depth	D500	D600	D800	D500	D600	D800
Cat. no. for 3M busbar	**06560**	**06561**	**06563**	**06570**	**06570**	**06570**
Cat. no. for 4M busbar	**06568**	**06568**	**06568**	**06567**	**06567**	**06567**

Note: *when the busbars are at the bottom of the cubicle, gland plates are mandatory.*

Prisma functional system
Characteristics

Form 3b partitioning

Separation of busbars from the functional units and separation of all functional units from one another.
Separation of the terminals for external conductors from the functional units, but not from each other.
- protection against contact with live parts
- reduction in the risk of faults between the functional units (propagation of electrical arcs, etc.).

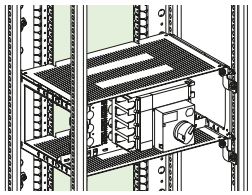
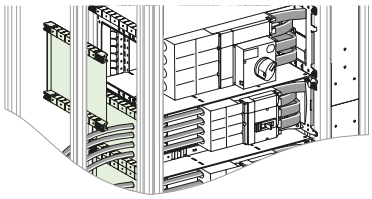
	Front connection			Rear connection	
	DD384420.eps 		DD384422.eps 	DD384421.eps 	
	Horizontal metal partition, W650 mm	**Rear support for partitions, W650 mm**	**6 universal angle brackets**	**Rear connection**	
Characteristics	■ A horizontal metal partition can be used to physically separate functional units from one another.	■ It is fixed at the rear by a support (two uprights) secured to the framework (500 mm deep) or to the intermediate uprights (800 mm deep frameworks).	■ A set of brackets can be used to install partial Form 3 partitioning in the cubicle. ■ It does not take up any useful space in the switchboard.	■ Vertical partitions (two cat. no. per functional unit)	
				3 to 4 modules	5 to 6 modules
Cat. no.	**04901**	**04943**	**03583**	**04955**	**04956**

Prisma functional system
Characteristics

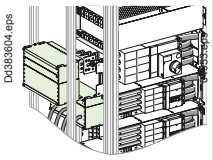
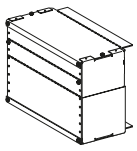
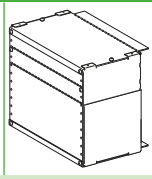
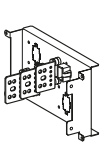
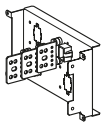
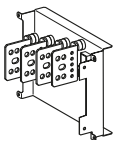
Form 4 partitioning

■ Separation of busbars from the functional units and separation of all functional units from one another, including the terminals for external conductors which are an integral part of the functional unit.
■ Protection against contacts with live parts and reduction in the risk of faults between the functional units (propagation of electrical arcs, etc.).
■ Form 4a: terminal for external conductors in the same compartment as the associated.
■ Form 4b: Terminals for external conductors not in the same compartment as the associated functional unit, but in individual, separate, enclosed protected spaces or compartments.

Form 4a partition

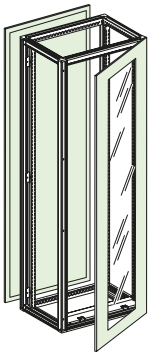
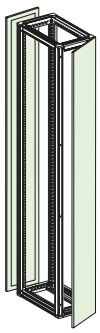
	For front connection		
	DD385389.eps 	Dd383603.eps 	
	Form 4a backplate (one cat. no. per cubicle)	**Form 4a gland plate**	
Characteristics	■ a backplate (one cat. no. per cubicle) made up to two metal half panels mounted on the rear supports for Form 3 partitions. This backplate is not indispensable for 500 mm deep frameworks.	■ a plastic gland plate that can be easily cut out (one for each functional unit) and is mounted on the framework.	
		3 or 4 modules	5 or 6 modules
Cat. no.	**04946**	**04951**	**04952**

Form 4b partition

	Dd383604.eps 	04954.eps 	06606.eps 	06607.eps 	06604.eps 	06605.eps 
			Connection transfer assembly, 3 to 5 modules, 250 A		**Connection transfer assembly, 4 to 6 modules, 630 A**	
Characteristics	■ a cover with metallic gland plates that can be easily cut out on the side and bottom. It is available in two heights:		■ transfert assembly without connection to simplyfied the cable installation.		■ transfert assembly without connection to simplyfied the cable installation.	
	3 to 5 modules	4 to 6 modules	3P	4P	3P	4P
Cat. no.	**06600**	**06601**	**06606**	**06607**	**06604**	**06605**

Prisma functional system
Selection guide

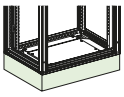
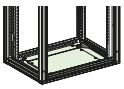
Common characteristics
- ■ Roof characteristics:
  - □ equipped with a factory-mounted polyurethane (PUR) gasket
  - □ supplied with mounting hardware
  - □ with markings for clear identification of cable-running zones
- ■ The cables compartment can be mounted on the right or left.
- ■ Can be combined side-by-side or back-to-back.
- ■ Receive the IP55 (according to IEC 60529) cover panels.

Mounting	W700			W300		
	 DD385545.eps			 DD385546.eps		
Depth	**D500**	**D600**	**D800**	**D500 (1)**	**D600 (1)**	**D800 (1)**
Assembled enclosures H2000 Plain door	**NSYSFP20750**	**NSYSFP20760**	**NSYSFP20780**	**NSYSF20350**	**NSYSF20360**	**NSYSF20380**
Assembled enclosures H2000 Glazed door	**NSYSFP20750T**	**NSYSFP20760T**	**NSYSFP20780T**	-	-	-
Adapter uprights for busbar installation in vertical on Linergy LGY  06502.eps	-	-	-	**NSYSFPA**	**NSYSFPA + NSYSUCR40200**	**NSYSFPA + NSYSUCR40200**
Side panel (Set of 2) (2)  DD384425.eps	**NSY2SP205**	**NSY2SP206**	**NSY2SP208**	**NSY2SP205**	**NSY2SP206**	**NSY2SP208**
Pivoting frame (3)  DD381324.eps	**08566**	**08566**	**08566**	-	-	-

(1) For cables and to install Linergy LGYE, BS busbar.
(2) An earthing braid must be installed between the lateral panels and the frame.
(3) Reversible for left or right-hand opening.

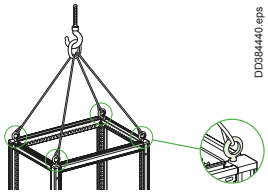
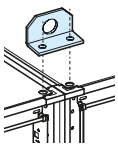
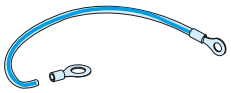
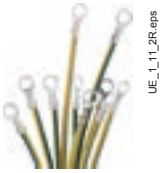
Prisma functional system
Selection guide

Accessories

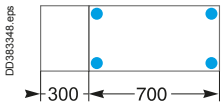
Width			W700			W300		
Depth			D500	D600	D800	D500	D600	D800
 DD384428.eps	Plinth H100 (1)	Front and rear cross-pieces	NSYSPF7100	NSYSPF7100	NSYSPF7100	NSYSPF3100	NSYSPF3100	NSYSPF3100
		Lateral cross-pieces	NSYSPS5100	NSYSPS6100	NSYSPS8100	NSYSPS5100	NSYSPS6100	NSYSPS8100
	Plinth H200 (1)	Front and rear cross-pieces	NSYSPF7200	NSYSPF7200	NSYSPF7200	NSYSPF3200	NSYSPF3200	NSYSPF3200
		Lateral cross-pieces	NSYSPS5200	NSYSPS6200	NSYSPS8200	NSYSPS5200	NSYSPS6200	NSYSPS8200
 DD384427.eps	1 entrie gland-plates		NSYEC751	NSYEC761	NSYEC781	NSYEC351	NSYEC361	NSYEC381

(1) The plinth is made up of two catalogue numbers: front and rear cross-pieces + lateral cross-pieces.

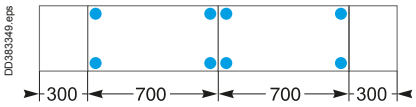
Other accessories

	 DD385544.eps	 DD384440.eps	 NSYFELB.eps		 DD384388.eps	 UE_1_11_2R.eps
	Coupling kit	**4 lifting rings**	**4 lifting brackets**	**Set of 20 screws + M6 nuts**	**Earthing wire, 6 mm²**	**Earthing braid (3)**
Description	■ side-by-side combination ■ back-to-back combination (2): - D500+D500 - D800+D500	■ Use a set of lifting rings for each framework (4) (W700 mm) containing devices.	■ When two cubicles with devices have been combined, use a lifting beam.		The wire is equipped with a 4 mm diameter lug at one end and a 6 mm diameter lug on the other. The earthing wire is used to earth: ■ a door or wicket door with devices ■ a front-plate support frame equipped with switchgear in a cubicle.	■ For NSYEL166D8: Length 160 mm, Section 6 mm², Terminal 8.3 mm. ■ For NSYEL3525D8: Length 350 mm, Section 25 mm², Terminal 8.3 mm.
Cat. No.	**NSYSFBK19**	**NSYSFEB**	**NSYSFELB**	**06461**	**08911**	**NSYEL166D8 / NSYEL3525D8**

(2) Back to back association must be shipped individually and combined during on-site installation.
(3) An earthing braid must be installed between the roof and the frame.
(4) For one framework



For two frameworks



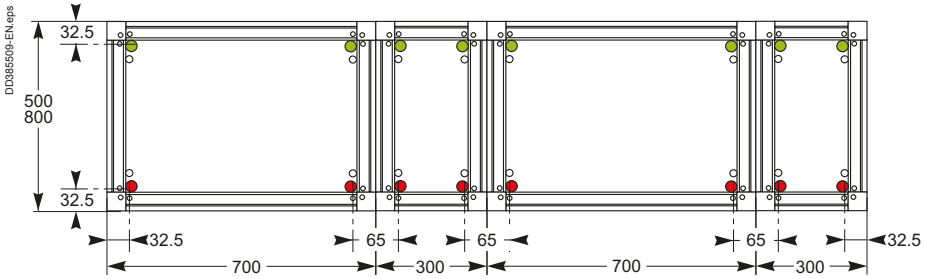
Prisma functional system
Selection guide

Seismic application 3G withstand					
		1600 A configuration (1)		3200 A configuration	
		Spacial SFP	Busbar duct	Spacial SFP	Busbar duct
Nominal dimensions	Height	2000	2000	2000	2000
	Width	700	300	700	300
	Depth	500	500	800	800
Additional dummy load (kg)		350	350	450	450
Seismic plinth H100 mm - Cat. no.		**NSYS5GPC75**	**NSYS5GPC35**	**NSYS5GPC78**	**NSYS5GPC38**

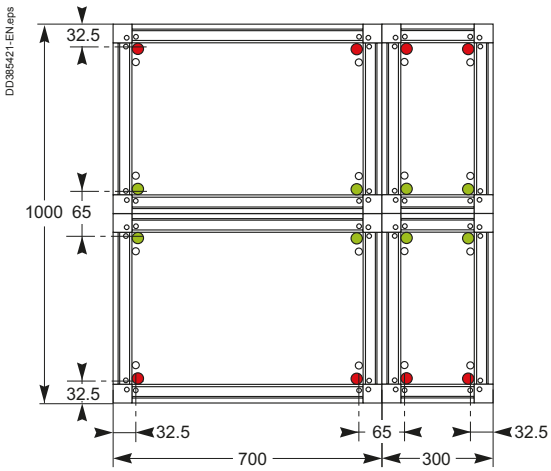
Note: incoming by pre-frabricated busbar truncking is forbidden for seismic application.
(1) Not compatible for depth 600 mm.

Ground fastening

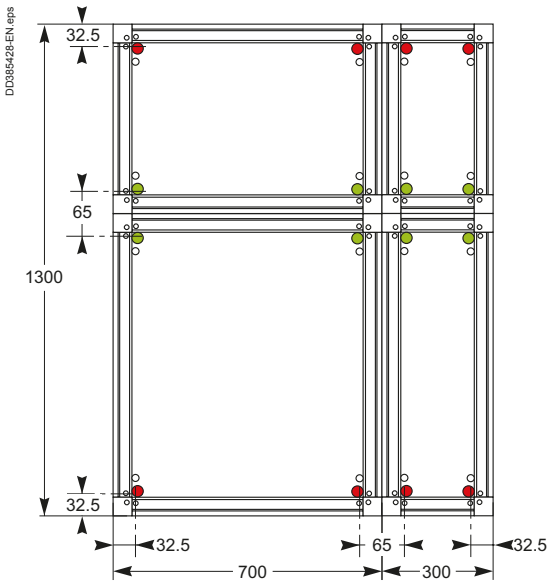
■ Front connection (example: device cubicle W700 mm + compartment W300 mm)



■ Rear connection D1000
(example: device cubicle + compartment D500 + D500 mm)



■ Rear connection D1300
(example: device cubicle + compartment D800 + D500 mm)



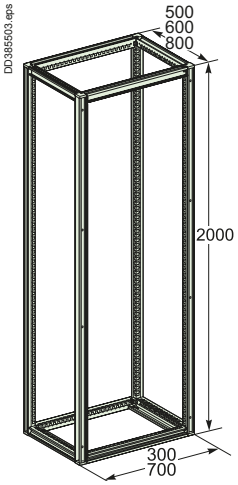
● compulsory fixing point
● optional fixing point

■ 8.8-class screws: screw M10 TH
+ washers (external Ø 25 mm, thickness 3 mm)
+ CS contact washers Ø 10 mm.

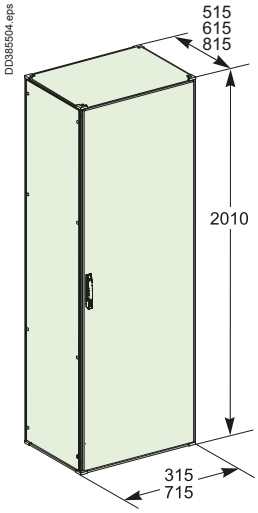
Prisma functional system
Dimensions

Cubicles

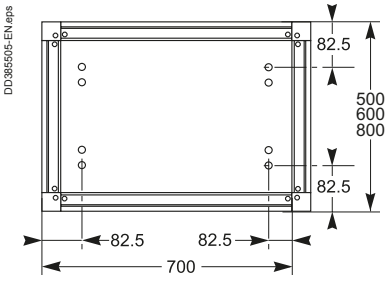
Profile



Cover panels, plain or transparent door, lateral panels

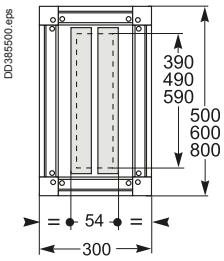


Standard plinth

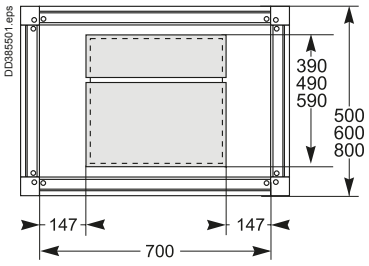


Gland plates

W300

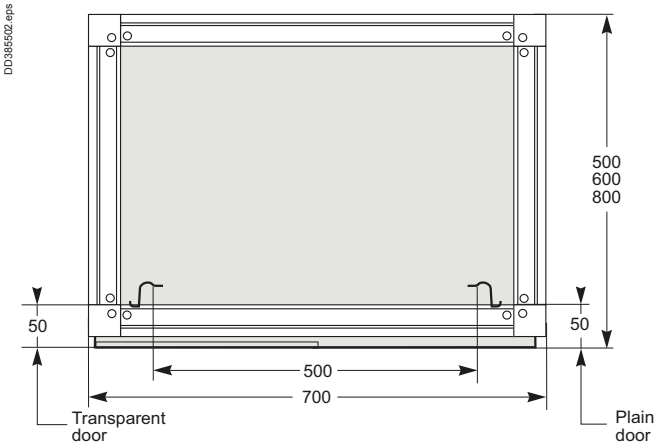


W700



Functional system in Spacial SFP switchboards, cubicle mounting

D500, D600, D800

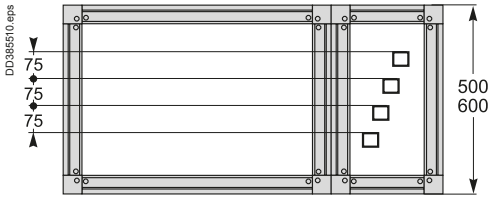


Prisma functional system
Dimensions

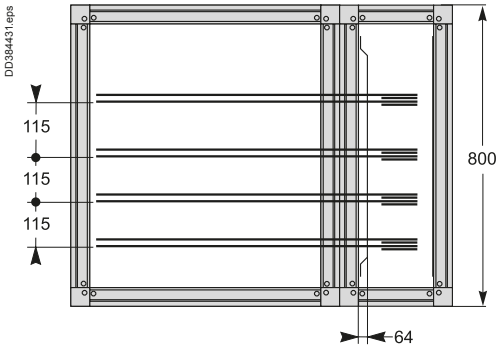
Ground fastening

Busbars mounting, Lateral vertical busbars

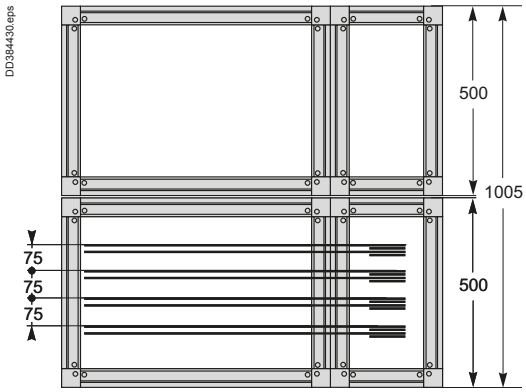
1600 A



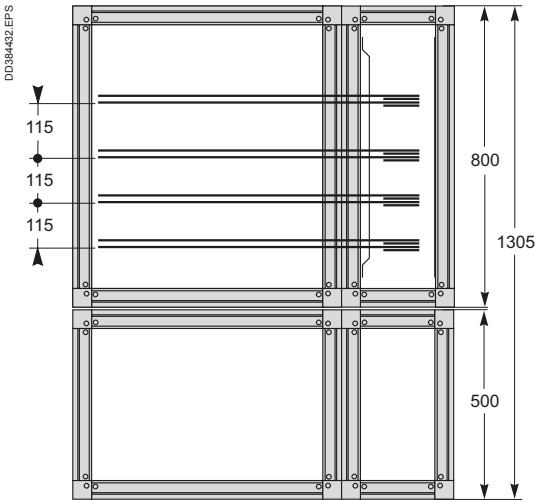
2500 A



2000 A



3200 A



Compartmentalised enclosure for Motor Control Centres

Fixed compartmentalised swithchboards for Motor Control Centres

The Spacial SFM compartmentalised functional fixed system can be used for motor control centres in industrial environments.
It has been tested taking into account device characteristics.
This ensures a high degree of reliability in system operation and optimum safety.
Devices can be mounted on universal mounting plates on a workcut-out to simplify installation in the switchboard.

Fixed functional system for Motor Control

The fixed functional system for Motor Control Centres is designed for installation of motor starters up to 250 kW.

PB502998-75



Compartmentalised enclosure for Motor Control Centres
Motor protection

In addition to the motor power and the starter type (direct, reversing, star-delta…), 4 main criteria have to be taken into account when choosing a motor starter:
- the operational voltage,
- the type of thermal protection, electro-mechanical or electronical,
- the type of magnetic protection, according to the switchboard's Isc,
- the type of installation, according to the required availability level.

Operational voltage

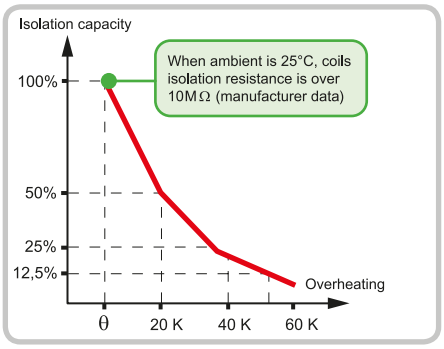
Network's operational voltage is a decisive parameter in the choice of motor protection. Indeed, the operational voltage will have an impact on the device's performances and the installation constraints.
For instance, the voltage will influence:
- the breaking performances,
- the safety areas.

Motor protection

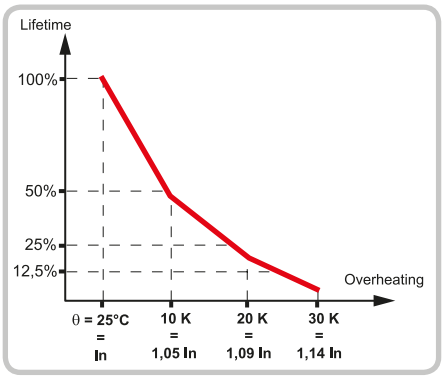
Protecting the motors to extend their lifetime

- Overheating in electrical motors is caused by copper and ferro-magnetic losses:
  - the current I is proportional to the motor's load. Copper losses are proportional to I² (stator and rotor),
  - hysteresis cycles in ferro-magnetic materials and the induced Foucault currents cause overheating, which is in particular proportional to frequency.
- The consequence of abnormal overheatings is a reduced isolation capacity of the materials, thus leading to a significant shortening of the motor lifetime, as shown in the opposite diagram.
- In continuous or semi-continuous processes, availability is a major issue. It is therefore decisive to observe accurately the operating conditions of the motors.
- Motor protection relays are the components dedicated to this task. They provide various levels of accuracy and functionalities, in order to meet the expectations of the process manager.

DD405318_SE



DD405340



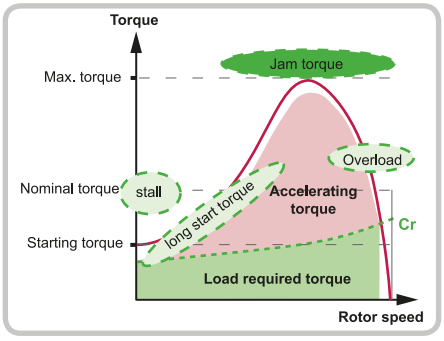
Supervising finely the motors to improve process availability

- An electrical motor transforms electrical energy in mechanical energy.

When the voltage, current and frequency change, the speed and torque of the motor change too. And conversely, any changes in charge have a direct impact on the electrical parameters.
- **Electromechanical thermal relays** protect the motor against overloads.
- **Electronical relays** protect the motor against overloads, on the basis of very sophisticated and highly accurate thermal patterns.
  - These relays are able to make out several cases of motor overload, and to transmit the information, thus allowing the operator to have a better understanding of the true nature of the problem,
  - These relays report for many complementary parameters, providing useful informations to the operator, therefore giving him the opportunity to avoid motor stops, or to re-start quickly if a stop has occurred.
  - Examples:
    - motor under-load can be the signal of a pump cavitation,
    - phase inversion can be the indication of a maintenance error, that should be hard to diagnose without that sign.
  - In addition to the observation of currents, the electronical relays can monitor the voltage, and consequently the power and the power factor. They can also watch the leakage currents and measure the actual coil temperature whenever it has a built-in sensor.

All these informations give an additional level of anticipation and shrewdness to help coping with problems.
  - Finally, electronical relays can take on information-processing functions, like state and faults statistics. They are also able to suggest logical solutions, and to react in a process-specific way.

DD405342_SE



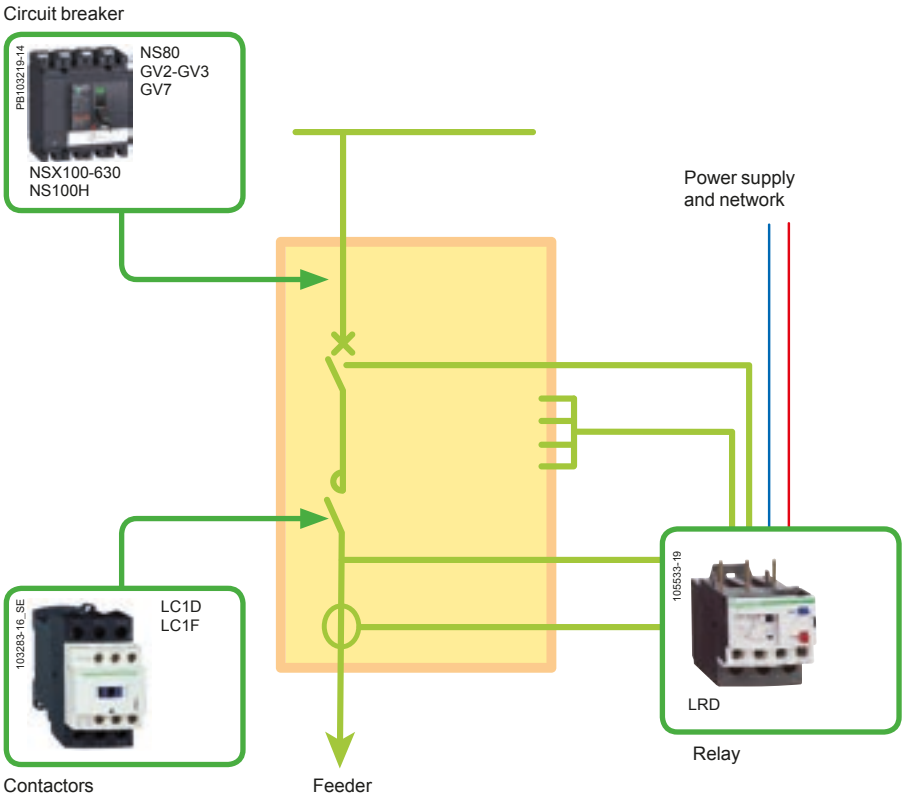
Compartmentalised enclosure for Motor Control Centres

Motor protection

Magnetic protection: circuit-breakers and fuses

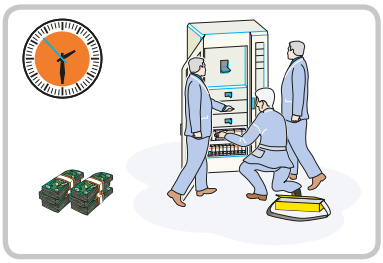
Schneider Electric have chosen to put forward circuit-breakers each time it is possible, as they have advantages in terms of maintenance and capacity of quick re-operating.
The advantages of magnetic circuit breakers over fuses are listed below:
- universal solution that can be exported to all countries, unlike the fuses, which standards are not coordinated,
- reduced dimensions,
- limited temperature rise,
- faster maintenance,
- no risk of over-rating the fuse cartridge (causing the motor destruction) or underrating (untimely tripping).

Spacial SFM: a combination for control motor starter



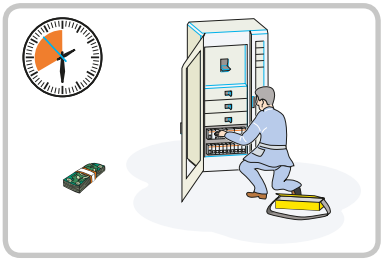
Compartmentalised enclosure for Motor Control Centres
Coordination

DD383428



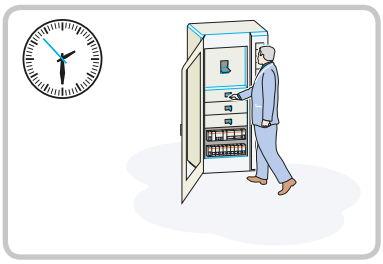
Type 1 coordination

DD383429



Type 2 coordination

DD383430



Total coordination

Coordination, what is it about?
A "motor starter" can be made up of 1, 2, or 3 different devices. They have to be coordinated in a way they ensure an optimal operation of the installation.

Aims of coordination
In case of a fault, the coordination's purposes are:
- to protect of the people and the equipment,
- to permit continuity of service,
- to reduce maintenance costs (manpower and replacement equipment).

Types of coordination as per IEC 60947-4-1
- Type 1 coordination: basic solution
  - no continuity of service,
  - important maintenance costs in case of a fault (manpower and equipment).
- Type 2 coordination: solution ensuring continuity of service
  - reduced machine shutdown time,
  - reduced cost of replacement equipment.
- Total coordination: withdrawable solutions as per IEC 60947-6-2:
  - no damage nor resetting of devices following a fault,
  - installation immediate return to operation.

Schneider Electric's choice as regards coordination
For applications in Spacial SFM high availability switchboard, Schneider Electric has **accepted**:

> **type 2 coordination** on grounds of:
- a low cost for repairing the equipment,
- a reduced machine shutdown time,

and **dismissed**:

> **type 1 coordination and non-coordoned feeders** because of:
- an expensive return to operation,
- a long machine shutdown time.

Compartmentalised enclosure for Motor Control Centres

Motor starter solutions

PD405140-30



2-component motor starter

Thermomagnetic circuit-breaker + contactor

■ **Advantages**

□ Very economic solutions.
□ Suitable for all types of diagrams.
□ Manual reset following a thermal fault.
□ Type 2 coordination.

■ **Applications**

□ Manufacturing and continuous and semi-continuous processes.

PD405141-30



3-component motor starter

■ **Advantages**

□ Wide choice of solutions.
□ Suitable for all types of diagrams.
□ Manual or automatic reset following a thermal fault.
□ 2 starting classes (10 and 20).
□ Type 2 coordination.
□ Segregation of thermal and magnetic faults.

■ Magnetic circuit-breaker + contactor + thermal protection

□ For manufacturing and continuous and semi-continuous processes.

■ Switch-disconnector fuse + contactor + thermal protection

□ For all types of machines.
□ For manufacturing and continuous and semi-continuous processes.

Compartmentalised enclosure for Motor Control Centres
Enclosures

PB502987-70



Presentation

The Spacial SFM compartmentalised enclosures system used for MCC are based on the Spacial SF range.

They offer the same functions:
- Different possible configurations, combined side-by-side or back-to-back.
- The built-in partial doors and panels design allow to meet the required degree of protection.

And the same advantages:
- Save time through all assembly phases.
- Enclosure robustness.

Modularity and Versatility

They offer 36 vertical modules, each 50 mm high, of useful space.
They have 4 different enclosure dimensions and 2 additional chambers for distribution busbars or cabling management.
They can also be coupled with Spacial SFP for power distribution switchboards.

PB502985-32



The functional system

A metal structure

The switchboard is made up of one or more frameworks combined side-by-side or back-to-back, on which a complete selection of cover panels and partial doors can be mounted.
They are used to build IP54 according to IEC 60529 configurations and see ClimaSys offer options for ventilation.
Electrical continuity is achieved using earthing braids.
Plain partial doors are reversible for quick left or right-hand mounting by a single person, 120° opening.
The robustness of the locking system allows naturally the good alignment of the assembly. From 1 to 4 locking points system with 5 mm double-bar insert as standard supply with possibility to replace it by other shape insert.

A distribution system

Vertical busbars positioned in a lateral compartment and horizontal busbars are used to distribute electricity throughout the switchboard.

Complete functional units

The functional unit need to be composed by:
- motor control and protection devices,
- a dedicated plain mounting plate for device installation,
- up to form 4b thanks to the gland boxes for the terminal isolation on the back of the switchboard or on the side of the cabling chamber,
- devices for on-site connections.

The functional units are modular and designed for installation one on top of another.
The system includes everything required for functional unit mounting, supply and onsite connection.
The components of the Spacial SFM compartmentalised system and those of the functional units in particular have been designed and tested taking into account device characteristics. This design approach ensures a high degree of reliability in system operation and optimum safety for personnel.
Electrical switchboards built using Schneider Electric recommendations fully comply with international standard IEC 61439-2 and IEC 62208.

Compartmentalised enclosure for Motor Control Centres
Enclosures

Withstand to the most demanding environements

- IP54 degree of protection for the dusty and/or damp industrial environments.
- Seismic withstand.
- Optional forced ventilation for environments with ambient temperatures hotter than 45°C or for devices sith considerable heat loss (see ClimaSys offer options).

Type tested

Spacial SFM compartmentalised is totally type-tested in accordance with IEC 61439-2.

- Certified by independant lab.
- As well as by a permanent control in Schneider Electric test laboratories.
- Type-tests are carried out:
  - temperature-rise limit,
  - dielectric properties,
  - short-circuit withstand,
  - effectiveness of the protective circuit,
  - conformity of the clearance and creepage distances,
  - mechanical operation,
  - degree of protection.

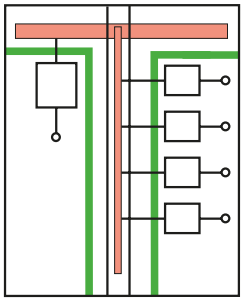
PB502988-62



Partitioning

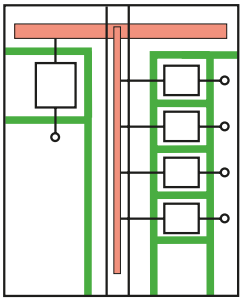
Partitioning is essential to ensure the utmost protection of the installation and personnel carrying out work in the switchboard.
Used in conjunction with the standard protection (terminal shields, factory-built connections), partitioning prevents any direct contact with live parts.

Form 2b



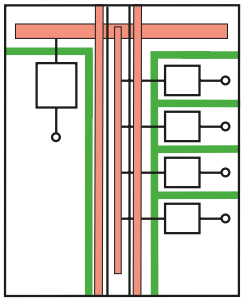
- Terminals for external conductors separated from busbars.
- The functional units and the terminals are separated from the busbars.

Form 3b



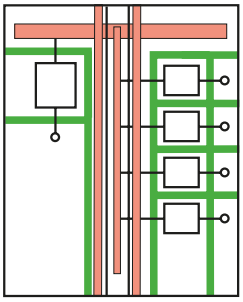
- Terminals for external conductors separated from busbars.
- The functional units are separated from each other and from the busbars.
- The terminals are separated from the busbars, but not from each other.

Form 4a



Terminals for external conductors in the same compartment as the associated functional unit.

Form 4b



Terminals for external conductors not in the same compartment as the associated functional unit, but in individual, separate, enclosed protected spaces or compartments.

Compartmentalised enclosure for Motor Control Centres

Fix enclosures

PB502999-71



General data	
Applications	MCC
Standards	IEC 61439-2
Internal arc	No
Seismic	3G
Installation	Indoor

Mechanical data	
Cable inlet	Top / Bottom
Access	Front / Rear Side
IP	54
IK	10
Form	4b type 7
Withdrability	FFF
Dimensions	H 2000 / W 600 & 800 / D 600 & 800
Color	RAL 7035

Electrical data	
Insulation voltage (Ui)	1000 V
Voltage rating(Ue)	415 V
Coordination	Type 2
Frequency	50/60 Hz
Degree of pollution	3
Rated current (IP>31)	2500 A (with Copper & Linergy)
Short circuit (Icw - 1s)	85 kA

Compartmentalised enclosure for Motor Control Centres

Mounting plates for fixed MCC switchboards

PB502989-60



PB502990-58



PB502991-66



Motor control functional units

The plain mounting plates can be used to install all the devices making up an MCC motor starter on a single support.

Easy installation

Motor feeders can be prepared on a bench making the cut-outs needed.
The quick-fixing system allows to hold the mounting plate during device installation and wiring. The mounting plate can be fixed on the side partitions in adjustable depth with a pitch of 50 mm.

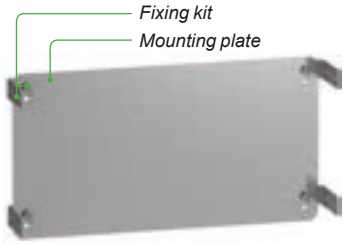
Switchboard upgradeability

- Functional units with form partitioning 3b and 4b.
- Sides and Rear accessibility.
- Separation panels with pre-cuts for cable-glands ref. 01215.

Functional unit reliability

- The unit of height for the mounting plates is the 50 mm module.
- 3 to 24 module (150 to 1200 mm) mounting plates are installed in 600 and 800 mm wide cubicles.
- Capacity of Spacial SFM cubicles: 36 modules (50 mm each).
- Cables are run in dedicated 300 or 400 mm wide lateral compartments.

Plain mounting plates



Dimension of the compartment			References	
Number of modules	Rate (mm)	Width (mm)	Mounting plate	Fixing kit
3M	150	600	**NSYMP3M6**	**NSYMPFIX**
		800	**NSYMP3M8**	
4M	200	600	**NSYMP4M6**	
		800	**NSYMP4M8**	
5M	250	600	**NSYMP5M6**	
		800	**NSYMP5M8**	
6M	300	600	**NSYMP6M6**	
		800	**NSYMP6M8**	
8M	400	600	**NSYMP8M6**	
		800	**NSYMP8M8**	
9M	450	600	**NSYMP9M6**	
		800	**NSYMP9M8**	
12M	600	600	**NSYMP12M6**	
		800	**NSYMP12M8**	
16M	800	600	**NSYMP16M6**	
		800	**NSYMP16M8**	
18M	900	600	**NSYMP18M6**	
		800	**NSYMP18M8**	
20M	1000	600	**NSYMP20M6**	
		800	**NSYMP20M8**	
24M	1200	600	**NSYMP24M6**	
		800	**NSYMP24M8**	

Compartmentalised enclosure for Motor Control Centres

2-component motor starter

Direct on line and reversing GV2, GV3 and GV7

Selection of recommended combinations

Iq (kA)		Motor characteristics		Motor starter solution		Mounting plate Number of modules (1M = 50 mm)	
Without limiter	With GV1L3	P max (kW)	I max (A)	Circuit breaker	Contactor (1)	DOL	Reversing
GV2							
85	-	0.18	0.6	GV2-P04	LC1D09	3M	3M
85	-	0.25	0.9	GV2-P05	LC1D09	3M	3M
85	-	0.37	1.1	GV2-P06	LC1D09	3M	3M
85	-	0.55	1.5	GV2-P06	LC1D09	3M	3M
85	-	0.75	1.8	GV2-P07	LC1D09	3M	3M
85	-	1.1	2.6	GV2-P08	LC1D09	3M	3M
85	-	1.5	3.4	GV2-P08	LC1D09	3M	3M
85	-	2.2	4.8	GV2-P10	LC1D09	3M	3M
85	-	3	6.5	GV2-P14	LC1D09	3M	3M
85	-	4	8.2	GV2-P14	LC1D18	3M	3M
50	85	5.5	11	GV2-P16	LC1D25	3M	3M
50	85	7.5	14	GV2-P20	LC1D25	3M	3M
50	85	10	19	GV2-P21	LC1D32	3M	3M
50	85	11	21	GV2-P22	LC1D32	3M	3M
50	85	15	28	GV2-P32	LC1D32	3M	3M
50	-	18.5	34	GV3-P40	LC1D50A	3M	4M
50	-	22	40	GV3-P50	LC1D50A	3M	4M
50	-	30	55	GV3-P65	LC1D65	3M	4M
70	-	15	28	GV7-RS40	LC1D40	3M	6M
70	-	18.5	34	GV7-RS40	LC1D50	3M	6M
70	-	22	40	GV7-RS50	LC1D80	3M	6M
70	-	30	55	GV7-RS80	LC1D80	3M	6M
70	-	37	66	GV7-RS80	LC1D80	3M	6M
70	-	45	80	GV7-RS100	LC1D115	4M	9M
70	-	55	100	GV7-RS150	LC1D150	6M	9M
70	-	75	135	GV7-RS150	LC1F185	9M	12M
70	-	90	160	GV7-RS220	LC1F225	9M	12M
70	-	110	200	GV7-RS220	LC1F265	9M	12M

(1) 2xLC1-D for reversing

Selection of the mounting plate

Dimension of the compartment			References	
Number of modules	Rate (mm)	Width (mm)	Mounting plate	Fixing kit
3M	150	600	**NSYMP3M6**	**NSYMPFIX**
		800	**NSYMP3M8**	
4M	200	600	**NSYMP4M6**	
		800	**NSYMP4M8**	
6M	300	600	**NSYMP6M6**	
		800	**NSYMP6M8**	
9M	450	600	**NSYMP9M6**	
		800	**NSYMP9M8**	
12M	600	600	**NSYMP12M6**	
		800	**NSYMP12M8**	

Compartmentalised enclosure for Motor Control Centres

3-component motor starter

Direct on line and reversing GV2 and GV3

Ue	IP	Ambiant temperature
415 V	≤ IP54	35°C

Selection of recommended combinations

Iq (kA)		Motor characteristics		Motor starter solution			Mounting plate Number of modules (1M = 50 mm)	
Without limiter	With LA9LB920	P max (kW)	I max (A)	Circuit breaker	Contactor (1)	Thermal relay	DOL	Reversing
85	-	0.18	0.6	GV2-L04	LC1D09	LRD04	3M	3M
85	-	0.25	0.9	GV2-L05	LC1D09	LRD05	3M	3M
85	-	0.37	1.1	GV2-L06	LC1D09	LRD06	3M	3M
85	-	0.55	1.5	GV2-L06	LC1D09	LRD06	3M	3M
85	-	0.75	1.8	GV2-L07	LC1D09	LRD07	3M	3M
85	-	1.1	2.6	GV2-L08	LC1D09	LRD08	3M	3M
85	-	1.5	3.4	GV2-L08	LC1D09	LRD08	3M	3M
85	-	2.2	4.8	GV2-L10	LC1D09	LRD10	3M	3M
85	-	3	6.5	GV2-L14	LC1D09	LRD12	3M	3M
85	-	4	8.2	GV2-L14	LC1D18	LRD14	3M	3M
50	85	5.5	11	GV2-L16	LC1D25	LRD16	3M	3M
50	85	7.5	14	GV2-L20	LC1D25	LRD21	3M	3M
50	85	10	19	GV2-L21	LC1D32	LRD22	3M	3M
50	85	11	21	GV2-L22	LC1D32	LRD22	3M	3M
50	85	13	24	GV2-L32	LC1D32	LRD32	3M	3M
50	-	18.5	34	GV3-L40	LC1D50A	LRD340	3M	4M
50	-	22	40	GV3-L50	LC1D50A	LRD350	3M	4M
50	-	26	49	GV3-L65	LC1D65A	LRD365	3M	4M

(1) 2xLC1-D for reversing.

Selection of the mounting plate

Dimension of the compartment			References	
Number of modules	Rate (mm)	Width (mm)	Mounting plate	Fixing kit
3M	150	600	**NSYMP3M6**	**NSYMPFIX**
		800	**NSYMP3M8**	
4M	200	600	**NSYMP4M6**	
		800	**NSYMP4M8**	

Compartmentalised enclosure for Motor Control Centres

3-component motor starter

Direct on line and reversing NS80H and NSX

Ue	IP	Ambiant temperature
415 V	≤ IP54	35°C

Selection of recommended combinations

Iq (kA)	Motor characteristics		Motor starter solution			Mounting plate Number of modules (1M = 50 mm)	
	P max (kW)	I max (A)	Circuit breaker	Contactor (1)	Thermal relay	DOL	Reversing
70	18.5	34	NS80H-MA	LC1D50	LRD3355	3M	6M
70	22	40	NS80H-MA	LC1D50	LRD3357	3M	6M
70	30	55	NS80H-MA	LC1D65	LRD3359	3M	6M
70	37	66	NS80H-MA	LC1D80	LRD3363	3M	6M
(2)	18.5	34	NSX100• MA	LC1D80	LRD3355	3M	6M
(2)	22	40	NSX100• MA	LC1D80	LRD3357	3M	6M
(2)	30	55	NSX100• MA	LC1D80	LRD3359	3M	6M
(2)	37	64	NSX100• MA	LC1D80	LRD3363	3M	6M
(2)	45	80	NSX100• MA	LC1D115	LR9D5367	6M	9M
(2)	55	100	NSX160• MA	LC1D150	LR9D5369	6M	9M
(2)	75	135	NSX160• MA	LC1F185	LR9F5369	9M	12M
(2)	90	160	NSX250• MA	LC1F225	LR9F5371	9M	12M
(2)	100	187	NSX250• MA	LC1F265	LR9F5371	9M	12M
(2)	132	230	NSX400• 1.3-M	LC1F330	LR9F7375	12M	16M
(2)	160	270	NSX400• 1.3-M	LC1F330	LR9F7375	12M	16M
(2)	200	361	NSX630• 1.3-M	LC1F500	LR9F7379	16M	16M
(2)	220	380	NSX630• 1.3-M	LC1F500	LR9F7379	16M	16M
(2)	250	430	NSX630• 1.3-M	LC1F500	LR9F7379	16M	16M

(1) 2xLC1-D for reversing
(2) NSX...F = 36 kA
NSX...N = 50 kA
NSX...H = 70 kA
NSX...S = 85 kA
NSX400L = 150 kA
NSX630L = 150 kA

Selection of the mounting plate

Dimension of the compartment			References	
Number of modules	Rate (mm)	Width (mm)	Mounting plate	Fixing kit
3M	150	600	**NSYMP3M6**	**NSYMPFIX**
		800	**NSYMP3M8**	
6M	300	600	**NSYMP6M6**	
		800	**NSYMP6M8**	
9M	450	600	**NSYMP9M6**	
		800	**NSYMP9M8**	
12M	600	600	**NSYMP12M6**	
		800	**NSYMP12M8**	
16M	800	600	**NSYMP16M6**	
		800	**NSYMP16M8**	

Compartmentalised enclosure for Motor Control Centres

2-component motor starter
Star-delta GV2, GV3 and GV7

Ue	IP	Ambiant temperature
415 V	≤ IP54	35°C

Selection of recommended combinations

Iq (kA)		Motor characteristics		Motor starter solution		Mounting plate Number of modules (1M = 50 mm)
Without limiter	With GV1L3	P max (kW)	I max (A)	Circuit breaker	Contactor	Star-delta
85	-	0.37	1.1	GV2-P06	3xLC1D09	4M
85	-	0.55	1.5	GV2-P06	3xLC1D09	4M
85	-	0.75	1.8	GV2-P07	3xLC1D09	4M
85	-	1.1	2.6	GV2-P08	3xLC1D09	4M
85	-	1.5	3.4	GV2-P08	3xLC1D09	3M
85	-	2.2	4.8	GV2-P10	3xLC1D18	4M
85	-	3	6.5	GV2-P14	3xLC1D18	3M
85	-	4	8.2	GV2-P14	3xLC1D18	4M
50	85	5.5	11	GV2-P16	3xLC1D25	4M
50	85	7.5	14	GV2-P20	3xLC1D25	4M
50	85	10	19	GV2-P21	3xLC1D32	5M
50	85	11	21	GV2-P22	3xLC1D32	4M
35	85	15	28	GV2-P32	3xLC1D32	4M
50	-	18.5	34	GV3-P40	3xLC1D50A	5M
50	-	22	40	GV3-P50	3xLC1D50A	5M
50	-	30	55	GV3-P65	3xLC1D65A	5M
70	-	15	28	GV7-RS40	3xLC1D80	9M
70	-	18.5	34	GV7-RS40	3xLC1D50	9M
70	-	22	40	GV7-RS50	3xLC1D80	9M
70	-	30	55	GV7-RS80	3xLC1D80	9M
70	-	45	80	GV7-RS100	3xLC1D115	12M
70	-	55	100	GV7-RS150	3xLC1D150	12M
70	-	75	135	GV7-RS150	3xLC1F185	16M
70	-	90	160	GV7-RS220	3xLC1F225	16M
70	-	110	200	GV7-RS220	3xLC1F265	16M

Selection of the mounting plate

Dimension of the compartment			References	
Number of modules	Rate (mm)	Width (mm)	Mounting plate	Fixing kit
3M	150	600	**NSYMP3M6**	**NSYMPFIX**
		800	**NSYMP3M8**	
4M	200	600	**NSYMP4M6**	
		800	**NSYMP4M8**	
5M	250	600	**NSYMP5M6**	
		800	**NSYMP5M8**	
9M	450	600	**NSYMP9M6**	
		800	**NSYMP9M8**	
12M	600	600	**NSYMP12M6**	
		800	**NSYMP12M8**	
16M	800	600	**NSYMP16M6**	
		800	**NSYMP16M8**	

Compartmentalised enclosure for Motor Control Centres

3-component motor starter
Star-delta GV2 and GV3

Ue	IP	Ambiant temperature
415 V	≤ IP54	35°C

Selection of recommended combinations

Iq (kA)		Motor characteristics		Motor starter solution			Mounting plate Number of modules (1M = 50 mm)
Without limiter	With LA9LB920	P max (kW)	I max (A)	Circuit breaker	Contactor	Thermal relay	Star-delta
85	-	0.37	1.1	GV2-L06	3xLC1D09	LRD06	4M
85	-	0.55	1.5	GV2-L06	3xLC1D09	LRD06	4M
85	-	0.75	1.8	GV2-L07	3xLC1D09	LRD07	4M
85	-	1.1	2.6	GV2-L08	3xLC1D09	LRD08	4M
85	-	1.5	3.4	GV2-L08	3xLC1D09	LRD08	4M
85	-	2.2	4.8	GV2-L10	3xLC1D18	LRD10	4M
85	-	3	6.5	GV2-L14	3xLC1D18	LRD12	4M
85	-	4	8.2	GV2-L14	3xLC1D18	LRD14	4M
50	85	5.5	11	GV2-L16	3xLC1D25	LRD16	4M
50	85	7.5	14	GV2-L20	3xLC1D25	LRD21	4M
50	85	10	19	GV2-L21	3xLC1D32	LRD22	4M
50	85	11	21	GV2-L22	3xLC1D32	LRD22	4M
35	85	15	24	GV2-L32	3xLC1D32	LRD32	4M
50	-	18.5	34	GV3-L40	3xLC1D50A	LRD340	5M
50	-	22	40	GV3-L50	3xLC1D50A	LRD350	5M
50	-	30	49	GV3-L65	3xLC1D65A	LRD365	5M

Selection of the mounting plate

Dimension of the compartment			References	
Number of modules	Rate (mm)	Width (mm)	Mounting plate	Fixing kit
4M	200	600	**NSYMP4M6**	**NSYMPFIX**
		800	**NSYMP4M8**	
5M	250	600	**NSYMP5M6**	
		800	**NSYMP5M8**	

Compartmentalised enclosure for Motor Control Centres

3-component motor starter

Star-delta NS80H and NSX

Ue	IP	Ambiant temperature
415 V	≤ IP54	35°C

Selection of recommended combinations

Iq (kA)	Motor characteristics		Motor starter solution			Mounting plate Number of modules (1M = 50 mm)
	P max (kW)	I max (A)	Circuit breaker	Contactor	Thermal relay	Star-delta
70	18.5	34	NS80H-MA	3xLC1D50	LRD3355	9M
70	22	40	NS80H-MA	3xLC1D50	LRD3357	9M
70	30	55	NS80H-MA	3xLC1D65	LRD3359	9M
70	37	66	NS80H-MA	3xLC1D80	LRD3363	9M
(1)	18.5	34	NSX100• MA	3xLC1D80	LRD3355	9M
(1)	22	40	NSX100• MA	3xLC1D80	LRD3357	9M
(1)	30	55	NSX100• MA	3xLC1D80	LRD3359	9M
(1)	37	64	NSX100• MA	3xLC1D80	LRD3363	9M
(1)	45	80	NSX100• MA	3xLC1D115	LR9D5367	12M
(1)	55	100	NSX160• MA	3xLC1D150	LR9D5369	12M
(1)	75	135	NSX160• MA	3xLC1F185	LR9F5369	16M
(1)	90	160	NSX250• MA	3xLC1F225	LR9F5371	16M
(1)	110	187	NSX250• MA	3xLC1F265	LR9F5371	16M
(1)	132	230	NSX400• 1.3-M	3xLC1F330	LR9F7375	20M
(1)	160	270	NSX400• 1.3-M	3xLC1F330	LR9F7375	20M
(1)	200	361	NSX630• 1.3-M	3xLC1F500	LR9F7379	24M
(1)	220	380	NSX630• 1.3-M	3xLC1F500	LR9F7379	24M
(1)	250	430	NSX630• 1.3-M	3xLC1F500	LR9F7379	24M

(1) NSX...F = 36 kA
NSX...N = 50 kA
NSX...H = 70 kA
NSX...S = 85 kA
NSX400L = 150 kA
NSX630L = 150 kA

Selection of the mounting plate

Dimension of the compartment			References	
Number of modules	Rate (mm)	Width (mm)	Mounting plate	Fixing kit
9M	450	600	**NSYMP9M6**	**NSYMPFIX**
		800	**NSYMP9M8**	
12M	600	600	**NSYMP12M6**	
		800	**NSYMP12M8**	
16M	800	600	**NSYMP16M6**	
		800	**NSYMP16M8**	
20M	1000	600	**NSYMP20M6**	
		800	**NSYMP20M8**	
24M	1200	600	**NSYMP24M6**	
		800	**NSYMP24M8**	

Compartmentalised enclosure for Motor Control Centres
Linergy distribution systems

Linergy LGYE-LGY

a breakthrough in busbar systems

Safe, reliable, flexible, and flexible with the highest level of performance

The Linergy LGYE-LGY busbar system now includes horizontal busbars, for greater electrical switchboard enclosure performance, reliability, and costeffectiveness.

Manufactured using a revolutionary process, patented Linergy busbars are unique on the market, taking your electrical switchboard installations a giant leap into the future.


PB502992-103

Discover how Linergy LGYE-LGY can place the next generation of low-voltage switchboards in your hands.

Compartmentalised enclosure for Motor Control Centres

Linergy distribution systems

Innovative technology

from an energy expert you can trust

Patented Linergy LGYE-LGY is backed by Schneider Electric's decades of expertise in electrical distribution systems and is certified IEC 61439-2 compliant by ASEFA.

Linergy unique profile was designed with the ratings you need, a commitment to performance backed by regular testing up to 4000 A.

Heat is dissipated by conduction and radiation for performance only a market leader can bring you.

Linergy LGYE-LGY busbars performances are identical or better than traditional all Linergy BS busbars.

Unlike tin-plated aluminum busbars, rugged Linergy LGYE-LGY busbars are resistant to scratching during assembly to ensure optimal connection quality and reliability.

PB502993-68



PB502994-72



High Velocity Oxy-Fuel, unique on the busbar market

Patented Linergy LGYE-LGY uses a supersonic high-temperature coating process for a robust copper contact surface.

Compartmentalised enclosure for Motor Control Centres
Linergy distribution systems

A revolutionary design
for greater efficiency

The Linergy line now includes horizontal busbars, helping you achieve better electrical switchboard performance while optimizing busbar layout and facilitating assembly.

Schneider Electric™ has drawn upon 30 years of expertise in electrical distribution systems and a decade of hands-on experience with the proven and reliable Linergy line of products. It brings you a revolutionary design featuring a high-quality copper contact surface that delivers even better results than traditional Linergy BS-to-Linergy BS connections.

Linergy LGYE-LGY busbars offer a number of benefits to help you enhance performance and boost your competitiveness.

Lightweight
Linergy is half the weight of equivalent-rated Linergy BS bars for more fuel-efficient transport, easier handling, and smoother installation.

Higher-capacity
A single Linergy LGYE bar can withstand ratings up to 2500 A. It would take two or three Linergy BS bars per pole to achieve similar ratings.

Robust and flexible
Linergy LGYE bars are extruded for a unique profile that includes both closed and ribbed sections, improving rigidity, thermal dissipation, and resistance to short circuits, with a shortcircuit withstand capacity (Icw) of 85 kA/1s for SFM and 100 kA / 1s for Spacial SFP.

Attractive
The revolutionary copper contact strips, anodized aluminum surface, and unique shapes give a modern appearance and a soft touch.

IEC standards-compliant
The latest standards were factored in from the early design stages to ensure that temperatures are kept below the IEC61439-2 standard requirements, for optimal performance regardless of the switchboard configuration.

Environmentally-friendly
Instead of increasingly-scarce copper, Linergy LGYE is made from 70% recycled raw materials offering the same performance as primary raw materials.

Cost-effective
Linergy LGYE-LGY helps you achieve cost savings now and provides protection against fluctuating copper prices in the future, plus all the advantages of a raw material that is easy to purchase and store.



Linergy LGYE is **50% lighter than Linergy BS**

Reduce **costs and assembly times** over Linergy BS busbars

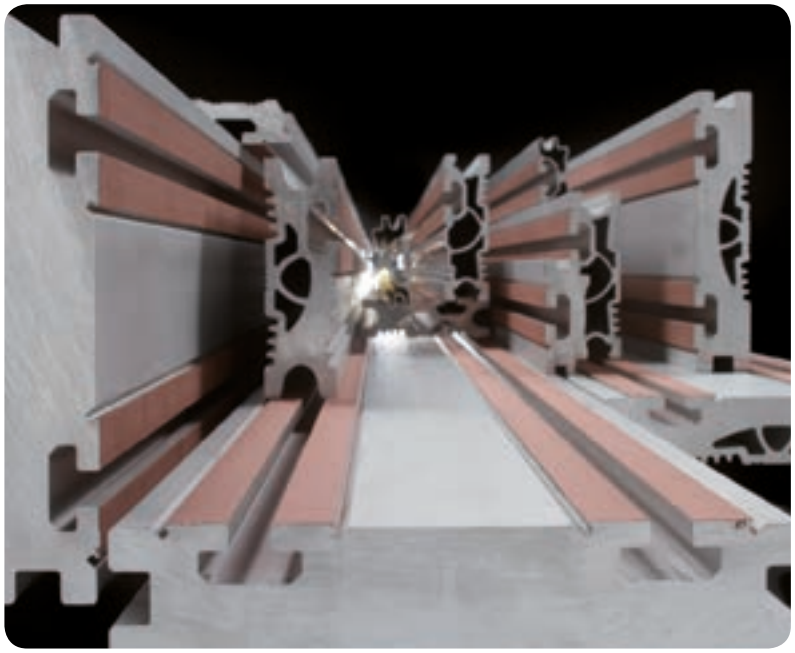
Compartmentalised enclosure for Motor Control Centres

Linergy distribution systems

Linergy accessories are also evolving!

Linergy LGYE is a full-featured busbar system that includes all the connections, screws, bolts, isolating supports, and other accessories you need for drill-free assembly.

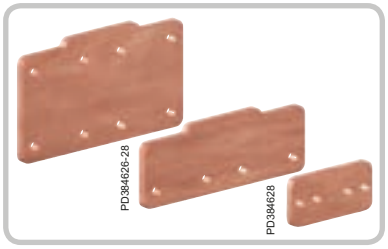
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PD384625-25



Panel builders, we've thought of everything to make your life easier!



IMG_9657-48

- Linergy LGYE-LGY busbars are lightweight, making them easy to transport and handle in the workshop.
- With Linergy LGYE-LGY, you can continue to use the familiar Spacial SFP busbar supports you already know for Linergy BS bars. There's no new system to learn.
- Linergy LGYE-LGY offers single bars for each rating, making handling during installation faster and more convenient.
- Linergy LGYE-LGY bars are fast and easy to position without drilling, thanks to a sliding bolt and track system.
- Linergy screws let you add extra outgoing connections without drilling new holes or dismounting previous connections or busbar supports, saving you time and giving you greater flexibility in the event of last-minute changes.
- Linergy LGYE-LGY busbars offer a unique shape with no sharp edges for safer, smoother handling and installation the bars simply slide right in to the busbar supports.
- Existing Linergy LGY vertical busbars are easy to connect to Linergy LGYE with ready-toinstall accessories like vertical connectors.
- Linergy materials are easy to recycle via well-established aluminum recycling services already in use for materials like aluminum cans, coffee capsules, door and window frames, and engine blocks.

Compartmentalised enclosure for Motor Control Centres

Linergy distribution systems

Linergy also offers the most **advanced busbar solutions** while remaining **simple**.

PB502995-140



Linergy LGYE / LGY /BS

Power busbars

- Solutions available up to 2500 A for Spacial SFM up to 4 000 A for Spacial SFP.
- Connection everywhere without drilling (with LGY and LGYE profile).

Compartmentalised enclosure for Motor Control Centres

Linergy distribution systems

Lateral Linergy busbars up to 1600 A

Busbar calculation

The following table indicates:

- the catalogue numbers of the bars to be used, depending on the permissible current level in the busbars,
- the number of supports required, depending on the rated short-time withstand current (Icw in kA rms / 1 second).

Linergy busbars	Cat. no.	Permissible current at 35 °C for switchboard		No. of supports Icw (kA effrms / 1 s)							
		IP ≤ 31	IP > 31	≤ 25	≤ 30	≤ 40	≤ 50	≤ 60	≤ 65	≤ 75	≤ 85
Linergy 630	**04502**	680	590								
Linergy 800	**04503**	840	760								
Linergy 1000	**04504**	1040	950		3						
Linergy 1250	**04505**	1290	1170				4	5			
Linergy 1600	**04506**	1650	1480							7	8

Note: the permissible current values for the busbars are given for an ambient temperature of 35°C around the switchboard.
The bottom support also maintains the bars in position.
Each catalogue number represents one bar.

Busbar selection

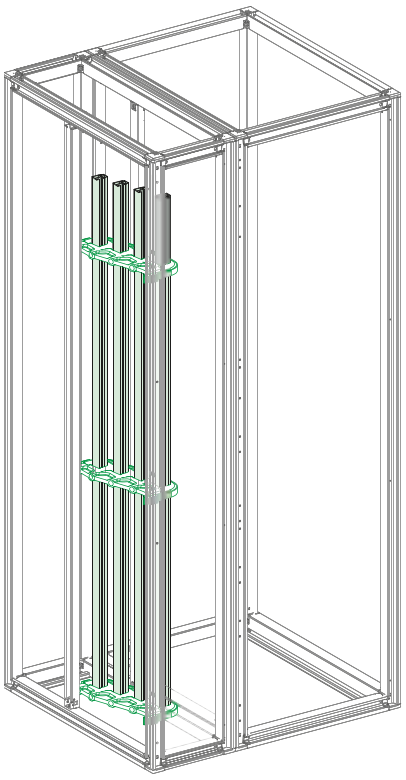
Linergy busbars, L = 1670 mm

Cat. no. selection

See the table below.

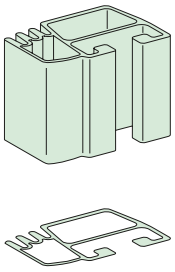
Each bar is supplied with a stop for the bottom support.

DB300923



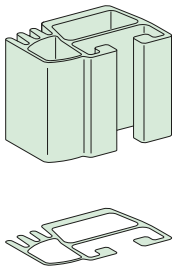
Busbars up to 1600 A.
The bottom support is used in wedging busbars in position.

DD384147b



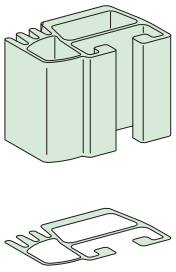
Bar 630 A.
Cat. no. 04502

DD384148b



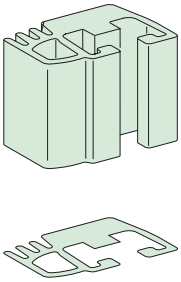
Bar 800 A.
Cat. no. 04503

DD384149b



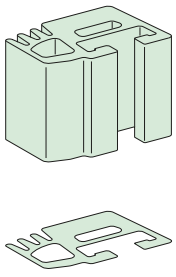
Bar 1000 A.
Cat. no. 04504

DD384150b



Bar 1250 A.
Cat. no. 04505

DD384151b



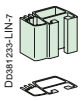
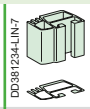
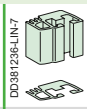
Bar 1600 A.
Cat. no. 04506

Compartmentalised enclosure for Motor Control Centres

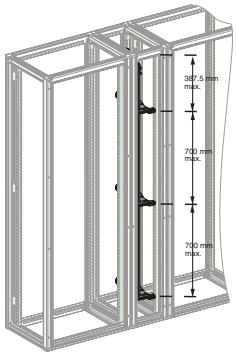
Linergy distribution systems

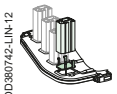
Linergy LGY - Lateral profiles up to 1600 A

Linergy LGY profiles

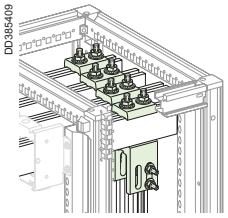
		Up to 1600 A (single busbar)				
In Spacial SF busbar chamber		W300				
Linergy profile, 1670 mm length						
		630 A	**800 A**	**1000 A**	**1250 A**	**1600 A**
Permissible current for an ambient temp. of 35°C around the switchboard	IP y 31	680 A	840 A	1040 A	1290 A	1650 A
	IP > 31	590 A	760 A	950 A	1170 A	1480 A
Number of profiles per phase		1				
Cat. no.		**04502**	**04503**	**04504**	**04505**	**04506**

Busbar supports



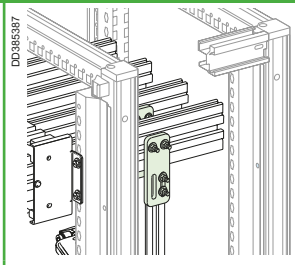
Description		The bottom wedge support is used to place the busbar and ensure it is in the correct position. It is count as a busbar support (included in the number of supports).  Fixed support **04651**	
Characteristics			An end stop must be fitted on the bottom support: **01109** (sold in lots of 12)
Number of supports depending on Icw (kA rms/1 s)	y 25	3	
	y 30	-	3
	y 40	-	3
	y 50	-	4
	y 60	-	5
	y 65	-	5
	y 75	-	7
	y 85	-	8
Cat. no.		**04651** (set of 2 upright adapters **NSYSFPA** and set of 2 40 mm universal cross-rail **NSYSUCR40200** for installation in Spacial SF busbar chamber)	

Connections to the Linergy BS horizontal busbar



Characteristics		Supplied with mounting hardware. Reference include 1 connection only. Order 1 connection per phase.	
Cat. no according to horizontal busbar size	5 mm thick	**04634**	**04635**
	10 mm thick Width y 80 mm	**04636**	

Connections to the Linergy LGYE horizontal busbar



y 1600 A

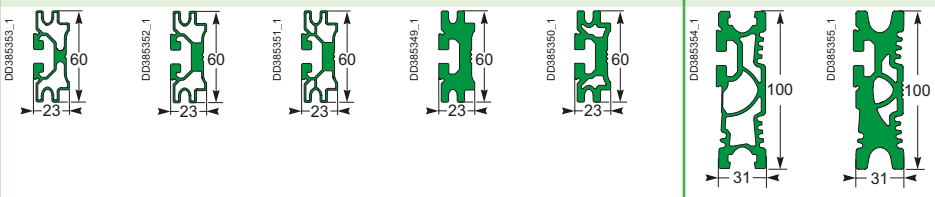
Characteristics	Supplied with mounting hardware. Reference include 1 connection only. Order 1 connection per phase.
Cat. no.	**04602** (vertical connection) **04603** (vertical shifted connection)

Compartmentalised enclosure for Motor Control Centres

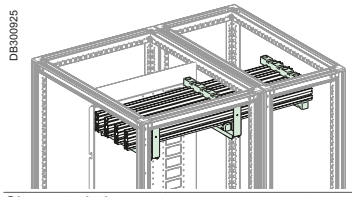
Linergy distribution systems

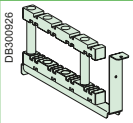
Linergy LGYE - Horizontal profiles up to 2500 A

Linergy LGYE profiles

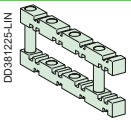
Installation in Spacial SFM compartmentalised			Up to 1600 A					Up to 2500 A	
Linergy profile, 2000 mm length									
			630 A	800 A	1000 A	1250 A	1600 A	2000 A	2500 A
Permissible current for an ambient temp. of 35°C around the switchboard			530 A	680 A	850 A	1050 A	1480 A	1650 A	2100 A
Number of profiles per phase			1						
Total number of vertical modules (50 mm)			3					3	
Cat. no.			**04560**	**04561**	**04562**	**04563**	**04564**	**04565**	**04566**

Busbar supports





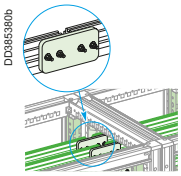
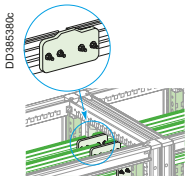
Fixed support



Free support

Characteristics			2 fixed supports for Spacial SF wide cublicle are compulsory according compartment depth (400 or 500 mm). 1 fixed support for Spacial SF 300/400 wide chamber are compulsory. Fixed directly on framework. If more supports are needed, add free supports.
In cubicle SFM: W600/800 Busbar supports 75 mm distance between bars	Number of supports depending on Icw (kA rms/1 s)	y 15	2
		y 25	2
		y 30	2
		y 40	- / 2
		y 50	- / 2
		y 60	- / 2+1 / 2
		y 65	- / 2+1
		y 75	- / 2+1
		y 85	- / 2+1
Cat. no.	Fixed support	D400	**NSYMBHS4**
		D500	**NSYMBHS5**
	Free support		**NSYBSA**
In busbar chamber SF: W300/400 Busbar supports 75 mm distance between bars	Number of supports depending on Icw (kA rms/1 s)	y 15	1
		y 25	1
		y 30	1
		y 40	- / 1
		y 50	- / 1
		y 60	- / 1
		y 65	- / 1 + 1
		y 75	- / 1 + 1
		y 85	- / 1 + 1
Cat. no.	Fixed support	D600	**NSYBHS600** / **NSYBHS600**
		D800	**NSYBHS800** / **NSYBHS800**
	Free support		**NSYBSA** / **NSYBSA**

Joints

	Up to 1600 A					Up to 2500 A	
	630 A	800 A	1000 A	1250 A	1600 A	2000 A	2500 A
	 **04620**					 **04621**	
Cat. no.	3 x **04620** (3P) 4 x **04620** (4P)					3 x **04621** (3P) 4 x **04621** (4P)	

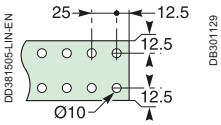
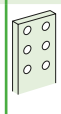
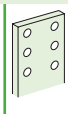
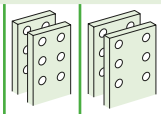
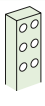
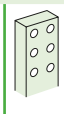
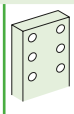
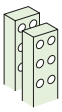
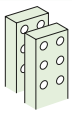
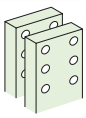
Note: for accessories, see page 365.

Compartmentalised enclosure for Motor Control Centres

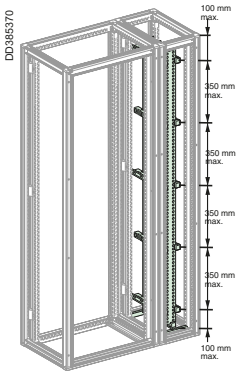
Linergy distribution systems

Linergy BS - Lateral flat busbars up to 2500 A

Flat busbars

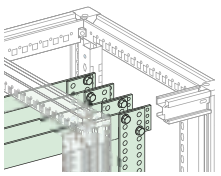
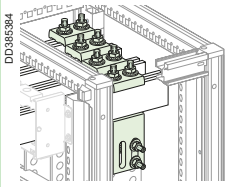
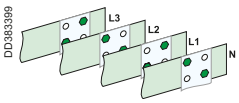
		Up to 1600 A				Up to 2500 A					
In Spacial SF busbar chamber		W300 D500/600/800				W300 D500/600/800					
Pre-slotted copper, 1675 mm length											
Permissible current for an ambient temp. of 35°C around the switchboard	IP > 31	750 A	900 A	1250 A	1600 A	1080 A	1250 A	1600 A	1850 A	2000 A	2500 A
Busbar cross-section (mm)		60 x 5	80 x 5	60 x 5	80 x 5	50 x 10	60 x 10	80 x 10	50 x 10	60 x 10	80 x 10
Number of busbars per phase		1		2		1			2		
Cat. no.		**04516**	**04518**	**04516**	**04518**	**04525**	**04526**	**04528**	**04525**	**04526**	**04528**

Busbar supports

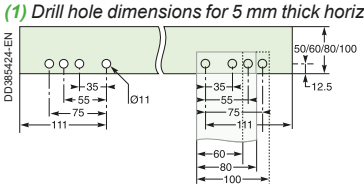


Description		3 fixed supports are compulsory to hold the busbar in position. If more than 3 supports are needed, use free supports (in addition). The bottom wedge support is used to place the busbar and ensure it is in the correct position. It does not count as a busbar support.									
Number of supports depending on Icw (kA rms/1 s)	y 15	3				3					
	y 25	3+2			3	3					
	y 30	3+2				3+2					3
	y 40	3+4		3+2		3+2					
	y 50		3+4			3+2					
	y 60					3+4					3+2
	y 65					3+4					3+2
	y 75						3+6		3+4		
	y 85									3+4	
Cat. no. of supports depending on distance between bars and busbar chamber depth Spacial SF busbar chamber 75 mm distance between bars	W300, D600	**NSYBVS600** (fixed) + **NSYBSA** (free) + **NSYAS600** (end stop support)									
	W300, D800	**NSYBVS800** (fixed) + **NSYBSA** (free) + **NSYAS800** (end stop support)									

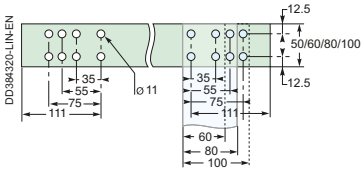
Connections to the Linergy BS horizontal busbar

											
Characteristics		For a busbar with 75 mm distance between bars, the bars must be completely covered. Staggered assembly points between one bar and the next, to maintain the necessary clearance distances.(1) 				References **04636**, **04637** are supplied individually: 1 connection per phase. Reference **04642** consists of 2 M8 x 140 screws which can replace the original M8 x 120 screws.					
		1 vertical bar per phase		2 vertical bars per phase		1 vertical bar per phase			2 vertical bars per phase		
		60 x 5	80 x 5	60 x 5	80 x 5	50 x 10	60 x 10	80 x 10	50 x 10	60 x 10	80 x 10
Cat. no. of the connection piece depending on horizontal busbar size	⩽ 80 mm	**04645**				**04636**		**04637**	**04637**		

(1) Drill hole dimensions for 5 mm thick horizontal busbars.



Drill hole dimensions for 10 mm thick horizontal busbars.

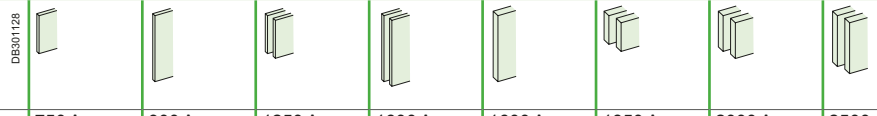


Compartmentalised enclosure for Motor Control Centres

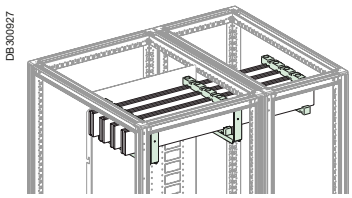
Linergy distribution systems

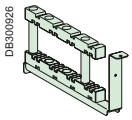
Linergy BS - Horizontal flat busbars up to 2500 A

Flat busbars

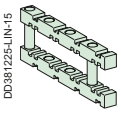
Installation in Spacial SFM compartmentalised			Hasta 1600 A				Hasta 2500 A			
Copper bar, 2000 mm length										
Permissible current for an ambient temp. of 35°C around the switchboard			750 A	900 A	1250 A	1600 A	1600 A	1850 A	2000 A	2500 A
Busbar cross-section (mm)			60 x 5	80 x 5	60 x 5	80 x 5	80 x 10	50 x 10	60 x 10	80 x 10
Number of busbars per phase			1	1	2	2	1	2	2	2
Total number of vertical modules (50 mm)			3							
Nº cat.			**04536**	**04538**	**04536**	**04538**	**04548**	**04545**	**04546**	**04548**

Busbar supports





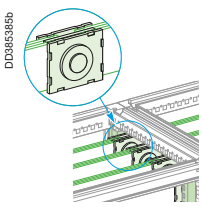
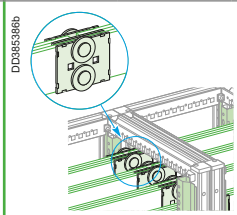
Fixed support



Free support

In cubicle SFM: W600/800 with 75 mm distance between bars	Characteristics		2 fixed supports for Spacial SF wide cublicle are compulsory according compartment depth (400 or 500 mm). 1 fixed support for Spacial SF 300/400 wide chamber are compulsory. Fixed directly on framework. If more supports are needed, add free supports.
	Number of supports depending on Icw (kA rms/1 s)	y 15	2
		y 25	2+1 / 2
		y 30	2+1 / 2
		y 40	2+1 / 2
		y 50	- / 2+1 / 2
		y 60	- / 2+1
		y 65	- / 2+1
		y 75	- / 2+2 / 2+1
		y 85	- / - / 2+1
	Cat. no.	Fixed support	**NSYMBHS4** (D400) or **NSYMBHS5** (D500)
		Free support	**NSYBSA**
In busbar chamber SF: W300/400 with 75 mm distance between bars	Number depending on Icw (kA rms/1 s)	y 30	1
		y 50	1+1 / 1
		y 85	- / 2
	Cat. no. depending on depth	Fixed support	**NSYBHS600** (D600) or **NSYBHS800** (D800) / **NSYBHS600** (D600) or **NSYBHS800** (D800)
		Free support	**NSYBSA** / **NSYBSA**

Joints

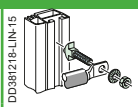
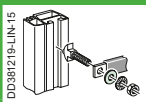
Installation in Spacial SFP	Up to 1600 A				Up to 2500 A			
	1 vertical bar per phase		2 vertical bars per phase		1 vert. bar per phase	2 vertical bars per phase		
Busbar cross-section (mm)	60 x 5	80 x 5	60 x 5	80 x 5	80 x 10	50 x 10	60 x 10	80 x 10
Sliding joints with self-breaking lock nut	**04640**			**04641**				
								
Cat. no.	**04640**	**04641**	**04640**	**04641**	**04641**	**04640**	**04640**	**04641**

Note: When installed at the bottom of a cubicle, the busbar must be partitioned.

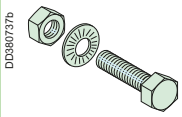
Compartmentalised enclosure for Motor Control Centres

Linergy distribution systems
Accessories

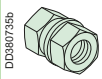
Accessories

			 Linergy screw	 Plain washer	 Identification
Linergy screw	Characteristics		Sold in lots of 20: 20 screws + 20 nuts + 20 contact washers, class 8.8. The screws slide into the profile and are then locked in the desired position.		
	Cat. no.	25 mm length	see the table "Connections on Linergy LGYE & LGY" below		
		39 mm length			
Steel plain washers	Characteristics		M8 sold in lots of 20.		
	Cat. no.	ext. Ø20 mm	**04772**		
		ext. Ø24 mm	**04773**		
		ext. Ø28 mm	**04774**		
Brass plain washers	Characteristics		M8 sold in lots of 20 for connection of y 25 mm² lugs to Linergy.		
	Cat. no.	ext. Ø20 mm	**04775**		
Identification	Characteristics		12 clip-on supports + N, L1, L2, L3, PE, PEN labels.		
	Cat. no.		**04794**		
	Characteristics		Linergy LGYE busbar screw plate kit after sales service.		
	Cat. no.		**01130**		

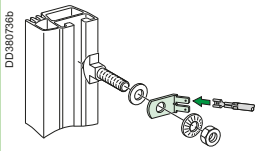
M8 bolts

			
Linergy BS, 20 bolts 8.8 class	Characteristics		Set of 20 bolts + 20 nuts + 40 contact washers.
	Cat. no.	M8 x 20	**04782**
		M8 x 25	**04783**
		M8 x 30	**04784**
		M8 x 35	**04785**
		M8 x 40	**04786**
		M8 x 45	**04787**
		M8 x 50	**04788**

Torque nuts

			
20 M8 torque nuts	Characteristics		Can be used to obtain the correct tightening torque (28 Nm) recommended by then manufacturer, without using a torque wrench. Torque nuts may be used for all electrical connections.
	Cat. no.		**04759**

Voltage tap-offs

			
20 M10 voltage tap-offs for two 6.35 mm tab connectors	Characteristics		For small lugs (on low-current cables or measurement tap-offs), insert a conducting washer (cat. no. 04775) between the busbar and the lug.
	Cat. no.		**04229**

Connections on Linergy LGYE & LGY

InA (A)		Connection on Linergy	Utilisation	Cat no.	
0 to 630	Cable Insulated flexible bar	Use the 25 mm Linergy screw	Recommended	**04766**	
		Use the 39 mm Linergy screw	Possible	**04767** (1)	
800 to 1250	5 mm thick bar	Use the 25 mm Linergy screw	Recommended	**04766**	
		Use the 39 mm Linergy screw	Possible	**04767** (1)	
		Use the flat plate screw with 2 studs	Possible	**04768**	
1600 to 2500	5 or 10 mm thick bar	Use the flat plate screw with 2 studs	Recommended	**04768**	
		Use the 39 mm Linergy screw	Possible	**04767** (1)	

(1) ***04767*** *is only compatible with Linergy LGY.*

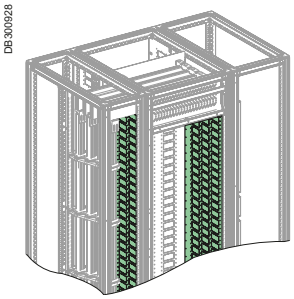
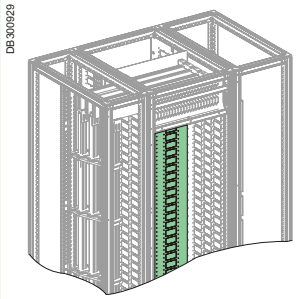
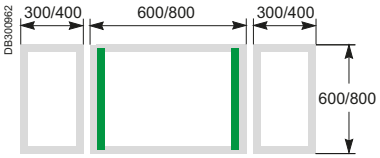
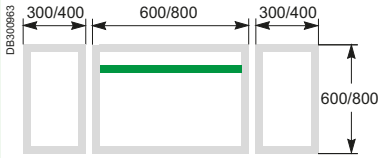
Compartmentalised enclosure for Motor Control Centres

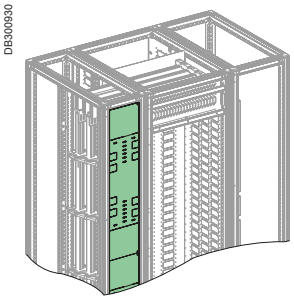
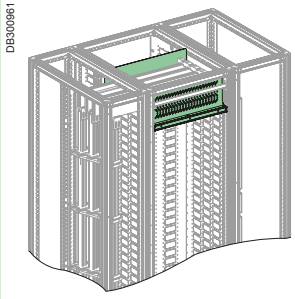
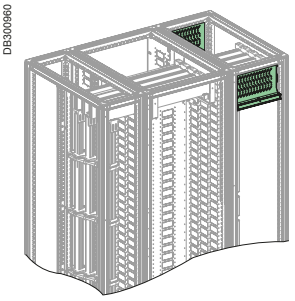
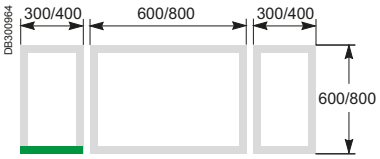
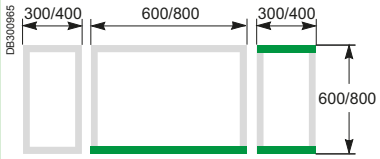
Partitioning Form 2

Partitioning Form 2

Separation of busbars from the functional units:
- protection against contact with live parts upstream of the outgoing circuits,
- protection against penetration of foreign solid bodies.

Form 2 partitioning

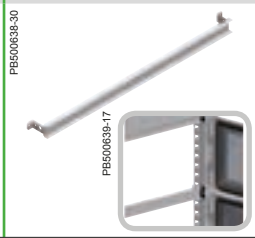
	Lateral partitioning	Rear partitioning
		
Diagramas		
Características	■ Set of 2 vertical metallic separation which guarantees good insulation of the sides of the compartment (IP2x). ■ Top and bottom ends have knock-outs for installation of horizontal busbars and pre-cuts of 40 x 70 mm for cable-glands using grommets ref **01215** when Form 4b is required. ■ Partition extension required for D800 mm. ■ Direct fixing on structure of enclosure.	■ Vertical metallic separation which guarantee good insulation of the back of the compartment (IP2x). ■ Pre-cuts of 40 x 70 mm for cable-glands using grommets ref **01215** when Form 4b is required on back installation. ■ Direct fixing on structure of enclosure.
Nº cat.	D600: **NSYMSC206** D800: **NSYMSC206** + **NSYMSC202** + **NSYSUCR40200**	W600: **NSYMBC206** W800: **NSYMBC208**

	Front and Rear busbar barrier	Horizontal busbar barriers			
					
Diagramas					
		W600	W800	W300	W400
Características	■ Front protection is realized by the association of the door W300 and this barrier. Metallic barrier, composed of 2 parts H850, pre-cut at both ends ■ Rear protection is realized by the association of the back panel of the enclosure.	■ Horizontal protection by the association of slotted front barrier and horizontal partition for efficient natural convection in the switchboard.		■ Set of 2 slotted barriers (front & rear), plus horizontal panel to be used when busbars cross the cable chamber.	
		■ The set can be used to partition horizontal busbar at the top or bottom of the cubicle. ■ The space required for the busbars is not increased.			
Nº cat.	W300: **06540** W400: **NSYVPF2B4**	D600 (1): **NSYHPF2B3M64** D800 (1): **NSYHPF2B3M65**	D600 (1): **NSYHPF2B3M84** D800 (1): **NSYHPF2B3M85**	D600: **06561** D800: **06563**	D600: **NSYHPF2B3M4** D800: **NSYHPF2B3M4**

Note: *when the busbars are at the bottom of the cubicle, gland plates are mandatory.*
(1) For an enclosure with depth of 600 mm the compartment depth is 400 mm.
For an enclosure with depth of 800 mm the compartment depth is 500 mm.

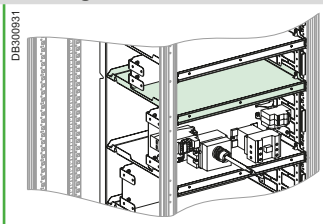
Compartmentalised enclosure for Motor Control Centres
Partitioning Form 3

Accessorie for partitioning Form 2 &3

External claddings	
	Intermediate Crossbar
	
Characteristics	■ It is mounted between partial doors, guaranteeing good sealing. ■ To be used in the absence of the partition tray. ■ Direct fixing to the structure. ■ Available in 2 widths (mm).
Supply	2 crossbars with fixing elements
Nº cat.	W600: **NSYMIC6** W800: **NSYMIC8**

Partitioning Form 3

Separation of busbars from the functional units and separation of all functional units from one another.
Separation of the terminals for external conductors from the functional units, but not from each other.
■ protection against contact with live parts
■ reduction in the risk of faults between the functional units (propagation of electrical arcs, etc.).

Form 3 partitioning		
Horizontal partitioning		
		
	W600	**W800**
Characteristics	■ A horizontal metal partition to separate functional units from one another and guarantees insulation of the compartments (IP2x). ■ It is fixed to the front uprights of the enclosure and the side partitions. ■ Quick fixing system with intermediate crossbar to ensure the degree of protection of the partial doors. ■ Order by multiples of 2 (2, 4, 6…).	
Cat. no.	D600 (1): **NSYMTR64** D800 (1): **NSYMTR65**	D600 (1): **NSYMTR84** D800 (1): **NSYMTR85**

(1) For an enclosure with depth of 600 mm the compartment depth is 400 mm.
For an enclosure with depth of 800 mm the compartment depth is 500 mm.

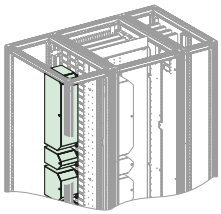
Compartmentalised enclosure for Motor Control Centres
Partitioning Form 4

Partitioning Form 4

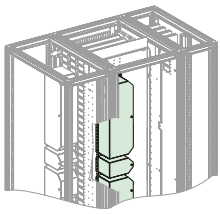
Separation of busbars from the functional units and separation of all functional units from one another, including the terminals for external conductors which are an integral part of the functional unit:
- Protection against contacts with live parts and reduction in the risk of faults between the functional units (propagation of electrical arcs, etc.).
- Form 4a: terminal for external conductors in the same compartment as the associated.
- Form 4b: Terminals for external conductors not in the same compartment as the associated functional unit, but in individual, separate, enclosed protected spaces or compartments.

Form 4b boxes

DB300932



DB300933



Characteristics	■ Metallic plain box composed by 2 parts that can be easily installed for side or rear connection to separate the terminals for external conductors of the functional unit. ■ Quick fixing system on the side or on the back partition. ■ Available in 6 heights:					
Cat. no.	3M: **NSYBF4B3M**	4M: **NSYBF4B4M**	5M: **NSYBF4B5M**	6M: **NSYBF4B6M**	8M: **NSYBF4B8M**	9M: **NSYBF4B9M**

Other universal common accessories

Rail support bracket

PB502723-20



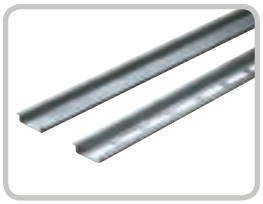
Characteristics	■ Bracket for fixing rails at an angle of 45°. ■ Reference by unit. Order by multiples of 10 (10, 20, 30…).
Cat. no.	**NSYFB45**

Mounting & Cable management acc.

PB500964-20



PB500864-36



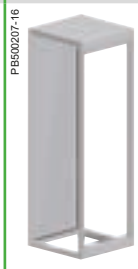
Cat. no.	**See on Universal Enclosure catalogue**

Compartmentalised enclosure for Motor Control Centres
Selection of Spacial enclosures

Common characteristics

- Spacial SFM framework with compartmentalised system that can be combined side-by-side with busbar and cable chambers.
- Receive the cover panels and partial doors IP54 according to IEC 60529.
- Material: steel.
- Finish: structured finish, epoxy-polyester powder.
- Colour: RAL 7035 grey.
- Possibility to order it assembled or kit supply.

Compartmentalised enclosure

		Assembled supply		Kit supply	
					
		W600	**W800**	**W600**	**W800**
Characteristics		■ Structure: Top and bottom frame and vertical uprights H2000 mm. ■ Useful height for doors H1800 mm /36M, when are installed the top and bottom fix panels for modularity (mandatory for installation of partial doors). ■ Equipped with removable roof, external fixing rear panel and top & bottom fixed panels (H100 mm) to allow modularity of partial doors. ■ 4 dimensions available.			
Cat. no.		D600: **NSYSF20660M** D800: **NSYSF20680M**	D600: **NSYSF20860M** D800: **NSYSF20880M**	-	-
	Vertical uprights H2000 mm	-	-	**NSYSFV20**	**NSYSFV20**
	Top & Bottom frame with roof	-	-	D600: **NSYSFC66** D800: **NSYSFC68**	D600: **NSYSFC86** D800: **NSYSFC88**
	Rear panel	-	-	**NSYBP206**	**NSYBP208**
	Fixed panels for modularty H100 mm /2M (intermediate crossbars included)	-	-	See table below	See table below

External claddings

	Front Fix panel for modularity		Frontal partial doors		Side panels	
						
	W600	**W800**	**W600**	**W800**	**D600**	**D800**
Characteristics	■ Top & bottom fix panel to obtain modularity required to install partial doors. ■ If there is no horizontal partitioning on top or bottom, the intermediate crossbar has to be ordered separately, ref. **NSYMIC6** (W600 mm) or **NSYMIC8** (W800 mm). ■ 2M fixed panels are delivered as standard for the compartmentalized enclosure. Possibility to order it separately for Spacial SFM framework in kit supply. ■ Available in 2 heights (M) (1).		■ Plain partial door with lock 5 mm double-bar insert. ■ They are fixed to the uprights of the framework by means of hinges. ■ Drilling template for uprights ref. **NSYMDT** (2) (Only 1 drilling template by order is needed). ■ Opening to right or left. ■ 1, 2 or 4 locking points according different heights. ■ Possibility to replace locking insert (see page 371). ■ Available in following heights (M) (1).		■ Set of 2 side panels fixed to the outside of the enclosure. ■ Captive screws pre-mounted on the panels. ■ Available in 2 depths (mm).	
Cat. no.	2M: **NSYMFP2M6** (3) 5M: **NSYMFP5M6** (3)	2M: **NSYMFP2M8** (3) 5M: **NSYMFP5M8** (3)	3M: **NSYMPD3M6** 4M: **NSYMPD4M6** 5M: **NSYMPD5M6** 6M: **NSYMPD6M6** 8M: **NSYMPD8M6** 9M: **NSYMPD9M6** 12M: **NSYMPD12M6** 16M: **NSYMPD18M6** 18M: **NSYMPD18M6** 20M: **NSYMPD20M6** 24M: **NSYMPD24M6**	3M: **NSYMPD3M8** 4M: **NSYMPD4M8** 5M: **NSYMPD5M8** 6M: **NSYMPD6M8** 8M: **NSYMPD8M8** 9M: **NSYMPD9M8** 12M: **NSYMPD12M8** 16M: **NSYMPD16M8** 18M: **NSYMPD18M8** 20M: **NSYMPD20M8** 24M: **NSYMPD24M8**	**NSY2SP206**	**NSY2SP208**

(1) Heights according modularity (1M = 50 mm).
(2) Only 1 drilling template NSYMDT by order is needed.
(3) Each reference contains 2 units.

Compartmentalised enclosure for Motor Control Centres

Selection of Spacial enclosures for Motor Control Centres

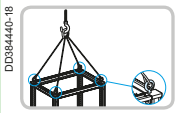
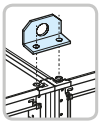
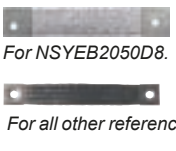
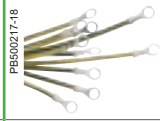
Busbar & cabling chambers

		Assembled supply		Kit supply	
					
		W300	**W400**	**W300**	**W400**
Characteristics		■ Structure: Top and bottom frame and vertical uprights H2000 mm. ■ Equipped with removable roof, external fixing rear panel and front plain door with 4 point locking system with handle and DB 5 mm insert. ■ 4 dimensions available.			
Cat. no.		D600: **NSYSF20360** D800: **NSYSF20380**	D600: **NSYSF20460** D800: **NSYSF20480**	-	-
	Vertical uprights H2000 mm	-	-	**NSYSFV20**	**NSYSFV20**
	Top & Bottom frame with roof	-	-	D600: **NSYSFC36** D800: **NSYSFC38**	D600: **NSYSFC46** D800: **NSYSFC48**
	Rear panel	-	-	**NSYBP203**	**NSYBP204**
	Front plain door	-	-	**NSYSFD203**	**NSYSFD204**

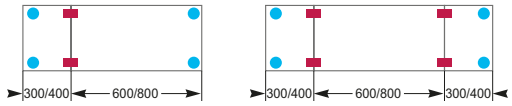
Compartmentalised enclosure for Motor Control Centres
Spacial accessories

Other composition accessories

			Cable-gland plates			Plinth (100 mm height)		Plinth (200 mm height)	
									
H (mm)	W (mm)	D (mm)	Plain	1 entry	2 entries	Front kit	Side kit	Front kit	Side kit
2000	600	600	NSYEC66	NSYEC661	NSYEC662	NSYSPF6100	NSYSPS6100	NSYSPF6200	NSYSPS6200
2000	600	800	NSYEC68	NSYEC681	NSYEC682	NSYSPF6100	NSYSPS8100	NSYSPF6200	NSYSPS8200
2000	800	600	NSYEC86	NSYEC861	NSYEC862	NSYSPF8100	NSYSPS6100	NSYSPF8200	NSYSPS6200
2000	800	800	NSYEC88	NSYEC881	NSYEC882	NSYSPF8100	NSYSPS8100	NSYSPF8200	NSYSPS8200
2000	300	600	NSYEC36	NSYEC361	-	NSYSPF3100	NSYSPS6100	NSYSPF3200	NSYSPS6200
2000	300	800	-	NSYEC381	-	NSYSPF3100	NSYSPS8100	NSYSPF3200	NSYSPS8200
2000	400	600	NSYEC64	NSYEC461	-	NSYSPF4100	NSYSPS6100	NSYSPF4200	NSYSPS6200
2000	400	800	NSYEC84	NSYEC481	-	NSYSPF4100	NSYSPS8100	NSYSPF4200	NSYSPS8200

	Coupling kit	4 lifting eyebolts	4 lifting brackets	Earth braids	Earthing cables
					
Characteristics	■ Side-by-side combination. ■ Back-to-back combination (2).	■ Use a set of lifting eyebolts rings for each framework (3).	■ When two cubicles with devices have been combined, use a lifting brackets.	■ **NSYEB1516D8 :** □ Length 155 mm, □ Section 16 mm², □ Terminal 8.5 mm. ■ **NSYEB2025D8 :** □ Length 200 mm, □ Section 25 mm², □ Terminal 8.5 mm. ■ **NSYEB2050D8 :** □ Length 200 mm, □ Section 50 mm², □ Terminal 8.5 mm.	■ **NSYEL166D8:** □ Length 160 mm, □ Section 6 mm², □ Terminal 8.3 mm. ■ **NSYEL2225D8:** □ Length 220 mm, □ Section 25 mm², □ Terminal 8.3 mm. ■ **NSYEL3525D8:** □ Length 350 mm, □ Section 25 mm², □ Terminal 8.3 mm.
Cat. no.	**NSYSFBK19**	**NSYSFEB**	**NSYSFELB**	**NSYEB1516D8** **NSYEB2025D8** **NSYEB2050D8**	**NSYEL166D8** **NSYEL2225D8** **NSYEL3525D8**

(2) Back to back association must be shipped individually and combined during on-site installation.
(3) For 2 columns: *For 3 columns:*



Lifting eyebolts
Lifting brackets

For more than 3 colomuns, lengths > 1600 mm, see Lifting bars options on Universal Enclosures catalogue.

Locks for partial doors

		Possibility to replace standard insert by one from the table below (CRN range) and by keeping the standard latch.	
Type of lock		**Insert references**	**Key references**
⊙	3 mm double bar	**NSYTDBCRN***	**NSYLDB5**
□	6 mm	**NSYTC6CRN**	**NSYLC7**
□	7 mm	**NSYTC7CRN**	**NSYLC7**
□	8 mm	**NSYTC8CRN**	**NSYLC8**
△	6.5 mm	**NSYTT6CRN**	**NSYLT8**
△	7 mm	**NSYTT7CRN**	**NSYLT8**
△	8 mm	**NSYTT8CRN**	**NSYLT8**

** Delivered with 1 metal key.*

Thalassa PHD
Spacial S3HD - SFHD

Outdoor Heavy Duty enclosures
Introduction

> Thalassa PHD is suitable for outdoor public areas thanks to its multiple virtues:
- pressure and shock resistant (IEC 61439-5),
- anti-posting thanks to its special ribbed-surface door,
- insulated (ready to be Class II according to IEC 61439-1: 2011).

PB502630-28



> Spacial S3HD and SFHD are designed for outdoor private areas. They are engineered to resist aggressive environments (anti-corrosion certification class C4H, ISO 12944:1999).

PB502662-28

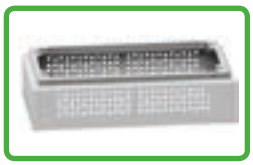


PB502681-34



Tough
PHD: Heavy Duty polyester reinforced with a double layer of fiberglass in structural parts. Ultra-resistant, anti-vandalism.

PB502673-29



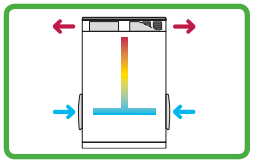
Heavy Duty accessories
Dedicated accessories to resist outdoor, harsh environments.

PB502648-11



Simplicity
Installation simplified: easy to be lifted with up to 1000 kg-loaded equipment. HD lifting accessories also available.

DB300824-120



Thermal management solutions
3 ventilation architectures studied to help protect the equipment installed inside from overheating and humidity.

PB502662-30



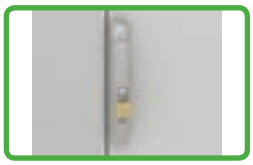
Fully equipped
Standard, pre-installed equipment includes:
- a curved canopy to avoid water stagnation
- a door retainer to keep the door open even with strong wind or when a vehicle passes by
- an aluminium cable gland plate to easily drill holes and avoid corrosion
- a document pocket to stock your documents in a practical place.

PB502670-29



Upper ventilation module
The newly engineered roof ventilation accessory helps to prevent creation of condensation (one of the causes of corrosion).

PB502674-25



Anti-vandalism
PHD and SFHD: the handle with keylock and additional padlock hole (padlock not included) helps to secure the equipment inside.
It is standard equipment.

Green Premium™

**Prolonged exposure to UV radiation, wind and rain can cause aesthetics changes in the external surface of the enclosure.
Without affecting the technical properties according to IEC 62208.
For long exposure applications, it is recommended to use coloured enclosures available through the P&S offer.**

This range can be configured according to your needs

4 differents services available:

- Assemble to order
- Mounting of standard accessories
- Painting
- Machining

See page 488 for details or consult our web site www.se.com

Outdoor Heavy Duty enclosures
Characteristics

According to Reach and RoHs & Halogen free


PB502663-21


PB502646-21
PB502645-21

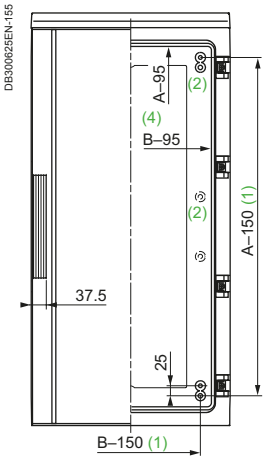

PB502653-21

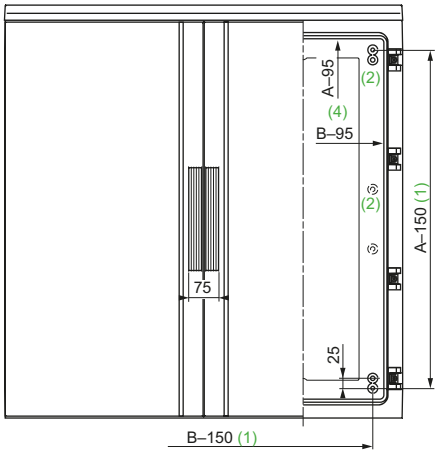

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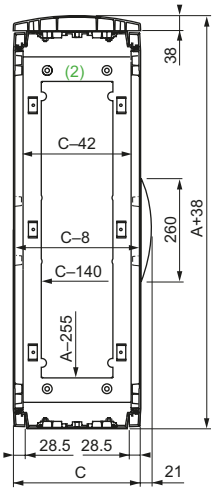
Characteristics	Polyester outdoor Heavy Duty enclosures		Steel outdoor Heavy Duty enclosures	
	Wall-mounting enclosure	**Floor-standing enclosure**	**Wall-mounting enclosure**	**Floor-standing enclosure**
	Outdoor Heavy Duty (HD) enclosures made of polyester insulating material. Suitable to be installed in public areas thanks to its features: ■ anti-pressure and shock resistant ■ anti-posting ■ insulated.		Outdoor Heavy Duty (HD) enclosures made of coated steel. Suitable to be installed in private areas with harsh environments thanks to its capacity to resist: ■ corrosion (up to C4H level according ISO 12944:1999) ■ UV.	
Material	HD Polyester reinforced with fiberglass to meet the standard EN 439-5		HD steel with anti-corrosive coating	
Finish	-		Structured finish, 100 % polyester powder	
Colour	RAL 7035 grey		RAL 7035 grey	
Conditions of use	Outdoor and/or harsh environments		Outdoor and/or harsh environments	
Temperature range	-40...80°C		-40...80°C	
Ingress protection rating	IP65 according to IEC 60529	IP55 according to IEC 60529	IP66 according to IEC 60529	IP55 according to IEC 60529
Mechanical protection rating	IK10 according to IEC 62262		IK10 according to IEC 62262	
Standards	IEC 61439-5: 2010, IEC 62208: 2011, IEC 61439-1: 2011, IEC 61969-3: 2011, IEC 60297-3-100: 2009		IEC 61439-5: 2010, IEC 62208: 2011, IEC 61969-3: 2011, IEC 60297-3-100: 2009, ISO 12.944: 1999 (C4H)	
Certifications	See table page 384		See table page 384	
Fixing	On wall by means of optional wall fixing accessory	2 options for installation on floor: ■ with floor fixing kit **NSYMF2PLAZ4** or **NSYMF2PLAZ6** for integrated plinth (50 mm) ■ with additional ZZ plinths (ventilated or non-ventilated) available as accessory (200 mm) (see page 377)	■ On wall by means of optional stainless steel wall fixing lugs ■ On post by means of optional HD post-fixing device	■ Directly on floor by means of optional plinth (see page 379)
Maximum load according to IEC 62208	500 kg		200 kg	1000 kg
Other characteristics	■ Fire resistant (EN 1794-2:2011) ■ Lifting possible from top with eyebolt accessory ■ New dedicated ventilation solutions to be integrated in roof, lateral or plinth. 3 ventilation architectures proposed (see page 382 et 383)		New dedicated ventilation solutions to be integrated in roof, side or plinth	
Options	Plain door or ribbed door		-	
Supply	■ Curved canopy ■ Handle with keylock (1242E type) and padlock ■ Door retainer ■ Plastic document pocket (A4 size)	■ Curved canopy ■ Integrated plinth ■ Handle with keylock (1242E type) and padlock ■ Aluminium cable gland plate ■ Door retainer ■ Plastic document pocket (A4 size)	■ Curved canopy ■ 3-mm double-bar lock ■ Plastic document pocket (A4 size) ■ Door retainer ■ Aluminium cable gland plate	■ Curved canopy ■ Rear panel ■ Handle with keylock (1242E type) and padlock ■ Aluminium cable gland plate ■ Door retainer ■ Plastic document pocket (A4 size)

Outdoor Heavy Duty enclosures
Dimensions

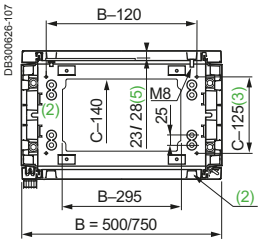
Enclosure with airing canopy

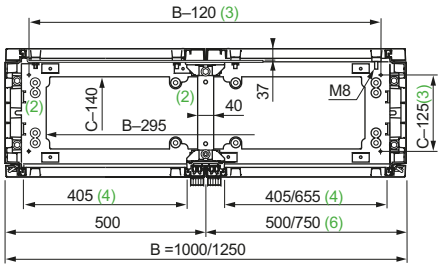






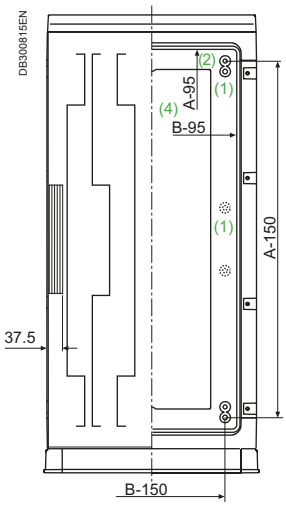
Common top views

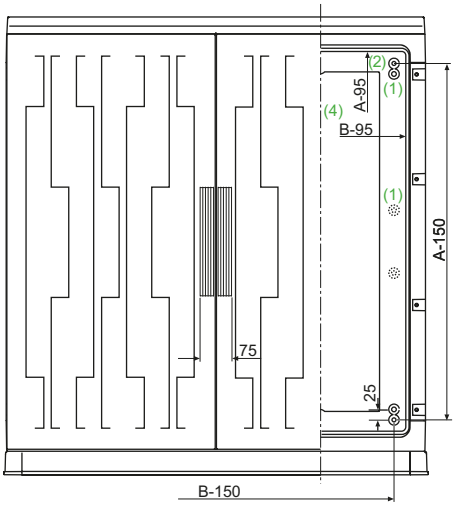


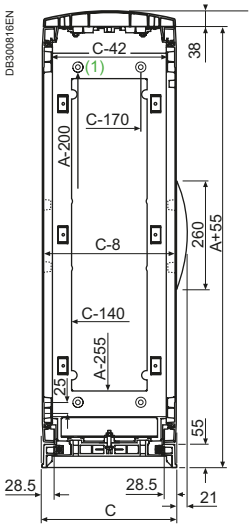


Outdoor Heavy Duty enclosures
Dimensions

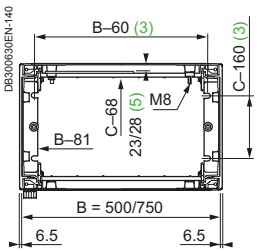
Enclosure with airing canopy and plinth-type open bottom part

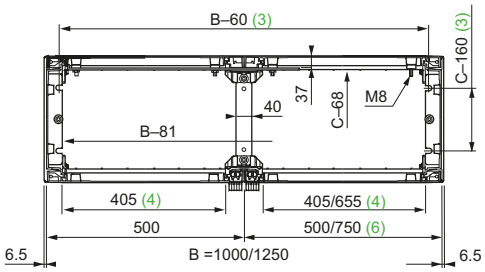






Common top views





(1) 4 bosses with M8 inserts and studs for direct fixing of mounting plates.
*(2) Bosses designed to accommodate M8 inserts, ref. **NSYTEX8**. They are placed:*
– On the back of the enclosure, from the height of 1000 mm. They allow the fixing of partial mounting plates and assorted equipment.
– On the top and bottom parts of the enclosure. They are used for fixing the step slides, an internal door, 19" chassis, etc.
(3) Dimensions for fixing on the floor or on a plinth.
(4) Entry dimensions, door open.
(5) Dimension of 28 mm for enclosures with heights of more than 1000 mm (height after the installation of the plain mounting plates with reinforcement foldings).
(6) With a width of 1250 mm in standard supply, 500-mm door on the left and 750-mm door on the right.

Thalassa PHD
Spacial S3HD - SFHD

Outdoor Heavy Duty enclosures

Selection guide and accessories

Polyester outdoor HD enclosures











Characteristics				Polyester enclosure		Eyebolts	Wall fixing accessory	Floor fixing kit
				Anti-posting door	Plain door			
						Top lifting accessory for polyester outdoor Heavy Duty enclosure. ■ Maximum load per enclosure: 500 kg.	Wall fixing support for polyester outdoor Heavy Duty enclosure. No change in ingress protection rate. ■ Maximum load per enclosure: 180 kg.	To fix the enclosure on the floor without a plinth.
Material				Glass reinforced polyester	Glass reinforced polyester	Galvanised cast steel	Zinc coated steel	Steel
Finish						-	Zinc coating	Insulating coating
Colour				RAL 7035	RAL 7035	-	-	-
Installation						-	-	On dry concrete
Supply						4	4	1
Height (mm)	**Width (mm)**	**Depth (mm)**	**No. of doors**	**References**				
Wall-mounted enclosure								
538	500	320	1	**NSYPHDT553**	**NSYPHDT553P**	-	**NSYFMPHD**	-
788	500	320	1	**NSYPHDT753**	**NSYPHDT753P**	-	**NSYFMPHD**	-
Floor-standing enclosure								
843	750	420	1	**NSYPHDZT774**	**NSYPHDZT774P**	**NSYPLHD**	-	**NSYMF2PLAZ4**
	750	620	1	**NSYPHDZT776**	**NSYPHDZT776P**	**NSYPLHD**	-	**NSYMF2PLAZ6**
1093	500	420	1	**NSYPHDZT1054**	**NSYPHDZT1054P**	**NSYPLHD**	-	**NSYMF2PLAZ4**
	750	420	1	**NSYPHDZT1074**	**NSYPHDZT1074P**	**NSYPLHD**	-	**NSYMF2PLAZ4**
1343	500	420	1	**NSYPHDZT1254**	**NSYPHDZT1254P**	**NSYPLHD**	-	**NSYMF2PLAZ4**
	750	420	1	**NSYPHDZT1274**	**NSYPHDZT1274P**	**NSYPLHD**	-	**NSYMF2PLAZ4**
		620	1	**NSYPHDZT1276**	**NSYPHDZT1276P**	**NSYPLHD**	-	**NSYMF2PLAZ6**
	1250	420	2	**NSYPHDZT12124**	**NSYPHDZT12124P**	**NSYPLHD**	-	**NSYMF2PLAZ4**
		620	2	**NSYPHDZT12126**	**NSYPHDZT12126P**	**NSYPLHD**	-	**NSYMF2PLAZ6**
1593	750	420	1	**NSYPHDZT1574**	**NSYPHDZT1574P**	**NSYPLHD**	-	**NSYMF2PLAZ4**
		620	1	**NSYPHDZT1576**	**NSYPHDZT1576P**	**NSYPLHD**	-	**NSYMF2PLAZ6**
	1250	420	2	**NSYPHDZT15124**	**NSYPHDZT15124P**	**NSYPLHD**	-	**NSYMF2PLAZ4**
		620	2	**NSYPHDZT15126**	**NSYPHDZT15126P**	**NSYPLHD**	-	**NSYMF2PLAZ6**
2093	750	420	2*	**NSYPHDZT2074**	**NSYPHDZT2074P**	**NSYPLHD**	-	**NSYMF2PLAZ4**
								

** Vertical doors.*

Outdoor Heavy Duty enclosures
Selection guide and accessories


PB503459-30


PB502684-21


PB500072-16


PB502670-31


PB502664-25

	Ventilated ZZ plinth 200 mm**	ZZ plinth 200 mm**	Plain mounting plate	Roof ventilation module	Anti-burglary accessory
	Height: 200 mm. The front part can be removed with a 1242 key. Includes a polyester anti-insect filter.	Height: 200 mm. The front and back plates can only be removed from the inside. It is provided with one or two reinforcement cross-rails, adjustable to adapt to the position of the cables.	The enclosures with height of ≥ 1000 mm have intermediate bosses to fix the mounting plate (M8 inserts, ref. **NSYTEX8**, to be ordered separately).	Ventilation module to enable airing from the top of the enclosure (H = 95 mm).	Anti-burglary accessory for polyester outdoor Heavy Duty in accordance with ENV 1627-1630:2011 class 2. It keeps the Insulation Class II according to IEC 61439-1:2011.
	Glass-reinforced polyester	Glass-reinforced polyester	Galvanised steel	Steel with anti-corrosive coating (C4H according ISO 12.944: 1999)	Steel with anti-corrosive coating (C4H according ISO 12.944: 1999)
	-	-	-	Structured finish, 100 % polyester powder	Structured finish, 100 % polyester powder
	RAL 7035 grey	RAL 7035 grey	-	RAL 7035 grey	RAL 7035 grey
	-	-	■ Direct installation on M8 inserts at the rear of the enclosure or on step slides for depth adjustment (see page 195) ■ In the 2-door enclosures, it is possible to install 1 complete mounting plate or 2 individual mounting plates	-	Easy installation on the outside of the enclosure
	1	1	1	1	1
	-	-	**NSYPMM55**	-	-
	-	-	**NSYPMM75**	-	-
	NSYZZ274VHD	**NSYZZ274G**	**NSYPMM77**	**NSYPCVR74HD**	**NSYBGN774HD**
	NSYZZ276VHD	**NSYZZ276G**	**NSYPMM77**	**NSYPCVR76HD**	**NSYBGN776HD**
	NSYZZ254VHD	**NSYZZ254G**	**NSYPMM105**	**NSYPCVR54HD**	**NSYBGN1054HD**
	NSYZZ274VHD	**NSYZZ274G**	**NSYPMM107**	**NSYPCVR74HD**	**NSYBGN1074HD**
	NSYZZ254VHD	**NSYZZ254G**	**NSYPMM125**	**NSYPCVR54HD**	**NSYBGN1254HD**
	NSYZZ274VHD	**NSYZZ274G**	**NSYPMM127**	**NSYPCVR74HD**	**NSYBGN1274HD**
	NSYZZ276VHD	**NSYZZ276G**	**NSYPMM127**	**NSYPCVR76HD**	**NSYBGN1276HD**
	NSYZZ2124VHD	**NSYZZ2124G**	**NSYPMM1212**	**NSYPCVR124HD**	**NSYBGN12124HD**
	NSYZZ2126VHD	**NSYZZ2126G**	**NSYPMM1212**	**NSYPCVR126HD**	**NSYBGN12126HD**
	NSYZZ274VHD	**NSYZZ274G**	**NSYPMM157**	**NSYPCVR74HD**	**NSYBGN1574HD**
	NSYZZ276VHD	**NSYZZ276G**	**NSYPMM157**	**NSYPCVR76HD**	**NSYBGN1576HD**
	NSYZZ2124VHD	**NSYZZ2124G**	**NSYPMM1512**	**NSYPCVR124HD**	**NSYBGN15124HD**
	NSYZZ2126VHD	**NSYZZ2126G**	**NSYPMM1512**	**NSYPCVR126HD**	**NSYBGN15126HD**
	NSYZZ274VHD	**NSYZZ274G**	**NSYPMM207** or 2 x **NSYPMM107**	**NSYPCVR74HD**	**NSYBGN2074HD**
	 PB502630-22	 PB502630bis-24		 PB502630-22	 PB502694-22

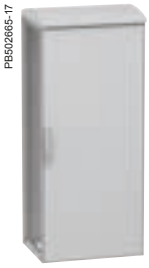
*** The coupling kit NSYMUPLA••• is not applicable for enclosures using ZZ or ZH type plinths.*

Thalassa PHD
Spacial S3HD - SFHD

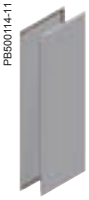
Outdoor Heavy Duty enclosures

Selection guide and accessories

Steel outdoor HD enclosures


PB502665-17


PB502653-17


PB500114-11


PB500527-13


PB502979-13


PB500156-28

Characteristics			Steel enclosure	Side panels		Stainless steel wall fixing lugs	Heavy duty post-fixing device
				For floor-standing enclosures		For wall-mounting enclosures	
				Side panel fixing for SFHD.		Vertical position only. Do not use for dynamic loads.	Rail fixed on the inserts in the rear of the enclosure with 8-mm screws.
Material				Steel with anti-corrosive coating (C4H according ISO 12.944: 1999)		Stainless-steel AISI 304L	Steel
Finish				Structured finish, 100 % polyester powder		-	Zinc coating
Colour				RAL 7035 grey		-	-
Installation				-		Mounted directly on the rear of the enclosure, in vertical position	On posts with diameter 150 to 210 mm.
Maximum load				-		250 kg	100 kg
Supply				2 side panels with fixing elements and sealing gasket		Set of 4 wall-fixing lugs with fixings and gasket	1
Height (mm)	**Width (mm)**	**Depth (mm)**		**External fixing**	**Internal fixing**		
Wall-mounting enclosure							
343	200	180	**NSYS3HD3215**	-	-	**NSYAEFPFXSC**	-
448	300	230	**NSYS3HD4320**	-	-	**NSYAEFPFXSC**	**NSYSFPSC30HD**
548	400	230	**NSYS3HD5420**	-	-	**NSYAEFPFXSC**	**NSYSFPSC40HD**
653	400	280	**NSYS3HD6425**	-	-	**NSYAEFPFXSC**	**NSYSFPSC40HD**
658	600	330	**NSYS3HD6630**	-	-	**NSYAEFPFXSC**	**NSYSFPSC60HD**
753	500	280	**NSYS3HD7525**	-	-	**NSYAEFPFXSC**	**NSYSFPSC50HD**
858	600	330	**NSYS3HD8630**	-	-	**NSYAEFPFXSC**	**NSYSFPSC60HD**
862	800	430	**NSYS3HD8840**	-	-	**NSYAEFPFXSC**	**NSYSFPSC80HD**
1062	600	430	**NSYS3HD10640**	-	-	**NSYAEFPFXSC**	**NSYSFPSC60HD**
	800	430	**NSYS3HD10840**	-	-	**NSYAEFPFXSC**	**NSYSFPSC80HD**
Floor-standing enclosure							
1262	600	430	**NSYSFHD12640**	**NSY2SPHD124**	**NSY2SPIHD124**	-	-
	800	430	**NSYSFHD12840**	**NSY2SPHD124**	**NSY2SPIHD124**	-	-
	1200	430	**NSYSFHD1212402D**	**NSY2SPHD124**	**NSY2SPIHD124**	-	-
1281	600	630	**NSYSFHD12660**	**NSY2SPHD126**	**NSY2SPIHD126**	-	-
	800	630	**NSYSFHD12860**	**NSY2SPHD126**	**NSY2SPIHD126**	-	-
	1200	630	**NSYSFHD1212602D**	**NSY2SPHD126**	**NSY2SPIHD126**	-	-
1662	800	430	**NSYSFHD16840**	**NSY2SPHD164**	**NSY2SPIHD164**	-	-
	1200	430	**NSYSFHD1612402D**	**NSY2SPHD164**	**NSY2SPIHD164**	-	-
1681	600	630	**NSYSFHD16660**	**NSY2SPHD166**	**NSY2SPIHD166**	-	-
	800	630	**NSYSFHD16860**	**NSY2SPHD166**	**NSY2SPIHD166**	-	-
	1200	630	**NSYSFHD1612602D**	**NSY2SPHD166**	**NSY2SPIHD166**	-	-
2062	800	430	**NSYSFHD20840**	**NSY2SPHD204**	**NSY2SPIHD204**	-	-

Outdoor Heavy Duty enclosures
Selection guide and accessories


PB500461-13


PB502671-18


PB502672-13


PB502484-22


PB502486-19


PB500072-16


PB502670-20

	Heavy Duty padlockable double lock	Stainless-steel plinths 200 mm Ventilated plinths		Stainless-steel plinths 200 mm Standard plinths		Plain mounting plate	Roof ventilation module
	For wall-mounting enclosures	Front and rear kit	Lateral kit	Front and rear kit	Lateral kit		
	Easy mounting instead of the standard lock.	The front and rear of the plinth consists of 4 corners with 2 panels.	They are fixed to the corner of the plinth by fixing screws.	The front and rear of the plinth consists of 4 corners with 2 panels.	They are fixed to the corner of the plinth by fixing screws.	-	Ventilation module to enable airing from the top of the enclosure (H = 95 mm).
	Zamak	Stainless-steel AISI 304L	Stainless-steel AISI 304L	Stainless-steel AISI 304L	Stainless-steel AISI 304L	Galvanised steel	Steel with anti-corrosive coating
	Anti-corrosive coating	Scotch-Brite® brushing				-	Structured finish, 100 % polyester powder
	-	-	-	-	-	-	RAL 7035 grey
	-	■ For wall-mounting enclosure: it is necessary to order separately the plinth fixing kit (ref. **NSYAPFXWM**) composed by fixing hardware and drilling template ■ For floor-standing enclosure: mounting in the holes for fixing the enclosures to the floor				-	-
	-	-	-	-	-	-	-
	Delivered with 3 mm double-bar metal key	1 kit	1 kit	1 kit	1 kit	1 mounting plate and fixing elements	1
	NSYAEDLPADS3DHD	-	-	-	-	**NSYMM32**	-
	NSYAEDLPADS3DHD	-	-	-	-	-	-
	NSYAEDLPADS3DHD	-	-	-	-	**NSYMM54**	-
	NSYAEDLPADS3DHD	-	-	-	-	**NSYMM64**	-
	NSYAEDLPADS3DHD	**NSYSPFVX6200**	**NSYSPLVX3200**	**NSYSPFX6200**	**NSYSPSX3200**	**NSYMM66**	-
	NSYAEDLPADS3DHD	-	-	-	-	**NSYMM75**	-
	NSYAEDLPADS3DHD	**NSYSPFVX6200**	**NSYSPLVX3200**	**NSYSPFX6200**	**NSYSPSX3200**	**NSYMM86***	-
	NSYAEDLPADS3DHD	**NSYSPFVX8200**	**NSYSPLVX4200**	**NSYSPFX8200**	**NSYSPSX4200**	**NSYMM88**	**NSYS3CVR84HD**
	NSYAEDLPADS3DHD	**NSYSPFVX6200**	**NSYSPLVX4200**	**NSYSPFX6200**	**NSYSPSX4200**	**NSYMM106**	**NSYS3CVR64HD**
	NSYAEDLPADS3DHD	**NSYSPFVX8200**	**NSYSPLVX4200**	**NSYSPFX8200**	**NSYSPSX4200**	**NSYMM108***	**NSYS3CVR84HD**
	-	-	-	**NSYSPFX6200**	**NSYSPSX4200SF**	**NSYMP126**	**NSYSFCVR64HD**
	-	**NSYSPFVX8200**	**NSYSPLVX4200SF**	**NSYSPFX8200**	**NSYSPSX4200SF**	**NSYMP128**	**NSYSFCVR84HD**
	-	**NSYSPFVX12200**	**NSYSPLVX4200SF**	**NSYSPFX12200**	**NSYSPSX4200SF**	**NSYMP1212**	**NSYSFCVR124HD**
	-	**NSYSPFVX6200**	**NSYSPLVX6200SF**	**NSYSPFX6200**	**NSYSPSX6200SF**	**NSYMP126**	**NSYSFCVR66HD**
	-	**NSYSPFVX8200**	**NSYSPLVX6200SF**	**NSYSPFX8200**	**NSYSPSX6200SF**	**NSYMP128**	**NSYSFCVR86HD**
	-	**NSYSPFVX12200**	**NSYSPLVX6200SF**	**NSYSPFX12200**	**NSYSPSX6200SF**	**NSYMP1212**	**NSYSFCVR126HD**
	-	**NSYSPFVX8200**	**NSYSPLVX4200SF**	**NSYSPFX8200**	**NSYSPSX4200SF**	**NSYMP168**	**NSYSFCVR84HD**
	-	**NSYSPFVX12200**	**NSYSPLVX4200SF**	**NSYSPFX12200**	**NSYSPSX4200SF**	**NSYMP1612**	**NSYSFCVR124HD**
	-	**NSYSPFVX6200**	**NSYSPLVX6200SF**	**NSYSPFX6200**	**NSYSPSX6200SF**	**NSYMP166**	**NSYSFCVR66HD**
	-	**NSYSPFVX8200**	**NSYSPLVX6200SF**	**NSYSPFX8200**	**NSYSPSX6200SF**	**NSYMP168**	**NSYSFCVR86HD**
	-	**NSYSPFVX12200**	**NSYSPLVX6200SF**	**NSYSPFX12200**	**NSYSPSX6200SF**	**NSYMP1612**	**NSYSFCVR126HD**
	-	**NSYSPFVX8200**	**NSYSPLVX4200SF**	**NSYSPFX8200**	**NSYSPSX4200SF**	**NSYMP208**	**NSYSFCVR84HD**

Anti-vandalism kit for plinths


PB502687-7

NSYSKAV


PB502689-29

NSYKSKAV

Fixings that help to prevent to open the plinths from the outside with standard tools.
■ **Material:** stainless-steel.

References	
16 anti-vandalism screws for stainless-steel plinth	**NSYSKAV**
Key for anti-vandalism screws for stainless-steel plinth	**NSYKSKAV**

** Plate with reversible dimensions; it can be installed in enclosures with inverted dimensions. Example: Plate ref. **NSYMM64** can be used for the following enclosures: H 600 x W 400 mm or H 400 x W 600 mm.*
*For plain and silkscreened mounting plates: In wall-mounting enclosures with widths of 1000 and 1200 mm, it is possible to install 2 mounting plates at different depths using an additional central step slide **NSYSDRSDCR•••** (more information on page 210).*

Outdoor Heavy Duty enclosures

Accessories overview

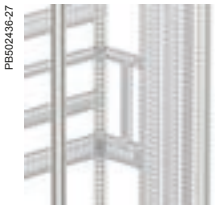
Installation accessories

Mounting acc.



Polyester: *Page 232*
Steel: *Page 212*

Telequick system



Polyester: *Page 219*
Steel: *Page 211*

19" accessories



Steel: *Page 424*

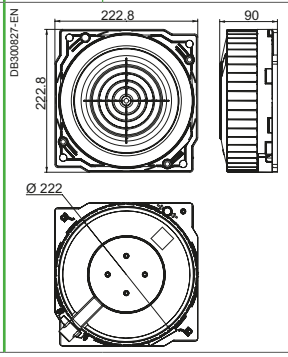
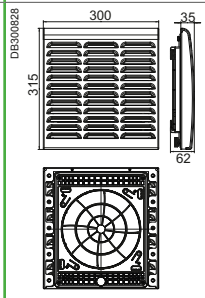
Outdoor Heavy Duty enclosures
Thermal accessories









Characteristics	Fanbox	Filter	Roof filter for fanbox	IP55 HD Metal Grille	Anti-vandalism kit for HD metal grille
	■ Free flow rate: 550 m^3/h (50/60 Hz). ■ Minimal depth inside the enclosure (90 mm). ■ Allows multiple cooling architectures (see page 382 et 383).	Replacement G3 M1 type synthetic filter for HD metal grille. ■ **Dimensions:** 215 x 215 mm.	Roof G2 round synthetic filter designed to cover the fanbox. Covers completely the fanbox and helps to protect it from dust and humidity. Mandatory for fanbox installation in the Roof ventilation module for IP55 configurations.	Slim grille (35 mm external depth). Includes a G3 M1 filter.	Fixings that help to prevent to open the grille from the outside with standard tools (EN 1627-1630:2011 Class 2). Quick installation without tools.
Material	-	100 % polyester fibres	100 % polyester fibres	Steel with anti-corrosive coating + plastic PA6 / GF25 for fixing frame	Steel with anti-corrosive coating + plastic for fixing screws
Finish	-	-	-	Structured finish, 100 % polyester powder	-
Colour	RAL 7016 dark grey	White	White	RAL 7035 grey	-
Ingress protection rating	-	-	-	IP55 according to IEC 60529	-
Mechanical protection rating	-	-	-	IK10 according to IEC 62262	-
Supply	1 (grille not included)	5	1	1 grille delivered with G3 M1 type synthetic filter (215 x 215 mm) and fixings	■ 4 grip knob ■ 4 clip nuts
	Voltage / **References**	**Reference**	**Reference**	**Reference**	**Reference**
	24 V DC / **NSYCVF550M24FB**	**NSYCAF223T**	**NSYCAF190**	**NSYCAG223LFHD**	**NSYCAAPVHD***
	48 V DC / **NSYCVF550M48FB**				
	115 V AC / **NSYCVF550M115FB**				
	230 V AC / **NSYCVF550M230FB**				
					

** not compatible with NSYSPLA150*

Thalassa PHD
Spacial S3HD - SFHD

Outdoor Heavy Duty enclosures

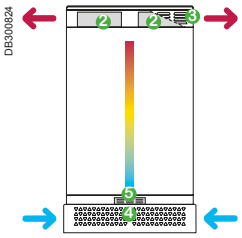
Ventilation architectures



1. *IP55 metal grille*
2. *Fanbox*
3. *Roof ventilated module*
4. *Ventilated plinths*
5. *IP54 grille*

	S-Line				T-Line				
Architecture benefits	■ Most common and competitive architecture ■ Maximum heat dissipation to extract 800 W-1000 W ■ ΔT° of 5°C ■ Easy access to mount-dismount fanbox ■ Air flow in horizontal axis				■ High capacity of extraction calories up to 1500 W ■ Noise level with 1 fan: 55 dB when installed inside the upper ventilation module ■ ΔT° of 5°C ■ Air flow in vertical axis				
	IP55 metal grille		**Fanbox**		**IP55 metal grille**		**Fanbox** (1 filter **NSYCAF190** for each Fanbox)	**Roof ventilation module**	
	Door	**Side**	**Door**	**Side**	**Door**	**Side**			
Polyester outdoor HD enclosure									
References	**Amount to be installed**				**Amount to be installed**				**References**
NSYPHDT553	-	-	-	-	-	-	-	-	-
NSYPHDT553P	-	-	-	-	-	-	-	-	-
NSYPHDT753	-	-	-	-	-	-	-	-	-
NSYPHDT753P	1 to 2	-	1 to 2	-	1 to 2	-	-	-	-
NSYPHDZT774	-	1 to 2	-	1 to 2	-	1 to 2	1 to 2	1	**NSYPCVR74HD**
NSYPHDZT774P	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1	**NSYPCVR74HD**
NSYPHDZT776	-	1 to 2	-	1 to 2	-	1 to 2	1 to 2	1	**NSYPCVR76HD**
NSYPHDZT776P	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1	**NSYPCVR76HD**
NSYPHDZT1054	-	1	-	1	-	1	1	1	**NSYPCVR54HD**
NSYPHDZT1054P	1 to 2	1	1 to 2	1	1 to 2	1	1	1	**NSYPCVR54HD**
NSYPHDZT1074	-	1 to 2	-	1 to 2	-	1 to 2	1 to 2	1	**NSYPCVR74HD**
NSYPHDZT1074P	1 to 4	1 to 2	1 to 4	1 to 2	1 to 4	1 to 2	1 to 2	1	**NSYPCVR74HD**
NSYPHDZT12124	-	1 to 3	-	1 to 3	-	1 to 3	1 to 3	1	**NSYPCVR124HD**
NSYPHDZT12124P	1 to 4	1 to 3	1 to 4	1 to 3	1 to 4	1 to 3	1 to 3	1	**NSYPCVR124HD**
NSYPHDZT12126	-	1 to 3	-	1 to 3	-	1 to 3	1 to 3	1	**NSYPCVR126HD**
NSYPHDZT12126P	1 to 4	1 to 3	1 to 4	1 to 3	1 to 4	1 to 3	1 to 3	1	**NSYPCVR126HD**
NSYPHDZT1254	-	1	-	1	-	1	1	1	**NSYPCVR54HD**
NSYPHDZT1254P	1 to 3	1	1 to 3	1	1 to 3	1	1	1	**NSYPCVR54HD**
NSYPHDZT1274	-	1 to 2	-	1 to 2	-	1 to 2	1 to 2	1	**NSYPCVR74HD**
NSYPHDZT1274P	1 to 4	1 to 2	1 to 4	1 to 2	1 to 4	1 to 2	1 to 2	1	**NSYPCVR74HD**
NSYPHDZT1276	-	1 to 2	-	1 to 2	-	1 to 2	1 to 2	1	**NSYPCVR76HD**
NSYPHDZT1276P	1 to 4	1 to 2	1 to 4	1 to 2	1 to 4	1 to 2	1 to 2	1	**NSYPCVR76HD**
NSYPHDZT15124	-	1 to 3	-	1 to 3	-	1 to 3	1 to 3	1	**NSYPCVR124HD**
NSYPHDZT15124P	1 to 4	1 to 3	1 to 4	1 to 3	1 to 4	1 to 3	1 to 3	1	**NSYPCVR124HD**
NSYPHDZT15126	-	1 to 3	-	1 to 3	-	1 to 3	1 to 3	1	**NSYPCVR126HD**
NSYPHDZT15126P	1 to 4	1 to 3	1 to 4	1 to 3	1 to 4	1 to 3	1 to 3	1	**NSYPCVR126HD**
NSYPHDZT1574	-	1 to 2	-	1 to 2	-	1 to 2	1 to 2	1	**NSYPCVR74HD**
NSYPHDZT1574P	1 to 4	1 to 2	1 to 4	1 to 2	1 to 4	1 to 2	1 to 2	1	**NSYPCVR74HD**
NSYPHDZT1576	-	1 to 2	-	1 to 2	-	1 to 2	1 to 2	1	**NSYPCVR76HD**
NSYPHDZT1576P	1 to 4	1 to 2	1 to 4	1 to 2	1 to 4	1 to 2	1 to 2	1	**NSYPCVR76HD**
NSYPHDZT2074	-	1 to 2	-	1 to 2	-	1 to 2	1 to 2	1	**NSYPCVR74HD**
NSYPHDZT2074P	1 to 4	1 to 2	1 to 4	1 to 2	1 to 4	1 to 2	1 to 2	1	**NSYPCVR74HD**
Steel outdoor HD enclosure									
References	**Amount to be installed**				**Amount to be installed**				**References**
NSYS3HD8630	1 to 2	-	1 to 2	-	1 to 2	-	-	-	-
NSYS3HD8840	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1	**NSYS3CVR84HD**
NSYS3HD10640	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1	1	**NSYS3CVR64HD**
NSYS3HD10840	1 to 4	1 to 2	1 to 4	1 to 2	1 to 4	1 to 2	1 to 2	1	**NSYS3CVR84HD**
NSYSFHD12640	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3	1	1	**NSYSFCVR64HD**
NSYSFHD12660	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3	1	1	**NSYSFCVR66HD**
NSYSFHD12840	1 to 4	1 to 3	1 to 4	1 to 3	1 to 4	1 to 3	1 to 2	1	**NSYSFCVR84HD**
NSYSFHD12860	1 to 4	1 to 3	1 to 4	1 to 3	1 to 4	1 to 3	1 to 2	1	**NSYSFCVR86HD**
NSYSFHD16660	1 to 4	1 to 4	1 to 4	1 to 4	1 to 4	1 to 4	1	1	**NSYSFCVR66HD**
NSYSFHD16840	1 to 4	1 to 4	1 to 4	1 to 3	1 to 4	1 to 3	1 to 2	1	**NSYSFCVR84HD**
NSYSFHD16860	1 to 4	1 to 4	1 to 4	1 to 4	1 to 4	1 to 4	1 to 2	1	**NSYSFCVR86HD**
NSYSFHD20840	1 to 4	1 to 4	1 to 4	1 to 4	1 to 4	1 to 4	1 to 2	1	**NSYSFCVR84HD**
NSYSFHD1212402D	1 to 4	1 to 3	1 to 4	1 to 2	1 to 4	1 to 2	1 to 3	1	**NSYSFCVR124HD**
NSYSFHD1212602D	1 to 4	1 to 3	1 to 4	1 to 3	1 to 4	1 to 2	1 to 3	1	**NSYSFCVR126HD**
NSYSFHD1612402D	1 to 4	1 to 4	1 to 4	1 to 3	1 to 4	1 to 3	1 to 3	1	**NSYSFCVR124HD**
NSYSFHD1612602D	1 to 4	1 to 4	1 to 4	1 to 3	1 to 4	1 to 3	1 to 3	1	**NSYSFCVR126HD**

Outdoor Heavy Duty enclosures
Ventilation architectures





This table helps to configure thermal architectures, but it is highly recommended to use ProClima Software to ensure the right thermal solution according to the selected architecture.

I-Line

- Integrated architecture particularly suitable for public areas
- High capacity of extraction calories up to 1500 W
- Noise level with 1 fan: 55 dB when installed inside the upper ventilation module
- Good extraction flow rate power
- Air flow in vertical axis

IP54 outlet grille (**NSYCAG223LPF** + G3 filter **NSYCAF223T**)		**Ventilated plinths**		**Fanbox** (1 filter **NSYCAF190** for each Fanbox)		**Roof ventilation module**
Amount to be installed		**References**		**Amount to be installed**		**References**
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
1 to 2	1	**NSYZZ274VHD**	-	1 to 2	1	**NSYPCVR74HD**
1 to 2	1	**NSYZZ274VHD**	-	1 to 2	1	**NSYPCVR74HD**
1 to 2	1	**NSYZZ276VHD**	-	1 to 2	1	**NSYPCVR76HD**
1 to 2	1	**NSYZZ276VHD**	-	1 to 2	1	**NSYPCVR76HD**
1	1	**NSYZZ254VHD**	-	1	1	**NSYPCVR54HD**
1	1	**NSYZZ254VHD**	-	1	1	**NSYPCVR54HD**
1 to 2	1	**NSYZZ274VHD**	-	1 to 2	1	**NSYPCVR74HD**
1 to 2	1	**NSYZZ274VHD**	-	1 to 2	1	**NSYPCVR74HD**
1 to 3	1	**NSYZZ2124VHD**	-	1 to 3	1	**NSYPCVR124HD**
1 to 3	1	**NSYZZ2124VHD**	-	1 to 3	1	**NSYPCVR124HD**
1 to 3	1	**NSYZZ2126VHD**	-	1 to 3	1	**NSYPCVR126HD**
1 to 3	1	**NSYZZ2126VHD**	-	1 to 3	1	**NSYPCVR126HD**
1	1	**NSYZZ254VHD**	-	1	1	**NSYPCVR54HD**
1	1	**NSYZZ254VHD**	-	1	1	**NSYPCVR54HD**
1 to 2	1	**NSYZZ274VHD**	-	1 to 2	1	**NSYPCVR74HD**
1 to 2	1	**NSYZZ274VHD**	-	1 to 2	1	**NSYPCVR74HD**
1 to 2	1	**NSYZZ276VHD**	-	1 to 2	1	**NSYPCVR76HD**
1 to 2	1	**NSYZZ276VHD**	-	1 to 2	1	**NSYPCVR76HD**
1 to 3	1	**NSYZZ2124VHD**	-	1 to 3	1	**NSYPCVR124HD**
1 to 3	1	**NSYZZ2124VHD**	-	1 to 3	1	**NSYPCVR124HD**
1 to 3	1	**NSYZZ2126VHD**	-	1 to 3	1	**NSYPCVR126HD**
1 to 3	1	**NSYZZ2126VHD**	-	1 to 3	1	**NSYPCVR126HD**
1 to 2	1	**NSYZZ274VHD**	-	1 to 2	1	**NSYPCVR74HD**
1 to 2	1	**NSYZZ274VHD**	-	1 to 2	1	**NSYPCVR74HD**
1 to 2	1	**NSYZZ276VHD**	-	1 to 2	1	**NSYPCVR76HD**
1 to 2	1	**NSYZZ276VHD**	-	1 to 2	1	**NSYPCVR76HD**
1 to 2	1	**NSYZZ274VHD**	-	1 to 2	1	**NSYPCVR74HD**
1 to 2	1	**NSYZZ274VHD**	-	1 to 2	1	**NSYPCVR74HD**

Amount to be installed		**References**		**Amount to be installed**		**References**
1	1	**NSYSPFVX6200**	**NSYSPSX3200**	-	-	-
1 to 2	1	**NSYSPFVX8200**	**NSYSPLVX4200**	1 to 2	1	**NSYS3CVR84HD**
1	1	**NSYSPFVX6200**	**NSYSPLVX4200**	1	1	**NSYS3CVR64HD**
1	1	**NSYSPFVX8200**	**NSYSPLVX4200**	1 to 2	1	**NSYS3CVR84HD**
1	1	**NSYSPFVX6200**	**NSYSPLVX4200**	1	1	**NSYSFCVR64HD**
1	1	**NSYSPFVX6200**	**NSYSPLVX6200**	1	1	**NSYSFCVR66HD**
1 to 2	1	**NSYSPFVX8200**	**NSYSPLVX4200**	1 to 2	1	**NSYSFCVR84HD**
1 to 2	1	**NSYSPFVX8200**	**NSYSPLVX6200**	1 to 2	1	**NSYSFCVR86HD**
1	1	**NSYSPFVX6200**	**NSYSPLVX6200**	1	1	**NSYSFCVR66HD**
1 to 2	1	**NSYSPFVX8200**	**NSYSPLVX4200**	1 to 2	1	**NSYSFCVR84HD**
1 to 2	1	**NSYSPFVX8200**	**NSYSPLVX6200**	1 to 2	1	**NSYSFCVR86HD**
1 to 2	1	**NSYSPFVX8200**	**NSYSPLVX4200**	1 to 2	1	**NSYSFCVR84HD**
1 to 3	1	**NSYSPFVX12200**	**NSYSPLVX4200**	1 to 3	1	**NSYSFCVR124HD**
1 to 3	1	**NSYSPFVX12200**	**NSYSPLVX6200**	1 to 3	1	**NSYSFCVR126HD**
1 to 3	1	**NSYSPFVX12200**	**NSYSPLVX4200**	1 to 3	1	**NSYSFCVR124HD**
1 to 3	1	**NSYSPFVX12200**	**NSYSPLVX6200**	1 to 3	1	**NSYSFCVR126HD**

Outdoor Heavy Duty enclosures
Certifications

Test description	Standard	Standard title	Certification	Declaration
POLYESTER				
Thalassa PHD				
IP55, IK10, lifting: 500 kg max. (IP65 for wall-mounting)	IEC 62208: 2011	Empty enclosures for low-voltage switchgear and controlgear assemblies - General requirements	●	-
Class II Insulation	IEC 61439-1: 2011	Low-voltage switchgear and controlgear assemblies Part 1: general rules	-	✓
Strength of materials and parts	IEC 61439-5: 2010	Low-voltage switchgear and controlgear assemblies Part 5: assemblies for power distribution in public networks	●	-
Corrosion resistance C4H*	ISO 12.944: 1999	Paints and varnishes-corrosion protection of steel structures by protective paint systems Part 6: laboratory performance testing methods	-	✓
Climatic test, Biological Test, Resistance against chemically and mechanical active substances. Mechanical test, Lifting and stifness test	IEC 61969-3: 2011	Electronic "Mechanical structures for electronic equipment - Outdoor enclosures" Part 3: environmental requirements, tests and safety aspects	●	-
Space for electronics	IEC 60297-3-100: 2009	Mechanical structures for electronic equipment Dimensions of mechanical structures of the 482.6 mm (19 in) series - Part 3-100: basic dimensions of front panels, subracks, chassis, racks and cabinets	-	✓
Dimensional	EIA-310-E	Cabinets, Racks, Panels, and associated equipment	-	✓
Fire resistance	EN 1794-2:2011	Vandalism: fire resistance	-	✓
Posting	Internal test	Door anti-posting internal test	-	✓
Single door: types 1, 2, 3, 3R, 4, 4X, 5, 12 & 13 Double door: types 1, 2, 3, 3R, 5, 12 & 13	UL 508 A: 2007	Standard for Industrial Control Panels	●	-
STEEL				
Spacial SFHD (floor-standing enclosures)				
IP55, IK10, lifting: 1000 kg max.	IEC 62208: 2011	Empty enclosures for low-voltage switchgear and controlgear assemblies - General requirements	●	-
Strength of materials and parts	IEC 61.439-5: 2010	Low-voltage switchgear and controlgear assemblies Part 5: Assemblies for power distribution in public networks	●	-
Corrosion resistance C4H	ISO 12.944: 1999	Paints and varnishes-corrosion protection of steel structures by protective paint systems Part 6: laboratory performance testing methods	●	-
Climatic test, Biological Test, Resistance against chemically and mechanical active substances. Mechanical test, Lifting and stifness test	IEC 61969-3: 2011	Electronic "Mechanical structures for electronic equipment - Outdoor enclosures" Part 3: environmental requirements, tests and safety aspects	●	-
Space for electronics	IEC 60297-3-100: 2009	Mechanical structures for electronic equipment Dimensions of mechanical structures of the 482.6 mm (19 in) series - Part 3-100: basic dimensions of front panels, subracks, chassis, racks and cabinets	-	✓
Dimensional	EIA-310-E	Cabinets, Racks, Panels, and associated equipment	-	✓
Single door: types 1, 3R, 12 Double door: types 1, 3R, 12	UL 508 A: 2007	Standard for Industrial Control Panels	●	-
Spacial S3HD (wall-mounting enclosures)				
IP66, IK10, lifting: 200 kg max.	IEC 62208: 2011	Empty enclosures for low-voltage switchgear and controlgear assemblies - General requirements	●	
Strength of materials and parts	IEC 61.439-5: 2010	Low-voltage switchgear and controlgear assemblies Part 5: Assemblies for power distribution in public networks	●	-
Corrosion resistance C4H	ISO 12.944: 1999	Paints and varnishes-corrosion protection of steel structures by protective paint systems Part 6: laboratory performance testing methods	●	
Climatic test, Biological Test, Resistance against chemically and mechanical active substances. Mechanical test, Lifting and stifness test	IEC 61969-3: 2011	Electronic "Mechanical structures for electronic equipment - Outdoor enclosures" Part 3: environmental requirements, tests and safety aspects	●	
Space for electronics	IEC 60297-3-100: 2009	Mechanical structures for electronic equipment Dimensions of mechanical structures of the 482.6 mm (19 in) series - Part 3-100: basic dimensions of front panels, subracks, chassis, racks and cabinets	-	✓
Dimensional	EIA-310-E	Cabinets, Racks, Panels, and associated equipment	-	✓
Single door: types 1, 2, 3, 3R, 4, 4X. 5, 12 & 13	UL 508 A: 2007	Standard for Industrial Control Panels	●	-

** It affects the painted accessories (ventilated roof, anti-burglary kit). All other metallic parts have special treatment to pass the same test.*

Outdoor Heavy Duty enclosures
Certifications

Test desription	Standard	Standard title	Certification	Declaration
HD ACCESSORIES				
HD THERMAL MANAGEMENT				
Fanbox				
NSYCVF Series are intended for mounting on the flat surface of a Type 12 enclosure	UL 508A CAN/CSA-C22.2 No. 14, CAN/CSA C22.2 No. 94-M91 CAN/CSA C22.2 No. 73	Industrial Control Panels Industrial Control Equipment Special Purpose Enclosures Electrically Equipped Machine Tools	●	-
IP55 HD Metal grille (NSYCAG223LFHD)				
IP55 (in conditions of use)	IEC 60529: 2013	Degrees of protection provided by enclosures (IP Code)	-	✓
Corrosion resistance C4H	ISO 12.944: 1999	Paints and varnishes-corrosion protection of steel structures by protective paint systems - part 6: laboratory performance testing methods	●	-
Anti-vandalism kit for HD metal grille (NSYCAAPVHD)				
Resistance Class 2	ENV 1627:2011	Burglar resistance - Requirements and classification	●	-
Upper ventilation module (PHD / SFHD / S3HD)				
IP55 (in conditions of use)	IEC 60529: 2013	Degrees of protection provided by enclosures (IP Code)	-	✓
Corrosion resistance at level C4H	ISO 12.944: 1999	Paints and varnishes-corrosion protection of steel structures by protective paint systems Part 6: laboratory performance testing methods	●	-
HD POLYESTER ENCLOSURES				
Anti-burglary accessory (NSYBGN•••HD)				
Resistance Class 2	ENV 1627:2011	Burglar resistance - Requirements and classification	●	-
Corrosion resistance at level C4H	ISO 12.944: 1999	Paints and varnishes-corrosion protection of steel structures by protective paint systems Part 6: laboratory performance testing methods	●	-
ZZ plinths (NSYZZ••• & NSYZZ•••VHD)				
ZZ Plinth: IP44 (in conditions of use) Ventilated ZZ Plinth: IP43 (in conditions of use)	IEC 60.529:2013	Degrees of protection provided by enclosures (IP Code)	-	✓
Eyebolts (NSYPLHD)				
Maximum load 500Kg	IEC 62208: 2011	Empty enclosures for low-voltage switchgear and controlgear assemblies - General requirements	-	✓
HD STEEL ENCLOSURES				
Stainless steel plinths (NSYSPFVX••• / NSYSPLVX••• / NSYSPSX••• / NSYSPSX•••)				
Ventilated plinth: IP20 (in conditions of use) Standard plinth: IP30 (in conditions of use)	IEC 60.529:2013	Degrees of protection provided by enclosures (IP Code)	-	✓

Seismic and nuclear enclosures
Introduction

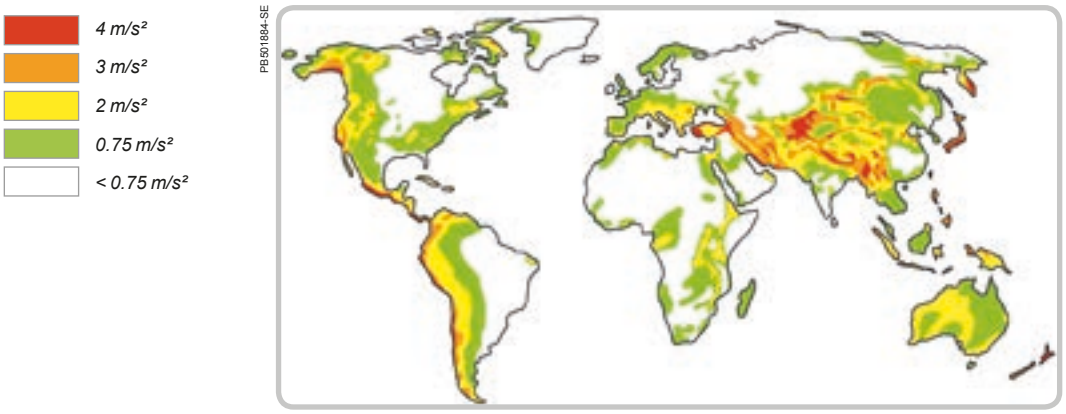
New

SF S3D

The seismic risk

No point of the globe is immune to an earthquake. However, the probability of being subjected to an earthquake of a given intensity varies from one location to another.

The map below, taken from IEC 60721-2-6 (Figure 5), shows the distribution of the seismic risk on the 5 continents.



Spacial enclosures faced with seismic risk

■ **Spacial standard range solutions**

The Spacial standard offers have been qualified for use in areas subject to medium intensity earthquakes (ground acceleration ≤ 3 m/s²).
For details of the seismic resistance of the standard offers, see in each chapter for the following offers:
- S3D, CRN, CRNG et 19" wall mounting enclosures,
- SBM industrial boxes,
- SF enclosures (automation and monitoring/control),
- SFP enclosures (functional system for low-voltage electricity distribution),
- 19" SF enclosures (pivoting rack).

■ **Enclosures for strong earthquakes**

In order to meet the requirements of high-seismic zones (ground acceleration ≥ 4 m/s²), Schneider Electric has developed 3 offers:
- floor-standing enclosures SF 6G and SFP 5G,
- wall-mounting enclosure S3D 6G,
- wall-mounting enclosure S3D 6G K3 meeting the requirements of the nuclear power industry specified by EDF (Electricité de France) and the ASN (Agence de Sûreté Nucléaire).

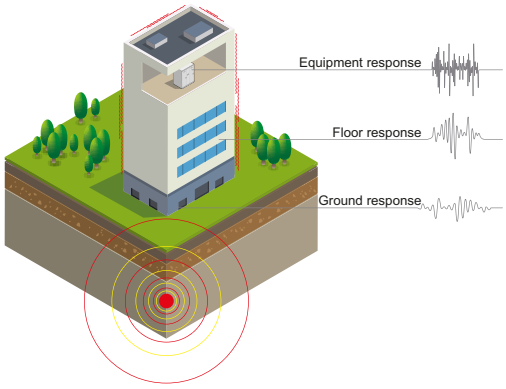
■ **Certifications**

All tests have been performed according to the following technical regulations:
- IEC 60068-3-3 (first edition): International standard. Environmental testing – Part 3 : Guidance – Seismic test methods for equipment
- CRT 91-C-112-00: Seismic resistance of equipment
Generic provisions for bi-axial testing using accelerograms
- IEC 60980: Recommended practices for seismic qualification of electrical equipment of the safety system for nuclear generating stations

Seismic and nuclear enclosures
Introduction

New

SF S3D



Technical information

Seismic standards

There is no single international standard. The standards depend on each country/ zone and are linked to civil engineering standards.

The main ones are:
- International Building Code (I.B.C. Ex UBC)
- IEC 60068-3-3,
- EDF specification CRT 91C11200 (ex-HN-20-E-53)
- GR CORE 63 Telcordia

The Spacial enclosures have been tested according to standards IEC 60068-3-3 and CRT 91-C-112-00.
CRT 91-C-112-00 is one of the most restrictive specifications, and for which it is therefore more difficult to obtain certification.

To define the seismic resistance of equipment, it is necessary to take into account the geological characteristics of the earthquake and the behavior of the building, and compare these with the equipment's seismic performance.

Definitions

Ground acceleration: Ground acceleration resulting from an earthquake.
Note: In practice, ground acceleration can be broken down into horizontal and vertical components.

Floor acceleration : Ground acceleration measured on a particular floor in a building (at the location of an equipment item).
Note: In practice, floor acceleration can be broken down into horizontal and vertical components.

Required response spectrum (RRS): Representation of the amplification of the ground acceleration caused by the structure or equipment according to the wave frequency. Used for determining equipment dimensions and qualifying the equipment.

Test response spectrum (TRS): Representation of the amplification of tested products during tests on vibrating table.

Two parts are defined in the response spectra:
- **Floor part:** On the product zone in contact with the vibrating table there is no amplification of the acceleration. The acceleration value recorded for the spectrum is that measured on the ground.
- **Strong part:** The acceleration value recorded for the spectrum is the maximum amplified acceleration expected at the center of gravity of the equipment.
This is not a measurable quantity but a mathematical representation.

Conclusion: The TRS values are to be compared with the RRS values. If they are greater, the equipment will resist the effects of the earthquake.

1 • Geology

Equivalence between scales characterizing the earthquake

MSK	Richter	IEC 60068-3-3 (ground acc.)
<VIII	< 5,5	2 m/s²
VIII to IX	≥ 5,5 and ≤ 7	3 m/s²
>IX	> 7	5 m/s²

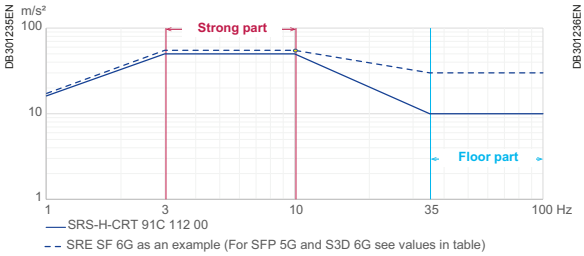
2 • Civil engineering

Example acceleration levels on the floor of a building (RRS)

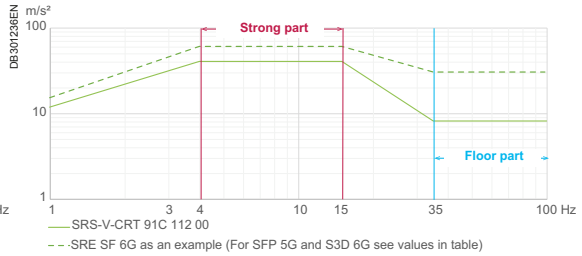
All types of building (IEC 60068-3-3)	EDF specification for nuclear power plant (1)
6 m/s²	
9 m/s²	10 m/s² - 8 m/s²
15 m/s²	20 m/s² - 24 m/² *

** Anticipating the possible rise in the RRS level in a subsequent revision of CRT 91 C 112.*

3 • Equipment performance tested according to CRT 91 C 112 00



Products	Floor part acc	Strong part acc
SFP 5G	20 m/s²	50 m/s²
SF 6G*	30 m/s²	50 m/s²
S3D 6G*	30 m/s²	55 m/s²



Products	Floor part acc	Strong part acc
SFP 5G	20 m/s²	40 m/s²
SF 6G*	30 m/s²	60 m/s²
S3D 6G*	40 m/s²	80 m/s²

Seismic and nuclear enclosures
Introduction

New

SF

> The **Spacial SF 6G** enclosures have been designed to withstand earthquakes corresponding to UBC Zone 4.

PB503481



Spacial SF 6G for seismic risks

PB503482



Panel mounting
- 12 fastening points by M6 screws per panel.

PB503489



Plinths
- Enhanced mechanical strength (monobloc structure).
- Assembled on the enclosure.
- Floor fixing: 10 fastening points by M12 screws.

PB502634-17



PB503481



Security locking system
- Seismic locking system.
- Special connecting rods and handle to prevent any accidental door opening under severe vibration conditions.

PB503483



Multi-purpose corners
- To strengthen the enclosure and respond to seismic risks.
- To strengthen fastening of the side panels and rear panel.
- To fasten the door connecting rods.

Seismic and nuclear enclosures
Characteristics

New

SF

Spacial SF 6G for seismic risks



Characteristics	Spacial SF 6G
	Enclosures designed to be installed in UBC Zone 4. They have been tested with a plain mounting plate and 19" rack. Integrated plinth.
Material	Steel
Supply	**Framework** ■ 1 upper frame with roof ■ 1 lower frame ■ 1 rear panel ■ 4 uprights ■ 8 multi-purpose reinforcement corners ■ 8 cross rails fastened to the framework contributing to the seismic resistance (3 left, 3 right, 2 rear) **Plinth** ■ Monobloc base 4 mm thick, 100 mm high **Door** ■ Plain door with EDF 1600 captive key lock □ 3 fastening points with connecting rods □ Door hinges on right (opposite direction available on request) **Coupling** ■ Possibility to couple SF 6G enclosures with the coupling kits ref. NSYSFBK19 + NSYSFBKR ■ Possibility to couple plinth with the ref. NSYPLK6G
Ingress protection rating	IP55 according to IEC 60529
Mechanical protection rating	IK10 according to IEC 62262
Maximum load	80 kg/m² on plain mounting plate 250 kg on 19" fixed uprights in compliance with the IEC 61587-2 standard
Standards	IEC 62208 (enclosure) - IEC 60068-3-3 (seismic methods to apply for materials)
Certifications	6G certification as per CRT 91-C-112-00 (EDF) - UL 508 types 1, 3R, 12
Dimensions H x W x D (mm)	**References**
2000 x 600 x 400	**NSYSF6G20640**
2000 x 600 x 600	**NSYSF6G20660**
2000 x 600 x 800	**NSYSF6G20680**
2000 x 800 x 400	**NSYSF6G20840**
2000 x 800 x 600	**NSYSF6G20860**
2000 x 800 x 800	**NSYSF6G20880**

Seismic and nuclear enclosures

Characteristics and accessories

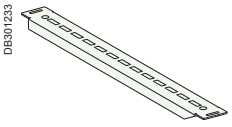
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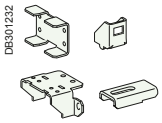
SF

Spacial SF 6G for seismic risks



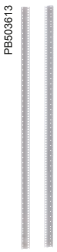


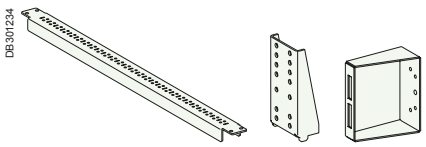






Characteristics	Side panels	Mounting plate	Reinforced fixing kit for mounting plate		Trim cap for SF 6G panels
	Specific panels for Spacial SF 6G. Direct fastening from the outside.	-	-		Trim cap for side and rear panels, external fastening.
Material	Steel	Galvanised steel	Zinc-coated steel	Steel	Plastic
	12 fastening points	Mounting plate to be installed with **NSYSFPB6G** fastening kit + **NSYHLCR●●** cross-rails	-		-
Supply	2 side panels and fasteners	1 mounting plate and sliding shoes	2 cross rails and fixing elements	■ 6 anti-vibration supports ■ 4 mounting brackets ■ 4 supports ■ 2 connectors and fixing elements	50 units
Dimensions H x W x D (mm)	**References**				
2000 x 600 x 400	**NSY6G2SP204**	**NSYMP206**	**NSYHLCR40**	**NSYSFPB6G**	**NSYCSP6G**
2000 x 600 x 600	**NSY6G2SP206**		**NSYHLCR60**		
2000 x 600 x 800	**NSY6G2SP208**		**NSYHLCR80**		
2000 x 800 x 400	**NSY6G2SP204**	**NSYMP208**	**NSYHLCR40**		
2000 x 800 x 600	**NSY6G2SP206**		**NSYHLCR60**		
2000 x 800 x 800	**NSY6G2SP208**		**NSYHLCR80**		





Characteristics	19" fixed uprights	Reinforced fixing kit for 19" fixed uprights
	Uprights designed to be assembled on enclosures 800 mm wide and 800 mm deep.	-
Material	Zinc-coated steel	Steel
Fixing	To fasten the 19" uprights, it is necessary to use the fixing kit **NSYRCK19KIT6G**	-
Supply	2 uprights and fasteners	■ 4 cross rails ■ 8 fastening brackets ■ 4 reinforcements ■ Fixing elements
Dimensions H x W x D (mm)	**References**	
2000 x 800 x 800	**NSYRCK42** (1)	**NSYRCK19KIT6G**

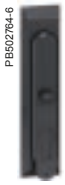
(1) Set of 2 uprights. For a 19" seismic configuration, 4 uprights must be used.

Seismic and nuclear enclosures
Characteristics and accessories

New

SF

Spacial SF 6G for seismic risks



Characteristics	Optional locks for cubicle
	With captive key.
Material	Polyamide handle, metal connecting rods and cam
Supply	3-point lock with 1 lock button and 1 cremone bolt
References	
EDF 900	**NSYAEDLEDF9K33**
EDF 1300	**NSYAEDLEDF13K33**
EDF 1400	**NSYAEDLEDF14K33**
1242E	**NSYAEDL1242K33**
405E	**NSYAEDL405K33**
455E	**NSYAEDL455K33**

Local seismic standards: conformity with acceleration severity levels

Standards	Specifications
EDF book of technical rules CRT 91C11200	"Large equipment" MRI RRS: ■ Horizontal: □ Floor acceleration = 2 g □ Amplified max. acceleration at center of gravity = 5 g ■ Vertical: □ Floor acceleration = 2.4 g □ Amplified max. acceleration at center of gravity = 6 g
EAK 2000 Greece	Seismic risk zone: IV Importance category: S4
ENDESA 1986	All seismic categories Ground acceleration = 0.5 g
RPA 99 2003 Algeria	All types of soil class Ground acceleration factor A = 0.36 Behavior factor R = 2 Quality factor Q = 1.35
Core GR 63	Zone 4
Turkish Seismic Code 2009	All types of site class Importance factor = 1.5 Ground acceleration factor: A0 = 0.4
GOST 17516.1-90 Russia	Civil market: MSK intensity 9, level 3. Nuclear market: MSK intensity 9, level 2.
IEEE 693-2005	High level
Eurocode 8	All soil types agR = 3 m/s² Importance factor = 1.3

Seismic and nuclear enclosures
Customized offer

New

SF

Spacial SF 6G for seismic risks

1 > Special dimensions available on demand

Busbar compartment enclosure



Enclosure equipped with plain mounting plate



Enclosure equipped with 19" fixed rack



Seismic and nuclear enclosures
Customized offer

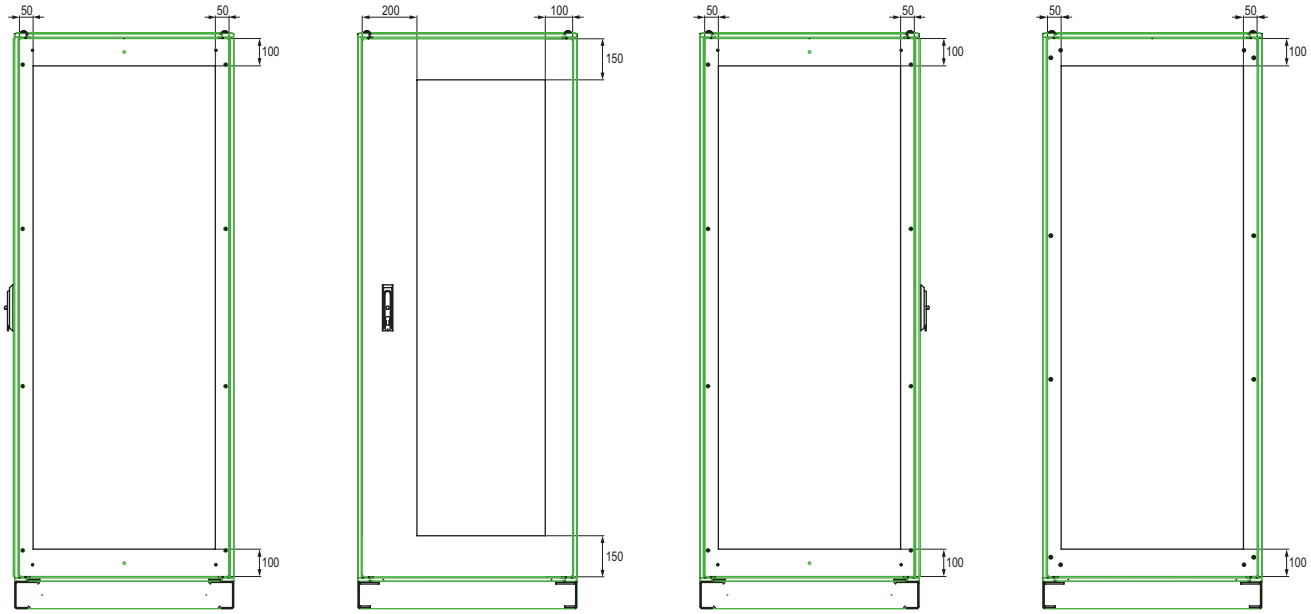
New

SF

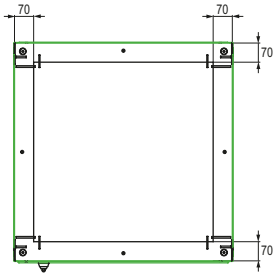
Spacial SF 6G for seismic risks

2 > Cut-outs

Customization areas guaranteeing 6G resistance



Top view



Seismic and nuclear enclosures
Introduction

SF

> The **Spacial SFP 5G** enclosures (functional system for low-voltage electricity distribution) have been designed to withstand earthquakes corresponding to UBC Zone 4.

PB502602-47



Spacial SFP 5G for seismic risks

PB502602-70



Reinforced crosspieces
■ Two reinforced crosspieces ensure the structure's mechanical strength.

PB502633-32



Panel mounting
■ Mounting systems prevent loosening of the screws.

PB502634-17



PB502934-21



Security locking system
■ Seismic locking system.
■ Special bars and handle to prevent any accidental door opening under severe vibration conditions.

PB502636-40



Reinforced plinths
■ New reinforced monobloc plinths.

PB503495



Tested with Schneider Electric devices

Seismic and nuclear enclosures
Characteristics

SF

Spacial SFP 5G for seismic risks



Characteristics		Spacial SFP 5G			
		Enclosures designed to be installed in UBC Zone 4. Monobloc base to enhance the structure's mechanical strength. 2 configurations with devices have been tested: 1600 A and 3200 A.			
Material		Steel			
Supply		**Framework** ■ Reinforcing cross for improved structural strength ■ 4 uprights fitted with Rivkle nuts			
Ingress protection rating		IP55 according to IEC 60529			
Mechanical protection rating		IK10 according to IEC 60262			
Maximum load		350 kg for configuration 1800 A 450 kg for configuration 3200 A			
Standards		IEC 62208 (enclosure) - IEC 60068 (seismic methods to apply for materials)			
Certifications		6G certification as per CRT 91-C-112-00 (EDF) - UL 508 types 1, 3R, 12			
Cubicle dimensions	**Configuration**	**References**			
H x W x D (mm)	**(A)**	**Enclosure with plain door**	**Compartment for busbars with plain door**	**Side panels**	**100 mm plinth**
2000 x 700 x 500	1600	**NSYSFP5G20750**	-	**NSY5G2SP205**	**NSYS5GPC75**
2000 x 300 x 500	1600	-	**NSYSF5G20350**	**NSY5G2SP205**	**NSYS5GPC35**
2000 x 700 x 800	3200	**NSYSFP5G20780**	-	**NSY5G2SP208**	**NSYS5GPC78**
2000 x 300 x 800	3200	-	**NSYSF5G20380**	**NSY5G2SP208**	**NSYS5GPC38**

NB: *- The width (300 mm) of the Spacial SFP 5G cubicle for the busbar duct is not compatible with the Spacial SF 5G cubicle.*
- The customer must ensure good cubicle/base connection.

Seismic and nuclear enclosures
Characteristics

SF

Spacial SFP 5G for seismic risks

Local seismic standards: conformity with acceleration severity levels

Standards or specifications	Specifications
EDF book of technical rules CRT 91C11200	Required response spectrum: ■ Horizontal: □ Floor acceleration = 1 g □ Amplified max. acceleration at center of gravity = 5 g ■ Vertical: □ Floor acceleration = 0,8 g □ Amplified max. acceleration at center of gravity = 4 g
EAK 2000 Greece	Seismic risk zone: IV Importance category: S4
ENDESA 1986	All seismic categories Ground acceleration = 0.5 g
RPA 99 2003 Algeria	All types of soil class Ground acceleration factor A = 0.36 Behavior factor R = 2 Quality factor Q = 1.35
Core GR 63	Zone 4
Turkish Seismic Code 2009	All types of site class Importance factor = 1.5 Ground acceleration factor: A0 = 0.4
GOST 17516.1-90 Russia	Civil market: MSK intensity 9, level 2. Nuclear market: MSK intensity 9, level0.
IEEE 693-2005	High level
Eurocode 8	All soil types agR = 3 m/s² Importance factor = 1.3

Seismic and nuclear enclosures
Accessories

SF

SF enclosures for seismic risks
Compatibility of accessories

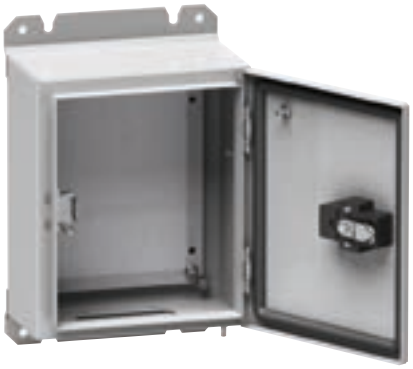
Accessories		SF 6G compatibility	SFP 5G compatibility	Comments
Trade references impacted	Description		(Prisma system)	
NSYSDT•	Folding mounting shelf	Please contact us	Compatible	Depends on size
NSYSDP•M	Metal document holder	Please contact us	Compatible	Depends on size
NSYDPA••	Plastic document holder	Compatible	Compatible	-
NSYMP•••	Mounting plate	Compatible	-	Position 200 mm mini from the rear panel
NSYSUCR••	Universal cross rail	Compatible	-	-
NSYSQCR••	Quick cross rail	Compatible	-	-
NSYSICR••	Integrated cross rail	Compatible	-	-
NSYHLCR••	Cross rail for heavy loads	Compatible	-	-
NSYSLCR••	Light cross rail	Compatible	-	-
NSYFXT••••	Fixed Trays	Compatible	-	-
NSYSPMP•	Partial plain mounting plate	Compatible	-	-
NSYSTMP••	Telequick mounting plate	Compatible	-	-
NSYSDCR••	Door cable-guide cross-rail	Compatible	Compatible	Select the smaller-sized cross rail

Seismic and nuclear enclosures
Introduction

S3D

> Spacial S3D 6G cubicles are designed to withstand earthquakes up to UBC zone 4.

PB502933-56



PB502934-58



PB502761SE-152



Strength
- ■ Panel thickness:
- □ Casing + door: 20/10 mm;
- □ Entry flange: 15/10 mm.

PB502634-17



PB502934-21



Security locking system
- ■ EDF 1600 security locking system with captive key.

PB502766-51



Reinforced mounting plate
- ■ Mounting plate reinforcement.
- ■ Increased number of attachment points.

PB502761SE-56

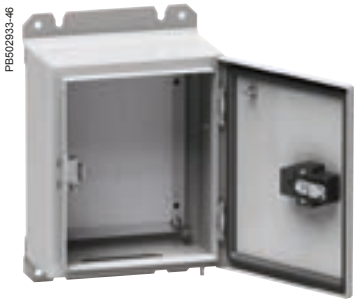


Wall mounting
- ■ Reinforced bracket for wall mounting.

Seismic and nuclear enclosures
Characteristics, accessories

S3D

Spacial S3D 6G solutions for seismic risks


PB502933-46

Characteristics	Spacial S3D 6G
	Seismic applications up to UBC zone 4.
Material	Steel
Supply	**Body** ■ Monobloc casing (cross structure). Gutter-shaped front profile. Flat back ■ M6 x 16 earthing screws and earth strap for equipotential connection between the cubicle door and casing ■ Entry flange ■ Maximum load: 10 kg **Door** ■ Plain door with EDF 1600 captive key lock □ H < 600: 1 fastening point □ H ≥ 600: 3 fastening points ■ Non-reversible door (for reversibility, please contact us) ■ M6 x 16 earthing screws and earth strap for equipotential connection between the cubicle door and casing ■ 120° door opening ■ Maximum load: 10 kg **Mounting plate** ■ Mounting plate galvanized before mounting ■ Maximum load: 80 kg/m² Two wall mounting brackets
Ingress protection rating	IP65 according to IEC 60529
Mechanical protection rating	IK10 according to IEC 62262
Standards	IEC 62208 (enclosure) - IEC 60068-3-3 (seismic methods to apply for materials)
Certifications	6G certification as per CRT 91-C-112-00 (EDF)
Dimensions H x W x D (mm)	**References**
300 x 250 x 150	**NSYS3D6G32515P**
400 x 300 x 200	**NSYS3D6G4320P**
600 x 500 x 250	**NSYS3D6G6525P**
700 x 500 x 250	**NSYS3D6G7525P**
800 x 600 x 300	**NSYS3D6G8630P**
1200 x 800 x 400	**NSYS3D6G12840P**

NB: *The customer must ensure good cubicle/base connection.*


PB502763-10


PB502764-6


PB502765

Characteristics	Locks for cubicle		Padlocking lug
	≤ H 600	**> H 600**	
	With captive key.	With captive key.	Securing of cubicle access.
Material	Zamak lock and metal cam	Polyamide handle, metal connecting rods and cam	White galvanized steel
Supply	1- or 3-point lock with 1 lock button and 1 cremone bolt	3-point lock with 1 lock button and 1 cremone bolt	-
References			
-	-	-	**NSYAEDLPADS3DK3**
EDF 900	**NSYAEDLEDF9K31**	**NSYAEDLEDF9K33**	-
EDF 1300	**NSYAEDLEDF13K31**	**NSYAEDLEDF13K33**	-
EDF 1400	**NSYAEDLEDF14K31**	**NSYAEDLEDF14K33**	-
1242E	**NSYAEDL1242K31**	**NSYAEDL1242K33**	-
405E	**NSYAEDL405K31**	**NSYAEDL405K33**	-
455E	**NSYAEDL455K31**	**NSYAEDL455K33**	-

Seismic and nuclear enclosures
Characteristics

S3D

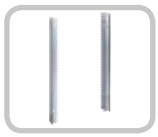
Local seismic standards: conformity with acceleration severity levels

Standards	Specifications
EDF book of technical rules CRT 91C11200	"Large equipment" MRI RRS: ■ Horizontal: □ Floor acceleration = 2 g □ Amplified max. acceleration at center of gravity = 5 g ■ Vertical: □ Floor acceleration = 2.4 g □ Amplified max. acceleration at center of gravity = 6 g
EAK 2000 Greece	Seismic risk zone: IV Importance category: S4
ENDESA 1986	All seismic categories Ground acceleration = 0.5 g
RPA 99 2003 Algeria	All types of soil class Ground acceleration factor A = 0.36 Behavior factor R = 2 Quality factor Q = 1.35
Core GR 63	Zone 4
Turkish Seismic Code 2009	All types of site class Importance factor = 1.5 Ground acceleration factor: A0 = 0.4
GOST 17516.1-90 Russia	Civil market: MSK intensity 9, level 3. Nuclear market: MSK intensity 9, level 2.
IEEE 693-2005	High level
Eurocode 8	All soil types agR = 3 m/s² Importance factor = 1.3

Seismic and nuclear enclosures
Accessories

S3D

Table of Compatibility of accessories in 6G seismic S3D cubicles

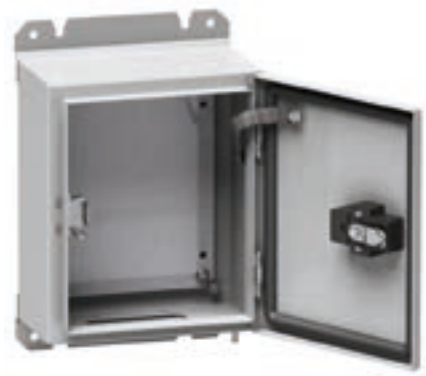
Accessories			Compatibility	Comments
	Trade references impacted	Description		
PB500322-11 	**NSYVDM●●●●**	19" rack	Limited	Conditions: Drilling by customization department to be provided for
ISPA011_010-43 	**NSYINLCRN**	Door switch	Limited	Conditions: Drilling by customization department to be provided for
PB500083-29 	**NSYDPA●●**	Diagram holder	Yes	-
PB500338-24 	**NSYAELYTCRG8**	Lifting rings	Limited	Conditions: Drilling by customization department to be provided for

Comment: *None of the accessories are certified 6G.*

Seismic and nuclear enclosures
Introduction

> The **Spacial S3D 6G K3** cubicle meets K3 requirements in accordance with RCCE 2012.

PB502761SE-56



PB502767-58



PB502761SE-152



Strength
- Panel thickness:
  - Casing + door: 20/10 mm;
  - Entry flange: 15/10 mm.

PB502773-32



Decontaminatable smooth paint, PID 100 series
- In compliance with CCTR 91.C.031.06 Two coats of paint (minimum thickness: 60 µ).
- Epoxy-polyester powder, PID 100 series.
- PIA-PIC 100 on request.

PB502634-17



PB502763-8



Security locking system
- EDF 1600 security locking system with captive key.

PB502766-41



Reinforced mounting plate
- Mounting plate reinforcement.
- Increased number of attachment points.

PB502770-36



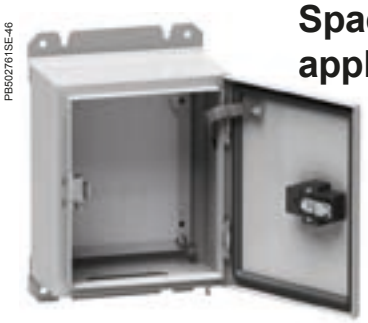
Earth continuity
Earth continuity between the interior and exterior of the cubicle is provided by 2 opposite welded studs (external earth screw principle).

PB502761SE-56



Wall mounting
- Reinforced bracket for wall mounting.

Seismic and nuclear enclosures
Characteristics, accessories


PB502761SE-46

Spacial S3D 6G K3 solutions for nuclear applications

Characteristics	Spacial S3D 6G K3
	Seismic application for nuclear power station.
Material	Steel
Supply	**Body** ■ Monobloc casing (cross structure). Gutter-shaped front profile. Flat back ■ M6 x 16 earthing screws and earth strap for equipotential connection between the cubicle door and casing ■ Entry flange ■ Maximum load: 10 kg **Door** ■ Plain door with EDF 1600 captive key lock □ H < 600: 1 fastening point □ H ≥ 600: 3 fastening points ■ Non-reversible door (for reversibility, please contact us) ■ M6 x 16 earthing screws and earth strap for equipotential connection between the cubicle door and casing ■ 120° door opening ■ Maximum load: 10 kg **Mounting plate** ■ Mounting plate galvanized before mounting ■ Maximum load: 80 kg/m² Two wall mounting brackets
Ingress protection rating	IP65 according to IEC 60529
Mechanical protection rating	IK10 according to IEC 62262
Standards	IEC 62208 - IEC 60068-3-3
Certifications	■ 6G certification as per CRT 91-C-112-00 (EDF) ■ Meets K3 requirements in accordance with RCCE 2012 ■ EDF reference documents: □ CCTR paint and FNP file; □ RCC-E: Electrical equipment construction code; □ Packaging technical specification; □ "PMUC" (products and materials used in nuclear generating stations)
Dimensions H x W x D (mm)	**References**
300 x 250 x 150	**NSYS3D32515PK3**
400 x 300 x 200	**NSYS3D4320PK3**
600 x 500 x 250	**NSYS3D6525PK3**
700 x 500 x 250	**NSYS3D7525PK3**
800 x 600 x 300	**NSYS3D8630PK3**
1200 x 800 x 400	**NSYS3D12840PK3**


PB502763-10


PB502764-6


PB502765

Characteristics	Locks for cubicle		Padlocking lug
	≤ H 600	**> H 600**	
	With captive key.	With captive key.	Securing of cubicle access.
Material	Zamak lock and metal cam	Polyamide handle, metal connecting rods and cam	White galvanized steel
Supply	1- or 3-point lock with 1 lock button and 1 cremone bolt	3-point lock with 1 lock button and 1 cremone bolt	-
References			
-	-	-	**NSYAEDLPADS3DK3**
EDF 900	**NSYAEDLEDF9K31**	**NSYAEDLEDF9K33**	-
EDF 1300	**NSYAEDLEDF13K31**	**NSYAEDLEDF13K33**	-
EDF 1400	**NSYAEDLEDF14K31**	**NSYAEDLEDF14K33**	-
1242E	**NSYAEDL1242K31**	**NSYAEDL1242K33**	-
405E	**NSYAEDL405K31**	**NSYAEDL405K33**	-
455E	**NSYAEDL455K31**	**NSYAEDL455K33**	-

Seismic and nuclear enclosures
Accessories

Table of Compatibility of accessories in S3D 6G K3 cubicles

Accessories			Compatibility	Comments
	Trade references impacted	Description		
PB500322-11 	**NSYVDM••••**	19" rack	Limited	Conditions: Drilling by customization department to be provided for
ISPA011_010-43 	**NSYINLCRN**	Door switch	Limited	Conditions: Drilling by customization department to be provided for
PB500083-29 	**NSYDPA••**	Diagram holder	Yes	-
PB500338-24 	**NSYAELYTCRG8**	Lifting rings	Limited	Conditions: Drilling by customization department to be provided for

Comment: *None of the accessories are certified 6G K3.*

Seismic and nuclear enclosures
Customized offer

1 > Special dimensions

We meet the K3 requirements as per RCCE 2012 for the special dimensions mentioned below. These dimensions appear in the Reference File.

Height \ Width	250	300	400	500	600	800
1200					200/250/300/400	200/250/300
1000					200/250/300/400	200/250/300/400
800			200/250/300	200/250/300	200/250/400	200/250/300/400
700			200/250/300	200/300	200/250/300/400	
600			200/250/300	200/300	200/250/300/400	
500	150/200	150/200/250	200/250/300	200/250/300		
400	150/200	150/250				
300	200	150/200/250				

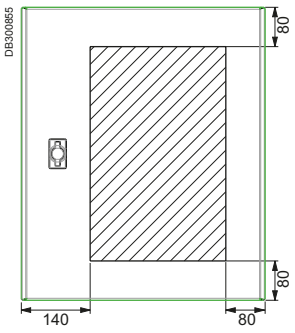
Available depths

2 > Cut-outs

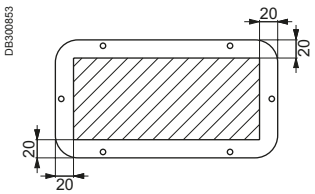
We meet the K3 requirements as per RCCE 2012 for the cut-outs mentioned below. These cut-outs appear in the Reference File.

Customization areas ensuring K3 certification

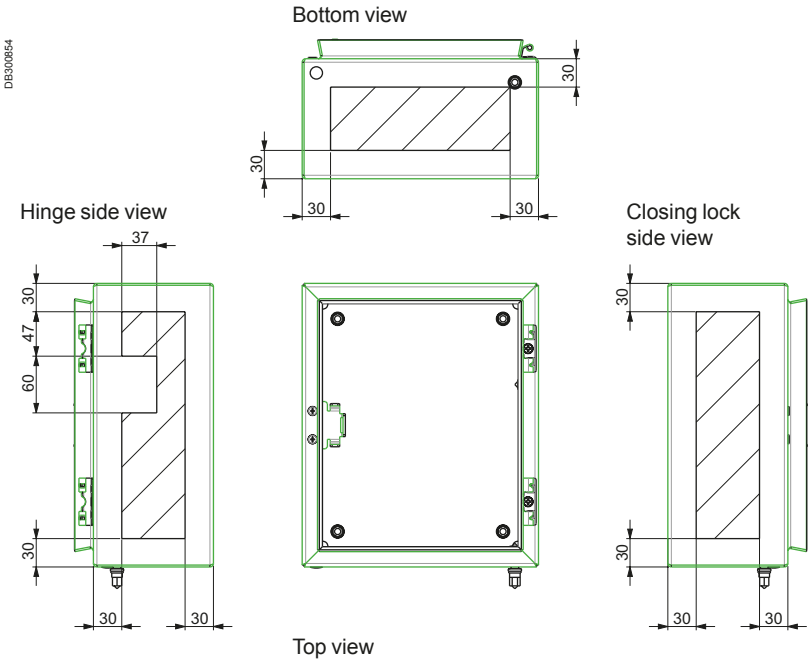
Door



Entry flange



Casing



Depth	A
150	65
200	82
250	98
300	115
400	148

Seismic and nuclear enclosures
Customized offer

3 > Paints

Referencing of the following paints in the FNP (national paint file):

AFNOR / RAL	Colors of PIA-PID 100 series
AFNOR	1550
	1570
	2550
	2570
RAL	1003
	5005
	5024
	7036

AFNOR / RAL	Colors of PIC 100 series
AFNOR	1550
	1570
	2550
	2570
RAL	1003
	5005
	5024
	7036

Others colors available: consult us.

4 > Packaging

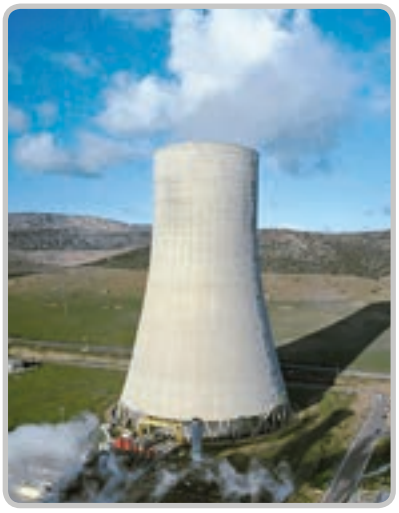
We can produce a special corrosion protection packaging (Gardac type).

PB502823-50



Seismic and nuclear enclosures

A demanding nuclear market



Our range of **Spacial S3D nuclear** cubicles meets the K3 requirements of RCCE 2012. The Schneider Electric cubicle production plant has established processes to ensure K3 certification.

> Establishment of a line architecture adapted to the requirements mentioned in RCCE 2012, implying:
- Hold points;
- Check points;
- Control of "AIP" activities that are important for protection

> Manufacturing completion report with:

- Declaration of conformity.
- Monitoring document.
- Report and test report.

> Establishment of a Particular Quality Assurance Plan (PQAP)

> Reference documents for the nuclear industry: RCC-E, CCTR, FNP, packaging technical specification, "PMUC" (products and materials used in nuclear generating stations), SGAQ-2013-03, Arrêté INB 2012

Seismic and nuclear enclosures

A demanding nuclear market

Nuclear safety has 3 objectives

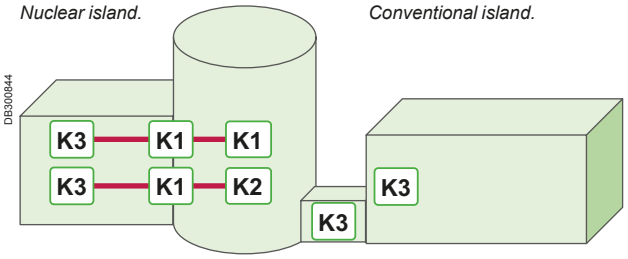
- Control reactivity
- Cool the fuel
- Confine radioactive products

Technical choices and safety rules

The technical choices and safety rules are stipulated by the operator with full responsibility relative to the French nuclear safety authority (ASN) (representing the state) depending on the location in the installation and whether or not they form part of the safety circuits. The products undergo tests to ensure their operation in accidental conditions.



A safety circuit consists of several equipment items.
Their certification depends on their location.
Equipment interfacing between the core and the other buildings is always K1 (risk of radioactive leakage).



Certifications necessary to work in the nuclear industry

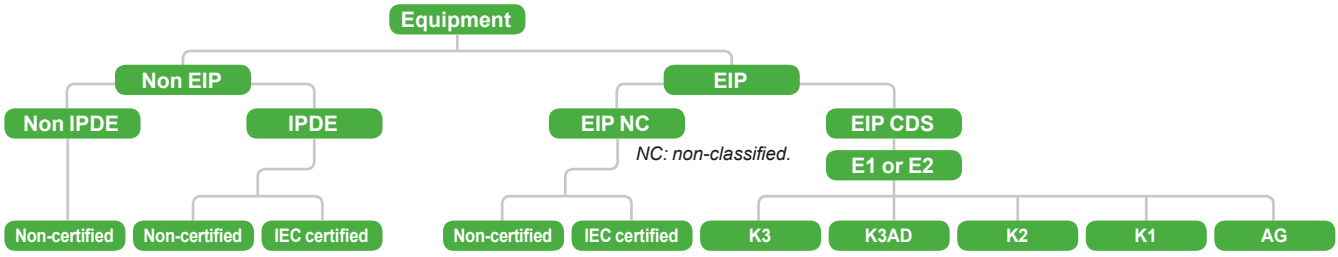
2 certifications are necessary to work in the nuclear industry

1• Product and equipment certifications imply demanding performances validated by technical documents and by tests. In the event of a change in the product, it must be **explained and justified** that the initial certification is maintained.

2• Certifications of industrial organizations and services related to products and equipment.

The products equipping French nuclear facilities in this catalogue comply with the RCC-E 2012 standard.

Terminology of equipment classifications used in nuclear power stations



EIP: Equipment Important for Protection.
IPDE: Important for operating availability.
CDS: safety-classified.
Schneider is concerned only by E1 (elec. classification).

Tests corresponding to specific classifications for EIP equipment

- K3 > ref. tests + functional operating limits + ageing + earthquake
- K3AD > K3 + environmental resistance (irradiation, heat, spraying)
- K2 > K3 + resistance to ageing irradiation (250 Kgy)
- K1 > K2 + resistance to accidental irradiation (600 Kgy) + ADR
- AG > K1 reinforced only for EPR power stations

Electronic application
Introduction

> Spacial VDM

PB500403-29



PB500203-22



PB500203-82



Simplified installation
Pre-installed fixed or swing rack; earth connection placed between the door and the body; the enclosure is ready to use; the cardboard packaging can be reused after cabling.

> Spacial CRN

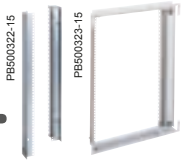
PB500456-17

PB500109-24

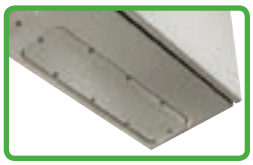


PB500322-15

PB500323-15



PB500305-32



Practical
Cable-gland plates at top and bottom:
- on the rear part (2-body enclosure),
- on the body (1-body enclosure).

> Spacial SF

PB500209-33



PB500209-83



Suitable metal enclosure
Enclosure prepared for the installation of standard 19" racks in professional telecommunication, voice, data and electronic facilities, by means of 19" fixed and swing racks, see page 413.

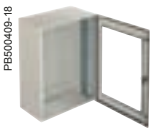
This range can be configured according to your needs

4 differents services available:

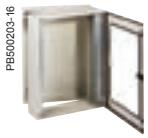
- Assemble to order
- Mounting of standard accessories
- Painting
- Machining

See page 488 for details or consult our web site www.se.com

Electronic application
Characteristics





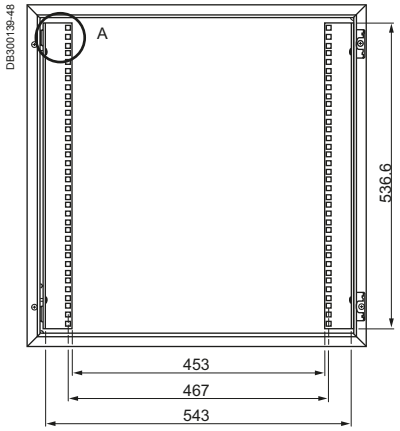


Characteristics				Spacial VDM 19"		
				1-body		2-bodies
				■ Single-piece body, folded and welded. Front rail with double sheet thickness, gutter-shaped. ■ Perforated rails on the door, with drill holes of Ø 4.2 mm in steps of 25 mm. ■ Transparent door, Securit® glass, easily removable and reversible, with 20-mm return with double thickness granting excellent rigidity, opening to 120°, equipped with 2 or 3 invisible hinges. Three closure points for heights of more than 600 mm. ■ Polyurethane gasket. ■ 6 mm² earth connection placed between the door and the body of the enclosure.		
Material				Steel		
Finish				Structured finish, epoxi-polyester powder		
Colour				RAL 7035 grey		
Ingress protection rating				IP66 according to IEC 60529		
Mechanical protection rating				IK08 according to IEC 62262		
Maximum load				3 kg per unit		2 kg per unit
Other characteristics				■ Enclosure in 2 pieces: body + door ■ Cable-gland plate at the bottom of the enclosure ■ Fixed rack depth-adjustable in steps of 25 mm using the step slides		**Rear** ■ Depth: 150 mm ■ Internal attachment point for fixing various supports ■ Hinges and locking system with the body ■ Cable-gland plate at the top and bottom on the rear part **Body** ■ Usable depth of 183 or 283 mm ■ Two 19" uprights made from treated steel, installed 65 mm back from the front panel ■ Intermediate body installed on the rear with 120° hinge
Supply				Wall-mounting enclosure supplied with 3-mm double-bar lock as standard		Wall-mounting enclosure supplied with 3-mm double-bar lock as standard
Height (mm)	**Width (mm)**	**Depth (mm)**	**Number of U**	**Fixed rack**	**Swing rack**	**Fixed rack**
300	600	380	5	-	-	**NSYVD2M5U4**
		400	4	-	**NSYVDM4U4P**	-
		400	5	**NSYVDM5U4F**	-	-
		480	5	-	-	**NSYVD2M5U5**
		500	5	-	-	-
400	600	380	8	-	-	**NSYVD2M8U4**
		400	7	-	**NSYVDM7U4P**	-
		400	8	**NSYVDM8U4F**	-	-
		480	8	-	-	**NSYVD2M8U5**
		500	8	-	-	-
500	600	380	10	-	-	**NSYVD2M10U4**
		400	9	-	**NSYVDM9U4P**	-
		400	10	**NSYVDM10U4F**	-	-
		480	10	-	-	**NSYVD2M10U5**
		500	10	-	-	-
700	600	380	14	-	-	**NSYVD2M14U4**
		400	13	-	**NSYVDM13U4P**	-
		400	14	**NSYVDM14U4F**	-	-
		480	14	-	-	**NSYVD2M14U5**
		500	14	-	-	-
800	600	380	17	-	-	**NSYVD2M17U4**
		400	16	-	**NSYVDM16U4P**	-
		400	17	**NSYVDM17U4F**	-	-
		480	17	-	-	**NSYVD2M17U5**
		500	17	-	-	-

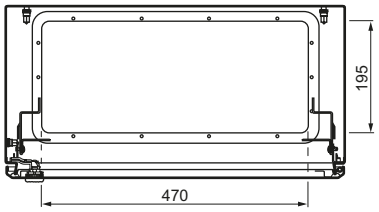
Electronic application
Dimensions

1-body 19" enclosure

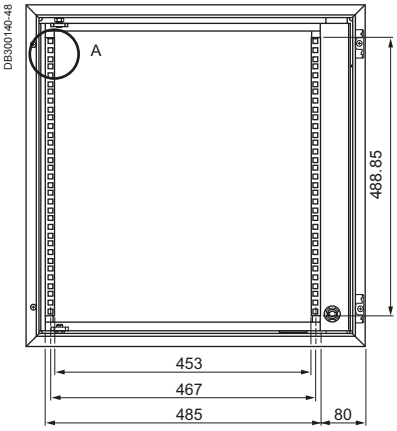
Fixed chassis

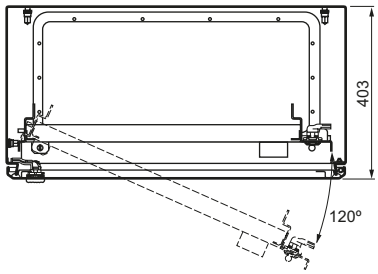


Top view

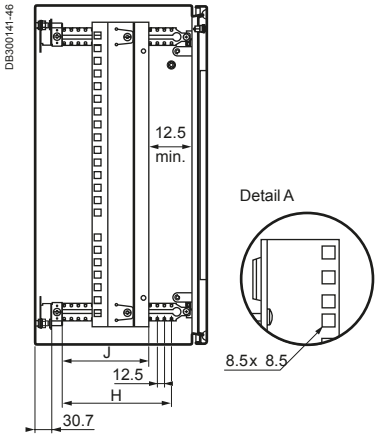


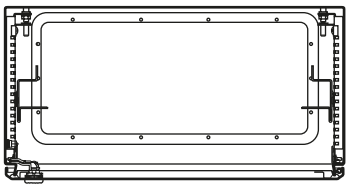
Swing chassis





Fixed chassis mounted on the step slides





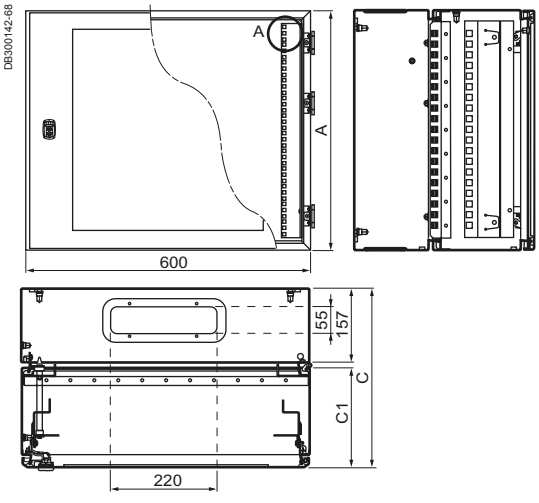
Cable-gland plate 495 x 220 mm.

H (bars) (mm)	J (travel) (mm)
200	100
250	150
300	200
400	300

2-body 19" enclosure

A (mm)	C (mm)	C1 (mm)	References
300	373	183	**NSYVD2M5U4**
400	373	183	**NSYVD2M5U5**
500	373	183	**NSYVD2M8U4**
700	373	183	**NSYVD2M8U5**
800	373	183	**NSYVD2M10U4**
300	473	283	**NSYVD2M10U5**
400	473	283	**NSYVD2M14U4**
500	473	283	**NSYVD2M14U5**
700	473	283	**NSYVD2M17U4**
800	473	283	**NSYVD2M17U5**

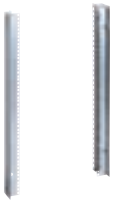
Cable-gland plate S3D type dimensions 245 x 80 mm.



Electronic applications
Characteristics


PB500456-22


PB500109-30


PB500322


PB500323

Characteristics	Spacial CRN					
	Empty enclosure		Fixed rack (1)		Swing rack (1)	
	39 dimensions for this metal monobloc. Back piece joined to the sides using a special profile forming a protected sealed area.		19" fixed chassis comprising 2 19" uprights with fixing. ■ Thickness: 20/10 mm. ■ Adjustable in depth by fixing on the step slides in accessories.		19" swing chassis opening to 120° with closure by 3 mm double bar insert.	
Material	Steel		Galvanized steel		Steel	
Finish	Both externally and internally painted with texturised epoxy-polyester resin		-		Epoxy-polyester powder	
Colour	RAL 7035 grey		-		RAL 7035 grey	
Ingress protection rating	■ IP66 for one-door enclosures ■ IP55 for two-door enclosures according to IEC 60529		-		-	
Mechanical protection rating	IK10 according to IEC 62262		-			
Maximum load	50 kg/m²		3 kg per unit		3 kg per unit	
Installation	■ Given their strength, metal enclosures are particularly well suited to indoor areas where they may experience impacts ■ Outdoor installation: compliant with IEC 62208 regarding type tests specified in §9.12 (resistance to ultra-violet (UV) radiation) and §9.13 (resistance to corrosion). It is always advisable to install a canopy to avoid water stagnation on the upper part of the enclosure		-		-	
Supply	Delivered with a reusable packaging and technical instructions		-		-	

Height (mm)	Width (mm)	Depth (mm)	Glazed door	Plain door	Number of U		Number of U	
400	600	250	**NSYCRN46250T**	**NSYCRN46250**	8	**NSYVDM8UF**	7	**NSYVDM7UP**
		300	**NSYCRN46300T**	**NSYCRN46300**	8	**NSYVDM8UF**	7	**NSYVDM7UP**
600	600	200	**NSYCRN66200T**	**NSYCRN66200**	12	**NSYVDM12UF**	11	**NSYVDM11UP**
		250	**NSYCRN66250T**	**NSYCRN66250**	12	**NSYVDM12UF**	11	**NSYVDM11UP**
		300	**NSYCRN66300T**	**NSYCRN66300**	12	**NSYVDM12UF**	11	**NSYVDM11UP**
800	600	200	**NSYCRN86200T**	**NSYCRN86200**	17	**NSYVDM17UF**	16	**NSYVDM16UP**
		250	**NSYCRN86250T**	**NSYCRN86250**	17	**NSYVDM17UF**	16	**NSYVDM16UP**
		300	**NSYCRN86300T**	**NSYCRN86300**	17	**NSYVDM17UF**	16	**NSYVDM16UP**
		400	**NSYCRNG86400T**	**NSYCRNG86400**	17	**NSYVDM17UF**	16	**NSYVDM16UP**
1000	600	250	**NSYCRN106250T**	**NSYCRN106250**	21	**NSYVDM21UF**	20	**NSYVDM20UP**
		300	**NSYCRN106300T**	**NSYCRN106300**	21	**NSYVDM21UF**	20	**NSYVDM20UP**
		400	**NSYCRNG106400T**	**NSYCRNG106400**	21	**NSYVDM21UF**	20	**NSYVDM20UP**
	800	250	**NSYCRN108250T**	**NSYCRN108250**	-	-	20	**NSYVDM20U8P**
		300	**NSYCRN108300T**	**NSYCRN108300**	-	-	20	**NSYVDM20U8P**
		400	**NSYCRNG108400T**	**NSYCRNG108400**	-	-	20	**NSYVDM20U8P**
1200	800	300	**NSYCRNG128300T**	**NSYCRNG128300**	-	-	25	**NSYVDM25U8P**
		400	**NSYCRNG128400T**	**NSYCRNG128400**	-	-	25	**NSYVDM25U8P**

(1) The racks are to be ordered separately.
(2) From the height of 800 mm.

Electronic application
Accessories overview

Composition accessories

Fixing lugs



Page 58

Post-fixing device



Page 59

Door accessories

Locks



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Padlock



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Cable-entry accessories

Cable-gland plates for Spacial CRN enclosure



Page 66

ISO cable glands



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Multiple cable entry



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Electronic application
Accessories overview

Composition accessories

Plinth-fixing device

PB501637-28



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Canopy

PB500329-35



Page 63

Door accessories

Door retainer

PB500223-41



Page 274

Door switch

PB501638-28



Page 272

Door rails

PB500333-30



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Earthing systems

PB500407-42



Page 278

Mounting accessories

19" fixed and swing racks

PB500323-18

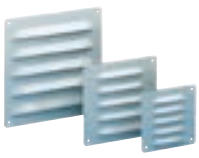


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Thermal accessories

Ventilation systems

PB500769-36



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Thermal control

PB501639-20



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Ventilation systems

PB501021-37



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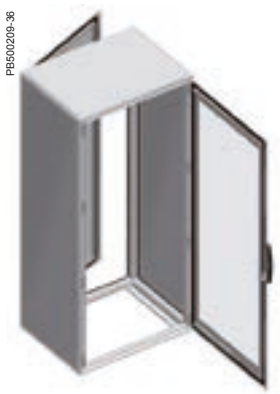
Insulated resistance heaters

PB501028-16
PB501027-16
PB501029-12

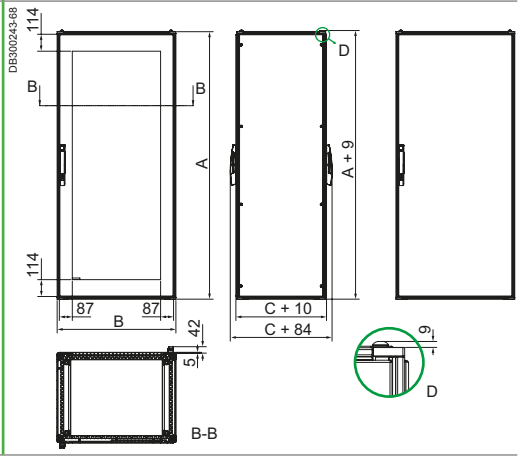


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Electronic application
Characteristics



Characteristics			Spacial SF 19" electronic enclosure
			■ Structure: top and bottom frame and vertical uprights. ■ Transparent front door with Securit® glass. ■ Plain rear door. ■ Standard locking system with handle and 5-mm double-bar insert. ■ Removable roof. ■ External fixing side panels double folded to increase their rigidity with captive fixing screws that reduce installation time. ■ In enclosures with widths of 600 and 800 mm, it is possible to install fixed or swing racks, to be ordered separately.
Material			Steel
Finish			Structured finish, epoxy-polyester powder
Colour			RAL 7035 grey
Certifications			UL 508A Types 1, 12 and CUL
Height (A)	**Width (B)**	**Depth (C)**	**References**
1200	600	600	**NSYSF12660E**
		800	**NSYSF12680E**
	800	600	**NSYSF12860E**
		800	**NSYSF12880E**
2000	600	600	**NSYSF20660E**
		800	**NSYSF20680E**
	800	600	**NSYSF20860E**
		800	**NSYSF20880E**
		1000	**NSYSF208100E**
2200	600	600	**NSYSF22660E**
		800	**NSYSF22680E**
		1000	**NSYSF226100E**
	800	600	**NSYSF22860E**
		800	**NSYSF22880E**
		1000	**NSYSF228100E**



Electronic application
Accessories

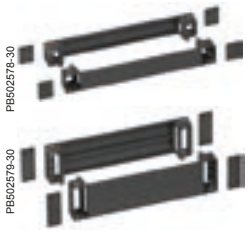
Door

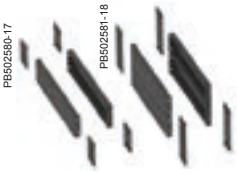


Characteristics		Single ventilated door for 19" racks
		■ Door designed to achieve natural ventilation of the enclosure. ■ Installation on enclosures with a width of 800 mm, equipped with centred fixed or swing racks. Opening of 120°. ■ Standard locking system with handle and 5-mm double-bar insert.
Material		Steel
Finish		Structured finish, epoxy-polyester powder
Colour		RAL 7035 grey
Supply		1 ventilated door for racks
Height (mm)	**Width (mm)**	**Single ventilated door**
1200	600	**NSYPCVD126**
	800	**NSYPCVD128**
1400	800	**NSYPCVD148**
1600	800	**NSYPCVD168**
1800	800	**NSYPCVD188**
2000	600	**NSYPCVD206**
	800	**NSYPCVD208**
2200	600	**NSYPCVD226**
	800	**NSYPCVD228**

Electronic application
Accessories

Plinth





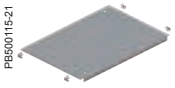


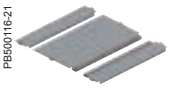


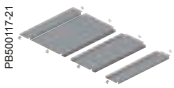
Characteristics		Front plinth		Plinth side panels		Ventilated front plinth	Ventilated plinth side panels
		The front and rear of the plinth consists of 4 corners with 2 or 4 panels.		They are fixed to the corner of the plinth by 2 fixing screws.		The front and rear of the ventilated plinth is made up of 4 corners with 2 front panels.	They are fixed to the corner of the plinth by fixing screws.
Material		Folded sheet steel, corner with a thickness of 25/10e mm		Folded sheet steel		Folded sheet steel, corner with a thickness of 25/10e mm	Folded sheet steel
Finish		Structured finish, epoxy-polyester powder		Structured finish, epoxy-polyester powder		Structured finish, epoxy-polyester powder	Structured finish, epoxy-polyester powder
Colour		RAL 7022 grey		RAL 7022 grey		RAL 7022 grey	RAL 7022 grey
Ingress protection rating		IP30 according to IEC 60529		IP30 according to IEC 60529		IP20 according to IEC 60529	IP20 according to IEC 60529
Mechanical protection rating		IK10 according to IEC 62262		IK10 according to IEC 62262		IK10 according to IEC 62262	IK10 according to IEC 62262
Supply		■ Height 100 mm: 4 corners, 2 panels (front and rear), 4 corner covers and fixing elements ■ Height 200 mm: 4 corners, 4 panels (2 front and 2 rear), 4 corner covers and fixing elements		■ Height 100 mm: 2 side panels, 4 corner covers and fixing elements ■ Height 200 mm: 4 side panels (height of 100 mm, 2 for each side), 4 corner covers and fixing elements		■ Height 100 mm: 4 corners, 2 ventilated panels (front and rear), 4 corner covers and fixing elements	■ Height 100 mm: 2 ventilated side panels, 4 corner covers and fixing elements
References							
Width (mm)	**Depth (mm)**	**100 mm**	**200 mm**	**100 mm**	**200 mm**	**100 mm**	**100 mm**
600	600	**NSYSPF6100**	**NSYSPF6200**	**NSYSPS6100**	**NSYSPS6200**	**NSYSPFV6100**	**NSYSPV6100**
	800			**NSYSPS8100**	**NSYSPS8200**		**NSYSPV8100**
	1000			**NSYSPS10100**	**NSYSPF10200**	-	-
800	600	**NSYSPF8100**	**NSYSPF8200**	**NSYSPS6100**	**NSYSPS6200**	**NSYSPFV8100**	**NSYSPV6100**
	800			**NSYSPS8100**	**NSYSPS8200**		**NSYSPV8100**
	1000			**NSYSPS10100**	**NSYSPF10200**	-	-

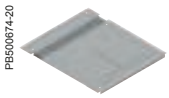
Electronic application
Accessories

Cable-gland plates









Characteristics		Plain	With 1 entry	With 2 entries	Ventilated
		Maximum compact water/ dustproof design.	Facilitates the entry of cables thanks to a longitudinal opening.	Cable entry for very deep enclosures (600 and 800 mm). Two longitudinal openings allowing a large number of cables through.	Plates for cable entry from the bottom of the enclosure. Each plate has a hole with an 8-mm diameter, covered with a plug, for cases in which earthing needs to be performed by an earthing cable or braid (elements not supplied).
Material		Galvanised steel			Galvanised steel
Thickness		15/10e mm			15/10e mm
Fixing		Fixing by C-shaped clip, fixed with screws, providing electrical continuity through the clip			
Ingress protection rating		< IP55			
Supply		Plain plate and fixing elements	Plate with 1 entry; self-extinguishing polyurethane adhesive gasket with cross-section of 15 x 25 mm (guarantees good sealing) and fixing elements	1 plate with 2 entries; polyurethane adhesive gasket with cross-section of 15 x 25 mm (guarantee good sealing) and fixing elements	Ventilated plate with 1 entry, self-extinguishing polyurethane adhesive gasket with cross-section of 15 x 25 mm, and fixing elements
Width (B)	**Depth (C)**	**References**			
600	600	**NSYEC66**	**NSYEC661**	**NSYEC662**	**NSYECV661**
	800	**NSYEC68**	**NSYEC681**	**NSYEC682**	**NSYECV681**
	1000	**NSYEC610**	**NSYEC6101**	**NSYEC6102**	**NSYECV6101**
800	600	**NSYEC86**	**NSYEC861**	**NSYEC862**	**NSYECV861**
	800	**NSYEC88**	**NSYEC881**	**NSYEC882**	**NSYECV881**
	1000	**NSYEC810**	**NSYEC8101**	**NSYEC8102**	**NSYECV8101**

Electronic application
Accessories

Top and bottom cable-gland plate supports

PB500675-23



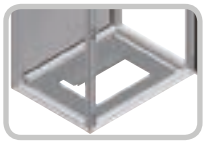
Enclosure width 600 mm.

PB500676-29



Enclosure width 800 mm.

PB500677-40



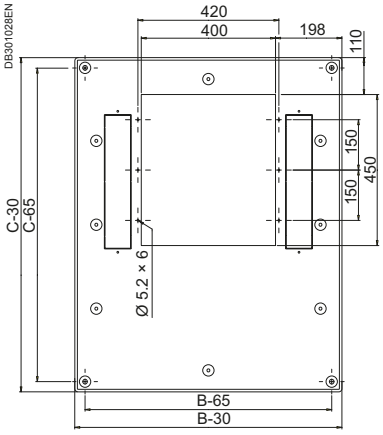
PB503340-28

PB503341-20



Characteristics		Cable-gland support for Actassi plate	Roof for Actassi plates
		Support for cable entry from the bottom of the enclosure. Allows the installation of Actassi cable-gland accessories.	Roof prepared for installing Actassi roof accessories. Suitable for enclosures with widths of 800 mm.
Material		Galvanised steel	Steel
Finish		-	Structured finish, epoxy-polyester powder
Colour		-	RAL 7035 grey
Thickness		15/10e mm	-
Fixing		Fixing by C-shaped clip, fixed with screws, providing electrical continuity through the clip. ■ Enclosure width 600 mm: the Actassi plate is fixed by C-shape clips directly to the enclosure. ■ Enclosure width 800 mm: the Actassi plate is fixed on the support plate.	-
Supply		■ Enclosure width 600 mm: 2 plates and fixing elements ■ Enclosure width 800 mm: 1 support plate and fixing elements	1 roof with central cut-out and side pre-cuts
Width (B) (mm)	**Depth (C) (mm)**	**References**	
-	-	-	-
600	600	**NSYCECS66**	-
	800	**NSYCECS68**	-
	1000	**NSYCECS610**	-
800	600	**NSYCECS86**	**NSYSRSYS86**
	800	**NSYCECS88**	**NSYSRSYS88**
	1000	**NSYCECS810**	**NSYSRSYS810**

DB3010028EN



Electronic application
Accessories

Top and bottom cable-gland plate solutions

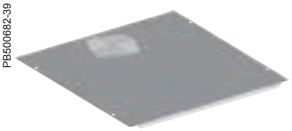
PB500680-38



PB500681-38



PB500682-39



	Actassi plain plate for roof	Actassi plate with brush gasket for roof	Actassi ventilated plate for roof
	Removable plate made from folded sheet steel, to be installed on roof ref. **NSYSRSYS8•.** Option of installing roof elevators for aeration, ref. **NSYEX206**, and cable glands.	Removable folded sheet-steel plate, equipped with a gasket with cable-gland brush, to be installed on roof ref. **NSYSRSYS8•**. Optional installation of roof elevators for aeration, ref. **NSYEX206**, and cable-gland plates.	Removable plate made from folded sheet steel, to be installed on roof ref. **NSYSRSYS8•.** Optional installation of roof elevators for aeration, ref. **NSYEX206**, cable-gland plates and fans.
	Steel	Steel	Steel
	Structured finish, epoxy-polyester powder	Structured finish, epoxy-polyester powder	Structured finish, epoxy-polyester powder
	RAL 7035 grey	RAL 7035 grey	RAL 7035 grey
	-	-	-
	-	-	-
	1 plain plate and fixing elements	1 plate with brush gasket and fixing elements	1 ventilated plate and fixing elements
	NSYTSPC450	**NSYTSP450**	**NSYTSPV450**
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-

PB503344-32



Roof plate elevators for aeration

PB500683-33



- Columns with a height of 20 mm.
- **Fixing:** between the roofplate and the roof.
- **Supply:** 100 units. Reference by unit.

Order by multiples of 100 (100, 200, 300…).

Reference
NSYEX206

Electronic application
Accessories

Top and bottom cable-gland plate solutions







Characteristics	Actassi plain cable-gland plate	Actassi cable-gland plate with brush	Actassi self-ventilated cable-gland plate
Material	Galvanised steel	Galvanised steel	Galvanised steel
Fixing	■ Fixing on the outside of the roof and bottom support plate ■ Can be combined with other types of cable-gland plates	■ Fixing on the outside of the roof and bottom support plate ■ Can be combined with other types of cable-gland plates	■ Fixing on the outside of the roof and bottom support plate ■ Can be combined with other types of cable-gland plates
Supply	1 plain cable-gland plate and fixing elements	1 cable-gland plate with brush and fixing elements	1 self-ventilated cable-gland plate and fixing elements
References			
	NSYEC440	**NSYECP440**	**NSYECAV440**







Characteristics	Actassi ventilation plate with or without fans, symbol diameter before 120 mm		Actassi ventilated support with filter	Spare filter for Actassi ventilated support
Fixing	■ Fixing on the outside of the roof and bottom support plate ■ Can be combined with other types of cable-gland plates		To be mounted on the cable-gland plate with or without fan or on the self-ventilated cable-gland plate.	-
Other characteristics	Sound level: 34 dB (A)		Colour RAL 9011	-
Supply	■ 1 cable-gland plate with or without fans, 2-m power cord (version with fans) and fixing elements ■ Versions with 2 or 3 fans: each of them has an output capacity of 170 m³/h, 220 V-50/60 Hz, installed and wired to a terminal strip. A 2-m power cord is supplied connected		1 mounting support and filter	5 units
References	**Description**	**References**	**References**	
	No fans, 3 positions	**NSYECVT3440**	**NSYFECVT440**	**NSYCEFILS**
	With 3 fans	**NSYECVT3V440**		
	No fans, 2 positions	**NSYECVT2440**		
	With 2 fans	**NSYECVT2V440**		

Examples of possible combinations

Actassi cable-gland plates for the roof and bottom support

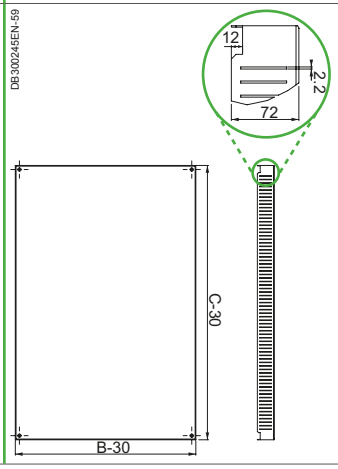
Spacial SF dimensions		Combination 1	Combination 2
Width (mm)	**Depth (mm)**		
600/800	600	PB500690-30 	PB500690-30 
	800		
	1000		

Electronic application
Accessories

Top and bottom cable-gland plate solutions

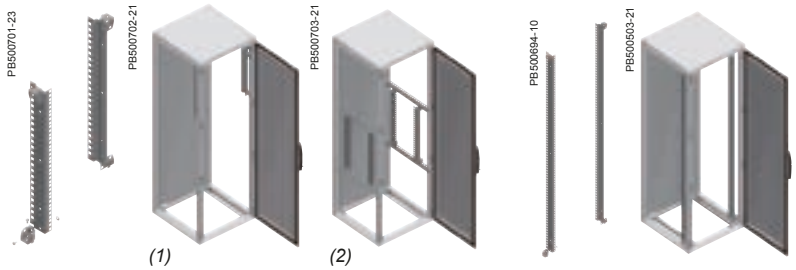


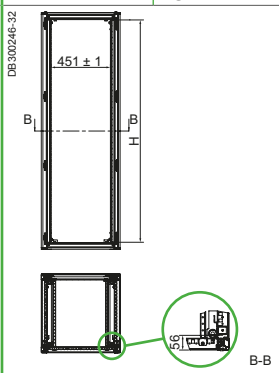
Characteristics		Ventilated roof
		Roof for providing natural ventilation for the enclosure, with IP30 protection. Height: an extra 63 mm in relation to the structure.
Material		Steel
Finish		Structured finish, epoxy-polyester powder
Colour		RAL 7035 grey
Supply		1 ventilated roof and fixing elements
Width (B) (mm)	**Depth (C) (mm)**	**References**
600	600	**NSYSVR606**
	800	**NSYSVR608**
800	600	**NSYSVR806**
	800	**NSYSVR808**



Electronic application
Accessories

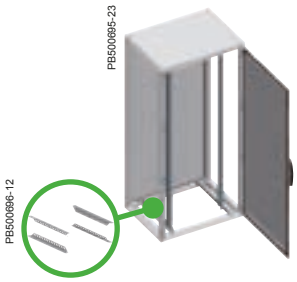
Mounting accessories

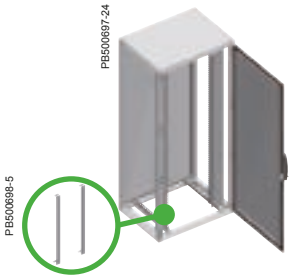


Characteristics	Partial 19" fixed rack		19" fixed rack	
	Rack designed for coupling in enclosures with a width of 600 mm. Adjustable depth with a pitch of 25 mm.		Rack designed for installation in enclosures with a width of 600 mm. Adjustable depth with a pitch of 25 mm.	
Material	Zinc-coated steel		Zinc-coated steel	
Installation	Installation options: ■ **Spacial SF:** □ Installation at the top front of the enclosure, no cross rails needed (1) □ Depth adjustment of the partial rack: two cross rails need to be installed, see page 223 □ For installation at any other height, four cross rails are required (2) ■ **Spacial SM:** □ At the front of the enclosure (1): install two front vertical adaptation profiles, see page 227 □ For depth adjustment (2): install two front vertical adaptation profiles, see page 227 and two rear vertical 40 mm (1 row) cross-rails and four cross-rails, see page 223		Installation options: ■ **Spacial SF:** direct fixing on the structure of the enclosures: □ for installation on enclosures with a width of 800 mm, use the 19" fixed-rack support brackets, □ to reinforce the rigidity of the uprights in enclosures with a width of 800 mm, it is advisable to use the central fixing kit, for enclosure heights above 1800 mm, ref. **NSYRCK19KIT**. ■ **Spacial SM:** fixing on the top/bottom adjustment rails.	
Maximum load	2 kg/U		400 kg	
Supply	2 uprights and fixing elements		2 uprights and fixing elements	
Height (H) (mm)	**No. of units**	**References**	**No. of units**	**References**
200	4	**NSYRCKP4**	-	-
400	8	**NSYRCKP8**	-	-
600	12	**NSYRCKP12**	-	-
800	17	**NSYRCKP17**	-	-
1000	21	**NSYRCKP21**	-	-
1200	26	**NSYRCKP26**	24	**NSYRCK24**
1400	-	-	29	**NSYRCK29**
1600	-	-	33	**NSYRCK33**
1800	-	-	38	**NSYRCK38**
2000	-	-	42	**NSYRCK42**
2200	-	-	47	**NSYRCK47**
				

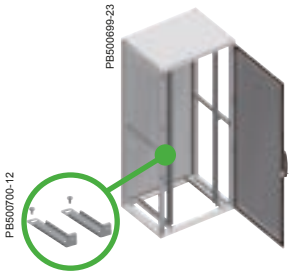
Electronic application
Accessories

Mounting accessories





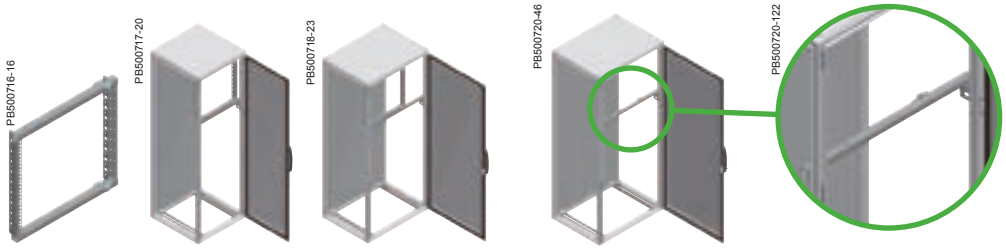
Characteristics		Support brackets for 19" fixed rack with a width of 800 mm	Side plates of the centred fixed rack for a width of 800 mm
		Support brackets for coupling the fixed rack to enclosures with a width of more than 600 mm. They allow the depth of the fixed rack to be adjusted with a pitch of 25 mm. The fixed amounts are delivered in pairs.	Side plates for coupling to the fixed rack in enclosures with a width of 800 mm. Direct installation on the rack by screws. The fixed amounts are delivered in pairs.
Material		Zinc-coated steel	Steel
Finish		-	Structured finish, epoxy-polyester powder
Colour		-	RAL 7035 grey
Maximum load		400 kg	-
Supply		4 support brackets and fixing elements	2 side plates and fixing elements
Height (H) (mm)	**Depth (mm)**	**References**	**References**
1200	-	-	**NSYRC12**
1400	-	-	**NSYRC14**
1600	-	-	**NSYRC16**
1800	-	-	**NSYRC18**
2000	-	-	**NSYRC20**
2200	-	-	**NSYRC22**
-	600	**NSYRCKS6**	-
-	800	**NSYRCKS8**	-
-	1000	**NSYRCKS10**	-



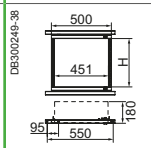
Characteristics	Central fixing kit
	To reinforce the rigidity of the 19" fixed racks in enclosures with a width of 800 mm. Fixing to the enclosure by cross rails or light cross rails installed depthwise. See page 225.
Material	Zinc-coated steel
Supply	2 supports and fixing elements
References	
	NSYRCK19KIT

Electronic application
Accessories

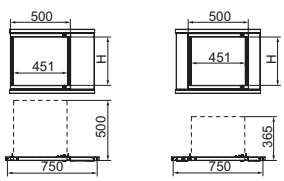
Mounting accessories



Characteristics	Partial 19" swing rack for 600 and 800 mm enclosures		Partial 19" swing rack support for 600 and 800 mm enclosures
	Rack for coupling to enclosures with widths of 600 and 800 mm. In enclosures with a width of 800 mm, the rack can be installed centred or offcentre. Maximum opening: 120°. Reversible opening direction: left/right. Locking system, top and bottom, with 5 mm double-bar key. The 6 and 9 units racks only with bottom lock. Maximum equipment installation depth: 180 mm, in enclosures with a width of 600 mm.		Supports for coupling the partial swing rack to enclosures with widths of 600 and 800 mm. Height or depth adjustment, with a pitch of 25 mm, by two 65 mm (2 rows) universal cross rails and a 19" multiple bracket, ref. **NSYMBR19**. ■ **Spacial SF:** direct fixing to the structure. ■ **Spacial SM:** fixing to the enclosure by means of the vertical adaptation profile, see page 227.
Material	Zinc-coated steel		Zinc-coated steel
Installation	■ **Spacial SF:** □ To install at the front at any height of the enclosure: directly to the framework by rack fixing elements □ For depth adjustment: install two (for top height) or four (for any height) 65 mm (2 rows) cross rails, see page 223 ■ **Spacial SM:** □ To install at the front at any height of the enclosure: install two front vertical adaptation profiles, see page 227 □ For depth adjustment: install two front vertical adaptation profiles, see page 227 and two rear vertical 40 mm cross-rails and four 65 mm (2 rows) cross-rails, see page 223		Installation of the rack in centred or off-centre position, for enclosures with a width of 800 mm
Maximum load	2 kg/U		-
Supply	1 partial 19" swing rack		2 supports and fixing elements
Dimensions	**No. of units (H)**	**References**	**References**
Height (mm)			
355	6	**NSYRSWP6**	-
468	9	**NSYRSWP9**	-
601	12	**NSYRSWP12**	-
735	15	**NSYRSWP15**	-
868	18	**NSYRSWP18**	-
1002*	21	**NSYRSWP21**	-
Width (mm)			
600	-	-	**NSYRSWSP6**
800	-	-	**NSYRSWSP8**



Partial 19" swing rack for enclosures with a width of 600 mm.



Partial 19" swing rack, off-centre and centred, for enclosures with a width of 800 mm.

19" multiple bracket



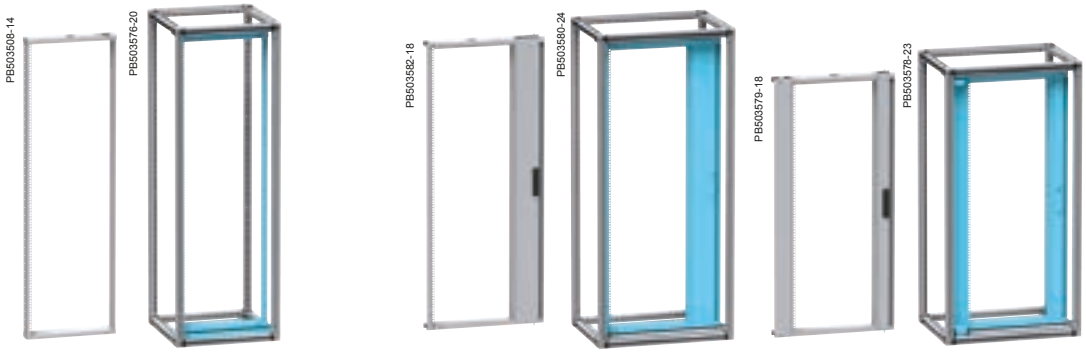
■ Bracket for fixing 65 mm universal cross rails (2 rows), depthwise, to position the partial 19" swing rack in any direction, up and down and/or depthwise.
■ **Material:** zinc-coated steel.
■ **Supply:** 4 brackets and fixing elements.

Reference
NSYMBR19

** Optional installation in enclosures with height of 1200 mm.*

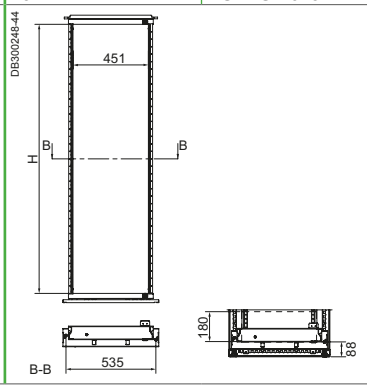
Electronic application
Accessories

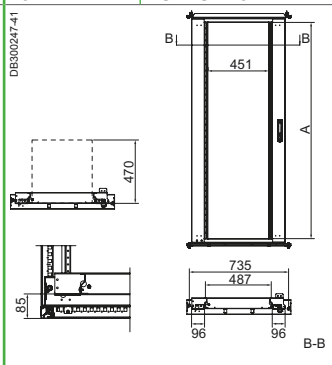
Mounting accessories



Characteristics	19" swing rack for 600 mm enclosures	19" swing racks for 800 mm enclosures
	To be coupled to enclosures with widths of 600 mm. Can be moved depthwise with a pitch of 25 mm. Reversible opening direction: left/right. Locking system, top and bottom, with 5-mm double-bar key. ■ Maximum opening: 130°. ■ Maximum equipment installation depth: 180 mm. ■ Fixing to the enclosure structure: □ **Spacial SF:** fixing to the enclosure structure. □ **Spacial SM:** fixing to the enclosure on top/bottom adjustment rails. ■ Components: □ Zinc-coated steel central structure. □ Mounting cross-rail on structure made from steel painted with epoxy-polyester resin, textured RAL 7035 grey. Fixed to the central structure by screws.	To be coupled to enclosures with widths of 800 mm. Can be moved depthwise with a pitch of 25 mm. Reversible opening direction: left/right. Locking system, top and bottom, with 5-mm double-bar key. ■ Maximum opening: 130° (possibility of opening to 180° using 180° hinges). ■ Maximum equipment installation depth: □ Off-centre 19" swing rack: 470 mm □ Centred 19" swing rack: 390 mm ■ Fixing to the enclosure structure: □ **Spacial SF:** fixing to the entire height of the enclosure structure. □ **Spacial SM:** fixing to the enclosure on top/bottom adjustment rails. ■ Components: □ Zinc-coated steel central structure. □ Mounting cross-rail on structure made from steel painted with epoxy-polyester resin, textured RAL 7035 grey. Fixed to the central structure by screws. □ Side plate made from steel painted with epoxy-polyester resin, textured RAL 7035 grey. Fixed to the central structure by screws.
Material	Zinc-coated steel and steel painted	
Installation	**Spacial SF - SM:** other mounting options: consult us	
Maximum load	3.75 kg/unit with a max of 150 kg	
Supply	1 19" swing rack with no panels	Centred and off-centre 19" swing rack: hinged rack, 800-mm swing rack supports, side plates with locking system double-bar and fixing elements

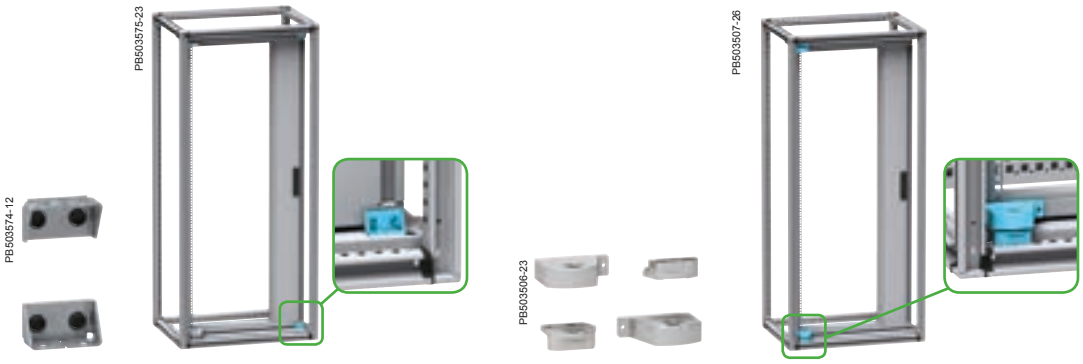
Dimensions	No. of units	References	No. of units	Off-centre 19" hinged rack	Centred 19" hinged rack
Height (mm)					
1400	27	**NSYRSW627**	27	**NSYRSW27**	**NSYRSWC27**
1600	31	**NSYRSW631**	31	**NSYRSW31**	**NSYRSWC31**
1800	36	**NSYRSW636**	36	**NSYRSW36**	**NSYRSWC36**
2000	40	**NSYRSW640**	40	**NSYRSW40**	**NSYRSWC40**
2200	45	**NSYRSW645**	45	**NSYRSW45**	**NSYRSWC45**





Electronic application
Accessories

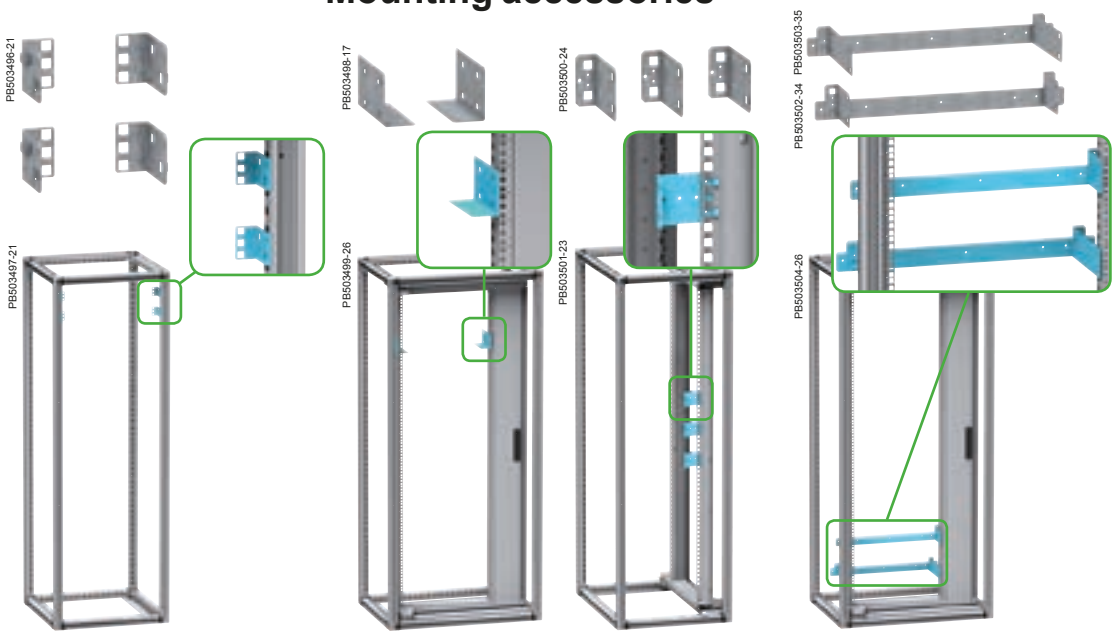
Mounting accessories

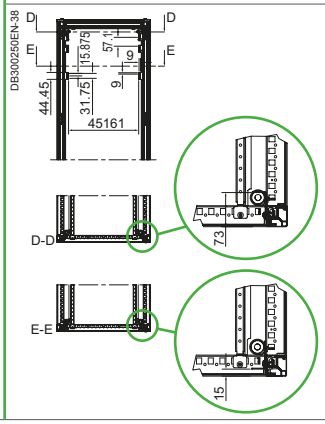


Characteristics	19" swing rack kit transportation	180° hinge
	To carry an enclosure **in vertical position** with 19" chassis installed and equipped.	Hinge for installation on centred and off-centre 19" swing racks. Allows the swing rack to be opened to 180°. Fixing by M8 screws directly to the swing rack. Maximum equipment installation depth: □ off-centre 19" swing rack: 425 mm, □ centred 19" swing rack: 345 mm.
Material	Zinc-coated steel	Zamak 5
Supply	2 slide brackets and fixing elements	2 hinges and fixing elements
References		
	NSYTRSW	**NSYRSWH180**

Electronic application
Accessories

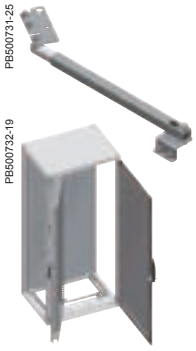
Mounting accessories



Characteristics	1 U / 3 U support	19" partial single slides	Fixing of cable ducts on 19" racks	Rear cable-guide support	
	Support prepared for installing equipment 1 U or 3 U high. Designed with quick locking for easy installation. ■ **Spacial SF:** direct fixing to the structure. ■ **Spacial SM:** fixing to the enclosure by means of the vertical adapter section, see page 227.	Rails for installation on fixed or swing racks. Direct fixing on the structure of the enclosure, by quick locking.	Allows vertical fixing of cable ducts for cable guide. Service depth: 150 mm. Fixed by quick locking to the 19" rack profile.	Supports used for installation on the rear of the swing racks. Suitable for fixing cable-guide accessories. Allow vertical fixing of cable ducts: Adjustable depth with a pitch of 44.45 mm.	
Material	Zinc-coated steel	Zinc-coated steel	Zinc-coated steel	Zinc-coated steel	
Thickness	-	12/10e mm	-	-	
Maximum load	-	15 kg	-	-	
Supply	4 1 U/3 U supports (2 units right and 2 units left) and fixing elements	2 rails and fixing elements	3 units and fixing elements	2 cable-guide supports, crossbar and fixing elements	
References				**Service depth (mm)**	**References**
	NSYRC1U	**NSYGB140**	**NSYRCDFIX**	150	**NSYRCSUP15**
				250	**NSYRCSUP25**
					

Electronic application
Accessories

Swing rack accessories



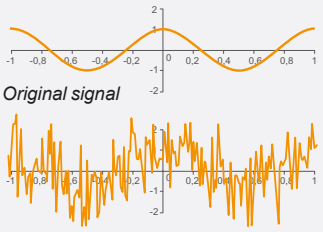


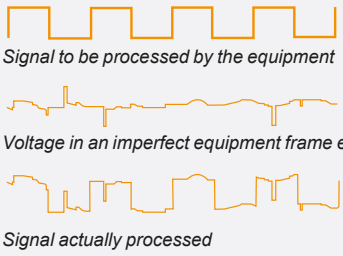




Characteristics	120° mechanical retainer	180° pneumatic retainer	Switch for swing 19" rack	Fixing elements for 19"	
	Retainer for installation on the swing racks. Maximum opening: 120°.	Retainer for installation on the swing racks installed with 180° hinges, in enclosures with a depth of 600, 800 or 1000 mm. Maximum opening: 180°.	Switch for direct fixing on the bottom or top support of the swing rack. M20 connection. Open + closed contact, 10 A/500 V.	Elements required for fixing switchgear on 19" racks, made up of: ■ Screws. ■ Washers. ■ Nuts.	
Fixing	Direct fixing to the rack support and the 19" rack	**Spacial SF:** fixing to the base of the structure and to the rack. **Spacial SM:** direct fixing to the rack support and to the 19" rack.	-	-	
Supply	1 mechanical door stop and fixing elements	1 pneumatic door stop and fixing elements	1 19" rack switch and fixing elements	50 units of each. Reference by unit. Order by multiples of 50 (50, 100, 150…)	
References				**Thread type**	**References**
	NSYRCDR12	**NSYRCDR18**	**NSYRCINT**	M5	**NSYGFR95M55**
				M6	**NSYGFR95M65**

Electromagnetic protected steel enclosures
Introduction





Electromagnetic interference

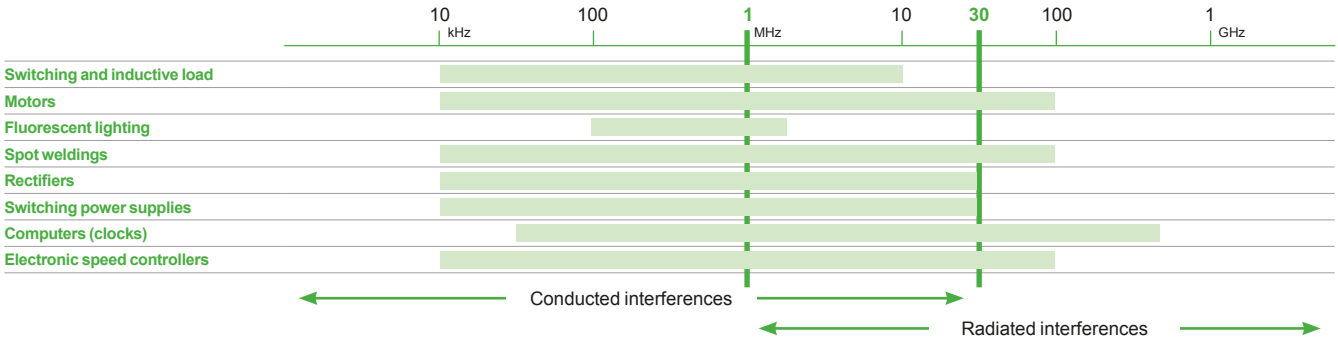
Introduction

LV networks are highly polluted and subject to a large number of aggressions. Electrotechnical equipment and in particular electronic devices, that are increasingly numerous and process ever lower signals, must withstand a harsh electromagnetic environment. At the same time availability requirements, whether for production, management or commerce, are increasingly great.

Definition

Any electromagnetic phenomenon capable of impairing the performance of a device, equipment or system, etc.
An electromagnetic disturbance can be electromagnetic noise, an unwanted signal or a change in the propagation medium itself.
An electromagnetic disturbance, as its name suggests, consists of an electric field $\vec{E}$ generated by a potential difference and a magnetic field $\vec{H}$ difference caused by the flow of a current I along a conductor.
"Unwanted" electromagnetic interference is simply an unwanted electrical signal that is added to the useful signal. This unwanted signal is propagated by conduction in conductors and by radiation in air, etc.

Example of devices generating interference



The regulations

The standards define electromagnetic compatibility (EMC) as "the ability of a device, equipment or a system to function satisfactorily in its electromagnetic environment without introducing intolerable disturbances to that environment or to other equipment".

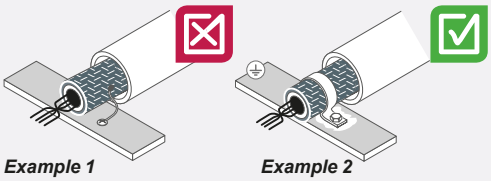
Classification

In an electrical switchboard, the signals coming from these sources of disturbance will coexist with more sensitive devices. These signals may be classified as follows (Sources: IEC 61000-5-2 and IEC 60364-4-44 standards):

Class	Examples
1 Sensitive	■ Low-level circuits with analog outpout units, sensors… ■ Instrument circuits (probe, sensors…)
2 Not very sensitive	■ Control/command circuits with resistive load ■ Digitalized low-level circuits (Bus…) ■ Low-level circuits with on-off output unit (sensors…) ■ Low-level direct power supply
3 Not very disturber	■ Control/command circuits with inductive load (relay, contactors, coils, inverter…) with adapted protection ■ Alternating power supply ■ Main power supply connected to power devices
4 Disturber	■ Welding machines ■ Power circuit ■ Drive, switch mode power supplies…

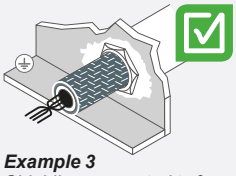
Electromagnetic protected steel enclosures
Introduction

Connect the shielding



Example 1
Shielding connected to frame earth by a wire (pigtail) and no mechanical fastener.
Arrangement to be avoided.

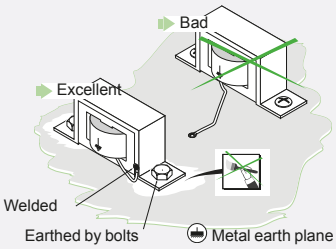
Example 2
Shielding connected to frame earth over its entire circumference, but no mechanical fastener.
Acceptable arrangement.



Example 3
Shielding connected to frame earth over its entire circumference, and a mechanical fastener.
Recommended arrangement.

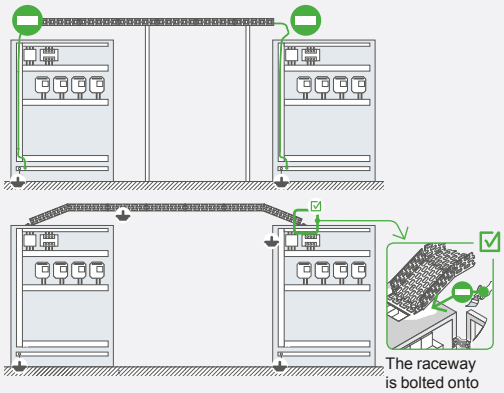
Isolation transformers

DB300008SE-39



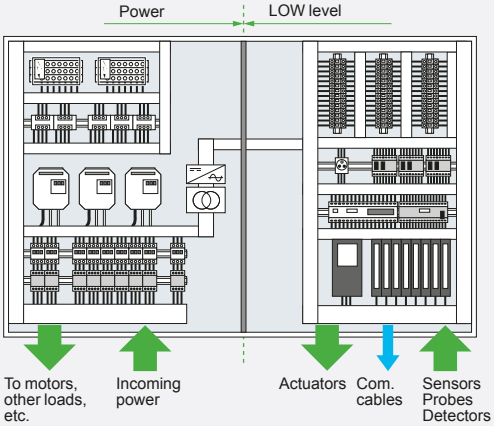
Earth connection of metal raceways

DB404757
DB404758
DB404759



Enclosures

DB404750



How to obtain EMC

Rules to be followed: general description

The electromagnetic interference generated by devices is classified in 2 categories according to its frequency:
- Low frequency (up to 30 MHz): interference conducted by sensor cables;
- High frequency (above 1 MHz): interference radiated by a device.

The rules to be followed concern the selection and installation of the electrical installation's components. Overall, they break down as follows:

Conducted interferences
- Importance of the choice of architecture for the power supplies and associated protective devices.
- Use of a filter.

Radiated interferences
- Importance of the choice of installation rules:
  - grounding, length and cross section of cables,
  - cabling rules, choice of cable tray, connections,
  - choice and installation of the enclosure.
- Use of filters.

Connect the shielding

This connection can remove interference to earth.
The decision to connect one or both ends to earth means priority is given to protection against low or high frequencies:
- at a single end, 50 Hz stray currents cannot flow, moderate HF protection;
- at both ends, possible presence of 50 Hz current, but the barrier against higher frequencies is strengthened.

Isolation transformers

Isolation transformers are used to guard against high-frequency disturbances generated by the network power supply (primary circuit). An electrostatic shield is connected to earth by a short link.
This link must be free of paint and any other insulating material. Physical separation of the cables of the primary circuit (network power supply) and those of the secondary circuit (power distribution) is also essential.

Earth connection of metal raceways

Increasing the efficiency of the shielding on highly disturbing cables
The radiation from a shielded variable speed drive/motor connecting cable will be further reduced if it runs in a closed metal raceway or, even better, in a metal conduit. The raceway and tube need to be connected to earth at either end.

Enclosures

The interfering and sensitive components, cables etc. should be installed in separate enclosures or located at some distance from each other.

Note: *For further information, consult your local sales office or our educational leaflet entitled "Electromagnetic compatibility" - ref. UE17MK08FR.*

Electromagnetic protected steel enclosures
Introduction

EMC offer of Schneider Electric

PB500205-46



Spacial S3HF wall-mounting enclosure IP55 IK10

From H 400 x W 300 x D 200 to H 1200 x W 800 x D 300 mm

- Metal monobloc enclosures constructed from special ALU-ZINC 150 sheet. Body constructed from single folded and welded sheet.
- The enclosure surface, comprising 55 % aluminium ensures good reflection of radiated electromagnetic interference.
- Ingress protection rating: IP55.
- Mechanical protection rating: IK10.
- Structured finish, exclusively epoxy-polyester paint on the outside
- RAL 7035 grey colour.

PB501682-46



Spacial SFHF suitable enclosure IP55 IK10

From H 1800 x W 600 x D 600 to H 2200 x W 800 x D 800 mm

- Metal, extendable enclosure constructed thanks to a closed triangular profile, door and panel from special ALU-ZINC 150 sheet. The enclosure surface, comprising 55 % aluminium ensures good reflection of radiated electromagnetic interference.
- Ingress protection rating: IP55.
- Mechanical protection rating: IK10.
- Structured finish, exclusively epoxy-polyester paint on the outside
- RAL 7035 grey colour.

This range can be configured according to your needs

4 differents services available:

Assemble to order

Mounting of standard accessories

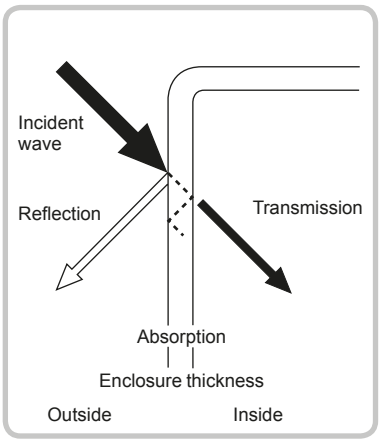
Painting

Machining

See page 488 for details or consult our web site www.se.com

Electromagnetic protected steel enclosures
Introduction

DB300006

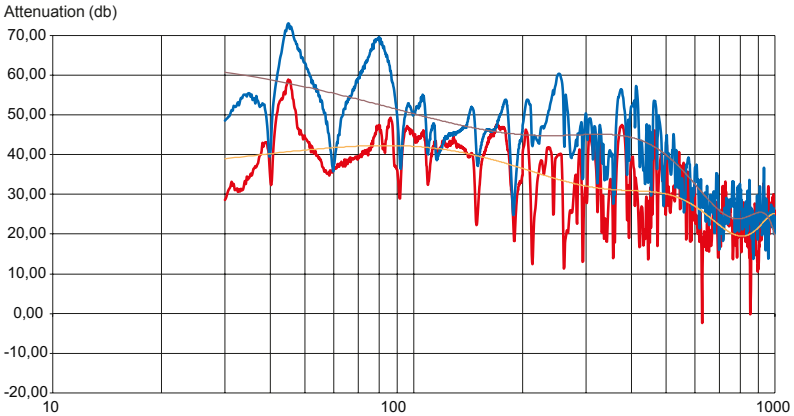


The presence of 55 % aluminium on the surface of the sheet metal ensures good reflection of electromagnetic waves.

Attenuation of electromagnetic interference

The next illustrations indicates the attenuation (dB) curves related to the frequency (MHz).

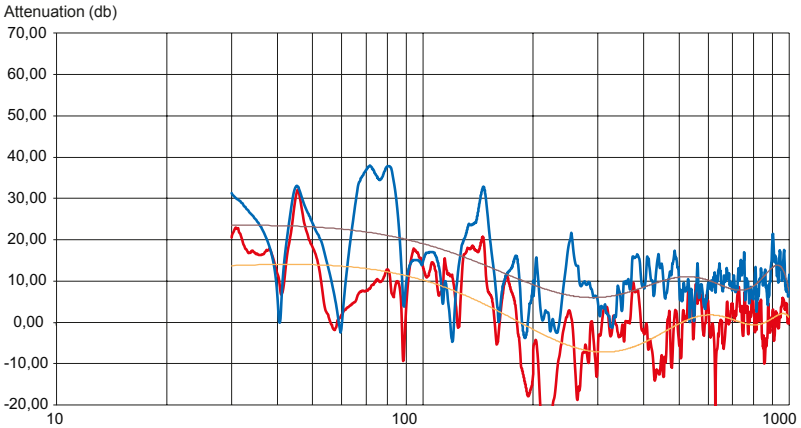
Attenuation of the Spacial S3HF enclosure



SF enclosure in Aluzinc 150 sheet metal (ref. NSYSFHF20860)

Attenuation of the Spacial SFHF suitable enclosure

Enclosure is tested with its sides panels and earth braids mounted on all claddings (Test performed following IEC 61587-3).



SF enclosure in steel (ref. NSYSF20860)

Attenuation curves
Horizontal attenuation
Vertical attenuation
Trend curves (polynomial of order 6)
Horizontal attenuation
Vertical attenuation

Electromagnetic protected steel enclosures
Characteristics

PB500205-38



Characteristics	Spacial S3HF
	Single-piece metal enclosures made from special sheets of ALUZINC 150. The presence of 55 % aluminium on the surface of the sheet metal ensures good reflection of electromagnetic waves. ■ **Body** □ single-piece body, folded and welded, □ entirely sealed body with no cable entry and no opening, □ equipped with four shouldered backstuds allowing direct fixing of the mounting plate, □ its low resistivity promotes earth continuity, □ direct fixing or using wall-fixing lugs, ref. **NSYPFCR** (to be ordered separately). ■ **Door** □ the special body-door gasket (IP + EMC) provides, in addition to water and dust tightness, electric continuity between the door and the body of the enclosure, □ the metal lock with earth continuity helps improve the general shielding, □ an earthing braid added to the enclosure between the body and the door guarantees a good earth connection and, consequently, good electromagnetic compatibility, □ 3 mm double-bar lock as standard delivery (if a 405 key is needed it is possible to mount ref. **NSYCLL405CRN**). ■ Enclosure delivered with galvanised mounting plate. Other sizes: consult us.
Finish	Structured finish, epoxy-polyester powder (inside not painted)
Colour	RAL 7035 grey
Ingress protection rating	IP55 according to IEC 60529
Mechanical protection rating	IK10 according to IEC 62262
Certifications and declarations	UL, CE declaration
Fixing	Fixing lugs, ref. **NSYPFCR** to be ordered separately (1 set of 4 lugs)

Height (mm)	Width (mm)	Depth (mm)	Fig.	Weight (kg)	References
400	300	200	1	7.5	**NSYS3HF4320P**
	600	200	1	13.0	**NSYS3HF4620P**
500	400	200	2	11.5	**NSYS3HF5420P**
600	400	200	2	13.0	**NSYS3HF6420P**
	600	250	2	20.5	**NSYS3HF6625P**
700	500	250	2	19.0	**NSYS3HF7525P**
800	600	300	2	32.8	**NSYS3HF8630P**
1000	800	300	2	53.2	**NSYS3HF10830P**
1200	800	300	2	59.0	**NSYS3HF12830P**

PB501821-18



Fixing

Characteristics	Support bracket for enclosure with anti-tilt kit and reinforcement
	The support bracket is used when the S3HF enclosure cannot be hung from a wall or a post. Suitable for outdoor use. Maximum enclosure dimensions: 1000 x 800 x 300 mm. Floor attachment by standard M12 fastenings.
Material	Steel
Finish	Painted
Colour	RAL 7035 grey
Maximum load	120 kg
Height (mm)	**References**
1400	**NSYCOCNS1400**
1800	**NSYCOCNS1800**

Electromagnetic protected steel enclosures
Characteristics



Characteristics			Spacial SFHF	
			■ **Structure** □ galvanised-steel structure, □ top and bottom frame, vertical upright. ■ **Claddings** □ enclosure with screwed panels (on side and rear) and front plain door (with reinforcement frame) made from Aluzinc steel, □ side panels have to be ordered separately, □ special gasket (IP + EMC) between body, door and panels. ■ 1 single plain door with door-reinforcement frame (double door on request, please consult us). ■ Left or right opening to 120°. ■ Delivered with standard locking system handle and 5-mm double-bar insert. ■ 1 rear panel screwed from the outside. ■ 1 removable roof. ■ 1 part cable-gland plate with special gasket (IP + EMC).	
Finish			Epoxy-polyester paint on the outside (inside not painted)	
Colour			RAL 7035 grey	
Ingress protection rating			IP55	
Mechanical protection rating			IK10	
Certifications			RoHS compliant	
Fixing			-	
Height (mm)	**Width (mm)**	**Depth (mm)**	**Enclosure references**	**Side panel references**
1800	600	600	**NSYSFHF18660**	**NSY2SPHF186**
	800	400	**NSYSFHF18840**	**NSY2SPHF184**
		600	**NSYSFHF18860**	**NSY2SPHF186**
2000	600	400	**NSYSFHF20640**	**NSY2SPHF204**
		600	**NSYSFHF20660**	**NSY2SPHF206**
		800	**NSYSFHF20680**	**NSY2SPHF208**
		1000	**NSYSFHF206100**	**NSY2SPHF2010**
	800	400	**NSYSFHF20840**	**NSY2SPHF204**
		600	**NSYSFHF20860**	**NSY2SPHF206**
		800	**NSYSFHF20880**	**NSY2SPHF208**
		1000	**NSYSFHF208100**	**NSY2SPHF2010**
2200	600	600	**NSYSFHF22660**	**NSY2SPHF226**
	800	600	**NSYSFHF22860**	**NSY2SPHF226**
		800	**NSYSFHF22880**	**NSY2SPHF228**

Electromagnetic protected steel enclosures

Dimensions

Spacial S3HF

A: Height.
B: Width.
C: Depth.

Fig. 1

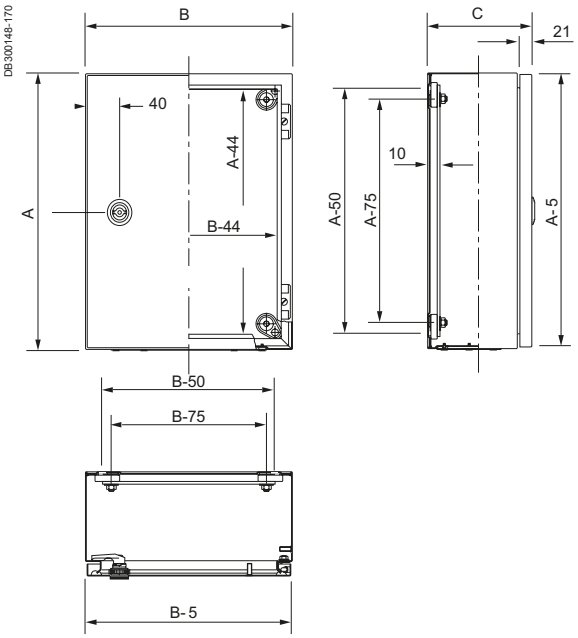
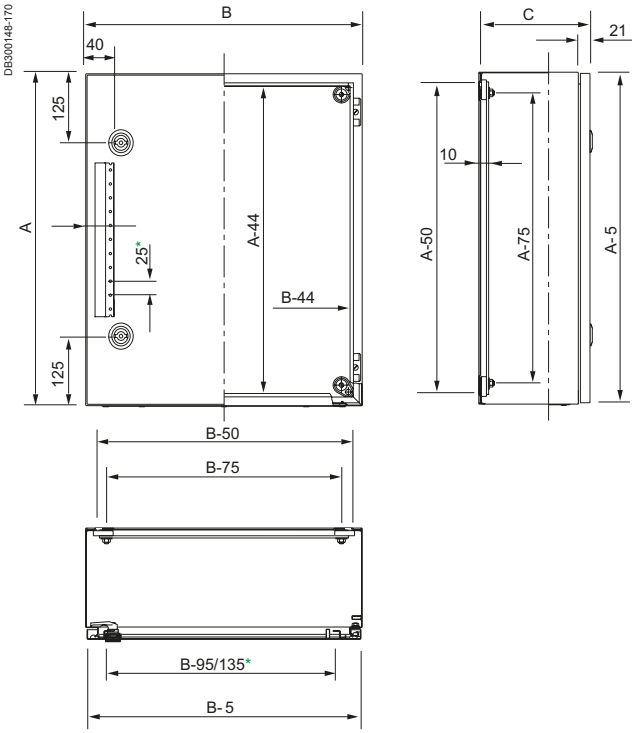


Fig. 2

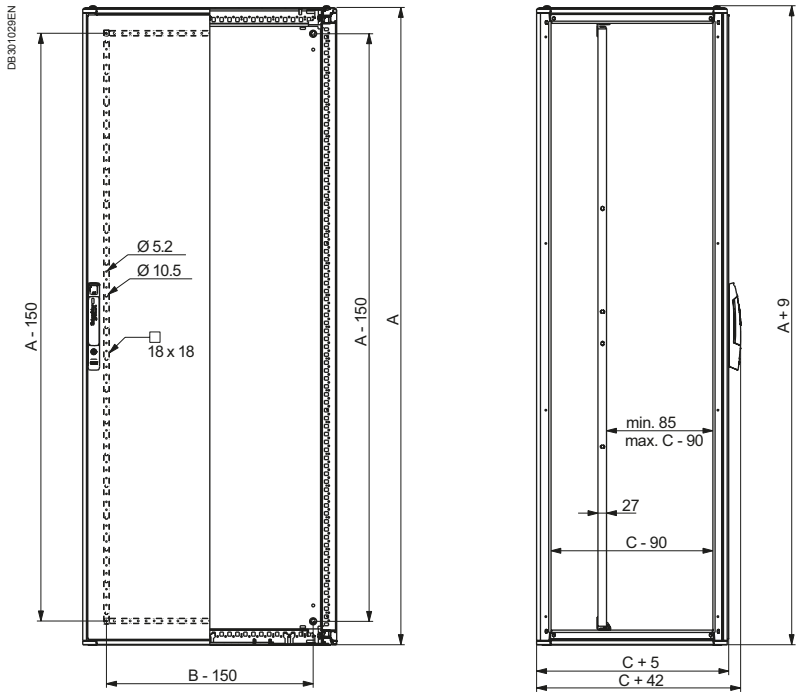


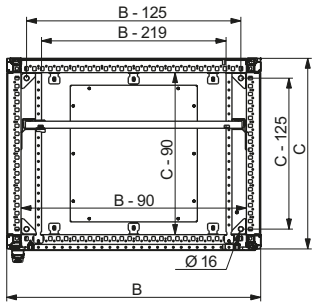
** Model 1200 x 800.*

Electromagnetic protected steel enclosures
Dimensions

Spacial SFHF

A: Height.
B: Width.
C: Depth.





Electromagnetic protected steel enclosures
Accessories



All mounting accessories are compatible with the SF standard range.

- Mounting plate (see page 212).
- Rails (see page 221).
- 19" frame (fixed and swinging) (see page 424).

PB503659-39



For NSYEB2050D8.

PB500084-43



For all other references.

Earth braids

- They guarantee the earth connection for high frequencies, avoiding the disturbing electric currents that are produced.
- **Material:** tinned copper.
- **Supply:** 10 earth braids (nuts and washers not included).

Length (mm)	Width (mm)	Section (mm²)	Terminal Ø (mm)	References
150	12	6	6.5	**NSYEB156D6**
	17	10	6.5	**NSYEB1510D6**
155	17	16	8.5	**NSYEB1516D8**
200	27	25	8.5	**NSYEB2025D8**
	33	50	8.5	**NSYEB2050D8**

EMC coupling kit

- Used to join enclosures side-by-side or depthwise.

Special gasket for EMC solution.
Attenuation level is decreased by 5 db when enclosures are joined (please consult us).

- **Ingress protection rating:** IP55.

Height (mm)	Depth (mm)	Ref. SM EMC
1800	400	**NSYSFHFBK184**
	600	**NSYSFHFBK186**
2000	400	**NSYSFHFBK204**
	600	**NSYSFHFBK206**
	800	**NSYSFHFBK208**
	1000	**NSYSFHFBK2010**
2200	600	**NSYSFHFBK226**
	800	**NSYSFHFBK228**

New

PB503628



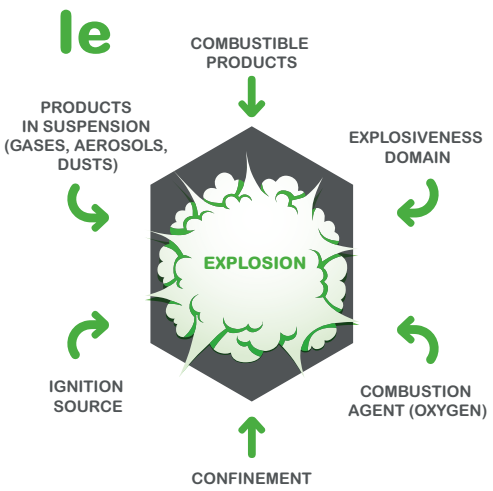
EMC cable gland with contact spring

Characteristics	EMC cable gland with contact spring
Thread type	■ Metric EN 60423 ■ Other types are available on demand
Material	Nickel-plated brass, neoprene gasket
Ingress protection rating	IP66
Flame resistance	V2 depending on UL94
Temperature range	-20°C to + 100°C
Cable type	Unshielded
Supply	■ The cable-glands are supplied with nuts ■ Pack of 10 (M12 and M16), of 5 (M20 and M25), of 4 (M32 and M40)

Dimensions (mm)						References
Ø	Ø min/max	Drill Ø	TD	TL	Wrench width	
M12	3/6.5	12 to 12.2	12	6	14	**NSYCGHF12**
M16	5/10	16 to 16.2	16	7	20	**NSYCGHF16**
M20	6/12	20 to 20.2	20	8	22	**NSYCGHF20**
M25	11/17	25 to 25.2	25	8	27	**NSYCGHF25**
M32	15/21	32 to 32.3	32	8	34	**NSYCGHF32**
M40	19/28	40 to 40.3	40	9	43	**NSYCGHF40**

Enclosures for explosive atmospheres
Introduction

DB301036EN



Explosion hexagon

Potentially explosive atmospheres (or ATEX)

> Process leading to an explosion in an explosive atmosphere

■ For an explosion to occur, six conditions must be met simultaneously (see explosion hexagon opposite). The process is as follows:
□ mix combustible substances (gases, dusts) with air whose oxygen acts as combustion agent;
□ dose combustible products and combustion agents in precise proportions; you thus obtain a potentially explosive atmosphere;
□ confine the explosive atmosphere thus obtained in a place conducive to explosion;
□ place it in contact with an ignition source having sufficient energy to cause an explosion.

> ATEX regulations

Two EU directives and an international standard regulate potentially explosive atmospheres :
■ The objective of the two EU directives (the so-called ATEX directives) is to enhance protection from explosions by making various technical and organizational measures compulsory:
□ the 2014/34/EU directive (a revision of the 94/9/EC directive) came into application on 20 April 2016. It describes the requirements that must be met by protection devices and systems, and the conformity assessment procedures;
□ the 99/92/EC directive, a labour relations supplement to the preceding one, presents the minimum requirements to be met to improve the protection of workers liable to be exposed to ATEX-related risks.

■ An IEC international standard harmonized with the European standard EN:
□ IEC 60079: electrical equipment for potentially explosive gaseous atmospheres.

> Classification

Locations liable to be in the presence of an explosive atmosphere have been classified according to 2 criteria:
□ the probability assessed on a scale comprising 3 levels;
□ the nature of the combustible product.
The following 6 ATEX zones are obtained:

Probability of an explosive atmosphere	Gas / Vapour or mist	Dust
Place in which an explosive atmosphere is present constantly, or for long periods or frequently	**Zone 0**	**Zone 20**
Place in which an explosive atmosphere is likely to occur occasionally in normal operation	**Zone 1**	**Zone 21**
Place in which an explosive atmosphere is not likely to occur in normal operation or, if it does occur, will persist for a short period only	**Zone 2**	**Zone 22**

Definition

Product directive 2014/34/UE: defines the manufacturers' obligations.

Personal protection directive 99/92/CE: defines the users' obligations.

Degree of protection:
In hazardous areas, equipment is required to offer a minimum degree of protection of IP54, but it can be tested or certified with a higher degree of protection.

PB500060-47



PB500061-26



Equipment installed in an explosive atmosphere zone must be protected against the risk of explosion. Three levels of protection have been defined, corresponding to the three probabilities of existence of an explosive atmosphere. They are broken down into 5 categories depending on the type of industry.

Protection of equipment against explosions			ATEX	
Group *	Category	Level	Probability	Zone
I	M1	Very high	Permanent	0 / 20
	M2	High	Occasional	1 / 21
II	1	Very high	Permanent	0 / 20
	2	High	Occasional	1 / 21
	3	Normal	Accidental	2 / 22

*** I = equipment designed to be used in the mining and quarrying industries**
II = equipment designed to be used in surface industries

Enclosures for explosive atmospheres
Introduction

> Protection of electrical equipment

The standards have defined various methods of protection for electrical equipment depending on whether it is located in gaseous or dusty explosive atmospheres.

Electrical equipment		ATEX	Methods of protection	
CENELEC	IEC		Symbol	Title
EN 50015	IEC 60079-6	G, D	o	Immersion in oil
EN 50016	IEC 60079-2	G, D	p	Enclosures with internal overpressure
EN 50017	IEC 60079-5	G, D	q	Filling with powder product
EN 60079-1	IEC 60079-1	G, D	d	Explosion-proof enclosures
EN 60079-7	IEC 60079-7	G, D	e	Enhanced safety "e"
EN 50020	IEC 60079-11	G, D	i	Intrinsic safety
EN 60079-15	IEC 60079-15	G, D	n	Product design
EN 60079-31	IEC 60079-31	G, D	tD	Protection by enclosure "t"

* G = gas / vapour or mist
  D = dust

> ATEX certification of electrical switchboards

■ Since 1 July 2003, the European Union has made it compulsory to use certified equipment (electrical or non-electric) when it is to be installed in areas where the atmosphere is potentially explosive.
■ The certification must be established by an approved organization in accordance with the 2014/34/EU directive.
■ The organization certifies that the product complies with the health and safety requirements defined in the European directive and the international standards.
■ The certificate indicates, via the marking, the product's category and accordingly the zone and the atmosphere in which it can be used.
■ Cubicles are certified as components. They will be assembled with other ATEX components (electrical, pneumatic, hydraulic, etc.), to form an end solution which must itself be ATEX certified and covered by a declaration of conformity.



Enclosures for explosive atmospheres
Introduction

ATEX cubicles from Schneider Electric

Steel

Steel enclosures
■ All the wall-mounting enclosures presented in this brochure comply with standards for protection against the potential risk of explosion in atmospheres charged with gas (G) or dust (D).
■ The Schneider Electric offer, designed to be used in group II, is classified as category 2.

Protection of equipment against explosions			ATEX	
Group *	**Category**	**Level**	**Probability**	**Zone**
I	M1	Very high	Permanent	0 / 20
	M2	High	Occasional	1 / 21
II	1	Very high	Permanent	0 / 20
	2	High	Occasional	1 / 21
	3	Normal	Accidental	2 / 22

*** I = equipment designed to be used in the mining and quarrying industries**
II = equipment designed to be used in surface industries

Zone of application of Schneider Electric ATEX wall-mounting enclosures.

■ Category 2 products can be used as category 3.
■ Our products are certified:
□ for gaseous atmospheres: in enhanced safety "e" (Ex e) but not in explosion-proof safety "d" (Ex d);
□ for dusty atmospheres: in protection by enclosure "t" or "tb".
■ The wall-mounting enclosures offer a degree of protection IP66 according to IEC 60529, exceeding the recommendations of the ATEX directive.
■ Certification of our production sites and inspection procedures guarantees observance and consistency of the quality level.

PB501817-54

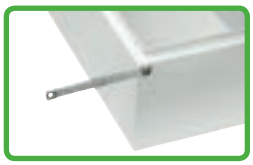


> Industrial environments, equipment rooms

Spacial S3DEX steel enclosure
■ The **Spacial S3DEX steel enclosure** is certified by the LCIE with no. LCIE 02ATEX0037U (component certification).
■ Ten sizes: from 300 x 200 x 150 mm to 1000 x 800 x 300 mm.
■ Degree of protection: IP66.
■ Ambient temperature limits: -20°C ≤ Ta ≤ +40°C.
■ Resistance to external mechanical impacts: IK10.
■ Structured finish, epoxy-polyester paint, RAL 7035 grey colour.

Enclosures for explosive atmospheres
Introduction

PB500411-32



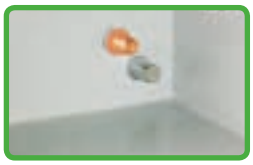
Personnel safety
Blind nut for external earth connection.

PB500407-32



Earthing studs welded to the door and inside the body.

PB502996-32



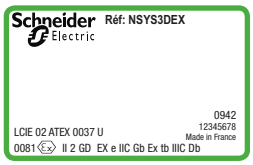
Robust
The chassis is mounted on four 10-mm shouldered backstuds.

PB500413-32



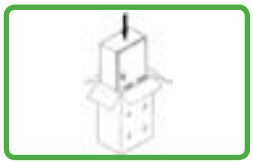
The 4 fixing holes are blocked by 4 crimped blind nuts.

DB300871



Label
Example of specific ATEX marking (description: page 585).

DB300073-12



Easy handling
- Reusable, eco-friendly packaging.
- No sharp corners.

In accordance with the ATEX directive

- The enclosures bear the marking shown page 585.
- The enclosures offer a degree of protection of IP66 according to IEC 60529, reaching the highest dust protection according to ATEX standards.
- The certification of our production sites and inspection procedures guarantees the observance and regularity of the quality level.

Protective of all applications in ATEX II2 or II3 areas –surface installations with occasional or accidental – thanks to ATEX-certified steel.

Enclosures for explosive atmospheres
Characteristics



Characteristics	Spacial S3DEX
	Protection for users ■ Earthing: The Spacial S3DEX steel cubicles are provided with M6 x 16 earth studs welded to the casing and door for equipotential connection. Earth strap to be ordered separately. ■ Closing: Above a height of 600 mm the cubicles are provided with three fastening points with connecting rods, with a single control point preventing the cubicles from being left half-open. **Casing** ■ Monobloc casing (cross structure). Gutter-shaped front profile. ■ 4 bottom shoulder studs M8 x 25 for mounting the chassis and notched bars to provide a space of 10 mm at the rear. **Door** ■ Standard fastening by 3 mm double-bar lock ■ Polyurethane door seal ■ Double-thickness 20 mm return conferring excellent rigidity; ■ 2 invisible hinges (3 above H = 800 mm) facilitate dismounting and reversibility of the door. Opening angle: 120° ■ Maximum load: 50 kg/m². ■ Pierced sections on the door, with holes of diameter 4.2 mm every 25 mm for mounting accessories: □ 2 vertical sections as of H = 400 mm; □ 2 vertical sections and 2 horizontal sections as of L = 800 mm. **Specific ATEX features** ■ 4 fastening holes stopped up by 4 crimped blind nuts. ■ One crimped M8 blind nut for an external frame earth link (strap not provided) ■ Ambient temperature: -20°C ≤ Ta ≤ +40°C ■ Marking: see page 585.
Material	Steel
Finish	Structured finish, epoxy-polyester paint
Colour	RAL 7035 grey
Ingress protection rating	IP66 (enclosures with single door) according to IEC 60529
Mechanical protection rating	IK10 (enclosures with plain door) according to IEC 62262
Fixing	■ Wall-fixing lugs: □ Passivated zinc-coated steel: reference **NSYAEFPFSC**. □ 304L stainless-steel: reference **NSYAEFPFXSC**.

[!] The accessories of the Spacial standard wall-mounting enclosures can be installed in the Spacial S3DEX wall-mounting enclosures. However, plastic accessories should not be used, due to the risk of a static charge.



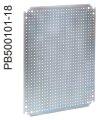
Characteristics			Spacial S3DEX
Dimensions (mm)			
Height	**Width**	**Depth**	**Références**
300	200	150	**NSYS3DEX3215**
	300	200	**NSYS3DEX3320**
400	300	200	**NSYS3DEX4320**
	400	200	**NSYS3DEX4420**
500	400	200	**NSYS3DEX5420**
600	400	200	-
		250	**NSYS3DEX6425**
	600	250	**NSYS3DEX6625**
700	500	250	**NSYS3DEX7525**
800	600	250	-
		300	**NSYS3DEX8630**
1000	800	300	**NSYS3DEX10830**

Enclosures for explosive atmospheres
Accessories

Accessories for Thalassa PLM enclosures can be installed in Thalassa PLMEX enclosures.
However, plastic accessories should not be used, due to the risk of a static charge.













Characteristics			Accessories					
Dimensions (mm)			Mounting plates				Mixed symmetrical chassis	Step slides
			Plain	Silkscreened	Microperforated	Telequick		
Height	Width	Depth						
300	200	150	**NSYMM32**	-	-	**NSYMR32**	-	-
	300	200	**NSYMM33**	-	**NSYMF33**	**NSYMR33**	**NSYMD33**	**NSYSDCR200**
308	255	160	**NSYMM3025**	-	-	**NSYMR3025**	-	-
400	300	200	**NSYMM43**	**NSYMS43**	**NSYMF43**	**NSYMR43**	**NSYMD43**	**NSYSDCR200**
	400	200	**NSYMM44**	**NSYMS44**	**NSYMF44**	-	-	**NSYSDCR200**
430	330	200	**NSYMM43**	**NSYMS43**	**NSYMF43**	**NSYMR43**	-	**NSYDPLM200**
500	400	200	**NSYMM54**	**NSYMS54**	**NSYMF54**	**NSYMR54**	**NSYMD54**	**NSYSDCR200**
530	430	200	**NSYMM54**	**NSYMS54**	**NSYMF54**	**NSYMR54**	-	**NSYDPLM200**
600	400	200	**NSYMM64**	**NSYMS64**	**NSYMF64**	**NSYMR64**	**NSYMD64**	**NSYSDCR200**
		250	**NSYMM64**	**NSYMS46**	**NSYMF64**	**NSYMR64**	**NSYMD64**	**NSYSDCR250**
	600	250	**NSYMM66**	**NSYMS66**	**NSYMF66**	**NSYMR66**	**NSYMD66**	**NSYSDCR250**
647	436	250	**NSYMM64**	**NSYMS64**	**NSYMF64**	**NSYMR64**	-	**NSYDPLM250**
700	500	250	**NSYMM75**	**NSYMS75**	**NSYMF75**	**NSYMR75**	**NSYMD75**	**NSYSDCR250**
747	536	300	**NSYMM75**	**NSYMS75**	**NSYMF75**	**NSYMR75**	-	**NSYDPLM300**
800	600	250	**NSYMM86**	**NSYMS86**	**NSYMF86**	**NSYMR86**	**NSYMD86**	**NSYSDCR250**
		300	**NSYMM86**	**NSYMS86**	**NSYMF86**	**NSYMR86**	**NSYMD86**	**NSYSDCR300**
847	636	300	**NSYMM86**	**NSYMS86**	**NSYMF86**	**NSYMR86**	-	**NSYDPLM300**
1000	800	300	**NSYMM108**	-	**NSYMF108**	**NSYMR108**	**NSYMD108**	**NSYSDCR300**
1056	852	350	**NSYMM108**	-	**NSYMF108**	**NSYMR108**	-	**NSYDPLM350**

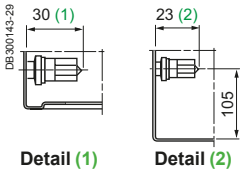
Enclosures for explosive atmospheres
Dimensions

Spacial S3DEX

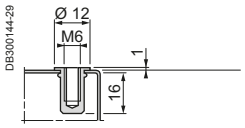
1-door enclosure

A: Height
B: Width
C: Depth

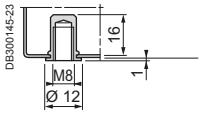
(1) 4 M8 x 25 mm backstuds.
(2) 2 M6 x 17.5 mm earthing studs.
(3) Stud centre-to-centre distance.
(4) Crimped blind nut centre-to-centre distance.
(5) Blind nut for external earth.



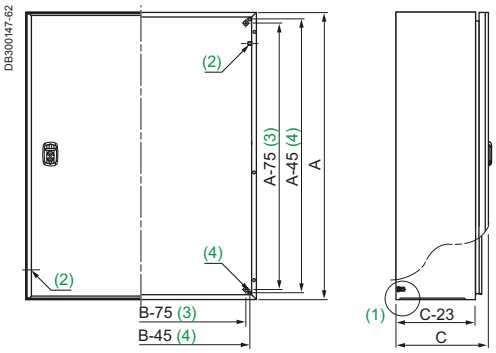
Detail (1) **Detail (2)**

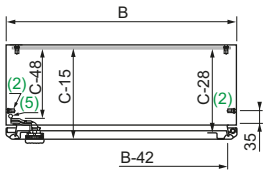


Detail (4)
4 crimped blind nuts for direct fixing of the fixing lugs

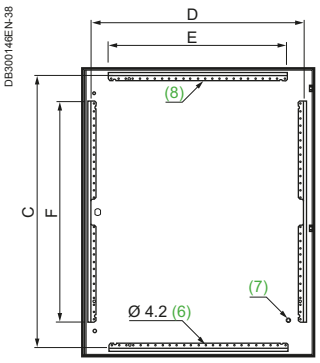


Detail (5)
1 crimped blind nut for the external earth





Perforated rails on the door



(6) Perforations with a pitch of 25 mm.
(7) 1 M6 x 17.5 mm earthing stud.
(8) The doors of enclosures with dimensions of less than 800 x 600 mm do not have horizontal wire guides.

Enclosure (8)		Perforated rails on the door (mm)			
Height (A) (mm)	Width (B) (mm)	Vertical		Horizontal	
		F	D	E	C
400	300	320	237	-	-
	400	320	337	-	-
600	400	370	337	-	-
	600	370	537	-	-
700	500	470	437	-	-
800	600	570	537	-	-
1000	800	770	737	620	949

Human-Machine Interface Solutions

Steel

> Indoor non-clean industrial environment

Control enclosure with suspension system

PB500420-45



Control Desks

PB501195-23



PB501200-33



PB501199-29



PC racks

PB500501-34



Stainless-steel

> Demanding industrial environment

Control Desks

PB501267-40

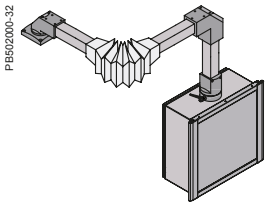


PC racks

PB501228-67



Human-Machine Interface



Spacial S3CM Control enclosure with suspension system

The Spacial S3CM offer for human-machine interface combines **robustness** with **aesthetics** and **ergonomics**. Consist of:

- **control enclosure**,
- a **keyboard-box**,
- a **suspension system** of arms and joints, for a fixed or rotating solutions,
- and **support accessories**.

> See page 450



Spacial SD Control desks

The range of Spacial SD control desks provides all the functions required of a workstation intended for industrial applications.
Spacial SD offers two clearly differentiated solutions:

- the **SD Compact control desk**,
- the **SD Control desk with console**.

The range has protection ratings of IP55 and IK10, which guarantee the safety and the protection of the installed devices.

> See page 460



Spacial SF suitable PC rack

The Spacial SF PC rack is designed to protect and control computer equipment in an industrial environments.
Access to the various functions and working heights, guaranteeing optimum comfort.
The roof and panels, fixed from the inside, prevent access by unauthorised personnel.

> See page 476



Spacial SDX Control desks

The Spacial SDX range of control desks offers all the functions required to set up a control station that meets the industrial needs of applications in harsh environments or in the food and beverage sector.
Easy to implement, compatible with dialogue components, guaranteeing the security and protection of control devices, these control desks, with their range of dimensions, meet the strictest needs of their users.

> See page 461



Spacial SMX monobloc PC rack

The stainless-steel monobloc PC racks have been especially designed to protect computer equipment installed in corrosive or specially environments that require washing or exposure to sprays of liquid.
Access to the various functions and working heights, guaranteeing optimum comfort.

> See page 480

Human-Machine Interface
Introduction

> The **Spacial S3CM offer** for human-machine dialogue consists of:
- control enclosures
- a box-keyboard
- a system of arms and joints fixed or rotating
- accessories.

The global dialogue system combines robustness with aesthetics and ergonomics.

PB500300-75



Human-Machine Interface Solutions

PB500433-33



Robust
■ 2 tube sizes in extruded steel, 50 and 80 mm square, thickness 40/10^{e} mm.
■ Top wall reinforced by a plate with a thickness of 30/10^{e} mm.

PB500418-29



Aesthetics
■ Extruded aluminium rail frame.
RAL 7040 paint: frame.
RAL 7035 paint: enclosure.
■ Customisation to your image or the aesthetics of your machine: consult us.

PB500446-37



Ergonomics
Frame designed for handling the enclosure and facilitating the usage by the operator.

PB500439-21



Easy
Easy access to the equipment by a rear door, opening to 120°.
■ Direct installation of accessories on the enclosure frame rail:
□ vertical document support,
□ keyboard support,
□ laptop computer support.
■ A box-keyboard is installed directly on the enclosure.

PB500300



Flexibility
Rotation through 170°; complete range of joints, fixed or rotating.

This range can be configured according to your needs

4 differents services available:

- Assemble to order
- Mounting of standard accessories
- Painting
- Machining

See page 488 for details or consult our web site www.se.com

Human-Machine Interface
Introduction

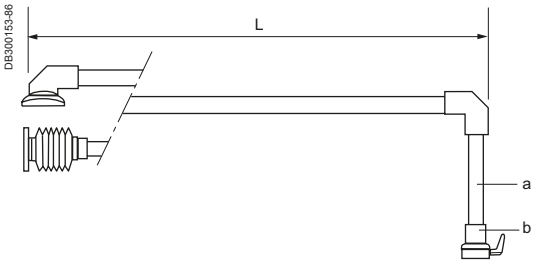
Every model is suitable for tubes with a square section of:
- **50 mm for medium loads,**
- **80 mm for heavy loads**

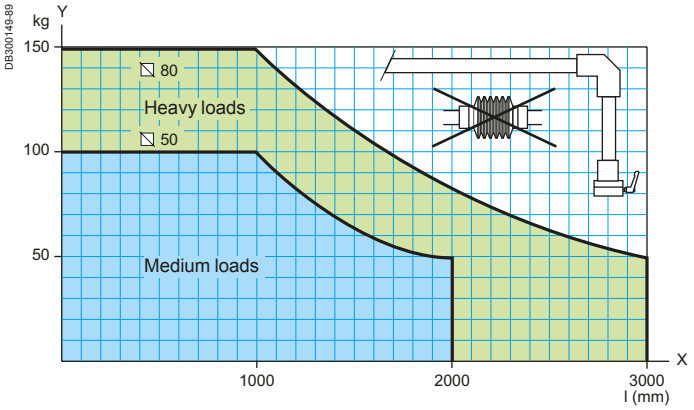
(see selection table on page 458).

Steps to choose the suspension system (medium or heavy loads)

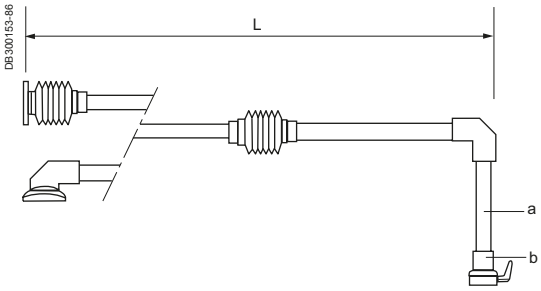
1 - Define the total load of the system*: a + b + enclosure + installed equipment (Y axis).
2 - Define the length of arm L (X axe).
3 - Define the configuration:

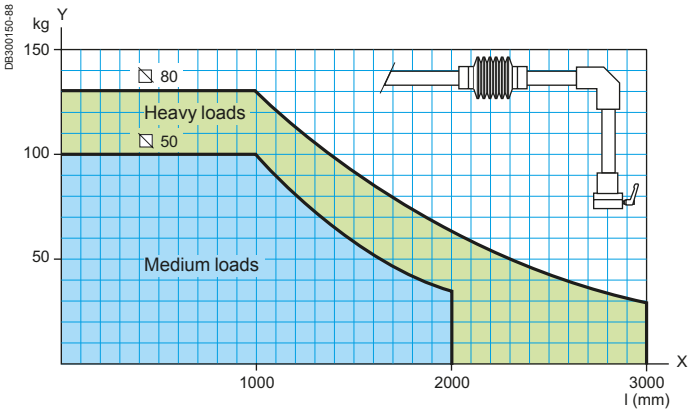
■ Suspension system **without** intermediate joint.





■ Suspension system **with** intermediate joint.



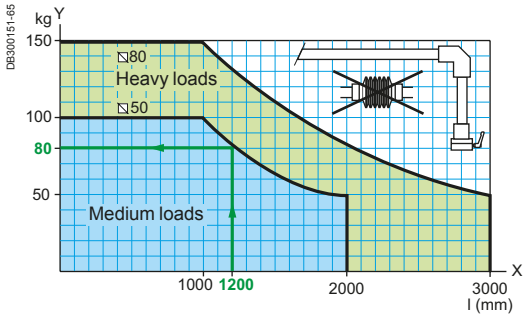


** The load (a + b + enclosure + installed equipment) must be less than the maximum load.*

Example

1 - Total load (kg) = 80 kg.
2 - Length (L) = 1200 mm.
3 - Suspension system without intermediate joint.

Recommended system
> Medium loads ⌀ 50.



Human-Machine Interface
Characteristics

PB500431-32



Perforated rails installed on lateral studs.

PB500432-49



Rear door with double-bar lock.

PB500417-33



Detail of the reinforcement plate.

PB500434-44



Fixing of the trim frame by screws.

PB500435-66



Characteristics	Spacial S3CM
	The control enclosures consist of: ■ A steel body equipped with: □ reinforcement plate: the top wall is reinforced by a plate (3 mm) and pierced with a hole Ø 54 or 87 mm (according to the reference) to allow hanging installation of the enclosure, □ 4 welded studs on the 2 inner vertical walls, for fixing the rails, □ 2 rails (with drill holes) for installing equipment, □ a rear door, opening to 120° and closing with double-bar lock. ■ An aluminium front face (2.5 mm thick): □ this surface is protected on both sides by a plastic film, allowing the installation of the dialogue elements, □ a trim frame made from 4 extruded-aluminium rails. Structured finish, epoxy-polyester powder, RAL 7040 grey colour (other colours on demand). ■ The design of these rails takes into account the accessory mounting functions (lamp, document support, keyboard support, laptop support, etc.), the ergonomics for handling the enclosure and its overall aesthetics.
Finish	Structured finish, epoxy-polyester powder
Colour	RAL 7035 grey
Ingress protection rating	IP54 according to IEC 60529
Mechanical protection rating	IK10 according to IEC 62262

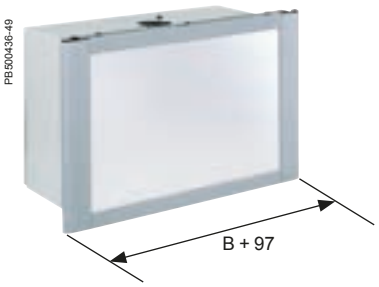
Enclosure dimensions (mm)			Enclosure load (kg)	Tube section (mm)	References
Height	Width	Depth			
300	300	200	8.6	50	**NSYS3CM303020**
	400	200	9.5	50	**NSYS3CM304020**
400	400	200	11.4	50	**NSYS3CM404020**
	600	250	17.9	50	**NSYS3CM406025***
500	500	250	20.2	50	**NSYS3CM505025**
600	600	200	26.5	50	**NSYS3CM606020***
	800	300	34.9	80	**NSYS3CM608030**
800	600	300	33.6	80	**NSYS3CM806030***

** Enclosure equipped with a cable-gland plate.*

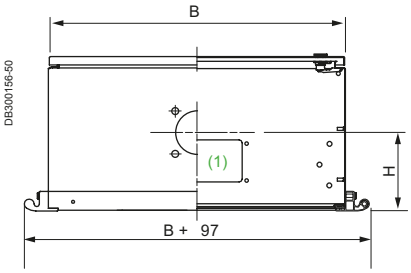
Human-Machine Interface
Dimensions

Enclosure dimensions (mm)								Cable-gland plate	Ø Top hole (mm)	Fig.	Enclosure
Height (A)	Width (B)	Depth (C)	D	F	G	H	J				References
300	300	200	162	262	262	100	45	-	54	1	**NSYS3CM303020**
	400	200	162	362	262	100	45	-	54	1	**NSYS3CM304020**
400	400	200	262	362	362	100	45	-	54	1	**NSYS3CM404020**
	600	250	262	562	362	125	75	■	54	1	**NSYS3CM406025***
500	500	250	362	462	462	125	75	-	54	1	**NSYS3CM505025**
600	600	200	462	562	562	100	45	■	54	1	**NSYS3CM606020***
	800	300	462	762	562	150	100	-	87	2	**NSYS3CM608030**
800	600	300	662	562	762	150	100	■	87	2	**NSYS3CM806030***

** Enclosure equipped with a cable-gland plate.*



W600 enclosure + box-keyboard installation



(1) Cable-gland plate.

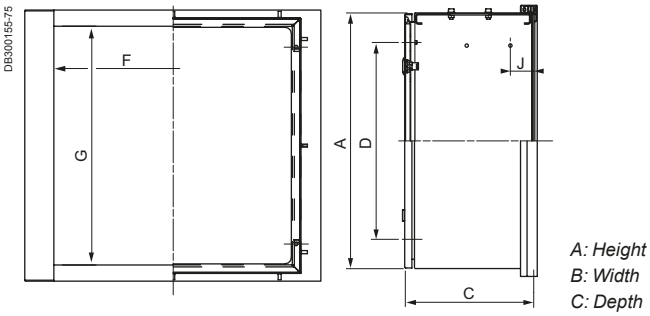


Figure 1
Enclosure depth from 200 to 250

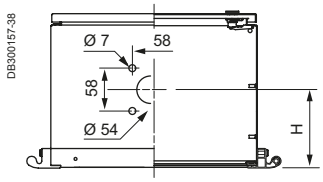
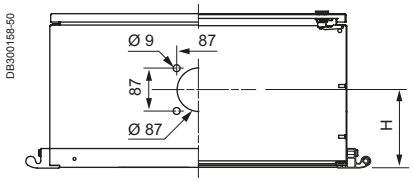
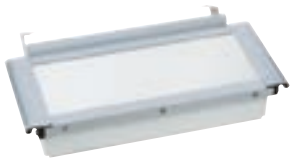


Figure 2
Enclosure depth 300



Box-keyboard for control enclosure

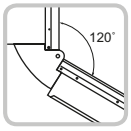
PB500437-42



PB500438-35



DB300160-21



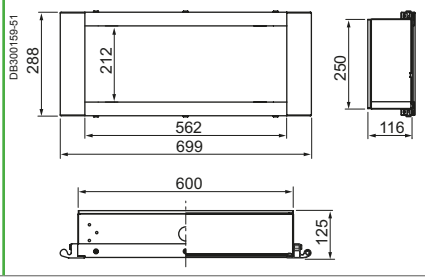
Detail from the installation of the box-keyboard on the control enclosure.

Characteristics	Box-keyboard for control enclosure
	The box is installed on the control enclosures with a width of 600 mm. It then has an angle of 120° with its front face. All the accessories required for installation are delivered with 2 brackets and 1 trim rail, 1 hose for cable entry. The box for the keyboard consists of: ■ a steel body, structured finish, epoxy-polyester powder, RAL 7035 grey colour, with a screwed cover, ■ an aluminium front face (2.5 mm thick) for installing a keyboard, ■ a trim frame made from 2 extruded-aluminium rails guaranteeing ergonomic handling of the box and the aesthetics of the unit. The frame and the front face are delivered assembled. Structured finish, epoxy-polyester powder, RAL 7040 grey colour.
Ingress protection rating	IP54 according to IEC 60529
Mechanical protection rating	IK10 according to IEC 62262
Weight	8 kg

Reference

Height (mm)	Width (mm)	Depth (mm)	
250	600	116	**NSYCMT2560110**

DB300159-51



PB500439-26



Support

PB500442-31



PB500441-30

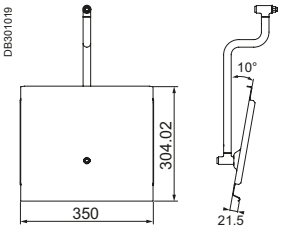


Characteristics	Support	
	Laptop computer	**Keyboard**
	Installation on the left or right rail of the frame of the control enclosure.	
Material	Steel	
Finish	Structured finish, epoxy-polyester powder	
Colour	RAL 7035 grey	
Thickness	15/10e mm	15/10e mm
Weight	2.04 kg	2.16 kg

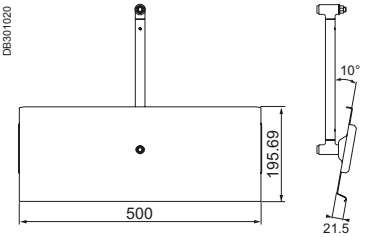
References

Height (mm)	Width (mm)	Depth (mm)		
315	230	-	-	-
-	350	310	**NSYCMBPC**	-
-	500	200	-	**NSYCMBPT**

DB301019

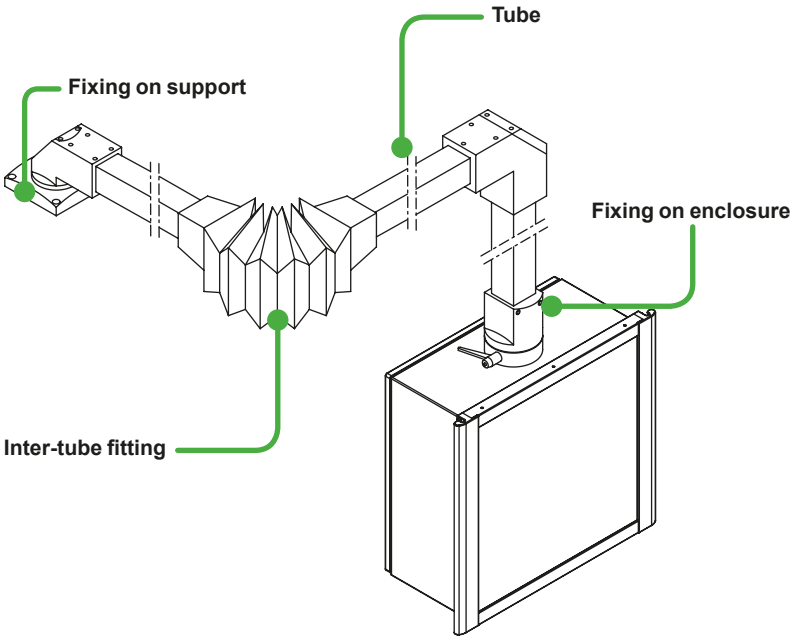


DB301020

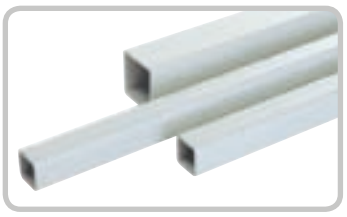


Human-Machine Interface
Specific accessories

Suspension system



PB500422

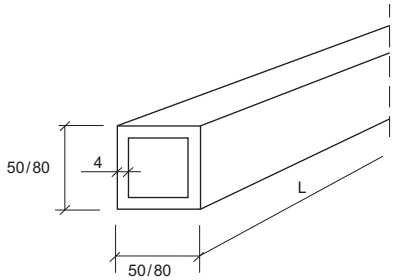


Tube

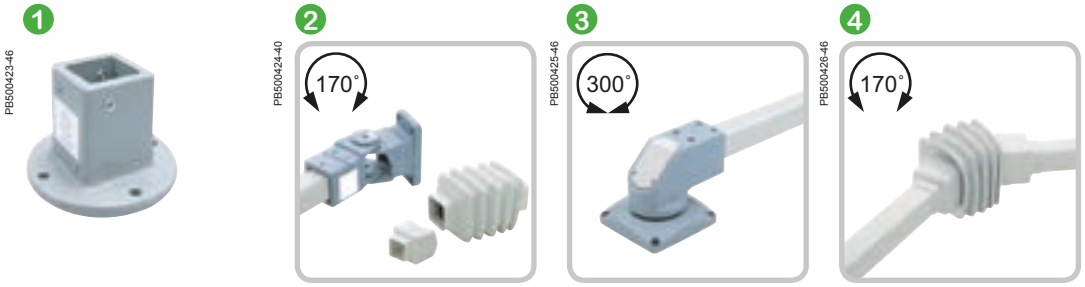
- The tubes are available in:
  - 2 sizes: square of 50 and 80 mm,
  - 4 lengths: 0.5, 1, 1.5 and 2 m.
- **Material:** extruded steel.
- **Finish:** structured finish, powder.
- **Colour:** RAL 7035 grey.
- **Thickness:** 40/10^{e} mm.
- **Weights:**
  - 50 x 50: 6.5 kg/m,
  - 80 x 80: 10.5 kg/m.

Joints	50 mm square	80 mm square
Length (m)	References	
0.5	NSYCMT5005	NSYCMT8005
1	NSYCMT5010	NSYCMT8010
1.5	NSYCMT5015	NSYCMT8015
2	NSYCMT5020	NSYCMT8020

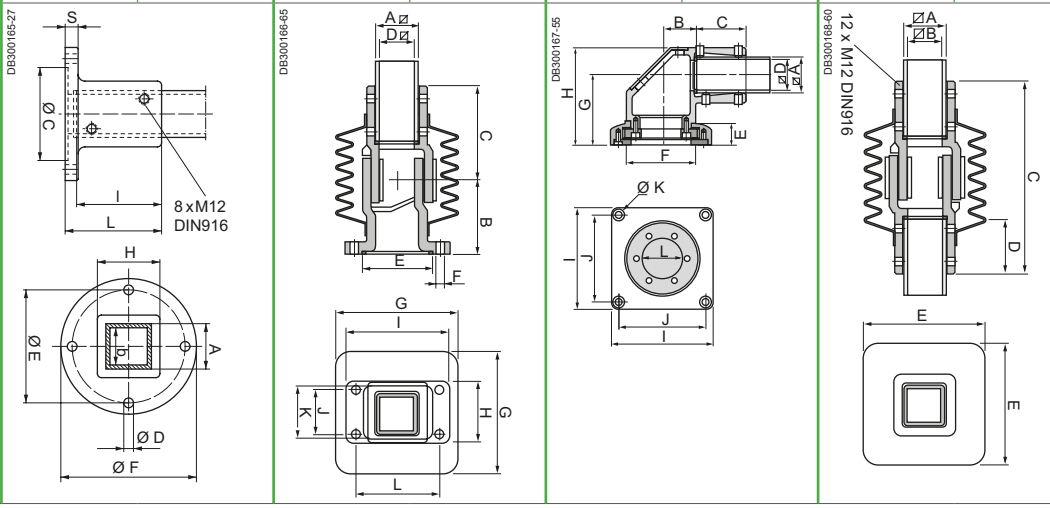
DB300174-62

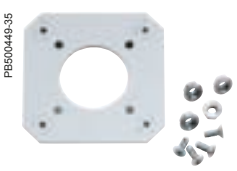


Suspension system



Characteristics	Fixed base		Wall fixing with joint		Rotating straight fitting		Horizontal inter-tube joint	
	Support foot for direct horizontal or vertical connection.		Device allowing rotation through 170° of a horizontal tube, with a square section of 50 or 80 mm, and its fixing on a vertical surface. Protection by bellows, RAL 7035 grey colour. Possibility of passing cables through the inside of the joint.		Device allowing the fixing and rotation through 300° of tubes, with a square section of 50 or 80 mm, in horizontal position. Without blocking the chosen position. Fixing by 4 screws, not included.		Device allowing the linking and rotation through 170° of 2 horizontal tubes, with a square section of 50 or 80 mm. Protection by bellows, RAL 7035 grey colour. Possibility of passing cables through the inside of the joint.	
Material	Moulded steel		Moulded steel		Moulded steel		Moulded steel	
Colour	RAL 7040 grey		RAL 7040 grey		RAL 7040 grey		RAL 7040 grey	
Weight (kg)	3.25	7	4.35	9.45	5.4	15.7	4.25	10
Dimensions (mm)								
Ø A	**50 mm square**	**80 mm square**	**50 mm square**	**80 mm square**	**50 mm square**	**80 mm square**	**50 mm square**	**80 mm square**
B	42	72	92	115	50	74	42	72
C	105	134	118	160	68	98	236	320
D	11	11	42	72	42	72	67	94
E	125	173	85	130	30	45	148	190
F	152	201	11	11	96	144	-	-
G	-	-	148	190	96	141.5	-	-
H	72	111	80	115	134	195.5	-	-
I	97	126	130	175	140	210	-	-
J	-	-	55	90	120	180	-	-
K	-	-	68	103	9	13	-	-
L	110	140	105	150	55	84	-	-
S	15	16	-	-	-	-	-	-
References								
	NSYCMUMR50	**NSYCMUMR80**	**NSYCMUMA50**	**NSYCMUMA80**	**NSYCMUMC50**	**NSYCMUMC80**	**NSYCMUIA50**	**NSYCMUIA80**



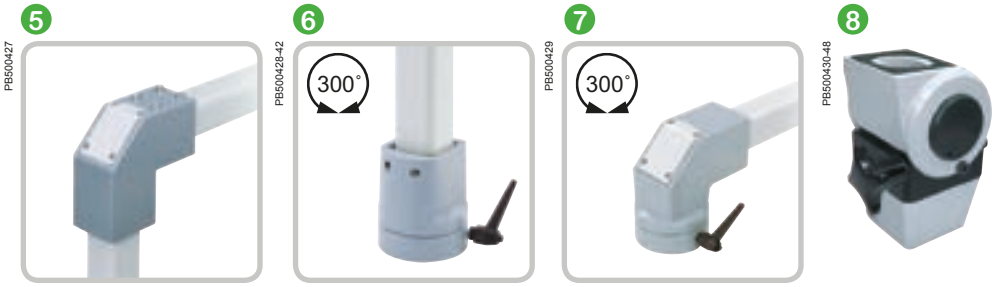


Adapter part for enclosure D300 / Ø 80 mm

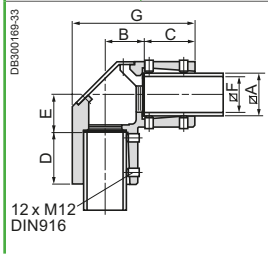
Reference
NSYCMUCPAD87

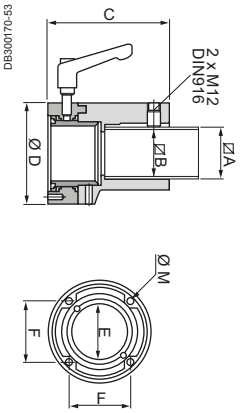
Human-Machine Interface
Accessories

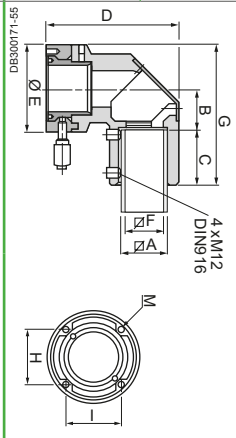
Suspension system

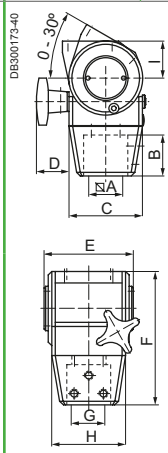


Characteristics	Fixed bracket		Rotating fixing on enclosure		Rotating fixing in bracket on enclosure		Tilting fixing on enclosure	
	Our system of tubes and joints, fixed or rotating, enables all the solutions to respond to the installation needs of the control enclosures for human-machine dialogue. Device allowing the combination and fixing of a horizontal tube with a vertical tube.		Device allowing the fixing and rotation through 300° of tubes, with a square section of 50 or 80 mm, in vertical position. System for blocking in the chosen position. Fixing through the support surface by 4 screws.		Devices allowing the fixing and rotation through 300° of tubes, with a square section of 50 or 80 mm, in horizontal position. System for blocking in the chosen position. Fixing through the support surface by 4 screws.		This fixing allows the enclosures to be tilted up to 30°. System for blocking in the chosen position. It is installed on enclosures with depths of 200 and 250 mm. The installation on enclosures with a depth of 300 mm requires an adapter plate.	
Material	Aluminium		Aluminium		Aluminium		Aluminium + PA	
Colour	RAL 7040 grey		RAL 7040 grey		RAL 7040 grey		RAL 7040 grey + PA black	
Weight (kg)	1.35	2.4	1.25	3.1	2	6.55	2.98	3.10
Dimensions (mm)								
⌀ A	**50 mm square**	**80 mm square**	**50 mm square**	**80 mm square**	**50 mm square**	**80 mm square**	**50 mm square**	**80 mm square**
B	46	56	42	72	46	56	55	55
C	60	83	115	145	60	83	100	100
D	60	83	96	139	147	190	44	44
E	46	56	52.3	85	96	139	121	121
F	42	70	58	87	42	72	182	182
G	144	193	-	-	154	208.5	50	50
H	-	-	-	-	42	70	100	100
I	-	-	-	-	58	87	50	50
M	-	-	M6	M8	M6	M8	-	-
References								
	NSYCMUTC50	**NSYCMUTC80**	**NSYCMUCR50**	**NSYCMUCR80**	**NSYCMUCC50**	**NSYCMUCC80**	**NSYCMUCP50**	**NSYCMUCP80**







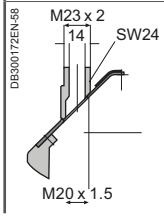


Adapter for signalling beacon



- It is installed on fixed brackets ref. **NSYCMUTC50** and **NSYCMUTC80**.
- **Material:** aluminium.
- **Finish:** structured finish, powder.
- **Colour:** RAL 7040 grey.

Weight	0.025 kg	0.08 kg
⌀ A	50 mm square	80 mm square
References		
	NSYCMACS50	**NSYCMACS80**



Human-Machine Interface
Selection guide

Enclosure		References	
	H x W x D (mm) top wall	Tube section Ø 50 mm	Ø 80 mm
 PB500421-24	300 x 300 x 200	NSYS3CM303020	-
	300 x 400 x 200	NSYS3CM304020	-
	400 x 400 x 200	NSYS3CM404020	-
	400 x 600 x 250	NSYS3CM406025*	-
	500 x 500 x 250	NSYS3CM505025	-
	600 x 600 x 200	NSYS3CM606020*	-
	600 x 800 x 300	-	NSYS3CM608030
	800 x 600 x 300	-	NSYS3CM806030*

Tube		References	
	Length (m)	Tube section Ø 50 mm	Ø 80 mm
 PB500422-33	0.5	NSYCMT5005	NSYCMT8005
	1	NSYCMT5010	NSYCMT8010
	1.5	NSYCMT5015	NSYCMT8015
	2	NSYCMT5020	NSYCMT8020

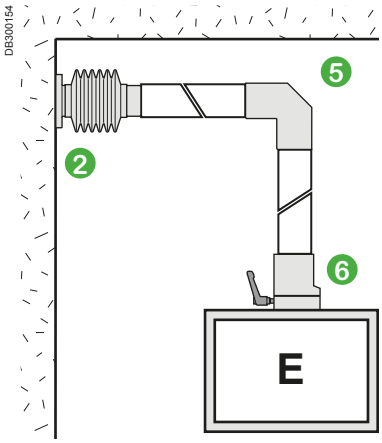
Fixing on support (steel material)		References	
		Tube section Ø 50 mm	Ø 80 mm
 PB500423-26	1 Fixed base	NSYCMUMR50	NSYCMUMR80
 PB500424-25	2 Wall fixing with joint	NSYCMUMA50	NSYCMUMA80
 PB500425-30	3 Rotating straight fitting	NSYCMUMC50	NSYCMUMC80

Inter-tube fitting (aluminium material)		References	
		Tube section Ø 50 mm	Ø 80 mm
 PB500426-28	4 Horizontal inter-tube joint	NSYCMUIA50	NSYCMUIA80
 PB500427-24	5 Fixed bracket	NSYCMUTC50	NSYCMUTC80

Fixing on enclosure (aluminium material)		References	
		Tube section Ø 50 mm	Ø 80 mm
 PB500428-18	6 Rotating fixing on enclosure	NSYCMUCR50	NSYCMUCR80
 PB500429-28	7 Rotating fixing in bracket on enclosure	NSYCMUCC50	NSYCMUCC80
 PB500430-23	8 Tilting fixing on enclosure	NSYCMUCP50	NSYCMUCP80 (1)

** Enclosure equipped with a cable-gland plate.*
(1) Installation on an enclosure D300 requires plate ref. ***NSYCMUCPAD87*** *(see page 456).*

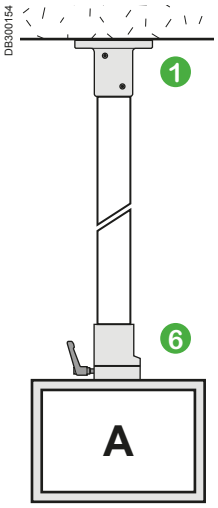
Human-Machine Interface
Examples



Fixing on support
2 See page 456

Inter-tube fitting
5 See page 457

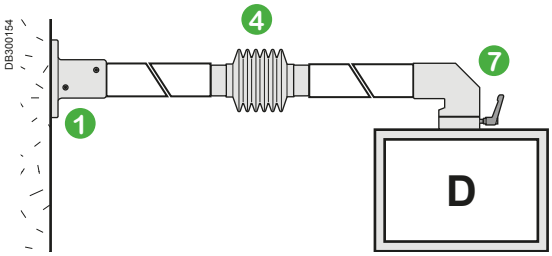
Fixing on enclosure
6 See page 457



Fixing on support
1 See page 456

Inter-tube fitting
-

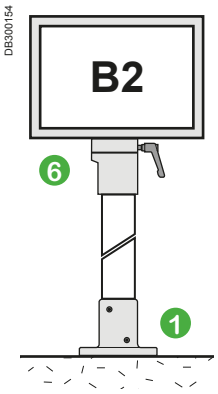
Fixing on enclosure
6 See page 457



Fixing on support
1 See page 456

Inter-tube fitting
4 See page 456

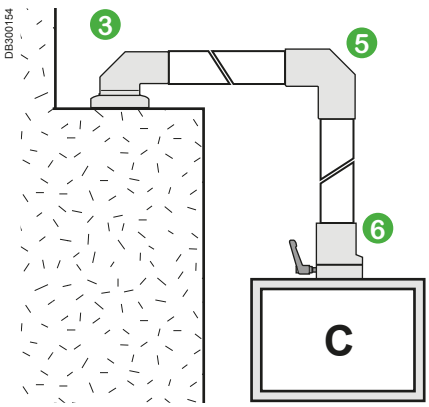
Fixing on enclosure
7 See page 457



Fixing on support
1 See page 456

Inter-tube fitting
-

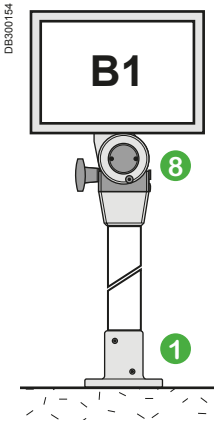
Fixing on enclosure
6 See page 457



Fixing on support
3 See page 456

Inter-tube fitting
5 See page 457

Fixing on enclosure
6 See page 457



Fixing on support
1 See page 456

Inter-tube fitting
-

Fixing on enclosure
8 See page 457

Human-Machine Interface
Introduction

SD

> The range of **Spacial SD** control desks provides all the functions required of a workstation intended for industrial and infrastructure applications.

PB501202-46



PB501201-46



PB501208-46



Steel control desks

PB501202-16



Accessibility

There are two versions of the Compact control desk:
- Front accessibility: designed for straightforward solutions.
- Front and rear accessibility through a removable panel: enables the installation of two adjoining plates and to work at the rear.

The control desk with console offers full accessibility, since it is fully accessible from the rear thanks to the 3-point closure door it includes.
For Spacial SD, the accessibility which allows quick and easy work is one of its main priorities.
For this reason, its design excludes the central upright.

PB501197-32



Easy

The console opens easily and safely thanks to the installed pneumatic opening lid stays.
Cable entry is optimised because all the models of the range include a cable-gland plate with two adjustable parts.

PB501199-14



Convenience

The possibility of connecting the modular control desk to the modular consoles affords multiple combinations.
The opening direction of the door can be changed quickly thanks to the included hinges.

PB501194-19



Compatibility

Furthermore, the Spacial SD control desk is compatible with most of the accessories of the Spacial SF and SM ranges.

This range can be configured according to your needs

4 differents services available:

- Assemble to order
- Mounting of standard accessories
- Painting
- Machining

See page 488 for details or consult our web site www.se.com

Human-Machine Interface
Introduction

SDX

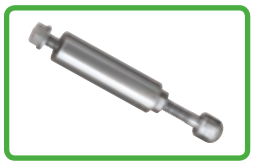
> The association of a monobloc control desk with one or more consoles enables all combinations. Complete accessibility to the inside of the control desk thanks to its design without intermediate crossbars.

PB501224-56



Stainless-steel control desks

PB502438-5



Hygiene
The high quality of the standard finish enables very easy maintenance while avoiding contamination. The hygienic feet made from 316L stainless-steel, adjustable between 140 mm and 200 mm height, make it easier to clean under the enclosures.

PB501232-32



Resistance to corrosion
High resistance to corrosion. 304L (and 316L on demand) stainless-steels provide the best solutions for applications
in extremely demanding environments.

PB502481-30



Compatibility with the other ranges
- ■ Stainless-steel accessories:
- □ plinths, locks.
- ■ Accessories of the steel control desks offer:
- □ mounting plate, pneumatic opening stay, etc.

PB501269

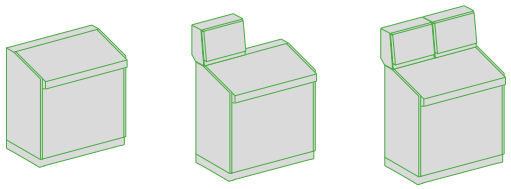


Convenient
The desk lid and the console are equipped with pneumatic opening stays (opening to 75°) allowing complete access to the inside and preventing sudden falls of the console or the hinged cover.
Equipped with adjustment rails for adjusting the depth of the mounting plate. Removable rear panel.

Examples of associations

Consoles and control desks

DE300593



Multiple combinations available.

This range can be configured according to your needs

4 differents services available:

- Assemble to order
- Mounting of standard accessories
- Painting
- Machining

See page 488 for details or consult our web site www.se.com

Human-Machine Interface
Characteristics

SD



SD



Characteristics	Compact control desk	Control desk with console
	This range is available in 4 widths with fixed rear panel. Full accessibility is provided from the front (no central upright). Easy removable and reversible door opening to 120°. Locking by 3-mm doublebar lock (other inserts or cylinders also available, to be ordered separately, see page 472). Desk lid equipped with a pneumatic opening stay. Opens to 75°. Perforated reinforcement rails with a pitch of 25 mm. Control desk equipped with adjustment rails with a pitch of 25 mm and brackets allowing adjustment of the mounting plate depth. Cable-gland plate with 2 adjustable parts, with polyurethane gasket. M8 x 18-mm earthing bolt for equipotential connection between the door and the body.	Full accessibility is provided from the front and rear. Easy removable and reversible front door, opening to 120°. Locking by two-point locks with 3-mm double-bar insert. Desk lid equipped with a pneumatic opening stay. Opens to 75°. Perforated reinforcement rails with a pitch of 25 mm for quick installation of cables and cable ducts. Locking by two-point locks with 3-mm double-bar insert. Hinged console cover equipped with a pneumatic opening stay. Opens to 75°. Locking by two-point locks with 3-mm double-bar insert. Easy removable and reversible rear door, opening to 120°. Locking by three-point lock with flat escutcheon, 5-mm double-bar insert. One entry cable-gland plate, with polyurethane gasket. Control desk equipped with adjustment rails with a pitch of 25 mm and brackets allowing adjustment of the mounting plate depth. M8 x 18-mm earthing bolt for equipotential connection between the door and the body.
Material	Welded folded steel	Welded folded steel
Finish	Structured finish, epoxy-polyester powder	Structured finish, epoxy-polyester powder
Colour	RAL 7035 grey	RAL 7035 grey
Thickness	15/10^{e} mm	15/10^{e} mm
Ingress protection rating according to IEC 60529	IP55	IP55
Mechanical protection rating according to IEC 62262	IK10	IK10
Options	It can also be equipped with a mounting plate, see page 474	Plinth options see page 470. It can also be equipped with a mounting plate, see options page 474. Locking system: other inserts or cylinders also available, see page 472. The console can support the installation of a 14" screen with an optional PC support plate, see page 474.

References

Dimensions (mm)			Door number		No. Front doors	No. Rear doors	No. cable gland plates	
Width (B)	Height	Depth	1	2				
600	1000	469	**NSYSD6**	-	-	-	-	-
		500	-	-	-	-	-	-
		600	-	-	-	-	-	-
800	1000	469	**NSYSD8**	-	-	-	-	-
		500	-	-	-	-	-	-
		600	-	-	-	-	-	-
	1400	845	-	-	1	1	1	**NSYSDF88**
		1045	-	-	1	1	1	**NSYSDF810**
1000	1000	469	-	**NSYSD10**	-	-	-	-
		500	-	-	-	-	-	-
		600	-	-	-	-	-	-
	1400	845	-	-	2	2	1	**NSYSDF108**
		1045	-	-	2	2	1	**NSYSDF1010**
1200	1000	469	-	**NSYSD12**	-	-	-	-
		500	-	-	-	-	-	-
		600	-	-	-	-	-	-
	1400	845	-	-	2	2	1	**NSYSDF128**
		1045	-	-	2	2	1	**NSYSDF1210**
1600	1400	845	-	-	2	2	2	**NSYSDF168**
		1045	-	-	2	2	2	**NSYSDF1610**

Human-Machine Interface
Characteristics

SD



SDX



Compact control desk with rear panel

Removable rear panel. It enables the installation of two mounting plates back-to-back, allowing the installation of a large number of devices, while ensuring full accessibility from the front and the rear.
At the top, these control desks are equipped with cable-entry cut-outs, that allows the installation of one or more modular consoles.
Easy removable and reversible door, opening to 120°. Locking by 3-mm doublebar lock (other inserts or cylinders also available, to be ordered separately, see page 472).
Desk lid equipped with a pneumatic opening stay. Opens to 75°. Perforated reinforcement rails with a pitch of 25 mm.
Top cable-entry cut-outs covered by a entire blanking cover.
Control desk equipped with adjustment rails with a pitch of 25 mm and brackets allowing adjustment of the mounting plate depth.
Cable-gland plate with 2 adjustable parts, with polyurethane gasket.
M8 x 18-mm earthing screw for equipotential connection between the door and the body.

Welded folded steel	304L stainless-steel
Structured finish, epoxy-polyester powder paint	Scotch-Brite® brushed finish
RAL 7035 grey	-
15/10^{e} mm	15/10^{e} mm
IP55	IP55
IK10	IK10
Modular consoles to be installed on top of compact control desk. See details and combinations page 468. It can also be equipped with a mounting plate, see page 474.	Stainless-steel modular consoles to be installed on top of compact control desk. See details and combinations page 468. It can also be equipped with a mounting plate, see page 474.

Door number		Door number	
1	**2**	**1**	**2**
-	-	-	-
-	-	**NSYSDX6**	-
NSYSD6R	-	-	-
-	-	-	-
-	-	**NSYSDX8**	-
NSYSD8R	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	**NSYSDX10**
-	**NSYSD10R**	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	**NSYSDX12**
-	**NSYSD12R**	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

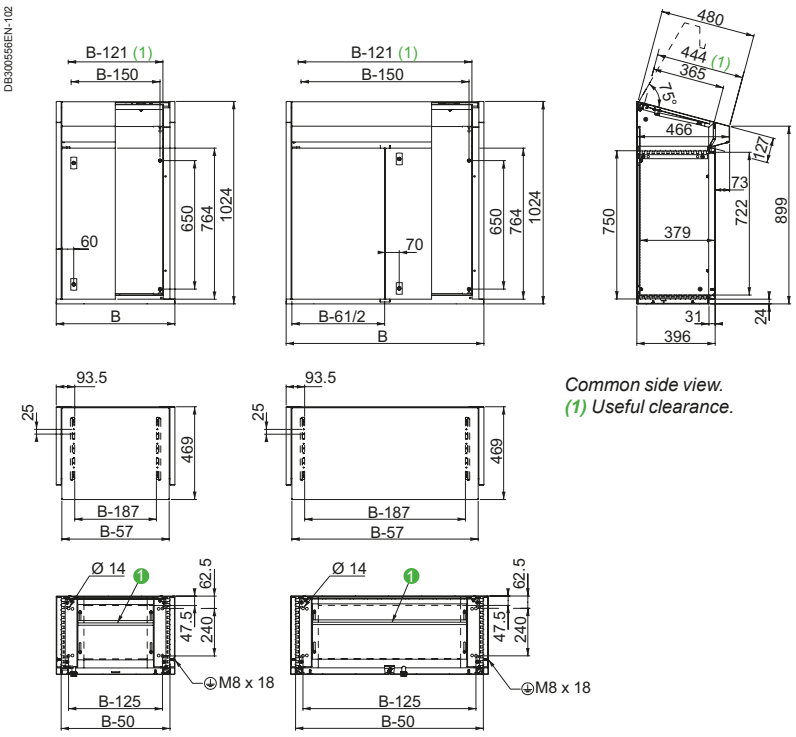
Human-Machine Interface
Dimensions

SD

Compact control desk

1 door

2 doors



Common side view.
(1) Useful clearance.

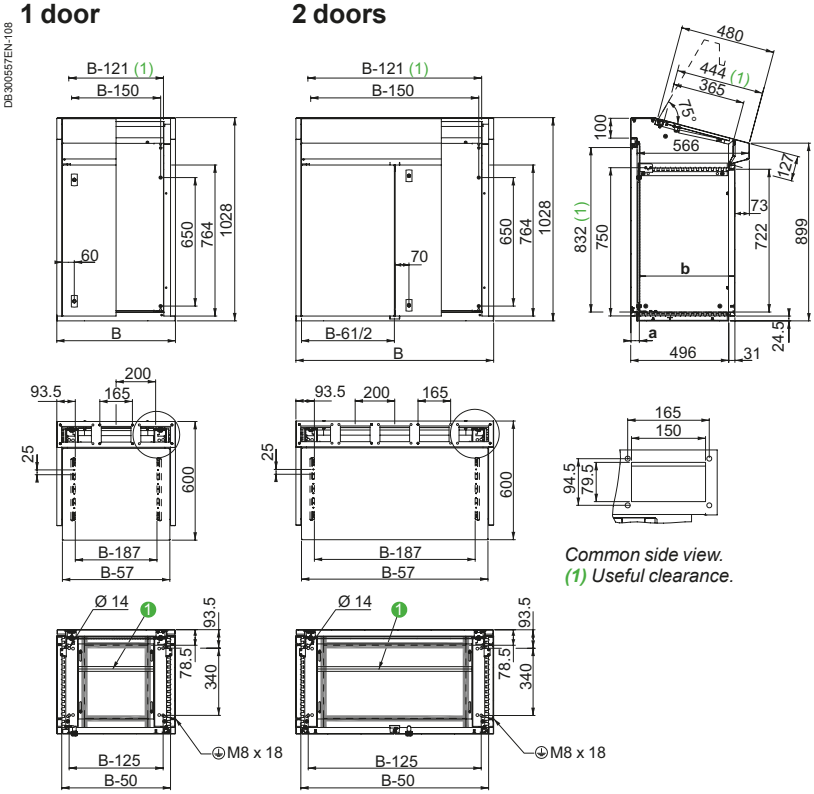
Cable-gland plate clearance dimensions (mm)	
Width	**Maximum opening**
B-280	56

SD

Compact control desks with rear panel

1 door

2 doors



Common side view.
(1) Useful clearance.

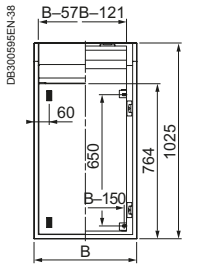
Cable-gland plate clearance dimensions (mm)	
Width	**Maximum opening**
B-280	56

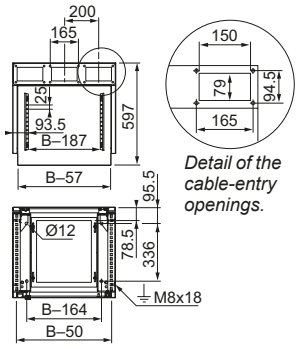
Adjustment of the depth of the mounting plate (mm)		
Depth	**Min.**	**Max.**
a	42	392
b	129	479

Human-Machine Interface
Dimensions

SDX Compact control desks with rear panel

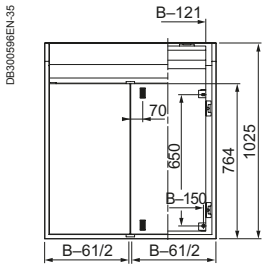
1 door

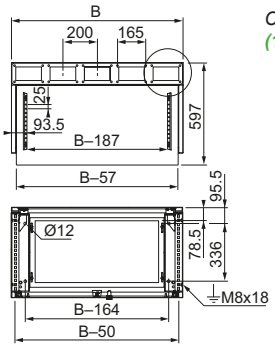


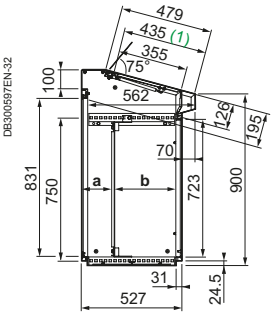


Detail of the cable-entry openings.

2 doors







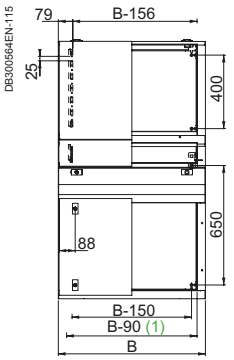
Common side view.
(1) Useful clearance.

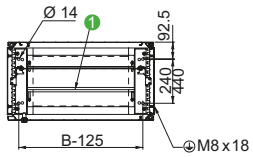
Cable-gland plate clearance dimensions (mm)	
Width	**Maximum opening**
B-280	370

Adjustment of the depth of the mounting plate (mm)		
Depth	**Min.**	**Max.**
a	45	395
b	126	476

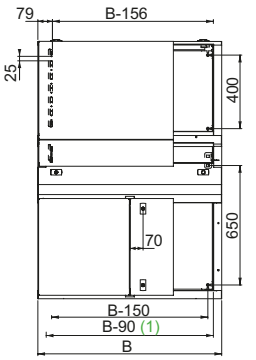
SD Control desk with console

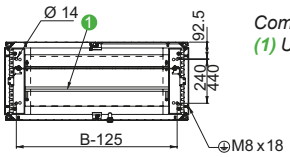
1 door

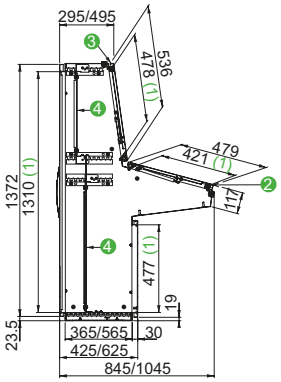




2 doors







Common side view.
(1) Useful clearance.

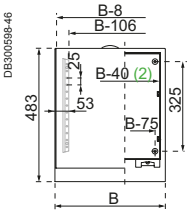
Cable-gland plate clearance dimensions (mm)	
Width	**Maximum opening**
B-280	56

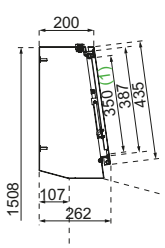
Notes	
1	1 entry cable-gland plate
2	Maximum opening of the hinged desk lid: 75°
3	Maximum opening of the hinged console cover: 75°
4	Optional mounting plate installation, see page 474

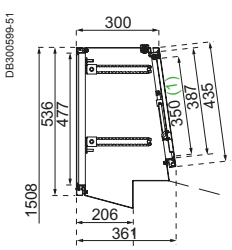
SD SDX Modular console

Depth 200 mm

Depth 300 mm







(1) Useful clearance.
(2) Same dimensions for the rear panel.

Human-Machine Interface

Specific accessories overview

PB501814-77



Composition accessories

Modular consoles

PB501206-30



Page 468

Floor

PB500330-33



Page 470

Door

PB501213-35



Page 471

Locking system

PB501216-17



Page 472

Windows

PB500995-28



Page 275

Installation accessories

Mounting acc.

PB501207-33



Page 474

Human-Machine Interface
Common accessories overview

PB502439-55



Cable management

Cable holding

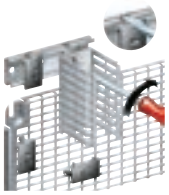
PB500966-40



Page 260

Cable ducting

PB500959-22



Page 263

Thermal management

Heaters

PB502050-29



Page 556

Ventilation

PB501044-26



Page 498

Others

Earthing

PB500084-24 PB500217-18 PB500948-88



Page 277

Human-Machine Interface
Accessories

Modular consoles

SD



SDX



Characteristics	Modular consoles	
	Hinged modular console cover equipped with a pneumatic opening stay. Opens to 75°. Locking of the hinged modular console cover by two 3-mm double-bar locks (other inserts or barrels also available, to be ordered separately, see page 472). Screw fixed rear panel equipped with step slides in the version with a depth of 300 mm.	
Material	Welded folded steel	304L stainless-steel
Finish	Structured finish, epoxy-polyester powder	Scotch-Brite® brushed finish
Colour	RAL 7035 grey	-
Thickness	15/10e mm	15/10e mm
Ingress protection rating	IP55 according to IEC 60529	IP55 according to IEC 60529
Mechanical protection rating	IK10 according to IEC 62262	IK10 according to IEC 62262
Options	The link between the control desk and the modular console requires, in certain cases, the addition of one or several blanking covers (to be ordered separately). Optional galvanised mounting plate.	

References

Dimensions (mm)			No. of cable entry cut-outs			
Width (B)	**Height**	**Depth**	**2**	**3**	**2**	**3**
400	483	200	**NSYSDC42**	-	**NSYSDCX42**	-
		300	**NSYSDC43**	-	**NSYSDCX43**	-
600	483	200	-	**NSYSDC62**	-	**NSYSDCX62**
		300	-	**NSYSDC63**	-	**NSYSDCX63**

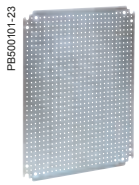
SD



SDX





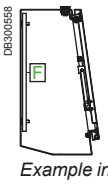




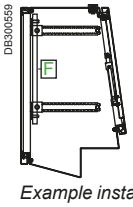
Characteristics	Blanking cover		Mounting plates for modular consoles
	To conceal the free space of the control desk when the width of the console or consoles is less than the width of the control desk. In any case, it is necessary to previously remove the top plate delivered with the control desk.		Steel mounting plates can be installed at the back of modular consoles (F). See more information about the mounting plates page 206.
Material	Steel	304L stainless-steel	Galvanized Steel
Finish	Structured finish, epoxy-polyester powder	-	-
Colour	RAL 7035 grey	-	-
Thickness	15/10e mm	15/10e mm	-
Fixing	Fixing by screws	Fixing by screws	-

References

Blanking cover length (mm)							
200			**NSYRP2**	**NSYRPX2**	-	-	-
Modular console width (mm)	**Fixing centre-to-centre distance (mm)**				**Plain mounting plate**	**Microperforated mounting plate**	**Telequick mounting plate**
	Height	**Width**					
400	325	325	-	-	**NSYMM44**	**NSYMF44**	**NSYMR44**
600	625	325	-	-	**NSYMM64**	**NSYMF64**	**NSYMR64**



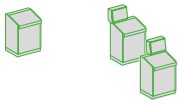
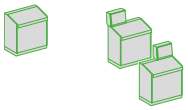
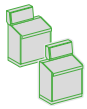
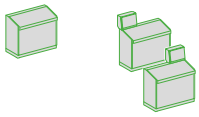
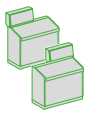
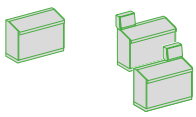
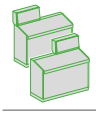
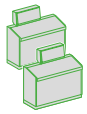
Example installation of a mounting plate in a console depth 200 mm.



Example installation of a mounting plate in a console depth 300 mm.

Human-Machine Interface
Accessories

Modular consoles

Combination examples of modular consoles installation	Compact control desk		Modular console		Blanking cover	
	Spacial SD	Spacial SDX	Spacial SD	Spacial SDX	Spacial SD	Spacial SDX
W600 mm						
	NSYSD6R	NSYSDX6	NSYSDC42 / NSYSDC43	NSYSDCX42 / NSYSDCX43	NSYRP2	NSYRPX2
	NSYSD6R	NSYSDX6	NSYSDC62 / NSYSDC63	NSYSDCX62 / NSYSDCX63	-	-
W800 mm						
	NSYSD8R	NSYSDX8	NSYSDC42 / NSYSDC43	NSYSDCX42 / NSYSDCX43	2 x NSYRP2	2 x NSYRPX2
	NSYSD8R	NSYSDX8	2 x NSYSDC42 / 2 x NSYSDC43	2 x NSYSDCX42 / 2 x NSYSDCX43	-	-
	NSYSD8R	NSYSDX8	NSYSDC62 / NSYSDC63	NSYSDCX62 / NSYSDCX63	NSYRP2	NSYRPX2
W1000 mm						
	NSYSD10R	NSYSDX10	NSYSDC42 / NSYSDC43	NSYSDCX42 / NSYSDCX43	3 x NSYRP2	3 x NSYRPX2
	NSYSD10R	NSYSDX10	NSYSDC62 / NSYSDC63	NSYSDCX62 / NSYSDCX63	2 x NSYRP2	2 x NSYRPX2
	NSYSD10R	NSYSDX10	NSYSDC62 / NSYSDC63	NSYSDCX62 / NSYSDCX63	2 x NSYRP2	2 x NSYRPX2
	NSYSD10R	NSYSDX10	NSYSDC42 + NSYSDC62 / NSYSDC43 + NSYSDC63	NSYSDCX42 + NSYSDCX62 / NSYSDCX43 + NSYSDCX63	-	-
W1200 mm						
	NSYSD12R	NSYSDX12	NSYSDC42 / NSYSDC43	NSYSDCX42 / NSYSDCX43	4 x NSYRP2	4 x NSYRPX2
	NSYSD12R	NSYSDX12	NSYSDC62 / NSYSDC63	NSYSDCX62 / NSYSDCX63	3 x NSYRP2	3 x NSYRPX2
	NSYSD12R	NSYSDX12	NSYSDC62 / NSYSDC63	NSYSDCX62 / NSYSDCX63	3 x NSYRP2	3 x NSYRPX2
	NSYSD12R	NSYSDX12	2 x NSYSDC62 / 2 x NSYSDC63	2 x NSYSDCX62 / 2 x NSYSDCX63	-	-
	NSYSD12R	NSYSDX12	NSYSDC42 + NSYSDC62 / NSYSDC43 + NSYSDC63	NSYSDCX42 + NSYSDCX62 / NSYSDCX43 + NSYSDCX63	NSYRP2	NSYRPX2

SD SDX

Floor

For more information, see page 92.

PB502578-30



PB502589-30



PB502580-17



PB502591-18



Characteristics	Front and rear plinth		Plinth side panels	
	The front and rear of the plinth consists of 4 corners with 2 or 4 panels.		They are fixed to the corner of the plinth by 2 fixing screws.	
Material	Folded steel, corner with a thickness of 25/10e mm	304L stainless-steel	Folded steel	304L stainless-steel
Finish	Painted with epoxy-polyester powder	-	Painted with epoxy-polyester powder	-
Colour	RAL 7022 grey	-	RAL 7022 grey	-
Ingress protection rating according to IEC 60529	IP30	IP30	IP30	IP30
Mechanical protection rating according to IEC 62262	IK10	IK10	IK10	IK10
Supply	■ Height 100 mm: 4 corners, 2 panels (front and rear), 4 corner covers and fixing elements ■ Height 200 mm: 4 corners, 4 panels (2 front and 2 rear), 4 corner covers and fixing elements ■ The use of 304L stainless-steel plinths on an SD control desk requires an earthing cable reference **NSYEL226D13** (description page 278) to be ordered separatly.		■ Height 100 mm: 2 side panels, 4 corner covers and fixing elements ■ Height 200 mm: 4 side panels (height of 100 mm, 2 for each side), 4 corner covers and fixing elements ■ The use of 304L stainless-steel plinths on an SD control desk requires an earthing cable reference **NSYEL226D13** (description page 278) to be ordered separatly.	

Control desk references	Plinths references							
Compact control desks with fixed rear panel	**100 mm**	**200 mm**	**100 mm**	**200 mm**	**100 mm**	**200 mm**	**100 mm**	**200 mm**
PB501200-14								
NSYSD6	NSYSPF6100	NSYSPF6200	NSYSPFX6100	NSYSPFX6200	NSYSPS4100SD	NSYSPS4200SD	NSYSPSX5100	NSYSPSX5200
NSYSD8	NSYSPF8100	NSYSPF8200	NSYSPFX8100	NSYSPFX8200	NSYSPS4100SD	NSYSPS4200SD	NSYSPSX5100	NSYSPSX5200
NSYSD10	NSYSPF10100	NSYSPF10200	NSYSPFX10100	NSYSPFX10200	NSYSPS4100SD	NSYSPS4200SD	NSYSPSX5100	NSYSPSX5200
NSYSD12	NSYSPF12100	NSYSPF12200	NSYSPFX12100	NSYSPFX12200	NSYSPS4100SD	NSYSPS4200SD	NSYSPSX5100	NSYSPSX5200
Compact control desks with removable rear panel Sheet steel								
PB501202-14								
NSYSD6R	NSYSPF6100	NSYSPF6200	NSYSPFX6100	NSYSPFX6200	NSYSPS5100SD	NSYSPS5200SD	NSYSPSX5100	NSYSPSX5200
NSYSD8R	NSYSPF8100	NSYSPF8200	NSYSPFX8100	NSYSPFX8200	NSYSPS5100SD	NSYSPS5200SD	NSYSPSX5100	NSYSPSX5200
NSYSD10R	NSYSPF10100	NSYSPF10200	NSYSPFX10100	NSYSPFX10200	NSYSPS5100SD	NSYSPS5200SD	NSYSPSX5100	NSYSPSX5200
NSYSD12R	NSYSPF12100	NSYSPF12200	NSYSPFX12100	NSYSPFX12200	NSYSPS5100SD	NSYSPS5200SD	NSYSPSX5100	NSYSPSX5200
Compact control desks with removable rear panel Stainless-steel								
PB501267-16								
NSYSDX6	-	-	NSYSPFX6100	NSYSPFX6200	-	-	NSYSPSX5100	NSYSPSX5200
NSYSDX8	-	-	NSYSPFX8100	NSYSPFX8200	-	-	NSYSPSX5100	NSYSPSX5200
NSYSDX10	-	-	NSYSPFX10100	NSYSPFX10200	-	-	NSYSPSX5100	NSYSPSX5200
NSYSDX12	-	-	NSYSPFX12100	NSYSPFX12200	-	-	NSYSPSX5100	NSYSPSX5200
Control desk with console								
PB501208-14								
NSYSDF88	NSYSPF8100	NSYSPF8200	-	-	NSYSPS4100SD	NSYSPS4200SD	-	-
NSYSDF108	NSYSPF10100	NSYSPF10200	-	-	NSYSPS4100SD	NSYSPS4200SD	-	-
NSYSDF128	NSYSPF12100	NSYSPF12200	-	-	NSYSPS4100SD	NSYSPS4200SD	-	-
NSYSDF168	NSYSPF16100	NSYSPF16200	-	-	NSYSPS4100SD	NSYSPS4200SD	-	-
NSYSDF810	NSYSPF8100	NSYSPF8200	-	-	NSYSPS6100SD	NSYSPS6200SD	-	-
NSYSDF1010	NSYSPF10100	NSYSPF10200	-	-	NSYSPS6100SD	NSYSPS6200SD	-	-
NSYSDF1210	NSYSPF12100	NSYSPF12200	-	-	NSYSPS6100SD	NSYSPS6200SD	-	-
NSYSDF1610	NSYSPF16100	NSYSPF16200	-	-	NSYSPS6100SD	NSYSPS6200SD	-	-

Human-Machine Interface
Accessories

Door

PB501213-42



Pneumatic opening stay

- Holds the desk lid in open position at an angle of 75°.
- **Supply:** delivered with fixings.

Nominal load per stay (N)	Max. load on lid (kg)	Control desk references				Standard supply stay
		With fixed rear panel	With removable rear panel		With console	
			Steel	Stainless-steel		
244	13	NSYSD6	NSYSD6R	NSYSDX6	NSYSDF88	NSYPLS24
		NSYSD8	NSYSD8R	NSYSDX8	NSYSDF810	NSYPLS24
300	11	-	-	-	NSYSDF168	NSYPLS30
		-	-	-	NSYSDF1610	NSYPLS30
	15	NSYSD12	NSYSD12R	NSYSDX12	NSYSDF128	NSYPLS30
		-	-	-	NSYSDF1210	NSYPLS30
	17	NSYSD10	NSYSD10R	NSYSDX10	NSYSDF108	NSYPLS30
		-	-	-	NSYSDF1010	NSYPLS30

PB501214



Document lip

- Retaining bar to be fixed on the front of the control desk lid. Prevents documents and equipment from falling.
- **Material:** PVC, RAL 7011 grey.
- **Fixing:** fixing by adhesive.

Control desk width (mm)	References
600	NSYDL6
800	NSYDL8
1000	NSYDL10
1200	NSYDL12
1600	NSYDL16

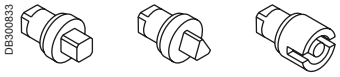
Locking system

PB501215-72



The Control desks are supplied with 3 mm double-bar escutcheon locks as standard.

DB300833



PB501216-18



Characteristics	Shape inserts	Escutcheon with key lock
	Possibility to replace the standard shape insert: ■ 8-mm triangular insert, ■ 8-mm male square insert, ■ 7-mm male square insert.	Insert breakage torque: 15 daN.
Material	Zamack	Polyamide PA 6 material charged with 30 % fibreglass
Colour	-	RAL 7011 grey
Mechanical protection rating according to IEC 62262	-	IK10
Fire resistance	-	650°C
References		
8-mm triangular insert	**NSYTT8CRN**	-
8-mm male square insert	**NSYTC8CRN**	-
7-mm male square insert	**NSYTC7CRN**	-
405E key	-	**NSYML405SD**
Without insert	-	-

Human-Machine Interface
Accessories

Locking system

PB501217-38



Pivoting handle	
	To be installed on the rear door of Control desk with console, replacing the flat escutcheon supplied as standard. Ergonomic locking system with pivoting handle (delivered without insert). Broad range of inserts for covering the greatest variety of needs (shape inserts, DIN cylinders, KABA, ASSA). Changing the opening direction to right / left thanks to the symmetric design of the lock unit (no linkages to be removed). Lock unit supported by 2 screws.
	PA 6 charged with 30 % fibreglass
	RAL 7011 grey
	IK10
	650°C
	-
	-
	-
	-
	NSYSDH

Accessories

PB500614-19



Shape inserts

Shape inserts	References
6-mm square insert	**NSYINS61**
6-mm female square insert	**NSYINS6G1**
7-mm square insert	**NSYINS71**
8-mm square insert	**NSYINS81**
8-mm female square insert	**NSYINS8G1**
8-mm square insert with slot	**NSYINS8H1**
6.5-mm triangular insert	**NSYINT61**
7-mm triangular insert	**NSYINT71**
8-mm triangular insert	**NSYINT81**
9-mm triangular insert	**NSYINT91**
10-mm triangular insert	**NSYINT101**
10-mm keyless hexagonal insert	**NSYINH31**
3-mm double-bar insert	**NSYINDB31**
5-mm double-bar insert	**NSYINDB51**
Daimler Benz insert	**NSYINBENZ1**
Fiat insert	**NSYINFIAT1**
USA keyless slot insert	**NSYINUSA1**
2 x 4 keyless slot insert	**NSYIN241**
Crown insert	**NSYINCW1**

PB501218



Push button

Push button	Reference
Push button	**NSYINPULSD**

PB500616-18

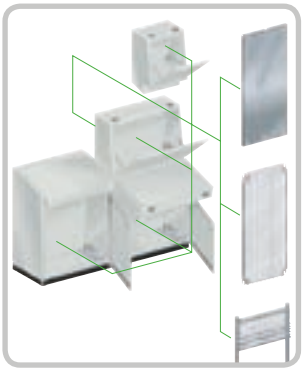


Cylindrical barrels

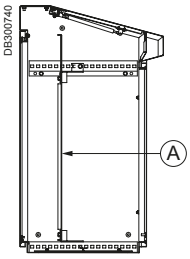
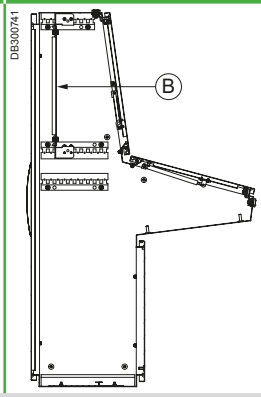
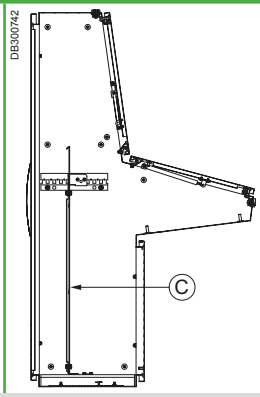
Cylindrical barrels	References
Lock with 405E key	**NSYIN405E1**
Lock with 421E key	**NSYIN421E1**
Lock with 455 key	**NSYIN4551**
Lock with 1242E key	**NSYIN1242E1**
Lock with 1332E key	**NSYIN1332E1**
Lock with 2124E key	**NSYIN2124E1**
Lock with 2131A key	**NSYIN2131A1**
Lock with 2132A key	**NSYIN2132A1**
Lock with 2331A key	**NSYIN2331A1**
Lock with 2433A key	**NSYIN2433A1**
Lock with 2452E key	**NSYIN2452E1**
Lock with 3113A key	**NSYIN3113A1**
Lock with 3122E key	**NSYIN3122E1**
Lock with 3123A key	**NSYIN3123A1**
Lock with 3131A1 key	**NSYIN3131A1**
Lock with 3133A key	**NSYIN3133A1**
Lock with 3422E key	**NSYIN3422E1**
Lock with 3432E key	**NSYIN3432E1**
Lock with 6101 key	**NSYIN6101**
Lock with EDF1300 key	**NSYINF1301**
Lock with EDF1400 key	**NSYINF1401**
Michelin 8079 keyless lock	**NSYINICHEL8791**
Michelin 8133 keyless lock	**NSYINICHEL8131**
Michelin 8376 keyless lock	**NSYINICHEL8371**
E1 keyless lock	**NSYINE11**

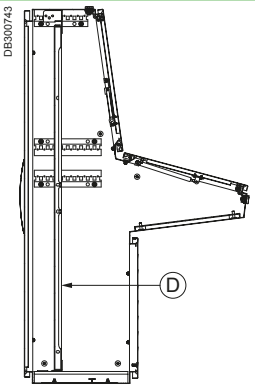
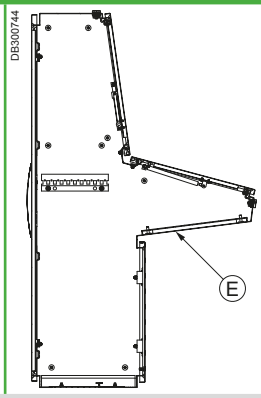
Human-Machine Interface
Accessories

PB501219-37



Mounting accessories

	Compact control desks				Control desk with console							
Installation type												
Control desk Width (B) (mm)	Mounting plates (1)											
	Plain		Telequick		Plain		Telequick		Plain		Telequick	
	Surface (dm²)	References	Surface (dm²)	References	Surface (dm²)	References	Surface (dm²)	References	Surface (dm²)	References	Surface (dm²)	References
600	42	NSYPMP8560	34	NSYTMP6760	-	-	-	-	-	-	-	-
800	59	NSYPMP8580	48	NSYTMP6780	31	NSYPMP4580	30	NSYTMP4280	49	NSYPMP8580	48	NSYTMP6780
1000	76	NSYPMP85100	61	NSYTMP67100	40	NSYPMP45100	39	NSYTMP42100	63	NSYPMP85100	61	NSYTMP67100
1200	93	NSYPMP85120	75	NSYTMP67120	77	NSYPMP45120	39	NSYTMP42120	77	NSYPMP85120	75	NSYTMP67120
1600	-	-	-	-	67	NSYPMP45160	-	-	105	NSYPMP85160	-	-

	Control desk with console							
Installation type								
Control desk Width (B) (mm)	Mounting plates							
	Plain (1)		Telequick (2)		Plain		Telequick	
	Surface (dm²)	References	Surface (dm²)	References	Surface (dm²)	References	Surface (dm²)	References
600	-	-	-	-	-	-	-	-
800	90	NSYMP148	84	2 x NSYSTMP6080	28	NSYSPMP4080	-	-
1000	116	NSYMP1410	108	2 x NSYSTMP60100	36	NSYSPMP40100	-	-
1200	142	NSYMP1412	132	2 x NSYSTMP60120	44	NSYSPMP40120	-	-
1600	-	-	-	-	60	NSYSPMP40160	-	-

(1) For this installation, order a set of 4 adjustment rails and fixing brackets (see page 475).
(2) For this installation, order a set of 2 uprights ref. ***NSYTVR14*** *and set of 4 adjustment rails and 4 fixing brackets.*

Human-Machine Interface
Accessories

Mounting accessories


PB501815-24


PB501808-35


PB500483-24


PB501210-32

Characteristics	Fixing brackets	Adjustment rails and fixing brackets	Technical uprights	PC screen support
	Set of 4 fixing brackets. Depth adjustment on 25 mm pitch. Included as standard with desk (all versions). To be ordered separately when required for installation of two back to back mounting plates in control desks with rear access.	Set of 4 rails and 4 fixing brackets. To install a plain mounting plate or a Telequick mounting plate, either at the top or across the height of the monobloc control desk with console. For positioning 2 plates (back to back), order fixing brackets ref. **NSYMPBSD**.	Set of 2 equipment uprights. Support for fixing Telequick mounting plates and rails.	For a control desk with monobloc console with a depth of 600 mm. This support is a galvanised mounting plate, in horizontal position, fixed to the adjustment rails of the console.
Material	Galvanised steel	-	Zinc-coated	-
Thickness	40/10e mm	-	20/10e mm	-
Maximum load	250 kg	-	-	50 kg/m²
Supply	-	-	-	Delivered with fixings
References				
For desk width (mm)				
600	**NSYMPBSD**	-	-	-
800	**NSYMPBSD**	-	-	**NSYPCS8**
1000	**NSYMPBSD**	-	-	**NSYPCS10**
1200	**NSYMPBSD**	-	-	**NSYPCS12**
1600	**NSYMPBSD**	-	-	**NSYPCS16**
For control desks with console Depth (mm)				
400	-	**NSYMPB4SD**	-	-
600	-	**NSYMPB6SD**	-	-
For control desk height (mm) / **Centre-to-centre distance (mm)**				
1000 / 650	-	-	**NSYTVR8**	-
1400 / 1250	-	-	**NSYTVR14**	-

Human-Machine Interface
Introduction

> The **Spacial SF PC rack** is designed to protect and control computer equipment in an industrial environments.

PB500501-54



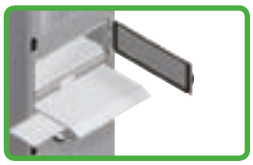
Steel PC racks

PB500664-28



Convenience
- Anti-glare glazed door designed for viewing until 25,5" screens.
- Cable entry made easier by a cable-land plate in 2 pieces.

PB500665-28



Ergonomics
- Access to the various functions and working heights, guaranteeing optimum comfort.
- Partial doors delimit the access to each function with a 3 mm double-bar lock.
- Built-in screen and CPU support.
- Built-in keyboard and mouse support.

PB500490-35



Robust
- Structure formed from a single 15/10e-mm galvanised-steel section, with a high rigidity.
- Vertical uprights screwed together with connections of full steel. Placement and screwing of the 4 vertical uprights at the corners of the top and bottom frames. Fixing by 8 screws, one at each corner of the enclosure.
- Capable of withstanding 1000 kg distributed in its volume.

PB500495-21



Simple
The Spacial SF design allows enclosures to be coupled in any direction, adapting to all installation surfaces.

PB500667-35



Detail of 5 mm DB lock on rear door.

Locking system
Locking system with flat escutcheon, made from polyamide 6 with 30 % fibreglass, RAL 9005 black, with 5 mm double-bar insert for the plain rear door, and small flat escutcheon with 3 mm double-bar insert for the partial front doors.

This range can be configured according to your needs

4 differents services available:

Assemble to order

Mounting of standard accessories

Painting

Machining

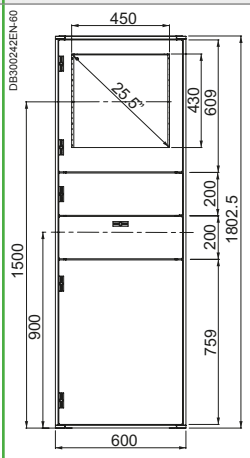
See page 488 for details or consult our web site www.se.com

Human-Machine Interface
Characteristics

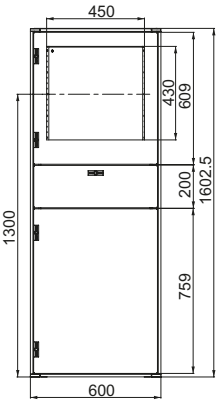


Characteristics	Spacial SF PC rack
	■ Partial door for PC screen, with Securit® anti-glare glass. ■ Plain partial door for CPU (enclosures with height of 1800 mm). ■ Hinged plain door for keyboard. ■ Plain partial door for optional installation of A4 printer support. ■ Partial front doors opening to the right. ■ Plain rear door, reversible opening direction (right or left). ■ Roof and side panels fixed from the inside. ■ Cable-gland plate with 1 entry.
Finish	Structured finish, epoxy-polyester powder
Colour	RAL 7035 grey
Ingress protection rating according to IEC 60529	IP40
Mechanical protection rating according to IEC 62262	IK10
Certifications	UL 508A Types 1, 12 and CUL

Height (mm)	Width (mm)	Depth (mm)	No. of compartments	References
1600	600	600	3	**NSYSF16660PC**
		800	3	**NSYSF16680PC**
1800	600	600	4	**NSYSF18660PC**
		800	4	**NSYSF18680PC**



PC rack with a height of 1800 mm.



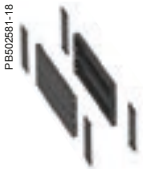
PC rack with a height of 1600 mm.

Plinth









Characteristics	Front plinth	Plinth side panels
	The front and rear of the plinth consists of 4 corners with 2 or 4 panels.	They are fixed to the corner of the plinth by 2 fixing screws.
Material	Folded sheet steel, corner with a thickness of 25/10e mm	Folded sheet steel
Finish	Structured finish, epoxy-polyester powder	Structured finish, epoxy-polyester powder
Colour	RAL 7022 grey	RAL 7022 grey
Ingress protection rating	IP30 according to IEC 60529	IP30 according to IEC 60529
Mechanical protection rating	IK10 according to IEC 62262	IK10 according to IEC 62262
Installation	-	-
Supply	■ Height 100 mm: 4 corners, 2 panels (front and rear), 4 corner covers and fixing elements ■ Height 200 mm: 4 corners, 4 panels (2 front and 2 rear), 4 corner covers and fixing elements	■ Height 100 mm: 2 side panels, 4 corner covers and fixing elements ■ Height 200 mm: 4 side panels (height of 100 mm, 2 for each side), 4 corner covers and fixing elements

References					
Width (mm)	**Depth (mm)**	**100 mm**	**200 mm**	**100 mm**	**200 mm**
600	600	**NSYSPF6100**	**NSYSPF6200**	**NSYSPS6100**	**NSYSPS6200**
	800			**NSYSPS8100**	**NSYSPS8200**

Locking system





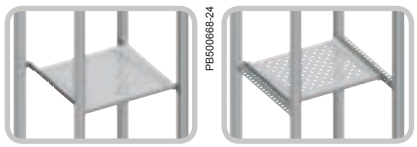
Detail of 3 mm DB lock on partial door.

Characteristics	Locks for partial doors			
	Locks to replace the 3 mm double-bar lock supplied with the partial doors. Models: ■ Transformation of lock with shape inserts, triangular 6.5 mm and square 6 mm. ■ Lock with 2233X key for partial doors. ■ Lock with 2233X key, exclusive for hinged keyboard door.			
Supply	■ Lock with shape inserts, triangular 6.5 mm and square 6 mm: metal body, shape insert and safety washer. ■ Lock with 2233X key for partial doors: metal body, insert, bolt, safety washer and key. ■ Lock with 2233X key, exclusive for hinged keyboard door: metal body, insert, special bolt, safety washer and key.			
References	**With 6.5 mm triangular insert for partial and hinged door**	**With 6 mm square insert for partial and hinged door**	**With 2233X key for partial door**	**With 2233X key for hinged keyboard door**
	NSYMLT6	**NSYMLS6**	**NSYML23**	**NSYMLCD23**

Human-Machine Interface
Accessories

Trays

PB500523-24 PB500668-24



PB500669-23



PB500670-24



	Fixed Trays				Telescopic Trays					
	■ Optional installation of a supplement fixed or telescopic tray directly on structure or on cross rails. ■ Acceptable load: 150 kg for fixed trays and 50 kg for telescopic rails, both evenly distributed. ■ See more details and other options on Mounting: trays, page 228.									
	-				-					
	-				-					
	-				-					
	-				-					
	-				-					
	On structure	On cross rails			On structure		On cross rails			
	-	-			-		-			
	Tray	**Tray**	**Universal cross rail 40 mm (1 row)**	**Quick cross rail 40 mm (1 row)**	**Tray**	**Telescopic rails**	**Tray**	**Telescopic rails**	**Universal cross rail 40 mm (1 row)**	**Quick cross rail 40 mm (1 row)**
	NSYFXT6060	**NSYFXT6060**	**NSYSUCR4060**	**NSYSQCR4060**	**NSYFXT6060**	**NSYTTG60**	**NSYFXT6060**	**NSYTTG60**	**NSYSUCR4060**	**NSYSQCR4060**
	-	**NSYFXT6060**	**NSYSUCR4080**	**NSYSQCR4080**	-	-	**NSYFXT6060**	**NSYTTG60**	**NSYSUCR4080**	**NSYSQCR4080**

Other accessories

PB500672-33



Characteristics	Handle for telescopic trays
	Handle designed for easy extraction of the sliding trays.
Material	Polyamide 6 (black)
Supply	2 units and fixing elements
Reference	
	NSY1TH

Human-Machine Interface
Introduction

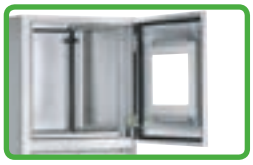
> The **stainless-steel monobloc PC racks** have been especially designed to protect computer equipment installed in corrosive or specially environments that require washing or exposure to sprays of liquid.

PB501223



Stainless-steel monobloc PC racks

PB501223-69



Convenience
- Anti-glare glazed door designed for viewing 14" and 17" screens by removing part of the silkscreen printing.
- Cable entry made easier by a cable-gland plate (at the rear) in 2 pieces.

PB501223-108



Sealing
IP55, even with the keyboard drawer open, thanks to the pivoting Plexiglas shutter.

PB501223



Optional accessories
Shelf mounted on telescopic rails.

PB501266-32



Ergonomic
- Partial doors delimit the access to each function with a 3-mm double-bar lock.
- Access to the various functions and working heights, guaranteeing optimum comfort.
- Built-in screen and CPU support.
- Built-in mouse support.

PB501223-107



Hygiene
- The high quality of the standard finish enables very easy maintenance while avoiding contamination.
- The hygienic feet made from 316L stainless-steel, adjustable between 140 mm and 200 mm height, make it easier to clean under the enclosures, ref. **NSYPHX200**.

More information on page 131 and 271.

PB501233-32



Resistance to corrosion
High resistance to corrosion. 304L and 316L stainless-steels provide the best solutions for applications in extremely demanding environments.

This range can be configured according to your needs

4 differents services available:

Assemble to order

Mounting of standard accessories

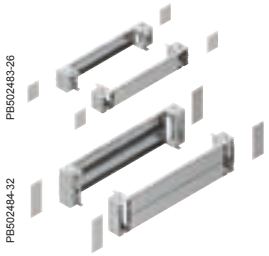
Painting

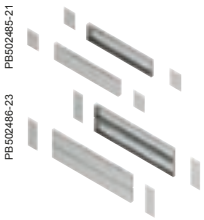
Machining

See page 488 for details or consult our web site www.se.com

Human-Machine Interface
Characteristics, accessories

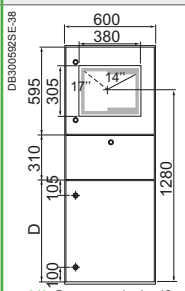






Characteristics	304L stainless-steel PC racks	Front plinth	Plinth side panels
	Composition ■ Top and bottom partial doors on the front side. ■ Pivoting panel for the keyboard. ■ Plain rear door. **Monitor-screen compartment** ■ The anti-glare glazed door is designed for viewing screens: □ 14" as standard, □ 17" by removing a part of the silkscreen printing. ■ The height of the monitor support can be adjusted. ■ The monitor shelf can withstand a maximum weight of 50 kg. **CPU / keyboard compartment** ■ The keyboard fixed to the inside becomes operational by tilting the central panel. ■ The CPU is placed on a height-adjustable shelf, visible and accessible through a pivoting, transparent shutter. **Optional accessories** ■ Hygienic feet H 200 mm: **NSYPHX200**. ■ Shelf installed on a sliding rail, with adjustable height. ■ Telescopic tray: **NSYTTG60**.	The front and rear of the plinth consists of 4 corners with 2 or 4 panels.	They are fixed to the corner of the plinth by 2 fixing screws.
Material	Monobloc structure in 304L stainless-steel sheet, micro-beaded finish. Can be made in 316L stainless-steel on request	304L stainless-steel	304L stainless-steel
Ingress protection rating according to IEC 60529	IP55, even with the keyboard drawer open	IP30	IP30
Mechanical protection rating according to IEC 62262	IK10	IK10	IK10
Supply	-	■ Height 100 mm: 4 corners, 2 panels (front and rear), 4 corner covers and fixing elements ■ Height 200 mm: 4 corners, 2 panels (front and rear), 4 corner covers and fixing elements	■ Height 100 mm: 2 side panels, 4 corner covers and fixing elements ■ Height 200 mm: 2 side panels, 4 corner covers and fixing elements

Height (mm) (A)	Width (mm) (B)	Depth (mm) (C)	References				
				100 mm	200 mm	100 mm	200 mm
1600	600	600	**NSYSMX16660PC**	**NSYSPFX6100**	**NSYSPFX6200**	**NSYSPSX6100**	**NSYSPSX6200**
1800	600	600	**NSYSMX18660PC**	**NSYSPFX6100**	**NSYSPFX6200**	**NSYSPSX6100**	**NSYSPSX6200**



A	D
1600	690
1800	890

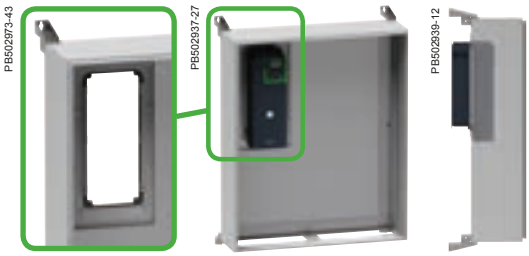
(1) Screwed shelf, adjustable height.
(2) Sealed case for keyboard.

Variable speed drive flush-mounting kits
Introduction

> The variable speed drive flush-mounting kits have been designed to isolate the power part, which is an important source of heat.
They are mounted in the Spacial range of steel enclosures (floor-standing and wall-mounting enclosures) and have been approved for Altivar Process variable speed drives in the ATV630 and ATV930 ranges (power range: 0.75 to 45 kW at 200/240 V, 0.75 to 90 kW at 380/480 V).

> The kits are available in five sizes and offer two methods of mounting variable speed drives:
- slide-rail mounting for sizes 1, 2 and 3
- bracket mounting for sizes 4 and 5.

> The kits can be installed:
- at the back of the enclosure.
  This installation provides full thermal insulation



- inside the enclosure on a mounting plate.
  This installation may require the addition of a thermal control.





Tightness
IP55 according to IEC 60529 with polyurethane seal provided.



Ease of installation
Set of slide-rails allowing the variable speed drive to be mounted quickly and efficiently.



Strength
The rigidity of the kit allows it to be installed on Spacial S3D, SF and SM enclosures.

Earth continuity
Earth continuity is ensured by tightening the M6 nuts associated with pin washers.



Maintenance of the variable speed drive fan (kit sizes 4 and 5)
Easy front-panel maintenance for fan servicing.

Configured offer

Services
Possibility of cut-outs (enclosure and frame) by Schneider Electric: no risk of corrosion and cuts (cut-out made before painting).

Variable speed drive flush-mounting kits
Characteristics



Sizes 1, 2 and 3.



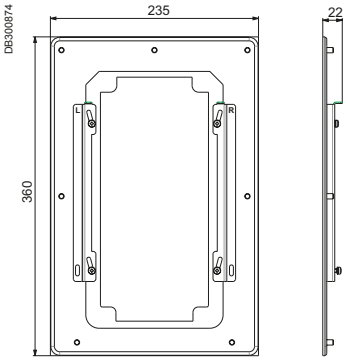
Sizes 4 and 5.

Characteristics	Mounting kits
	Variable speed drive installation kits allowing the hot part to be isolated.
Material	Steel
Finish	■ Structured finish, epoxy-polyester powder
Colour	RAL 7035 grey
Ingress protection rating according to IEC 60529	IP55
Mechanical protection rating according to IEC 62262	-
Certifications	UL 508A types 1, 3R and 12.
Supply	**Sizes 1, 2 and 3:** ■ Painted steel plate with cut-out fitted with two slide-rails + adhesive seal + 7 to 9 M6 studs for kit mounting ■ Protection seal profile supplied for frame cut-out ■ Enclosure drilling template **Sizes 4 and 5:** ■ Painted steel plates with cut-out fitted with painted mounting brackets + screws and nuts for fixing the brackets and the kit ■ Protection seal supplied for frame cut-out ■ Enclosure drilling template ■ Fan support for ease of maintenance ■ Protective cover

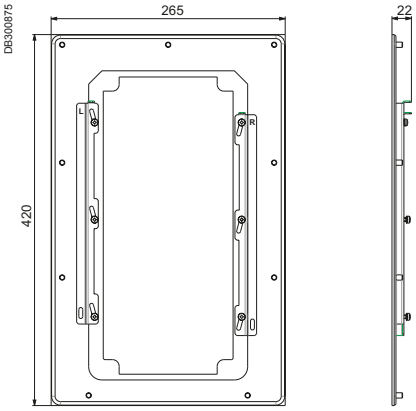
Dimensions (mm)			Sizes	Compatibilities						References
H	L	P		Enclosures	Variable speed drives ATV340 380/480 V	 ATV630 200/240 V	 380/480 V	 ATV930 200/240 V	 380/480 V	Kits
360	235	22	1	S3D, SF, SM	-	ATV630U07M3 ATV630U15M3 ATV630U22M3 ATV630U30M3 ATV630U40M3	ATV630U07N4 ATV630U15N4 ATV630U22N4 ATV630U30N4 ATV630U40N4 ATV630U55N4	ATV930U07M3 ATV930U15M3 ATV930U22M3 ATV930U30M3 ATV930U40M3	ATV930U07N4 ATV930U15N4 ATV930U22N4 ATV930U30N4 ATV930U40N4 ATV930U55N4	NSYPTDS1
420	265	22	2	S3D, SF, SM	-	ATV630U55M3	ATV630U75N4 ATV630D11N4	ATV930U55M3	ATV930U75N4 ATV930D11N4	NSYPTDS2
555	295	22	3	S3D, SF, SM	-	ATV630U75M3 ATV630D11M3	ATV630D15N4 ATV630D18N4 ATV630D22N4	ATV930U75M3 ATV930D11M3	ATV930D15N4 ATV930D18N4 ATV930D22N4	NSYPTDS3
800	385	151,5	4	SF, SM	ATV340D30N4E ATV340D37N4E	ATV630D15M3 ATV630D18M3 ATV630D22M3	ATV630D30N4 ATV630D37N4 ATV630D45N4	ATV930D15M3 ATV930D18M3 ATV930D22M3	ATV930D30N4 ATV930D37N4 ATV930D45N4	NSYPTDS4
975	427	205,5	5	SF, SM	ATV340D45N4E ATV340D55N4E ATV340D75N4E	ATV630D30M3 ATV630D37M3 ATV630D45M3	ATV630D55N4 ATV630D75N4 ATV630D90N4	ATV930D30M3 ATV930D37M3 ATV930D45M3	ATV930D55N4 ATV930D75N4 ATV930D90N4	NSYPTDS5

Variable speed drive flush-mounting kits
Dimensions

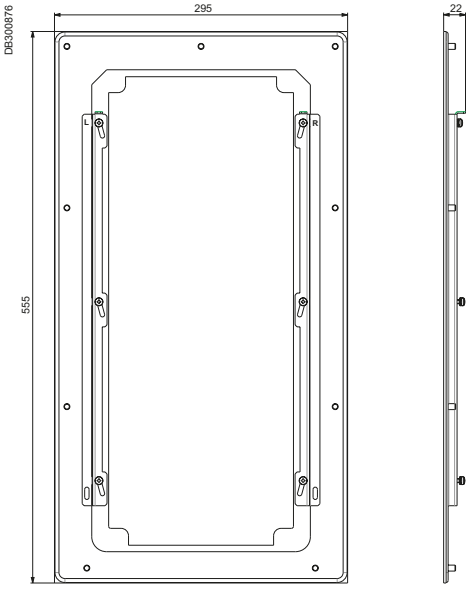
NSYPTDS1



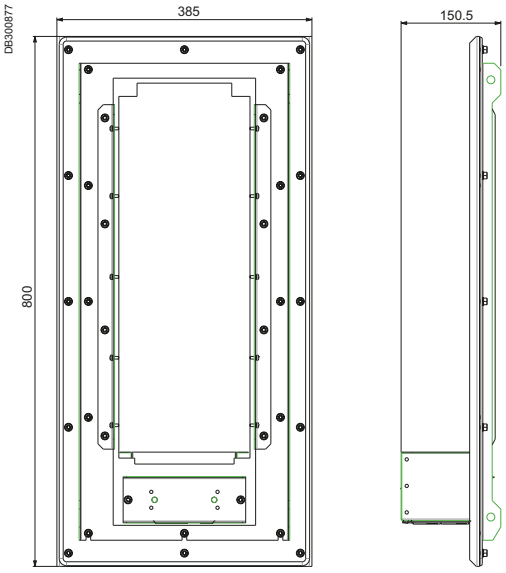
NSYPTDS2



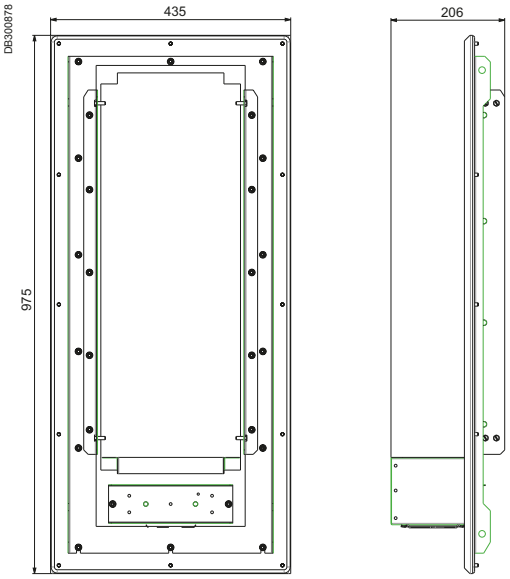
NSYPTDS3



NSYPTDS4



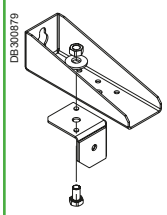
NSYPTDS5

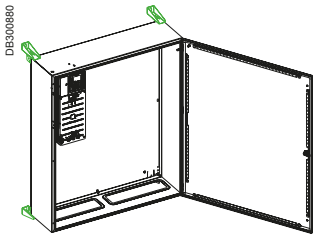


Variable speed drive flush-mounting kits
Mounting accessory



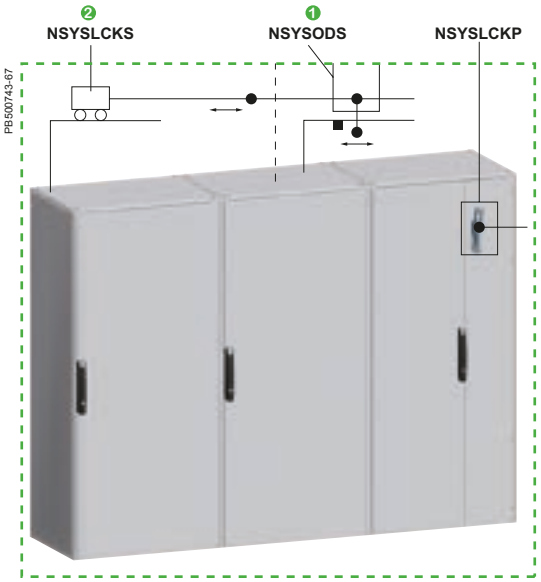
Characteristics		Wall-mounting enclosure fixing lug	
Maximum load		105 kg	
Material		Painted steel RAL 7035	
Supply		Set of 4 lugs and brackets + fasteners	
Wall-mounting enclosure Dimensions (mm)		**References**	
Height	**Width**	**Variable speed drive flush-mounting kits**	**Fixing lug**
≥ 400	≥ 300	**NSYPTDS1**	**NSYAEFPFPTD**
≥ 500	≥ 300	**NSYPTDS2**	
≥ 600	≥ 400	**NSYPTDS3**	





Automobile application
Introduction

> The door of the "incoming" enclosure is interlocked by the control of the main switch or circuit breaker. A built-in interlocking system with runner rods prevents the opening of the "outgoing" enclosure doors. Access is only allowed when the main switch or circuit breaker is in "O" position and the main door is open. Manual activation of the rods unlocks the other doors and allows access.
> Designed to be associated with certain circuit breakers or switches:
– Square D (9422 A1).
– Schneider Electric.
> The system is limited for configurations up to 4 columns.



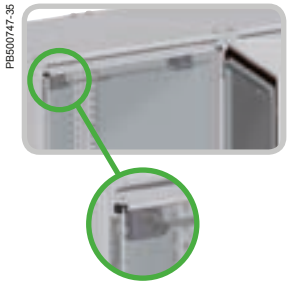


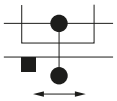
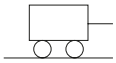
Secure
The built-in secure interlocking system for the door (on demand) of the "incoming"/"outgoing" enclosures allows Spacial SF enclosures to be adapted to the requirements of the American car industry.

Automobile application
Characteristics


PB500744-31


PB500746-43


PB500747-35

Characteristics	Interlocking for main door	Activation for secondary doors	Interlocking for secondary doors	
	■ System for unlocking the main door adapted to the switches: □ Allen Bradley (1494 VH11). □ Square D (9422 A1). □ Siemens (FH0H). □ Schneider Electric. ■ Unlocks the main door when the switch is in the open position "O". ■ The main door interlocking system requires the ordering of both references: □ ❶ Activation for secondary doors. □ ❷ Interlocking for secondary doors.	System installed in the main enclosure. Activated by manual operation, preventing the opening of the secondary enclosures connected to one another by runner rods. It has a secure function which consists of a part that forces the system into the position in which the secondary enclosures are locked in order to lock the main door.	System for interlocking the outgoing enclosures connected to one another by runner rods that lock their doors.	
Material	Steel	■ Mechanism: zinc-coated steel ■ Activation handle: black plastic	Steel	
Finish	Zinc-coated	-	Zinc-coated	
Fixing	-	-	Fixing to the structure of the enclosures by screws	
Supply	2 brackets for fixing the configured panel, interlocking elements, switch and fixings. Configured panel and switch not included.	Elements for activating the main door and fixings. For the complete function, both activation ❶ and interlocking systems ❷ need to be ordered.	Elements for interlocking the secondary doors and fixings. For the complete function, both activation ❶ and interlocking systems ❷ need to be ordered according to the enclosure width.	
References			**Width (mm)**	**References**
	NSYSLCKP	**NSYSODS**	600	**NSYSLCKS6**
			800	**NSYSLCKS8**
			1000	**NSYSLCKS10**
				


PB500745-22

The fixed panel in this example must be ordered through our customised service.

Customised solutions
Configured offer

Introduction

Configured



Standard enclosure
+
Standard accessories
+
Services
=
Configured solution

The configured offer is a standard offer enriched by **4 services**

The customized solutions either Configured or Specific, uses existing ranges from Universal Enclosures standard offer as a base for its development. Depending on the modifications to be done upon enclosures and/or accessories, they could affect the certification/declarations of conformity existing in the standard ranges. Additional certifications & declarations of conformity for customized solutions, must be defined under request prior as part of offering specification stage.

Assemble to order

- Change cladding composition (panels, doors…)
- Merge and assemble several enclosures (only for Spacial SF and Thalassa PLA)

⊕ Enclosure composition 100 % according to customer needs

⊕ Avoids need of qualified technicians to merge enclosures

Machining

- Make square and circle cut-outs **before** painting the enclosure (body, cable gland plate, sides) and mounting plates

⊕ Ensures safety and best protection against rust

⊕ The enclosure is ready to be equipped

Painting

- Enclosure painting color selection (choice of 38 RAL colours)
- Coating's raw material modification (e.g.: zinc, etc.)

⊕ Industrial painting ensures the best protection

⊕ Totally customized

Mounting of standard accessories

- Pre-installation of accessories inside or out-side of the enclosure (ex.: mounting plate, plinth, canopy, etc.)

⊕ Enclosure ready to be equipped

Minimum order: *1 to 5, depends on type of enclosure.*
Manufacturing time: *3 to 10 days, depends on offer type.*
Delivery time: *It could vary according to destination, please consult us for further information.*

Customised solutions
Configured offer

Spacial.conf configuration tool

Spacial.conf is the configuration tool to be used to place your order. It gives you several benefits:

Consistency & error free

- One configurator for 14 countries & all configurable offers
- Compatibility between enclosure & accessories

Time saving & flexibility

- Users can indicate machining requests directly on our DXF drawing
- Price optimisation (depends on quantity)
- Manufacturing time adapted to each offer

Autonomy & facility

- Availability of both on-line & off-line versions
- Illustrated products help you in your choice
- FAQ information for faster understanding

Information back-up

- All data are provided to registered users (quotation, technical datasheet, etc.)
- Reusable smart code

Your order in **5 steps** with Spacial.conf:

1 - Select country & language

- 14 countries
- 4 languages

PB502738-62



2 - Select enclosure

- Select product range
- Select material
- Select enclosure type

3 - Select accessories

- Composition accessories
- Mounting accessories
- Thermal accessories

4 - Select services

- Mounting
- Machining
- Painting
- Assembly

5 - Validation & send offer

- Order summary
- Send order to get quotation confirmation from local sales representative

Have a smartphone or a tablet? Scan this >

DB300836-15

Customised solutions
Specific offer

Introduction

Specific


PB502734-111


42-22779605-83

20
experts
specialized on different materials and different products

The **specific offer** allows you to have a tailor-made product

> Special dimensions, special needs for thermal system, special components adaptation, etc. All possibilities are open.
> You can choose to modify any of our standard products (boxes or enclosures, wall-mounting or floor-standing) or start from a newly designed solution.
> Co-engineer your solution with our design and engineering team (20 experts entirely dedicated to your specific needs).

Examples of Specific solution


PB502735-45

- Special dimension
- Cut-outs on the body and the doors


PB502736-48

- Cable-entry & door adaptation
- Special door shape

What to take into account

This page will help you define your needs for enclosure and streamline your design process. You will then need to contact your sales representative.

Step 1

Environment in which you'll install the enclosure(s)

> Airborne debris; temperature variations; UV rays?
> Indoor or outdoor use?
> In wash down environment?
> In high traffic environment?

Step 2

Application(s) needs of your enclosure(s)

> Access control; building automation; motor & motion control?
> Need to protect against electromagnetic disturbances?
> Use in potentially explosive atmospheres?

Step 3

Enclosure(s) description

> Type of enclosure's installation?
> Total weight of equipments in the enclosure?
> Design: color / coating / finish / dimension?
> Body components' adaptations: cable entry / mounting plate?
> Thermal management adaptations?
> Other accessories adaptations?
> Additional information: labeling / packaging / logistic?

Step 4

Business profile

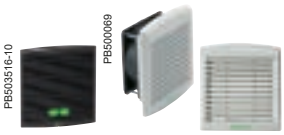
> Total quantity of enclosures needed and quantity per batch?
> Frequency of your order: single order / repeat order?
> Delivery time and method demand?
> Stock needs?
> Other comments?

Thermal management system

Thermal management system
Contents

ClimaSys **494**

Presentation 494
Overview 496



ClimaSys CV **498**
New **Smart Ventilation Systems**
Ventilation Systems



ClimaSys CE **528**
Exchangers



ClimaSys CU **539**
Cooling Units



ClimaSys CRS **556**
Ultra thin resistance heaters



ClimaSys CR **558**
Resistance Heaters



ClimaSys CC **563**
Thermal Control



ClimaSys DT **566**
Dataloggers

Method to determine a thermal management solution **570**

Thermal management system
Presentation

PB503632



Thermal problems in enclosures

Evolution of the electrical switchboard

An electrical switchboard is an assembly formed of the following components:
- The enclosure;
- Switchgear and controlgear;
- Electrical conductors; and
- Miscellaneous functions (indications, controls, information processing).

It has evolved in three directions:
- Enclosures increasingly made of insulating materials;
- Switchgear and controlgear incorporating more and more electronics which concentrates a growing number of functions in an increasingly small volume;
- An increasingly high filling rate.

Industrial safety studies, a concept which covers:
- The safety of personnel and equipment;
- The availability of electric power;

show that this is one of the critical points of all industrial and service-sector activities. Its operation must therefore be perfectly under control; and this control must concern not only the operation of its components but also their operating conditions in a given environment.

Temperature and humidity in the enclosure

Analysis of the malfunctions and stoppages of an electrical installation shows that they are mostly of thermal origin: temperature too high or too low inside the enclosure.

The rise in the average temperature, which may exceed the limits tolerated by the equipment, can be explained by the changes in electrical switchboards:
- Use of insulating materials for the enclosure, which limits heat removal;
- -Widespread adoption of electronics and a higher filling rate increase the temperature.

This overheating may concern only certain areas: hot spots.

The excessively low temperature is due to installation of the electrical switchboard in a very cold environment. It can cause the formation of condensation, a phenomenon which is harmful for the equipment.

Consequences

The presence of humidity or an excessively high temperature inside the enclosure can cause numerous malfunctions:
- Nuisance tripping of protective devices;
- Fire inside the enclosure;
- Burns for the users;
- Premature equipment ageing;

The consequence of these malfunctions is an increase in the installation's operating costs:
- Maintenance costs,
- Costs entailed by stoppage of the installation.

Thermal management system
Presentation

Solution: thermal management

Objective

The thermal management solution adopted shall:
- Maintain the temperature and the humidity level inside the enclosure at values corresponding to normal operation of the equipment.
- Establish a uniform temperature to prevent hot spots.

Choice of solution

The products constituting the thermal management solution are chosen by producing the thermal balance of the installation. This comprises 2 parts:
- Thermal balance inside the enclosure;
- Evaluation of the climatic conditions (temperature, humidity level) or environmental conditions (pollution) of the place in which the electrical switchboard is located.

The Schneider Electric solutions

With the ClimaSys range Schneider Electric proposes a comprehensive offer meeting all needs:
- Airing
- Cooling
- Heating
- Regulating
- Homogenizing (air circulation)

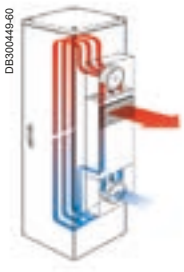
Schneider Electric also proposes a thermal design software program, ProClima, which produces the thermal balance and proposes one or more thermal management solutions.

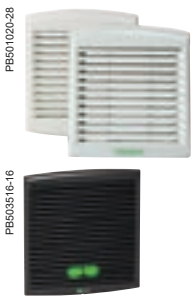
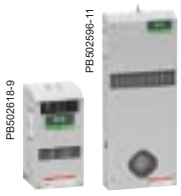
	Smart ClimaSys	ClimaSys
Cooling	New PB503526-34 Smart ventilation systems	PB501021-35 Forced ventilation systems PB502618-9, PB502596-11 Air-air exchangers PB502606-16, PB502593-11 Air-water exchangers PB502631-7, PB502615-9 Cooling units
Heating		PB501026-12, PB501027-12, PB501029-8, PB502042-4 Resistance heaters
Controlling	New PB503542, PB503568 Smart thermal control accessories	PB501160-24, PB501158-24, PB501172-25, PB501162-25 Thermal control accessories PB502624, PB502623, PB502513
Thermal data	PB503401-17, PB503318-21 Diagnostic tools	DB301274 Efficlima software PB500011-33 Proclima software

Thermal management system
Solutions overview





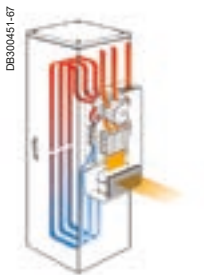


	Homogenize	Cool		
Solution	**Air circulation**	**Natural ventilation**	**Forced ventilation**	**Air-air exchanger**
Description	Stirring fan inside the enclosure.	Air circulation achieved by installing grids (side or roof-mounted) with or without filter, or by elevating the roof.	A fan (with or without filter) sucks fresh air from outside to inside the enclosure, thereby creating a slight overpressure which causes removal of the hot air through an outlet grid. The air circulation homogenizes the temperature and the overpressure prevents dust from entering. Side or roof mounting. Can be combined with a thermostat.	Cooling system provided with an aluminum exchange coil to separate the internal and external air circuits, two centrifugal fans to blow in the air circuits, and a thermostat to regulate the temperature in the enclosure. Side or roof mounting.
Use	Prevent hot spots.	Low power to be dissipated. Dusty environment.	High power to be dissipated. Dusty and non- hazardous environment. Prevent hot spots.	Medium power to be dissipated. Corrosive environment (food processing industry). Relatively cold environment (about 25°C).
Temperature conditions *	**None**	**Td > Ta + 5°C**	**Td > Ta + 5°C** **3°C < Ta ≤ 35°C**	**Td > Ta + 10°C**
Independent internal and external air circuits?	**No**	**No**	**No**	**Yes**
Advantages	■ Uniform temperature inside the enclosure.	■ Very economical solution ■ Easy maintenance ■ Easy, fast installation.	■ Economical solution ■ Easy maintenance ■ Easy, fast installation ■ Uniform temperature inside the enclosure ■ Guaranteed level of protection up to: IP55 (IP54 for roof models).	■ Easy maintenance (no filter) ■ Far lower maintenance frequency than for fans ■ IP55 guaranteed.
Disadvantages		■ Low power dissipated ■ Reduction in the degree of protection IP ■ Risk of ingress of particles and dust if no filter.	■ Internal temperature always higher than the external temperature ■ Maintenance required: change of filters.	■ Internal temperature always higher than the external temperature.
Illustration		 Outlet grids	 Fans	 Air-air exchangers

**Ta = ambient temperature (outside the enclosure)*
Td = desired temperature inside the enclosure

Thermal management system
Solutions overview







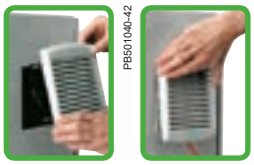
	Cool		Heat
	Air-water exchanger	**Cooling unit**	**Heating resistor**
	Cooling system provided with an exchange coil supplied with cold water and separated from the internal air circuit, a centrifugal fan for the air circuit, and a thermostat to regulate the temperature in the enclosure. Side mounting.	Operates like a heat pump: A condenser removes to the ambient air the calories absorbed by an evaporator. The air inside the enclosure is thus cooled and dried. Side, floor, roof and floor-standing mounting.	The heating resistors prevent the formation of condensation and ensure an ideal temperature inside the enclosure.
	Large quantity of heat to be removed. Difficult environments (cement plant, production lines, greasy workshops, etc.) or humid environments (sewage plant, bottling factory, etc.). Do not discharge calories into the environment.	Highly polluted environment but which permits the use of a filter for external protection of the cooling unit.	To heat the inside of the enclosure and prevent condensation.
	Ta > Td	**Ta > Td and Ta ≤ 55°C**	**Ta < Td**
	Yes	**Yes**	-
	■ Internal temperature independent of the external temperature ■ Security system against any leaks ■ Calories dissipated outside ■ Guaranteed level of protection: IP55.	■ Internal temperature independent of the external temperature ■ Uniform temperature inside the enclosure. ■ Guaranteed level of protection: IP54 for roof and big cooling models, IP55 for side models and the SLIM range ■ Use of an ecological gas. ■ Installation of a system from removal of condensation water from the evaporator	■ Small size (1.6 mm thick for the ultra-thin version) ■ Low surface temperature (< 70°C for insulated version, 75°C for aluminum version) ■ Uniform temperature inside the enclosure with the version equipped with a fan.
	■ There must be a cold water circuit of stable temperature and flow rate ■ Installation of special piping.	■ Water condensation evaporation unit integrated in side mounting models from 0.6 kW to 4 kW ■ Maintenance required: change of filters.	
	 Air-water exchangers	 Cooling units	 Heating resistors

Thermal management system
Introduction

> Large range of fans:
flow rate efficiency, high protection rating, quick installation and easier maintenance to secure all the applications.

Ventilation systems

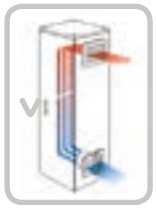
PB501039-22 PB501040-42



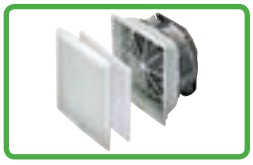
Easy installation

Quick installation
- Safe, reliable fixing with the assisted fixing device and the system of multi-thickness fixing-clips.
- Easy to invert.
- To operate as extractors, all the motors can be inverted by simply removing four screws.

DB300448-41



PB501041-27



Easy maintenance

Quick filter replacement
Quick, easy and safe replacement of the filter installed in the fan, even during operation.

PB501021-80



PB501042-28



Quality of the components

Selection of the motors
- Improved flow rate and longer service life.
- Large range of input voltages available on all the motors delivered as standard, with alternating 50/60 Hz or direct current.

DB123816-26

Certifications
- UL

PB501032-38



Optimised flow rate: average increase of 50 %
- Maximum use of surface.
- Minimum loss of pressure.

Innovation

PB503602



New

Smart ventilation systems

PB503599



The smartest way to keep critical equipment cool
- Intelligent filter.
- Adaptable to any new or existing enclosures.

> See page 500

Thermal management system
Introduction

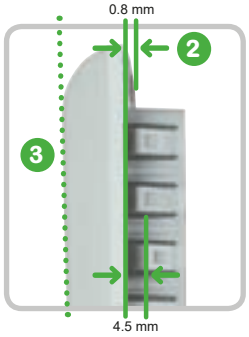
High protection rating: IP54 as standard

PB501034-40



1 - Fixing guide
- To centre the body of the fan on the wall of enclosure.
- To correct machining faults.
- To facilitate the correct operation of the fixing "clips".

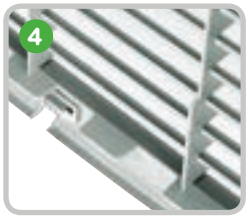
PB501035-86



2 - Multi-thickness fixing-clips
- To guarantee easy and reliable fixing of the ventilation system.
- With a thickness of 0.8 to 4.5 mm, with no fixings.

3 - Inclined profile of the grille
- To protect the filter against vertical spraying:
  - each slat is protected by the slat above it,
  - the external dimensions remain small.

PB501036-52



4 - IP54-55
A patented system allows the evacuation of water absorbed by the filter, in particular during high-pressure spraying.

PB501037-40



5 - Hot-fitted sealing gasket
The polyurethane gasket, hot cast, guarantees a long-lasting seal.

PB501038-51



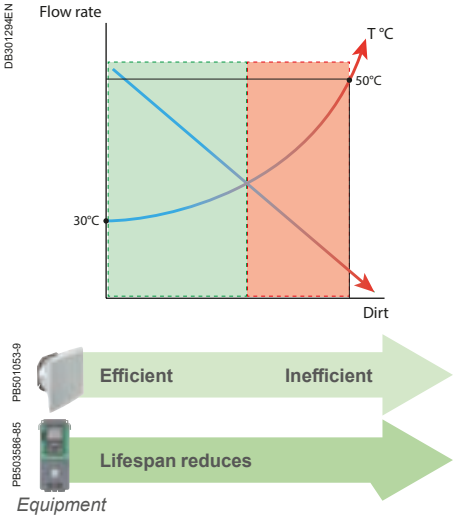
6 - Effective system for retaining the filter
The system for holding the synthetic filter in the cavity of the filter holder guarantees a protection rating of IP54, in the most difficult conditions.

Thermal management system
ClimaSys Smart Ventilation System

Innovation

Problems generated by dirty filters

60% of installations face quality issues caused by dirty filters



> Product malfunction or breakdown of the panel
- Overheating issues
- Conductivity issues due to dust
- Damage to internal moving parts

> Reduced lifespan of installed equipment

> Low energy efficiency of the panel
- Overconsumption of the fan

> Safety issues
- Risk of fire/burning

All these issues are due to the presence of dust and/or ventilation malfunction; they can be avoided with the use of a smart ventilation system.

HEALTH OF EQUIPMENT = FILTER'S DUST LEVEL

The concept of the ClimaSys Smart Ventilation System (CSVS)

The ClimaSys Smart Ventilation System is a smart, closely integrated network that makes your life easier.



DB301300

90%
savings on filter maintenance

> Use corrective and predictive maintenance of the ventilation system to:
- Improve CAPEX and OPEX of the installation
- Improve maintenance and operation of the installation
- Improve peace of mind
- Improve maintenance cost

for new and already existing installations.

> Functions of the CSVS systems:

Detect general poor health of the enclosure by monitoring:
- Input/output temperature

Detect fan issues by monitoring:
- Air flow temperature
- Current level, consumed energy
- Blade speed measurement
- Used and remaining (approximate) lifespan

Detect grid filter issues:
- Air flow temperature
- Dust level (0% clean – 100% dirty)
- Number of replacements
- Remaining time before next replacement

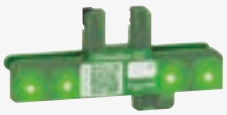
Thermal management system
ClimaSys Smart Ventilation System

Innovation

The technical solution

2 sensors…

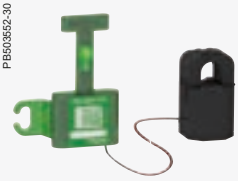
PB503557-30



Dust Sensor
(patented)
NSYCCAFSDUST

Composed of an optical sensor which detects the filter dirt level + temperature sensor

PB503552-30



Fan Sensor
NSYCCARPM

Composed of:
- RPM sensor to control fan rotation and transported air temperature
- Toroidal sensor to measure fan consumption

… connected to a **controller** which relays information and alarms

PB503542-30



Filterstat™ Controller ClimaSys CC DG
NSYCCOFST•••V

Information displayed on Filterstat's controller screen

- **Detect general poor health of enclosure by monitoring:**
  - Input/output temperature
- **Detect fan issues by monitoring:**
  - Air flow temperature
  - Current level, consumed energy
  - Blade speed measurement
  - Used and remaining (approximate) lifespan
- **Detect grid filter issues:**
  - Air flow temperature
  - Dust level (0% clean – 100% dirty)
  - Number of replacements
  - Remaining time before next replacement

The alarms
The system offers different types of alarms for notification when something is not right:

Alarms
- **Dust filter alarm**: filter capacity is below from a user-defined level.
  0%-60% (Green LED Colour), 60%-80% (Orange LED Colour), >80% (Flashing Red LED Colour)
- **No electricity supply to fan**: fan is running (there is an rpm reading but the current sensor shows a 0 mA reading).
- **Fan rpm slow**: fan speed is below a user-predefined level.
- **Fan flaps blocked:** consumption in a fan is detected but the rpm speed is zero.
- **Over-temperature alarm on airflow**: fan exceeds a user-defined threshold.
- **Over-temperature or down-temperature alarm**: on inlet or outlet air from grids.
- **Fan lifespan over:** the fan lifetime has almost expired and should be replaced (front LEDs light up purple).
- **Δt deviation**: Δt deviation is greater that a user-predefined threshold.
- **Remote sensor not connected/broken**: a device in the network is disconnected.

Thermal network architecture

> The greenfield solution for **new installations**

We offer a range of digital devices that can be connected together and optionally also to a remote supervisor.
See page 502

> The brownfield kit for **retrofit installations**

It is easy to upgrade an **existing installation** to a digital one.
See page 503

PB503530-104



Thermal management system
ClimaSys Smart Ventilation System

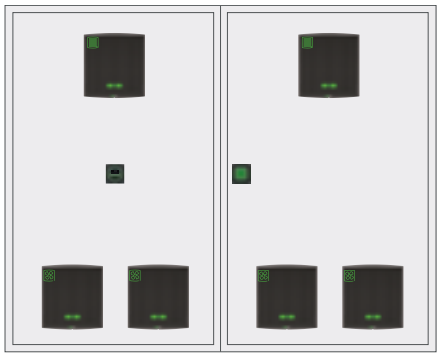
Innovation

Build your greenfield solution for a new installation

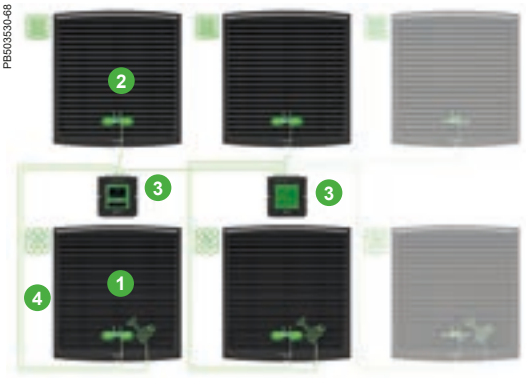
DB301301

The nucleus of the system is the ClimaSys Filterstat™ controller that collects information from filter and fan sensors across all of your enclosures.

DB301288-57



PB503530-68



1 Select your Smart Fan

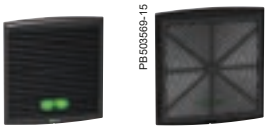
PB503599-19 PB503516-13 PB503562-14



See details page 504

2 Select your Smart Grid

PB503516-13 PB503569-15



NSYCAG92DG

See details page 508

New ClimaSys Smart Grids Offer

Complete Smart Grid that includes:
- a Dust Sensor
- a Smart Filter G2*

Grid cut-out (mm²)	Grid references
92x92	**NSYCAG92DG**
125x125	**NSYCAG125DG**
223x223	**NSYCAG223DG**
291x291	**NSYCAG291DG**

** G3 smart filter to be order separately (see page 509).*

[!] Control devices (thermostat, hygrostat, hygrotherm) **must be ordered separately.**

3 Select your controller and potential thermal hubs to digitalize more than 1 enclosure

PB503542-16



NSYCCOFST90250V

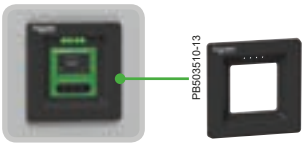
PB503568-16



NSYCCOFSEM8U•

Filterstat Controllers (4 ports) and thermal hubs (8 ports)		
Voltage (V)	**Controller ref.**	**Thermal hub ref.**
30V AC/DC	**NSYCCOFST30V**	**NSYCCOFSEM8U1**
90-250V AC	**NSYCCOFST90250V**	**NSYCCOFSEM8U2**

PB503602-231 PB503510-13



Modular frame IP55

Trim frame IP55 for installing the Filterstat Controller and thermal Hub on enclosure doors, side panels etc.
Material and colour: same as controller.

Reference
NSYCCOFR55

4 Select your communication cables

(the commonest architecture is made up of 3 cables to be selected for 1 enclosure with 1 fan at the bottom and 1 grid at the top)

PB503514-26



NSYCCA50MFST

Filterstat communication cable

Black unshielded cable with 2 connectors on each side.
Material: PVC.

Length (mm)	Cable references
500	**NSYCCA50MFST**
1000	**NSYCCA100MFST**
1500	**NSYCCA150MFST**
2000	**NSYCCA200MFST**
3000	**NSYCCA300MFST**
4000	**NSYCCA400MFST**
5000	**NSYCCA500MFST**

Easy product selection with the Proclima selection tool

Thermal management system
ClimaSys Smart Ventilation System

Innovation

Select your brownfield kit for an existing installation

To digitalize an existing installation, order the appropriate brownfield kit:

DB301302

PB503531-68



Suitable for existing enclosures with fan at the bottom and grid at the top (lateral or door)

Characteristics		Brownfield kits
Grid cut-out size (mm)	**Cable size (m)**	**References**
92 x 92	0.5	**NSYCCFSBRKIT92**
125 x 125	1	**NSYCCFSBRKIT125**
223 x 223	1.5	**NSYCCFSBRKIT223**
291 x 291	2	**NSYCCFSBRKIT291**

The kit includes:

- 2 units external covers grey smokey grids
- 2 units smart filters (2 Filter Mat G2 + 2 dust sensors)
- 1 unit Filterstat Controller (90-250 V, 50 Hz-60Hz)
- 3 cables
- 1 rpm + toroidal sensor
- Other equipment: 10 stickers and retainer flaps mini-tool kit

... or select brownfield components separately:

PB503516-13



PB503517-14



PB503598-18



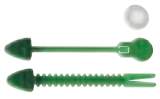
PB503557-22



Characteristics	External Smart Grids	External smokey grids	Smart filters*			Dust Sensor
	External grids equipped with G2 filter and Dust Sensor to be installed in an existing grid support.	External grids to be installed in an existing grid support or used as spare part. Smart filter and Dust sensor to be ordered separately.	Set of 5 Smart filters for replacement on Smart Fans and Smart Grids.			Individual Dust Sensor ready to be implemented on any existing ClimaSys CV fan or ClimaSys CA grids in the brownfield installation or used as spare part.
Grid cut-out size(mm)	**References**		**Filter type**		**References**	
92 x 92	**NSYCAG92DGC**	**NSYCAG92BPC**	M1	G2	**NSYCAF92DG**	**NSYCCAFSDUST**
125 x 125	**NSYCAG125DGC**	**NSYCAG125BPC**	M1	G2	**NSYCAF125DG**	
			M1	G3	**NSYCAF125G3DG**	
223 x 223	**NSYCAG223DGC**	**NSYCAG291BPC**	M1	G2	**NSYCAF223DG**	
			M1	G3	**NSYCAF223G3DG**	
291 x 291	**NSYCAG291DGC**	**NSYCAG223BPC**	M1	G2	**NSYCAF291DG**	
			M1	G3	**NSYCAF291G3DG**	

** See details page 509.*

PB503518-12



PB503552-22



10 stickers and retainer flaps mini-tool kit	Fan Sensor
Tool kit for digitalizing fans in brownfield installations without opening fan motor rear grids.	Individual Fan Sensor ready to be implemented on any existing fan in the brownfield installation or used as spare part.
Reference	
NSYCCABLK	**NSYCCARPM**

Thermal management system
Characteristics

New

Smart ventilation systems

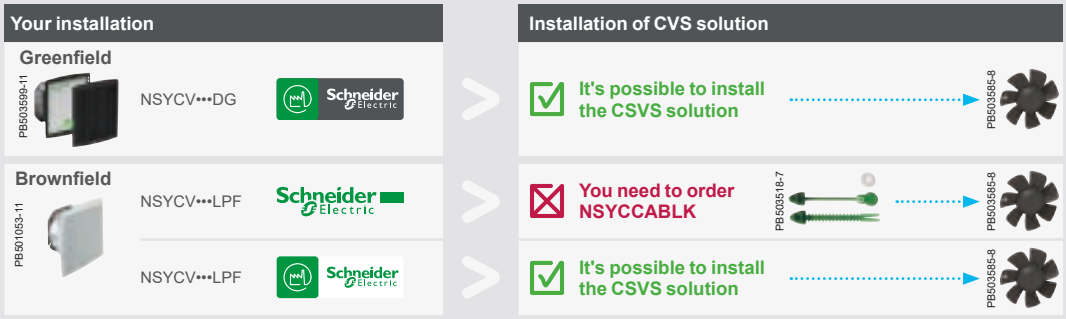
Forced ventilation

Characteristics

Material of external grids	
Colour of external grids	
Conditions of use	
Ingress protection rating (according to IEC 60529)	
Mechanical protection rating (according to IEC 62262)	
Installation	
Options	

Free flow rate with standard filter (m³/h)	Flow rate with outlet grille(s) (m³/h)		Voltage range (nominal voltage)	Absorbed power (max. intensity)	Noise level	External dimensions (cut-out)	Weight	Operating temperature	Max. static pressure
	1	2							
34 (50 Hz) 35 (60 Hz)	21 (50 Hz) 22 (60 Hz)	29 (50 Hz)	150 V...250 V (230 V)	4.5/4.8 W (0.16/0.17 A)	40/41 dB (A)	137 x 117 x 49 (92 x 92)	0.220 kg	-10...+ 70°C	29 Pa
34 (50 Hz) 35 (60 Hz)	23 (50 Hz) 24 (60 Hz)	35 (50 Hz)	75 V...125 V (115 V)	3.3/3.5 W (0.16/0.16 A)	40/41 dB (A)	137 x 117 x 49 (92 x 92)	0.220 kg	-10...+ 70°C	29 Pa
74 (50 Hz) 87 (60 Hz)	52 (50 Hz) 61 (60 Hz)	60 (50 Hz)	175 V...253 V (230 V)	17/15 W (0.121/0.097 A)	46/49 dB (A)	170 x 150 x 62 (125)	0.780 kg	-20…+60°C	50 Pa
68 (50 Hz) 81 (60 Hz)	54 (50 Hz) 63 (60 Hz)	62 (50 Hz)	75 V...126 V (115 V)	16/15 W (0.207/0.179 A)	46/49 dB (A)	170 x 150 x 62 (125)	0.780 kg	-20…+60°C	50 Pa
142 (50 Hz) 170 (60 Hz)	130 (50 Hz) 151 (60 Hz)	138 (50 Hz) 152 (60 Hz)	175 V...253 V (230 V)	16.3/14.3 W (0.12/0.94 A)	50/51 dB (A)	268 x 248 x 104 (223 x 223)	1.140 kg	-20…+60°C	50 Pa
151 (50 Hz) 173 (60 Hz)	130 (50 Hz) 151 (60 Hz)	138 (50 Hz) 156 (60 Hz)	75 V...126 V (115 V)	15.5/14.4 W (0.20/0.18 A)	50/51 dB (A)	268 x 248 x 104 (223 x 223)	1.140 kg	-20…+60°C	50 Pa
259 (50 Hz) 307 (60 Hz)	209 (50 Hz) 251 (60 Hz)	218 (50 Hz)	145 V...253 V (230 V)	36/37 W (0.17/0.16 A)	55/56 dB (A)	268 x 248 x 116 (223 x 223)	1.3 kg	-10...+ 70°C	158 Pa
259 (50 Hz) 307 (60 Hz)	209 (50 Hz) 251 (60 Hz)	221 (50 Hz)	75 V...126 V (115 V)	36/36 W (0.35/0.32 A)	55/56 dB (A)	268 x 248 x 116 (223 x 223)	1.3 kg	-10…+70°C	158 Pa
502 (50 Hz) 526 (60 Hz)	412 (50 Hz) 448 (60 Hz)	420 (50 Hz)	207 V...244 V (230 V)	68/85 W (0.52/0.370 A)	59/59 dB (A)	336 x 316 x 161 (291 x 291)	3.2 kg	-15…+60°C	140 Pa
522 (50 Hz) 526 (60 Hz)	425 (50 Hz) 417 (60 Hz)	434 (50 Hz)	103 V...122 V (115 V)	65/83 W (0.60/0.72 A)	59/59 dB (A)	336 x 316 x 161 (291 x 291)	3.2 kg	-15…+60°C	140 Pa
638 (50 Hz) 603 (60 Hz)	500 (50 Hz) 462 (60 Hz)	528 (50 Hz)	207 V...244 V (230 V)	150/195 W (0.65/0.85 A)	76/75 dB (A)	336 x 316 x 162 (291 x 291)	4.1 kg	-15…+60°C	170 Pa
783 (50 Hz) 744 (60 Hz)	643 (50 Hz) 442 (60 Hz)	654 (50 Hz)	103 V...122 V (115 V)	145/182 W (1.279/1.6 A)	78/77 dB (A)	336 x 316 x 162 (291 x 291)	4.1 kg	-15…+60°C	170 Pa
731 (50 Hz) 603 (60 Hz)	598 (50 Hz) 368 (60 Hz)	609 (50 Hz)	396 V...466 V (400 V)	126/126 W (0.226/0.232 A)	77/75 dB (A)	336 x 316 x 162 (291 x 291)	4.1 kg	-15…+60°C	170 Pa

How to identify whether your ClimaSys CV fan has been upgraded to install the CSVS solution?



Thermal management system
Characteristics





	Forced ventilation fan 38 m³/h	Forced ventilation fan 85 m³/h	Forced ventilation fan 165 m³/h	Forced ventilation fan 300 m³/h	Forced ventilation fan 560-850 m³/h
	The Smart fans are equipped with an axial motor, a protective housing on the front, rear surfaces, and a Smart filter with Dust sensor and a Fan sensor with infrared technology. The external smokey grid displays the status of the ventilation functions through the LED colours of the Dust sensor. This Smart filter can be replaced for maintenance during operation without risk of contact with the rotating element.				
	Injected thermoplastic (ASA PC). self-extinguishing according to UL 94 V-0.				
	Smokey black RAL 9005				
	■ The external temperature must not exceed 30°C and must be more than 5°C lower than the temperature required in the enclosure ■ The Smart filters that equip the Smart fans must be replaced when the alarm is triggered Filterstat controller (see more details page 501) ■ Storage Temperature: -40…+ 70°C				
	IP54				
	IK08				
	The cut-out template supplied with the device avoids the need for marking and protects the surface of the enclosure during handling.				
	For maintenance replacement of Smart filters please see spare parts references, page 509				
	Type of connection				
	by cable	**by faston (1)**	**by faston (1)**	**by faston (1)**	**by terminal block**
	NSYCVF38M230DG*	-	-	-	-
	NSYCVF38M115DG*	-	-	-	-
	-	**NSYCVF85M230DG**	-	-	-
	-	**NSYCVF85M115DG**	-	-	-
	-	-	**NSYCVF165M230DG**	-	-
	-	-	**NSYCVF165M115DG**	-	-
	-	-	-	**NSYCVF300M230DG**	-
	-	-	-	**NSYCVF300M115DG**	-
	-	-	-	-	**NSYCVF560M230DG**
	-	-	-	-	**NSYCVF560M115DG**
	-	-	-	-	**NSYCVF850M230DG**
	-	-	-	-	**NSYCVF850M115DG**
	-	-	-	-	**NSYCVF850M400DG**

(1) Fan models with connection are delivered with the connection cord included (2 metres).
** Warning: the fan **NSYCVF38M230DG** & **NSYCVF38M115DG** MUST NOT be connected to a power conversion module, an inverter or UPS type of power supply !*

High-visibility LED indicators



Dust filter alarm 0%-60% | *Dust filter alarm 60%-80%* | *Dust filter alarm >80%* | *Fan lifespan ended* | *PING function**

**Identification of the sensor on the panel (flashing blue color)*

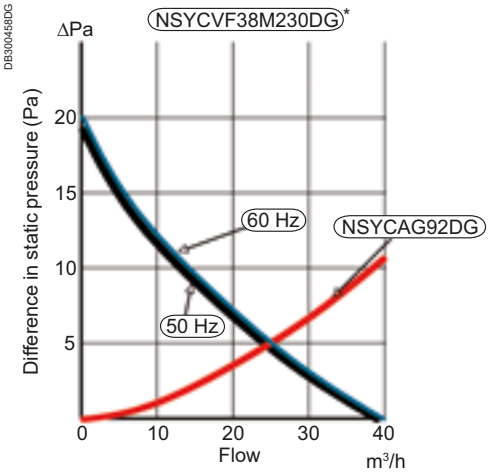
Thermal management system
Dimensions

New

Smart ventilation systems

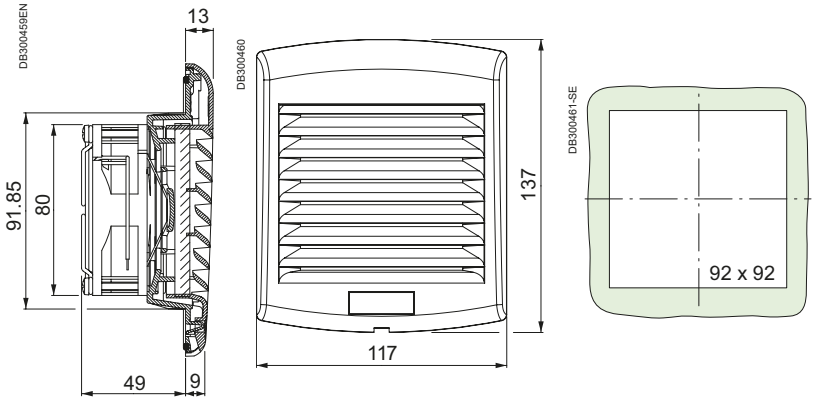
Fan 38 m³/h

Flow curves



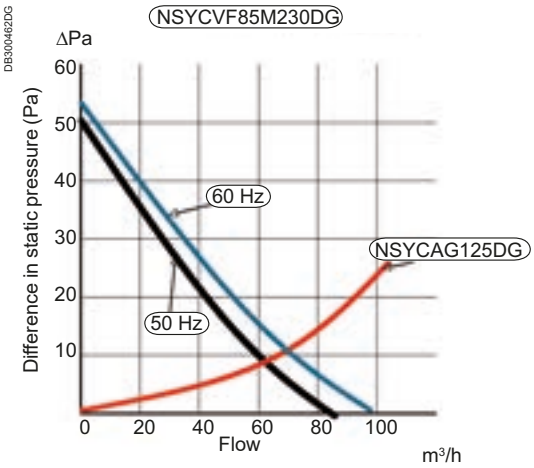
** Warning: the fan **NSYCVF38M230DG** MUST NOT be connected to a power conversion module, an inverter or UPS type of power supply!*
***Note:** Adding the Dust Sensor will decrease the flow rate by nearly 10%.*

Dimensions



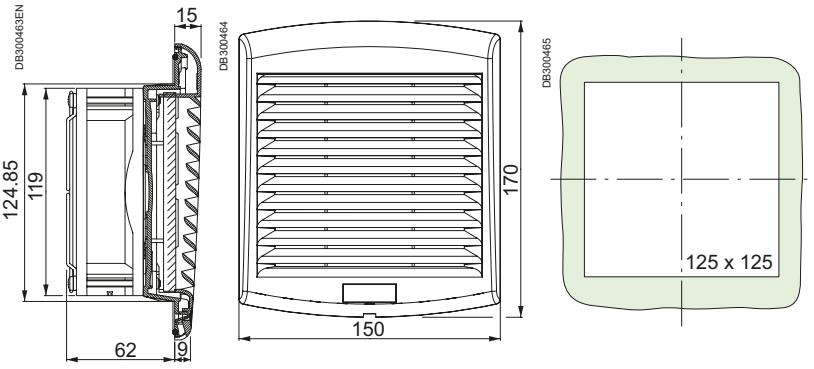
Fan 85 m³/h

Flow curves



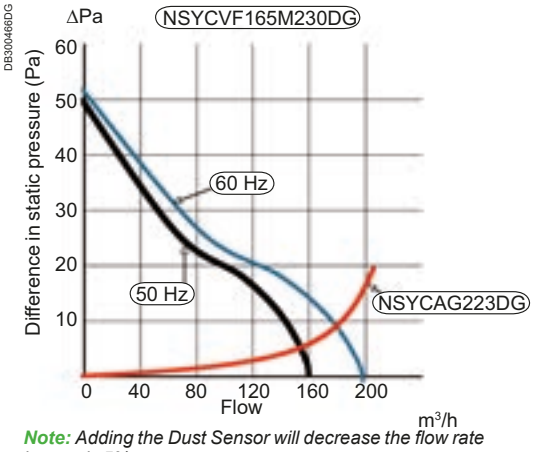
***Note:** Adding the Dust Sensor will decrease the flow rate by nearly 5%.*

Dimensions



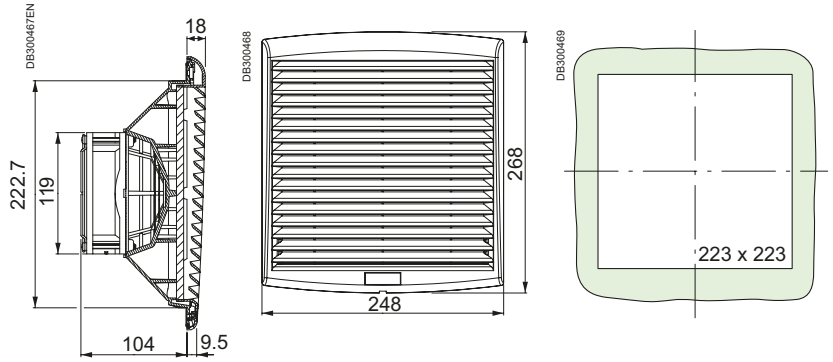
Fan 165 m³/h

Flow curves



***Note:** Adding the Dust Sensor will decrease the flow rate by nearly 5%.*

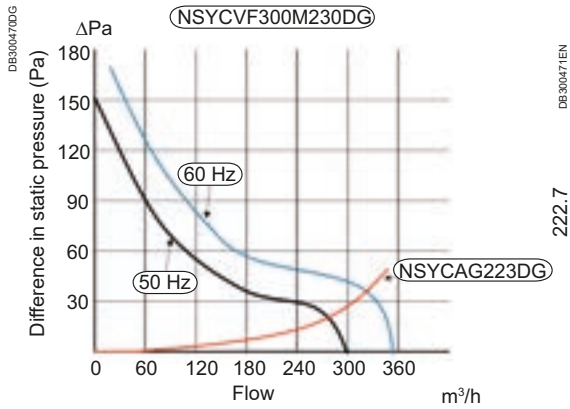
Dimensions



Thermal management system
Dimensions

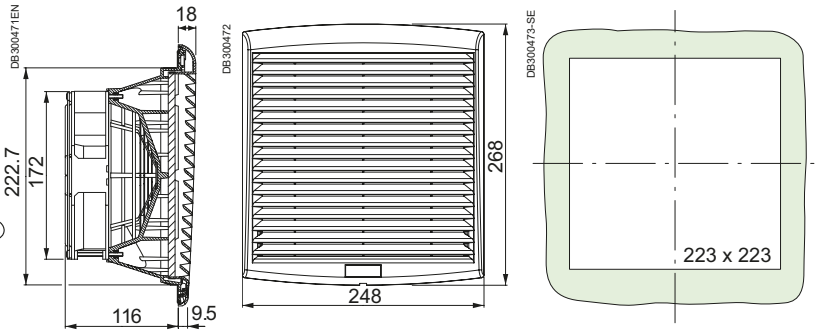
Fan 300 m³/h

Flow curves



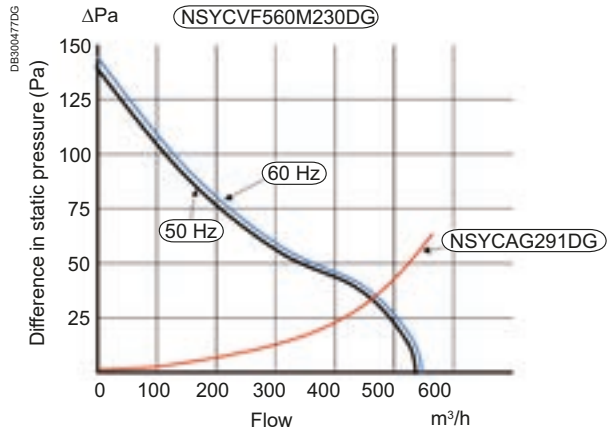
Note: Adding the Dust Sensor will decrease the flow rate by nearly 5%.

Dimensions

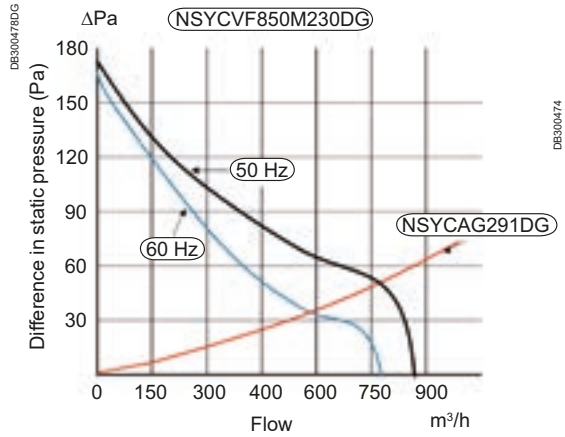


Fan 560-850 m³/h

Flow curves



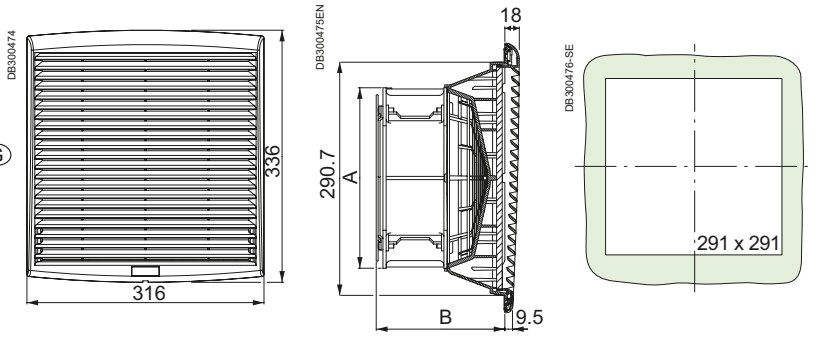
Note: Adding the Dust Sensor will decrease the flow rate by nearly 5%.



Note: Adding the Dust Sensor will decrease the flow rate by nearly 5%.

Dimensions

A	B	References
225	160.5	**NSYCVF560M230DG** **NSYCVF560M115DG**
280	162	**NSYCVF850M230DG** **NSYCVF850M115DG**



New

Smart Grid systems

PB503516-24

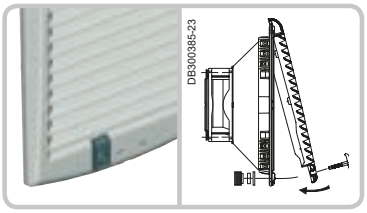


PB503516-24



Characteristics				Complete Smart Grids	External Smart Grids (without internal grid systems)
				Complete Smart Grid that includes: ■ a Dust Sensor ■ a SmartFilter G2	External grids equipped with G2 Smart filter and Dust Sensor to be installed in an existing grid support.
Material				Injected thermoplastic (PC), self-extinguishing according to UL 94 V-0	Injected thermoplastic (PC), self-extinguishing according to UL 94 V-0
Colour				Smokey black RAL 9005	Smokey black RAL 9005
Ingress protection rating (according to IEC 60529)				IP54	IP54
Height (mm)	**Width (mm)**	**Depth (mm)**	**Cut-out (mm)**		**References**
137	117	13	92 x 92	**NSYCAG92DG**	**NSYCAG92DGC**
170	150	15	125 x 125	**NSYCAG125DG**	**NSYCAG125DGC**
268	248	18	223 x 223	**NSYCAG223DG**	**NSYCAG223DGC**
336	316	18	291 x 291	**NSYCAG291DG**	**NSYCAG291DGC**

PB501056-29



DB300385-23

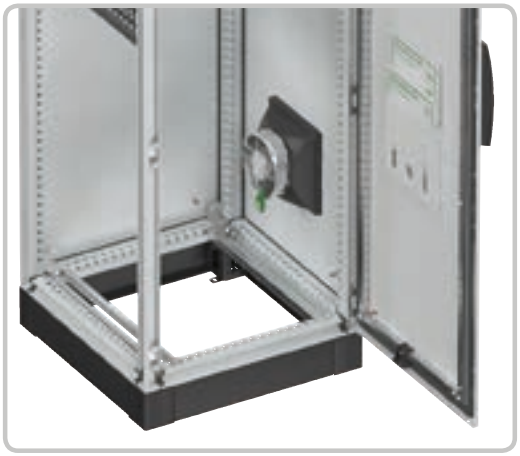
Characteristics	Anti-vandalism kit
	Prevents the grid from being opened from the outside. The unlocking thumbwheel is accessed from the inside of the enclosure.
Colour	RAL 7011
Minor packaging	**Reference**
2	**NSYCAAPV**

Pockets

PB500464-19

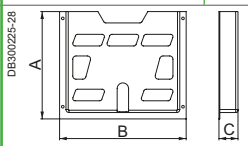


PB503633-66



Characteristics				Plastic document pocket	
				Fixed by adhesive tape.	
Material				Polystyrene (PS)	
Colour				RAL 7035 grey (NSYDPA4: RAL 9001)	
Supply				1 plastic document pocket	
Dimensions (mm)				**References**	**Smart filter references**
Doc. format	**A**	**B**	**C**		
A5	174	188	22	**NSYDPA5**	NSYCAF92•DG & NSYCAF125•DG
A4	230	247	23	**NSYDPA4**	NSYCAF223•DG
A4	234	278	40	**NSYDPA44** (1)	NSYCAF223•DG
A3	285	476	35	**NSYDPA3**	NSYCAF291•DG

DB300225-28



(1) Not compatible with 19" chassis or modular distribution installation.

Thermal management system
Accessories

PB503517-24



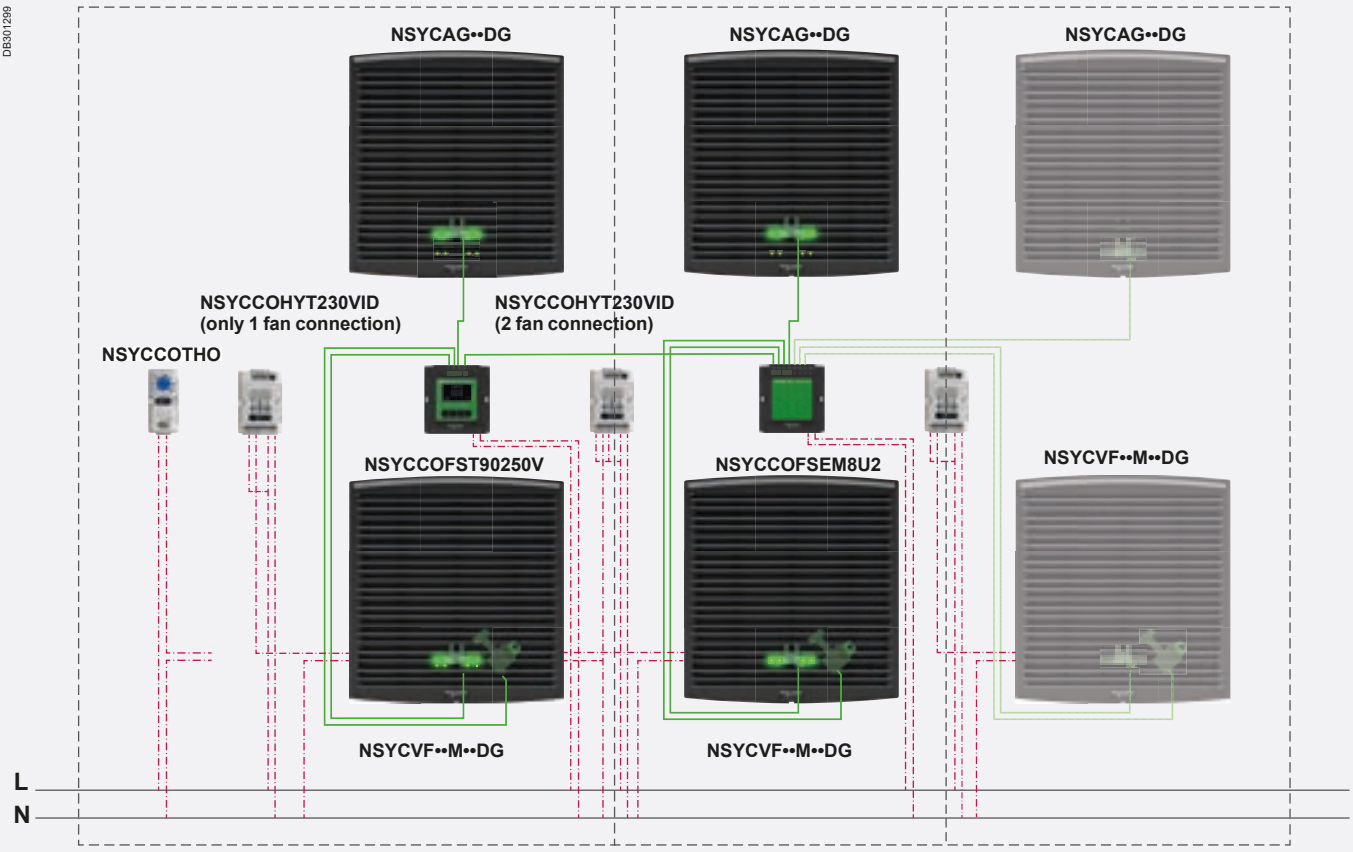
PB503598-30



	External smokey grids (external cover only)	Smart filters			
		G2 M1 filters		G3 M1 filters	
	External grids to be installed in an existing grid support or used as spare part. Smart filter and Dust sensor to be ordered separately.	Set of 5 Smart filters for replacement on Smart Fans and Smart Grids. For fans and grilles.			
	Injected thermoplastic (PC), self-extinguishing according to UL 94 V-0	Polyester. Filters according to ISO 16890.			
	Smokey black RAL 9005	White with green lettering			
	IP54	-			
		Pack.	References	Pack.	References
	NSYCAG92BPC	5	**NSYCAF92DG**	-	-
	NSYCAG125BPC	5	**NSYCAF125DG**	5	**NSYCAF125G3DG**
	NSYCAG291BPC	5	**NSYCAF223DG**	5	**NSYCAF223G3DG**
	NSYCAG223BPC	5	**NSYCAF291DG**	5	**NSYCAF291G3DG**

ClimaSys (CSVS) General wiring diagram

DB301299



Thermal management system
Characteristics

Ventilation Systems

Forced ventilation

Characteristics

Material external grids	
Colour external grids	
Conditions of use	

Ingress protection rating (according to IEC 60529)	
Mechanical protection rating (according to IEC 62262)	
Installation	
Options	

Free flow rate with standard filter (m^3/h)	Flow rate with outlet grille(s) (m^3/h)		Voltage range (nominal voltage)	Absorbed power (max. intensity)	Noise level	External dimensions (cut-out)	Weight	Operating temperature	Max. static pressure
	1	2							
38 (50 Hz) 39 (60 Hz)	25 (50 Hz) 26 (60 Hz)	33 (50 Hz)	150 V...250 V (230 V)	4.5/4.8 W (0.16/0.17 A)	40/41 dB (A)	137 x 117 x 49 (92 x 92)	0.220 kg	-10...+ 70°C	29 Pa
38 (50 Hz) 39 (60 Hz)	27 (50 Hz) 28 (60 Hz)	35 (50 Hz)	75 V...125 V (115 V)	3.3/3.5 W (0.16/0.16 A)	40/41 dB (A)	137 x 117 x 49 (92 x 92)	0.220 kg	-10...+ 70°C	29 Pa
58	39	47	10 V...27.6 V (24 V DC)	3.6 W (0.18 A)	40/41 dB (A)	137 x 117 x 49 (92 x 92)	0.230 kg	-10...+ 70°C	29 Pa
44	34	41	36 V...56 V (48 V DC)	3.6 W (70 mA)	40/41 dB (A)	137 x 117 x 49 (92 x 92)	0.230 kg	-10...+ 70°C	29 Pa
85 (50 Hz) 98 (60 Hz)	63 (50 Hz) 72 (60 Hz)	71 (50 Hz)	175 V...253 V (230 V)	17/15 W (0.121/0.097 A)	46/49 dB (A)	170 x 150 x 62 (125)	0.780 kg	-20…+60°C	50 Pa
79 (50 Hz) 92 (60 Hz)	65 (50 Hz) 74 (60 Hz)	73 (50 Hz)	75 V...126 V (115 V)	16/15 W (0.207/0.179 A)	46/49 dB (A)	170 x 150 x 62 (125)	0.780 kg	-20…+60°C	50 Pa
80	57	77	10 V...27.6 V (24 V DC)	7.6 W (0.30 A)	46/49 dB (A)	170 x 150 x 62 (125)	0.480 kg	-10...+ 70°C	50 Pa
79	59	68	25 V...55.2 V (48 V DC)	8 W (0.173 A)	46/49 dB (A)	170 x 150 x 62 (125)	0.480 kg	-10...+ 70°C	50 Pa
165 (50 Hz) 193 (60 Hz)	153 (50 Hz) 171 (60 Hz)	161 (50 Hz) 175 (60 Hz)	175 V...253 V (230 V)	16.3/14.3 W (0.12/0.94 A)	50/51 dB (A)	268 x 248 x 104 (223 x 223)	1.140 kg	-20…+60°C	50 Pa
164 (50 Hz) 193 (60 Hz)	153 (50 Hz) 171 (60 Hz)	161 (50 Hz) 179 (60 Hz)	75 V...126 V (115 V)	15.5/14.4 W (0.20/0.18 A)	50/51 dB (A)	268 x 248 x 104 (223 x 223)	1.140 kg	-20…+60°C	50 Pa
188	171	179	10 V...27.6 V (24 V DC)	8 W (0.3 A)	50/51 dB (A)	268 x 248 x 104 (223 x 223)	0.810 kg	-10...+ 70°C	50 Pa
193	171	179	25 V...55.2 V (48 V DC)	8.7 W (0.18 A)	50/51 dB (A)	268 x 248 x 104 (223 x 223)	0.810 kg	-10...+ 70°C	50 Pa
302 (50 Hz) 350 (60 Hz)	260 (50 Hz) 307 (60 Hz)	268 (50 Hz)	145 V...253 V (230 V)	36/37 W (0.17/0.16 A)	55/56 dB (A)	268 x 248 x 116 (223 x 223)	1.3 kg	-10...+ 70°C	158 Pa
302 (50 Hz) 350 (60 Hz)	263 (50 Hz) 307 (60 Hz)	271 (50 Hz)	75 V...126 V (115 V)	36/36 W (0.35/0.32 A)	55/56 dB (A)	268 x 248 x 116 (223 x 223)	1.3 kg	-10…+70°C	158 Pa
262	221	229	12 V...30 V (24 V DC)	13 W (0.53 A)	55/56 dB (A)	268 x 248 x 103.4 (223 x 223)	1.1 kg	-10...+ 70°C	158 Pa
247	210	218	25 V...60 V (48 V DC)	11 W (0.24 A)	55/56 dB (A)	268 x 248 x 103.4 (223 x 223)	1.1 kg	-10…+70°C	158 Pa
562 (50 Hz) 586 (60 Hz)	473 (50 Hz) 477 (60 Hz)	481 (50 Hz)	207 V...244 V (230 V)	68/85 W (0.52/0.370 A)	59/59 dB (A)	336 x 316 x 161 (291 x 291)	3.2 kg	-15…+60°C	140 Pa
582 (50 Hz) 586 (60 Hz)	485 (50 Hz) 477 (60 Hz)	494 (50 Hz)	103 V...122 V (115 V)	65/83 W (0.60/0.72 A)	59/59 dB (A)	336 x 316 x 161 (291 x 291)	3.2 kg	-15…+60°C	140 Pa
838 (50 Hz) 803 (60 Hz)	718 (50 Hz) 568 (60 Hz)	728 (50 Hz)	207 V...244 V (230 V)	150/195 W (0.65/0.85 A)	76/75 dB (A)	336 x 316 x 162 (291 x 291)	4.1 kg	-15…+60°C	170 Pa
983 (50 Hz) 944 (60 Hz)	843 (50 Hz) 642 (60 Hz)	854 (50 Hz)	103 V...122 V (115 V)	145/182 W (1.279/1.6 A)	78/77 dB (A)	336 x 316 x 162 (291 x 291)	4.1 kg	-15…+60°C	170 Pa
931 (50 Hz) 803 (60 Hz)	798 (50 Hz) 568 (60 Hz)	809 (50 Hz)	396 V...466 V (400 V)	126/126 W (0.226/0.232 A)	77/75 dB (A)	336 x 316 x 162 (291 x 291)	4.1 kg	-15…+60°C	170 Pa

Thermal management system
Characteristics


PB501050-44


PB501051-36


PB501052-19


PB501052-19


PB501053-21

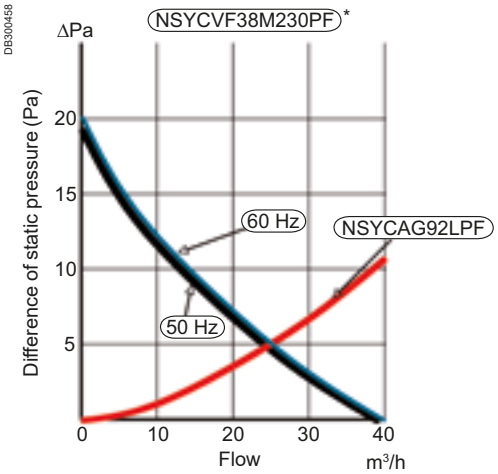
	Forced ventilation fan 38 m³/h	Forced ventilation fan 85 m³/h	Forced ventilation fan 165 m³/h	Forced ventilation fan 300 m³/h	Forced ventilation fan 560-850 m³/h
	The fans comprise an axial motor, a protective housing on the front and rear surfaces and a filter designed to retain dust particles. This filter can be replaced during operation without risk of contact with the rotating element.				
	Injected thermoplastic (ASA PC). self-extinguishing according to UL 94 V-0				
	RAL 7035 as standard				
	■ The external temperature must not exceed 30°C and must be more than 5°C lower than the temperature wanted in the enclosure ■ The filters that equip the fans must be cleaned and replaced regularly ■ The ambient air must be relatively clean and overfrequent filter replacement should be avoided ■ Bear in mind the pressure losses caused by the outlet element (grille with filter, ventilation louvre or simple opening) when determining the fan flow rate ■ Storage Temperature: -40…+ 70°C				
	IP54				
	IK08				
	The cut-out template supplied with the device avoids the need for marking and protects the surface of the enclosure during handling				
	The device can be equipped with a filter that provides even more efficient protection for your sensitive facilities against dust particles				
	Type of connection				
	by cable	**by faston (1)**	**by faston (1)**	**by faston (1)**	**by terminal block**
	NSYCVF38M230PF*	-	-	-	-
	NSYCVF38M115PF*	-	-	-	-
	NSYCVF38M24DPF	-	-	-	-
	NSYCVF38M48DPF	-	-	-	-
	-	**NSYCVF85M230PF**	-	-	-
	-	**NSYCVF85M115PF**	-	-	-
	-	**NSYCVF85M24DPF**	-	-	-
	-	**NSYCVF85M48DPF**	-	-	-
	-	-	**NSYCVF165M230PF**	-	-
	-	-	**NSYCVF165M115PF**	-	-
	-	-	**NSYCVF165M24DPF**	-	-
	-	-	**NSYCVF165M48DPF**	-	-
	-	-	-	**NSYCVF300M230PF**	-
	-	-	-	**NSYCVF300M115PF**	-
	-	-	-	**NSYCVF300M24DPF**	-
	-	-	-	**NSYCVF300M48DPF**	-
	-	-	-	-	**NSYCVF560M230PF**
	-	-	-	-	**NSYCVF560M115PF**
	-	-	-	-	**NSYCVF850M230PF**
	-	-	-	-	**NSYCVF850M115PF**
	-	-	-	-	**NSYCVF850M400PF**

(1) Fan models with connection type (F) are delivered with the connection cord included (2 metres).
** Warning: the fan **NSYCVF38M230PF** & **NSYCVF38M115PF** MUST NOT be connected to a power conversion module, an inverter or UPS type of power supply!*

Thermal management system
Dimensions

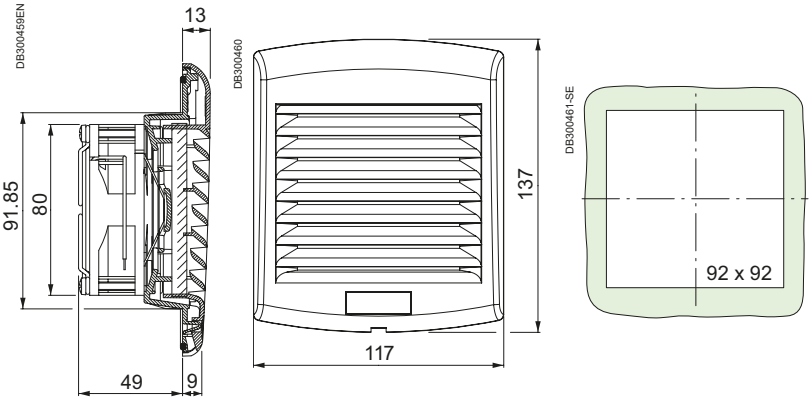
Fan 38 m³/h

Flow curves



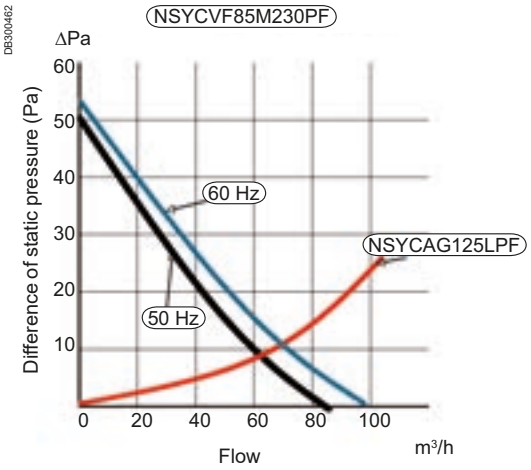
** Warning: the fan **NSYCVF38M230PF** MUST NOT be connected to a power conversion module, an inverter or UPS type of power supply!*

Dimensions

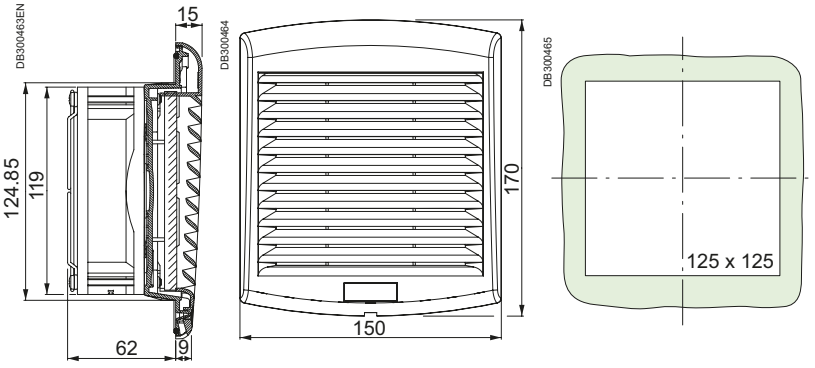


Fan 85 m³/h

Flow curves

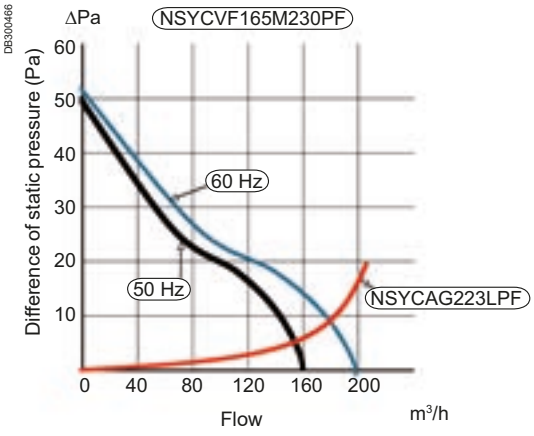


Dimensions

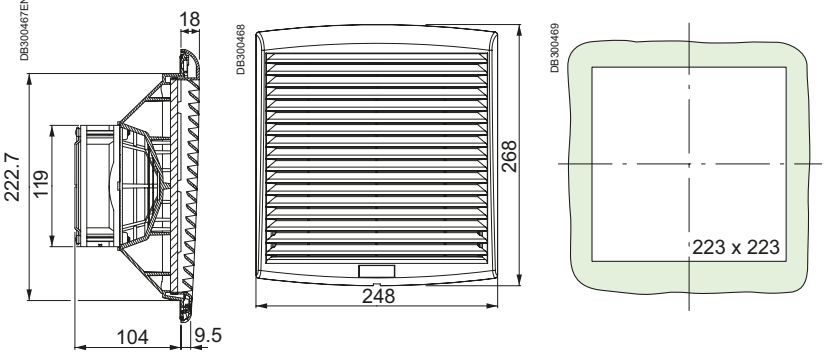


Fan 165 m³/h

Flow curves



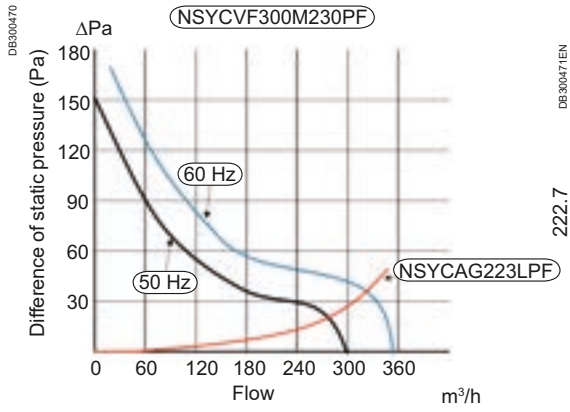
Dimensions



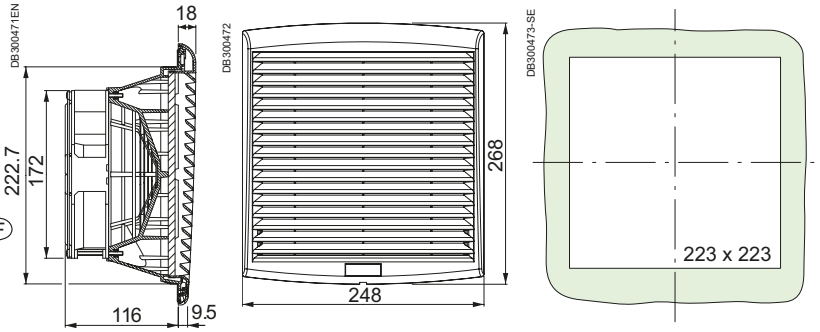
Thermal management system
Dimensions

Fan 300 m³/h

Flow curves

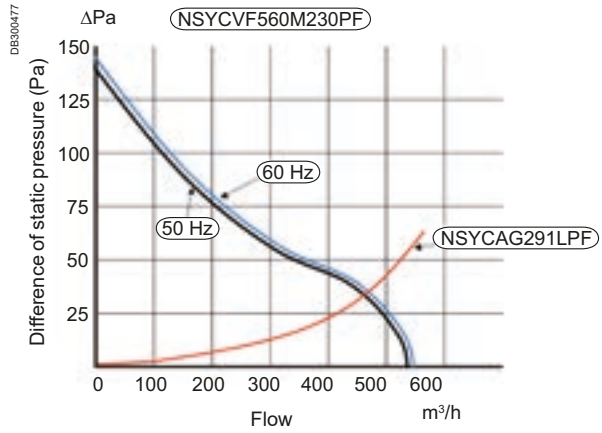


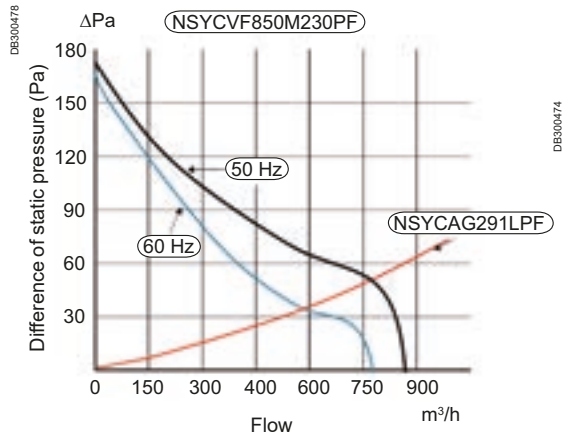
Dimensions



Fan 560-850 m³/h

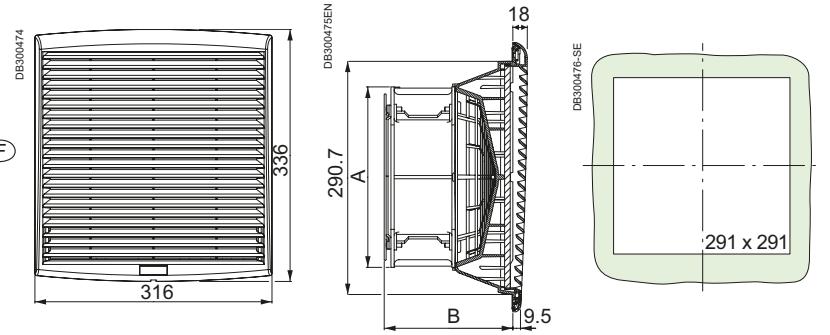
Flow curves





Dimensions

A	B	References
225	160.5	**NSYCVF560M230PF** **NSYCVF560M115PF**
280	162	**NSYCVF850M230PF** **NSYCVF850M115PF**



Thermal management system
Accessories

Ventilation Systems

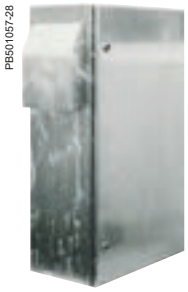


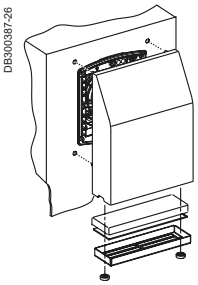
RAL 7035



RAL 7032

Characteristics				IP54 outlet grilles	
				Delivered with G2 M1 synthetic standard filter according to ISO 16890.	Cover for changing the colour of the standard gille RAL 7035 to RAL 7032.
Material				Injected thermoplastic (ASA PC), self-extinguishing according to UL 94 V-0	Injected thermoplastic (ASA PC), self-extinguishing according to UL 94 V-0
Colour				RAL 7035	RAL 7032
Ingress protection rating (according to IEC 60529)				IP54	IP54
Height (mm)	**Width (mm)**	**Depth (mm)**	**Cut-out (mm)**	**References**	
137	117	13	92 x 92	**NSYCAG92LPF**	**NSYCAG92LPC**
170	150	15	125 x 125	**NSYCAG125LPF**	**NSYCAG125LPC**
268	248	18	223 x 223	**NSYCAG223LPF**	**NSYCAG223LPC**
336	316	18	291 x 291	**NSYCAG291LPF**	**NSYCAG291LPC**



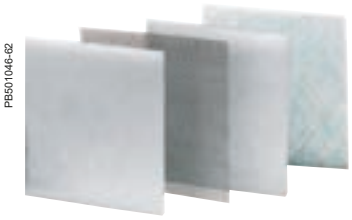


Characteristics	Covers IP55	Spare filter for cover	Fan	Grille
	This solution protects the fan or the grille from any direct sprays. The cover is the preferred solution to guarantee the following: □ an efficient air flow for cooling, □ IP55 rating.	-	-	-
Material	2 materials available: □ steel painted with epoxy-polyester powder (RAL 7035) for outdoor applications □ stainless-steel 304L for food and beverage applications	-	-	-
Ingress protection rating (according to IEC 60529)	IP55	-	-	-
Mechanical protection rating (according to IEC 62262)	IK10	-	-	-
Certifications	UL 508A	-	-	-
Installation	Double insulation maintained if installed in an insulated enclosure. The cover is placed over the fan or the grille with a filter located at the bottom of the cover to prevent the entry of particles. Easy access to the filter: only two screws needed. When mounting: remove the external part of the fan or the grille as well as the filter.	-	-	-
Supply	It is necessary to order 1 fan + 1 grille + 2 covers to have a complete system	-	-	-

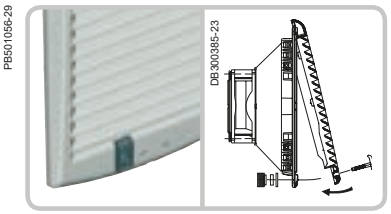
Flow rate (m^3/h)* with cover		Dimensions (mm)		References				
Free	**With 1 outlet grille**	**External**	**Cut-out**	**Steel painted RAL 7035**	**Stainless-steel 304L**	**Emb. mineur 5 p**	**RAL 7035**	**RAL 7035**
74	53	240 x 180 x 60	125 x 125	**NSYCAP125LZF**	**NSYCAP125LXF**	**NSYCAF125L55**	**NSYCVF85M230PF**	**NSYCAG125LPF**
110	82	350 x 305 x 80	223 x 223	**NSYCAP223LZF**	**NSYCAP223LXF**	**NSYCAF223L55**	**NSYCVF165M230PF**	**NSYCAG223LPF**
165	123	350 x 305 x 80	223 x 223	**NSYCAP223LZF**	**NSYCAP223LXF**	**NSYCAF223L55**	**NSYCVF300M230PF**	**NSYCAG223LPF**
316	265	430 x 373 x 105	291 x 291	**NSYCAP291LZF**	**NSYCAP291LXF**	**NSYCAF291L55**	**NSYCVF560M230PF**	**NSYCAG291LPF**
502	430	430 x 373 x 105	291 x 291	**NSYCAP291LZF**	**NSYCAP291LXF**	**NSYCAF291L55**	**NSYCVF850M230PF**	**NSYCAG291LPF**

** Values given for a fan powered at 230 V. For other voltages, the values are similar.*

Thermal management system
Accessories



	Filters							
	G2 M1 synthetic standard filters		Filters for greasy environments G2 M1		G3 M1 synthetic fine filters		Stainless-steel anti-insect filters	
	For fans and grilles. Filters according to ISO 16890.							
	-							
	-							
	-							
	Pack.	References	Pack.	References	Pack.	References	Pack.	References
	5	**NSYCAF92**	-	-	-	-	1	**NSYCAF92M**
	5	**NSYCAF125**	5	**NSYCAF125O**	5	**NSYCAF125T**	1	**NSYCAF125M**
	5	**NSYCAF223**	5	**NSYCAF223O**	5	**NSYCAF223T**	1	**NSYCAF223M**
	5	**NSYCAF291**	5	**NSYCAF291O**	5	**NSYCAF291T**	1	**NSYCAF291M**



Characteristics	Anti-vandalism kit
	Prevents the grille from being opened from the outside. The unlocking thumbwheel is accessed from the inside of the wall-mounting enclosure.
Colour	RAL 7011 (same material as the grille: ASA PC)
Minor packaging	**Reference**
2	**NSYCAAPV**

Thermal management system
Accessories

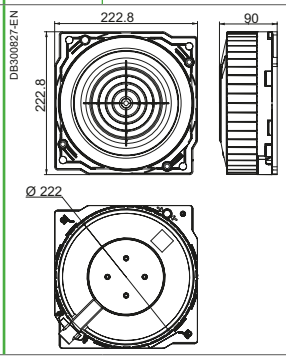
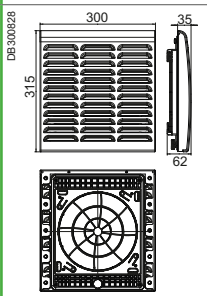
Ventilation system Heavy duty









Characteristics	Fanbox		Filter	Roof filter for fanbox	IP55 HD Metal Grille	Anti-vandalism kit for HD metal grille
	■ Free flow rate: 550 m^3/h (50/60 Hz). ■ Minimal depth inside the enclosure (90 mm). ■ Allows multiple cooling architectures (see page 518 and 519).		Replacement G3 M1 type synthetic filter for HD metal grille, according to ISO 16890. ■ **Dimensions:** 223 x 223 mm.	Roof G2 round synthetic filter designed to cover the fanbox. Covers completely the fanbox and helps to protect it from dust and humidity. Mandatory for fanbox installation in the Roof ventilation module for IP55 configurations.	Slim grille (35 mm external depth). Includes a G3 M1 filter, according to ISO 16890.	Fixings that help to prevent to open the grille from the outside with standard tools (EN 1627-1630:2011 Class 2).
Material	Plastic		-	-	Steel with anti-corrosive coating	Steel with anti-corrosive coating
Finish	-		-	-	Structured finish, 100 % polyester powder	-
Colour	RAL 7016 dark grey		-	-	RAL 7035 grey	-
Ingress protection rating (according to IEC 60529)	-		-	-	IP55	-
Mechanical protection rating (according to IEC 62262)	-		-	-	IK10	-
Supply	1 (grille not included)		5	1	1 grille delivered with G3 M1 type synthetic filter (223 x 223mm) and fixings.	1 kit
	Voltage	**References**	**Reference**	**Reference**	**Reference**	**Reference**
	24 V DC	**NSYCVF550M24FB**	**NSYCAF223T**	**NSYCAF190**	**NSYCAG223LFHD**	**NSYCAAPVHD**
	24 V DC	**NSYCVF550M48FB**				
	115 V AC	**NSYCVF550M115FB**				
	230 V AC	**NSYCVF550M230FB**				
						

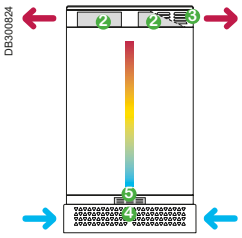
Thermal management system
Ventilation architectures



1. *IP55 metal grille*
2. *Fanbox*
3. *Roof ventilated module*
4. *Ventilated plinths*
5. *IP54 grille*

	S-Line				T-Line				
Architecture benefits	■ Most common and competitive architecture ■ Maximum heat dissipation to extract 800 W-1000 W ■ ΔT° of 5°C ■ Easy access to mount-dismount fanbox ■ Air flow in horizontal axis				■ High capacity of extraction calories up to 1500 W ■ Noise level with 1 fan: 55 dB when installed inside the upper ventilation module ■ ΔT° of 5°C ■ Air flow in vertical axis				
	IP55 metal grille		**Fanbox**		**IP55 metal grille**		**Fanbox** (1 filter **NSYCAF190** for each Fanbox)	**Roof ventilation module**	
	Door	**Side**	**Door**	**Side**	**Door**	**Side**			
Polyester outdoor HD enclosure									
References	**Amount to be installed**				**Amount to be installed**				**References**
NSYPHDT553	-	-	-	-	-	-	-	-	-
NSYPHDT553P	-	-	-	-	-	-	-	-	-
NSYPHDT753	-	-	-	-	-	-	-	-	-
NSYPHDT753P	1 to 2	-	1 to 2	-	1 to 2	-	-	-	-
NSYPHDZT774	-	1 to 2	-	1 to 2	-	1 to 2	1 to 2	1	**NSYPCVR74HD**
NSYPHDZT774P	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1	**NSYPCVR74HD**
NSYPHDZT776	-	1 to 2	-	1 to 2	-	1 to 2	1 to 2	1	**NSYPCVR76HD**
NSYPHDZT776P	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1	**NSYPCVR76HD**
NSYPHDZT1054	-	1	-	1	-	1	1	1	**NSYPCVR54HD**
NSYPHDZT1054P	1 to 2	1	1 to 2	1	1 to 2	1	1	1	**NSYPCVR54HD**
NSYPHDZT1074	-	1 to 2	-	1 to 2	-	1 to 2	1 to 2	1	**NSYPCVR74HD**
NSYPHDZT1074P	1 to 4	1 to 2	1 to 4	1 to 2	1 to 4	1 to 2	1 to 2	1	**NSYPCVR74HD**
NSYPHDZT12124	-	1 to 3	-	1 to 3	-	1 to 3	1 to 3	1	**NSYPCVR124HD**
NSYPHDZT12124P	1 to 4	1 to 3	1 to 4	1 to 3	1 to 4	1 to 3	1 to 3	1	**NSYPCVR124HD**
NSYPHDZT12126	-	1 to 3	-	1 to 3	-	1 to 3	1 to 3	1	**NSYPCVR126HD**
NSYPHDZT12126P	1 to 4	1 to 3	1 to 4	1 to 3	1 to 4	1 to 3	1 to 3	1	**NSYPCVR126HD**
NSYPHDZT1254	-	1	-	1	-	1	1	1	**NSYPCVR54HD**
NSYPHDZT1254P	1 to 3	1	1 to 3	1	1 to 3	1	1	1	**NSYPCVR54HD**
NSYPHDZT1274	-	1 to 2	-	1 to 2	-	1 to 2	1 to 2	1	**NSYPCVR74HD**
NSYPHDZT1274P	1 to 4	1 to 2	1 to 4	1 to 2	1 to 4	1 to 2	1 to 2	1	**NSYPCVR74HD**
NSYPHDZT1276	-	1 to 2	-	1 to 2	-	1 to 2	1 to 2	1	**NSYPCVR76HD**
NSYPHDZT1276P	1 to 4	1 to 2	1 to 4	1 to 2	1 to 4	1 to 2	1 to 2	1	**NSYPCVR76HD**
NSYPHDZT15124	-	1 to 3	-	1 to 3	-	1 to 3	1 to 3	1	**NSYPCVR124HD**
NSYPHDZT15124P	1 to 4	1 to 3	1 to 4	1 to 3	1 to 4	1 to 3	1 to 3	1	**NSYPCVR124HD**
NSYPHDZT15126	-	1 to 3	-	1 to 3	-	1 to 3	1 to 3	1	**NSYPCVR126HD**
NSYPHDZT15126P	1 to 4	1 to 3	1 to 4	1 to 3	1 to 4	1 to 3	1 to 3	1	**NSYPCVR126HD**
NSYPHDZT1574	-	1 to 2	-	1 to 2	-	1 to 2	1 to 2	1	**NSYPCVR74HD**
NSYPHDZT1574P	1 to 4	1 to 2	1 to 4	1 to 2	1 to 4	1 to 2	1 to 2	1	**NSYPCVR74HD**
NSYPHDZT1576	-	1 to 2	-	1 to 2	-	1 to 2	1 to 2	1	**NSYPCVR76HD**
NSYPHDZT1576P	1 to 4	1 to 2	1 to 4	1 to 2	1 to 4	1 to 2	1 to 2	1	**NSYPCVR76HD**
NSYPHDZT2074	-	1 to 2	-	1 to 2	-	1 to 2	1 to 2	1	**NSYPCVR74HD**
NSYPHDZT2074P	1 to 4	1 to 2	1 to 4	1 to 2	1 to 4	1 to 2	1 to 2	1	**NSYPCVR74HD**
Steel outdoor HD enclosure									
References	**Amount to be installed**				**Amount to be installed**				**References**
NSYS3HD8630	1 to 2	-	1 to 2	-	1 to 2	-	-	-	-
NSYS3HD8840	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1	**NSYS3CVR84HD**
NSYS3HD10640	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1	1	**NSYS3CVR64HD**
NSYS3HD10840	1 to 4	1 to 2	1 to 4	1 to 2	1 to 4	1 to 2	1 to 2	1	**NSYS3CVR84HD**
NSYSFHD12640	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3	1	1	**NSYSFCVR64HD**
NSYSFHD12660	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3	1	1	**NSYSFCVR66HD**
NSYSFHD12840	1 to 4	1 to 3	1 to 4	1 to 3	1 to 4	1 to 3	1 to 2	1	**NSYSFCVR84HD**
NSYSFHD12860	1 to 4	1 to 3	1 to 4	1 to 3	1 to 4	1 to 3	1 to 2	1	**NSYSFCVR86HD**
NSYSFHD16660	1 to 4	1 to 4	1 to 4	1 to 4	1 to 4	1 to 4	1	1	**NSYSFCVR66HD**
NSYSFHD16840	1 to 4	1 to 4	1 to 4	1 to 3	1 to 4	1 to 3	1 to 2	1	**NSYSFCVR84HD**
NSYSFHD16860	1 to 4	1 to 4	1 to 4	1 to 4	1 to 4	1 to 4	1 to 2	1	**NSYSFCVR86HD**
NSYSFHD20840	1 to 4	1 to 4	1 to 4	1 to 4	1 to 4	1 to 4	1 to 2	1	**NSYSFCVR84HD**
NSYSFHD1212402D	1 to 4	1 to 3	1 to 4	1 to 2	1 to 4	1 to 2	1 to 3	1	**NSYSFCVR124HD**
NSYSFHD1212602D	1 to 4	1 to 3	1 to 4	1 to 3	1 to 4	1 to 2	1 to 3	1	**NSYSFCVR126HD**
NSYSFHD1612402D	1 to 4	1 to 4	1 to 4	1 to 3	1 to 4	1 to 3	1 to 3	1	**NSYSFCVR124HD**
NSYSFHD1612602D	1 to 4	1 to 4	1 to 4	1 to 3	1 to 4	1 to 3	1 to 3	1	**NSYSFCVR126HD**

Thermal management system
Ventilation architectures





This table helps to configure thermal architectures, but it is highly recommended to use ProClima Software to ensure the right thermal solution according to the selected architecture.

I-Line

- Integrated architecture particularly suitable for public areas
- High capacity of extraction calories up to 1500 W
- Noise level with 1 fan: 55 dB when installed inside the upper ventilation module
- Good extraction flow rate power
- Air flow in vertical axis

IP54 outlet grille (**NSYCAG223LPF** + G3 M1 filter **NSYCAF223T**)		**Ventilated plinths**		**Fanbox** (1 filter **NSYCAF190** for each Fanbox)		**Roof ventilation module**
Amount to be installed		**References**		**Amount to be installed**		**References**
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
1 to 2	1	**NSYZZ274VHD**	-	1 to 2	1	**NSYPCVR74HD**
1 to 2	1	**NSYZZ274VHD**	-	1 to 2	1	**NSYPCVR74HD**
1 to 2	1	**NSYZZ276VHD**	-	1 to 2	1	**NSYPCVR76HD**
1 to 2	1	**NSYZZ276VHD**	-	1 to 2	1	**NSYPCVR76HD**
1	1	**NSYZZ254VHD**	-	1	1	**NSYPCVR54HD**
1	1	**NSYZZ254VHD**	-	1	1	**NSYPCVR54HD**
1 to 2	1	**NSYZZ274VHD**	-	1 to 2	1	**NSYPCVR74HD**
1 to 2	1	**NSYZZ274VHD**	-	1 to 2	1	**NSYPCVR74HD**
1 to 3	1	**NSYZZ2124VHD**	-	1 to 3	1	**NSYPCVR124HD**
1 to 3	1	**NSYZZ2124VHD**	-	1 to 3	1	**NSYPCVR124HD**
1 to 3	1	**NSYZZ2126VHD**	-	1 to 3	1	**NSYPCVR126HD**
1 to 3	1	**NSYZZ2126VHD**	-	1 to 3	1	**NSYPCVR126HD**
1	1	**NSYZZ254VHD**	-	1	1	**NSYPCVR54HD**
1	1	**NSYZZ254VHD**	-	1	1	**NSYPCVR54HD**
1 to 2	1	**NSYZZ274VHD**	-	1 to 2	1	**NSYPCVR74HD**
1 to 2	1	**NSYZZ274VHD**	-	1 to 2	1	**NSYPCVR74HD**
1 to 2	1	**NSYZZ276VHD**	-	1 to 2	1	**NSYPCVR76HD**
1 to 2	1	**NSYZZ276VHD**	-	1 to 2	1	**NSYPCVR76HD**
1 to 3	1	**NSYZZ2124VHD**	-	1 to 3	1	**NSYPCVR124HD**
1 to 3	1	**NSYZZ2124VHD**	-	1 to 3	1	**NSYPCVR124HD**
1 to 3	1	**NSYZZ2126VHD**	-	1 to 3	1	**NSYPCVR126HD**
1 to 3	1	**NSYZZ2126VHD**	-	1 to 3	1	**NSYPCVR126HD**
1 to 2	1	**NSYZZ274VHD**	-	1 to 2	1	**NSYPCVR74HD**
1 to 2	1	**NSYZZ274VHD**	-	1 to 2	1	**NSYPCVR74HD**
1 to 2	1	**NSYZZ276VHD**	-	1 to 2	1	**NSYPCVR76HD**
1 to 2	1	**NSYZZ276VHD**	-	1 to 2	1	**NSYPCVR76HD**
1 to 2	1	**NSYZZ274VHD**	-	1 to 2	1	**NSYPCVR74HD**
1 to 2	1	**NSYZZ274VHD**	-	1 to 2	1	**NSYPCVR74HD**

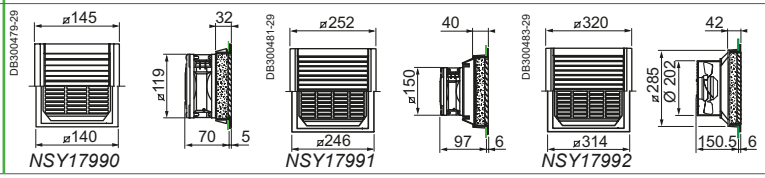
Amount to be installed		**References**		**Amount to be installed**		**References**
1	1	**NSYSPFVX6200**	**NSYSPSX3200**	-	-	-
1 to 2	1	**NSYSPFVX8200**	**NSYSPLVX4200**	1 to 2	1	**NSYS3CVR84HD**
1	1	**NSYSPFVX6200**	**NSYSPLVX4200**	1	1	**NSYS3CVR64HD**
1	1	**NSYSPFVX8200**	**NSYSPLVX4200**	1 to 2	1	**NSYS3CVR84HD**
1	1	**NSYSPFVX6200**	**NSYSPLVX4200**	1	1	**NSYSFCVR64HD**
1	1	**NSYSPFVX6200**	**NSYSPLVX6200**	1	1	**NSYSFCVR66HD**
1 to 2	1	**NSYSPFVX8200**	**NSYSPLVX4200**	1 to 2	1	**NSYSFCVR84HD**
1 to 2	1	**NSYSPFVX8200**	**NSYSPLVX6200**	1 to 2	1	**NSYSFCVR86HD**
1	1	**NSYSPFVX6200**	**NSYSPLVX6200**	1	1	**NSYSFCVR66HD**
1 to 2	1	**NSYSPFVX8200**	**NSYSPLVX4200**	1 to 2	1	**NSYSFCVR84HD**
1 to 2	1	**NSYSPFVX8200**	**NSYSPLVX6200**	1 to 2	1	**NSYSFCVR86HD**
1 to 2	1	**NSYSPFVX8200**	**NSYSPLVX4200**	1 to 2	1	**NSYSFCVR84HD**
1 to 3	1	**NSYSPFVX12200**	**NSYSPLVX4200**	1 to 3	1	**NSYSFCVR124HD**
1 to 3	1	**NSYSPFVX12200**	**NSYSPLVX6200**	1 to 3	1	**NSYSFCVR126HD**
1 to 3	1	**NSYSPFVX12200**	**NSYSPLVX4200**	1 to 3	1	**NSYSFCVR124HD**
1 to 3	1	**NSYSPFVX12200**	**NSYSPLVX6200**	1 to 3	1	**NSYSFCVR126HD**

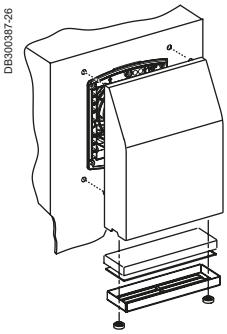
Thermal management system
Accessories

EMC ventilation Systems



Characteristics				EMC IP54 fan
				To effectively protect the equipment against electromagnetic disruptions, the EMC fan is equipped with: □ a steel frame covering the plastic elements (self-extinguishing ABS according to standard UL94 V0), □ a metal grille attached to the frame, □ a beryllium gasket guaranteeing conductivity between the perimeter of the fan unit and the enclosure.
Ingress protection rating (according to IEC 60529)				IP54
External dimensions (mm)	**Cut-out (mm)**	**Flow rate (m^3/h)**	**Voltage (V)**	**References**
145 x 145 x 70	126 x 126	61	230	**NSY17990**
252 x 252 x 97	224 x 224	156	230	**NSY17991**
320 x 320 x 150	292 x 292	480	230	**NSY17992**





Characteristics				EMC IP55 cover
				This solution guarantees protection against electromagnetic disruptions and guarantees IP55. The EMC cover is installed on the fans or standard IP54 outlet grilles. The cover, made from painted sheet-steel for outdoor, completely covers the fan or outlet grille. Conductivity is obtained by means of: □ a conductive coating (2 Ω), □ a conductive copper braid.
Colour				RAL 7035 grey
Ingress protection rating (according to IEC 60529)				IP55
Mechanical protection rating (according to IEC 62262)				IK10
Certifications				UL 508A Type 3R
Flow rate (m^3/h)* with cover		**Dimensions (mm)**		**References**
Free	**With 1 outlet grille**	**External**	**Cut-out**	**Sheet-steel painted for outdoor applications RAL 7035**
74	53	240 x 180 x 60	125 x 125	**NSYCAP125LE**
110	82	350 x 305 x 80	223 x 223	**NSYCAP223LE**
165	123	350 x 305 x 80	223 x 223	**NSYCAP223LE**
316	265	430 x 373 x 105	291 x 291	**NSYCAP291LE**
502	430	430 x 373 x 105	291 x 291	**NSYCAP291LE**

** Values given for a fan powered at 230 V. For other voltages, the values are similar.*

Thermal management system
Accessories

PB501059-46



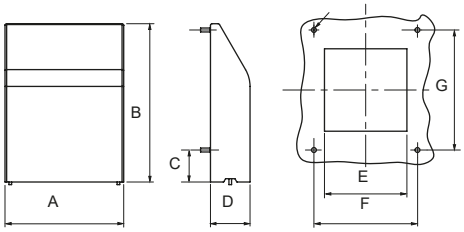
	EMC IP54 outlet grille
	Grille equipped with: □ a steel frame covering the plastic elements (self-extinguishing ABS according to standard UL 94 V-0), □ a metal grille attached to the frame, □ a beryllium gasket guaranteeing conductivity between the perimeter of the grille and the enclosure.
	IP54
	NSY17996
	NSY17997
	NSY17998
	DB300480-5 32 5 *NSY17996* DB300482-6 40 6 *NSY17997* DB300484-5 42 6 *NSY17998*

Dimensions of IP54 and EMC covers

Spare filter for cover	Fan	Grille
Minor pack. 5 p	RAL 7035	RAL 7035
NSYCAF125L55	**NSYCVF85M230PF**	**NSYCAG125LPF**
NSYCAF223L55	**NSYCVF165M230PF**	**NSYCAG223LPF**
NSYCAF223L55	**NSYCVF300M230PF**	**NSYCAG223LPF**
NSYCAF291L55	**NSYCVF560M230PF**	**NSYCAG291LPF**
NSYCAF291L55	**NSYCVF850M230PF**	**NSYCAG291LPF**

Dimensions (mm)								Cover references		
A	B	C	D	E	F	G	No. of fixing points	IP55		EMC
180	240	49	60	125	157	182	4	**NSYCAP125LZF**	**NSYCAP125LXF**	**NSYCAP125LE**
305	350	61	80	223	283	280	8	**NSYCAP223LZF**	**NSYCAP223LXF**	**NSYCAP223LE**
373	430	73	105	291	351	348	8	**NSYCAP291LZF**	**NSYCAP291LXF**	**NSYCAP291LE**

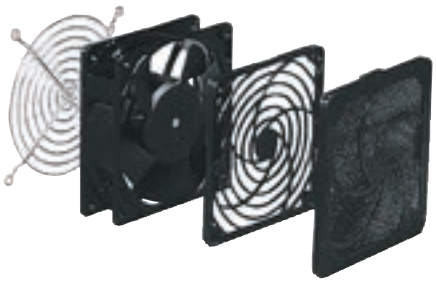
DB300485-60



Thermal management system
Accessories

Fans by components

PB501060-75



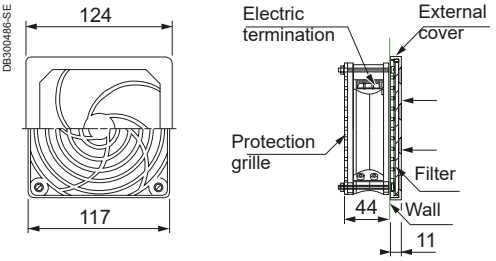
Fans

Free flow without filter or grille: 170 m³/h.
Two models according to the input voltage: 230 and 115 V, 50-60 Hz.
- **Ingress protection rating:** IP20 according to IEC 60529.
- **Options:** IP20 outlet grille (ABS, black) and filter (black polyurethane foam).

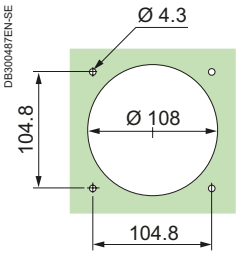
Voltage (V)	Flow rate (m³/h)	References
115	65	**NSYCVF65M115PF**
230	65	**NSYCVF65M230PF**

Accessories		
Dimensions (mm)	**Description**	**References**
124 x 124 x 11 mm	**Outlet grille**	**NSYCAG108LP**
-	**Filter**	**NSYCAF108**

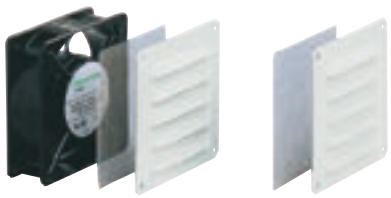
DB300486-SE



DB300487EN-SE



PB501061

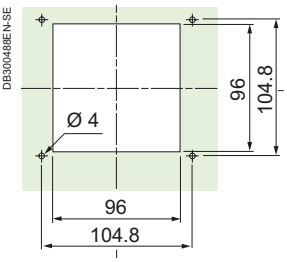


Ventilation kit

- **Ingress protection rating:** IP33 according to IEC 60529.
- **Mechanical protection rating:** IK10 according to IEC 62262.
- **Overall flow rate:** 54 m³/h.
- **Supply:**
  - one 120 x 120 x 38 mm fan, 230 V - 50/60 Hz, free flow rate 170 m³/h,
  - two 120 x 120 mm metal grilles, RAL 7035,
  - two 115 x 98 mm anti-insect filters, stainless-steel 304L wire Ø 0.32 mm braided, 1.07-mm meshes,
  - 1 power cord,
  - the fixings required for installation.

Voltage (V)	Flow rate (m³/h)	Reference
230	54	**NSYCVF54M230MM2**

DB300488EN-SE



PB501062-56



Top hood with fan
ref. ***NSYCVF575M230MF / NSYCVF570M115MF***

Top hood with fan and cover

Fan with hood, for floor-standing enclosures. A flow rate of 350 m³/h is obtained with an outlet grille ref. **NSYCAG291LPF**, (cut-out 291 x 291 mm).
- **Ingress protection rating:** IP54 according to IEC 60529.
- **Certification:** UL.
- **Installation:** installation and removal from the outside.
- **Electric power:** 85 W.
- **Noise level:** 64 dB (A).
- **Supply:** delivered with fixings and connection terminal block.

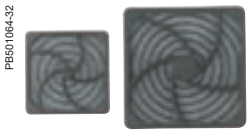
Voltage (V)	Flow rate* (m³/h)	Weight (kg)	References
115	570	5.8	**NSYCVF570M115MF**
230	575	5.8	**NSYCVF575M230MF**

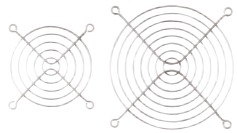
** Flow rate measured without counter-pressure.*

Thermal management system
Accessories

Fans by components

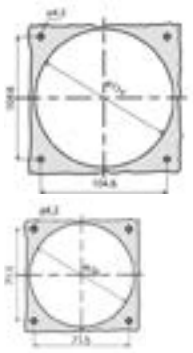

PB501063-33


PB501064-32


PB501065-34

Characteristics					Fan motor	Outlet grille	Rear protective grille
					Turbine-type fan motor for ventilation/extraction.	Outlet filter kit for enclosure ventilation. For coupling to fans **NSYCVF156M●●●** and **NSYCVF35M●●●**.	Protective grille for enclosure fan motor. For coupling to fans **NSYCVF156M●●●** and **NSYCVF35M●●●**.
Flow rate (m^3/h)	**Voltage (V)**	**Absorbed power (W)**	**Noise level (dB)**	**External dimensions (mm)**	**References**		
156	230/50-60	17/15	42	120 x 120 x 38	**NSYCVF156M230**	**NSYCAG114LPF**	**NSYCVA114M**
	120/50-60	17/15	42	120 x 120 x 38	**NSYCVF156M115**	**NSYCAG114LPF**	**NSYCVA114M**
35	230/50-60	16/14	32	80 x 80 x 25	**NSYCVF35M230**	**NSYCAG78LPF**	**NSYCVA78M**
	120/50-60	16/14	32	80 x 80 x 25	**NSYCVF35M115**	**NSYCAG78LPF**	-

DB300489EN-92



PB501066-58



Fan connection cable

For coupling to the connection terminal of the fan motors.

Length (m)	Reference
1	**NSYCVAC100**

Thermal management system
Accessories

Circulating for internal forced convection



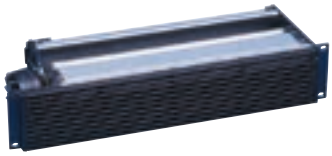
Characteristics								Circulation fan
								User protection according to DIN 31001. Dimensions: ■ Fan: 119 x 119 x 38 mm. ■ Collar: length: 140 mm; fixing centre-to-centre distance: 130 mm. ■ Installation on ball-bearing.
Supply								-
Flow rate (m^3/h)	**Voltage (V)**	**No.**	**Weight (kg)**	**P (W)**	**I (mA)**	**dB (A)**	**Depth (mm)**	**References**
170 (1)	115	-	0.82	17	-	41	-	**NSYCVF170M115**
	230	-	0.82	17	-	41	-	**NSYCVF170M230**
300 (2)	230 (50-60 Hz)	-	-	37	-	-	-	-
486 (2)	230	3	3.3	45	300	43	208	-
972 (2)	230	6	5.5	90	600	44	330	-
1458 (2)	230	9	7.8	135	900	45	452	-
552 (2)	48 (3)	3	3.3	21.3	330	43	208	-

(1) Free flow.
(2) Flow rate measured without counter-pressure.
(3) Direct current.

Thermal management system
Accessories

Circulating

PB501068-49



PB501069-52



PB501070-52



	Tangential fan, 19" 2 U	Circulation fan, 19" 1 U
	Air is sucked in from the front, filtered and forced vertically through the equipment.	Increases the speed of upward air circulation, in particular between trays with cards. Frontal operation LED. It is advisable to install slides, ref. **NSYGB140** to guarantee optimal support of the fan.
	Delivered without connection cord	Delivered without connection cord
	-	-
	-	-
	NSYAVG2U300	-
	-	**NSYAVD1U480**
	-	**NSYAVD1U970**
	-	**NSYAVD1U1450**
	-	**NSYAVD1U550M48**

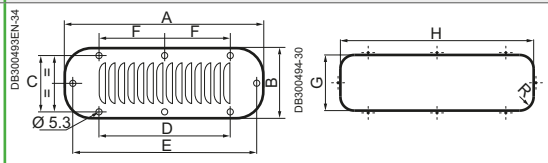
Thermal management system
Accessories

Natural airing

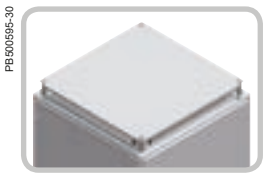


Characteristics	Metal louvre plate, rectangular
Material	Steel
Finish	Structured finish, epoxy-polyester powder, RAL 7035 grey
Ingress protection rating (according to IEC 60529)	IP20
Installation	On the sides of the enclosure. Fixing by screws
Supply	1 metal louvre and fixing elements

Dimensions (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	R (mm)	Slot width (mm)	No. of slots	References
-	144	62	36	110	-	-	110	46	10	-	-	**NSYCAG110X46M**
-	208	90	72	94	190	-	180	62	18	-	-	**NSYCAG180X62M**
-	244	90	72	130	226	-	216	62	18	-	-	**NSYCAG216X62M**
-	345	118	100	231	327	115.5	317	90.5	30	-	-	**NSYCAG317X91M**
-	345	148	130	231	327	115.5	317	120	30	-	-	**NSYCAG317X120M**
-	445	148	130	267	427	148.5	417	120	30	-	-	**NSYCAG417X120M**
120 x 120	95	104	104.8	-	-	-	-	-	-	90	5	-
160 x 160	110	130	140	-	-	-	-	-	-	100	5	-
220 x 220	190	170	200	-	-	-	-	-	-	180	5	-



Roof accessories for natural airing



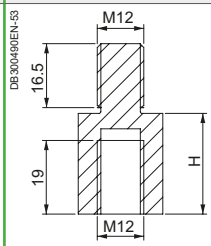


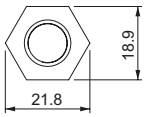


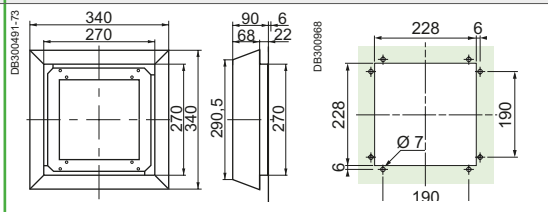


Characteristics	Roof elevators	Hood for natural airing
	Allow the roof to be raised, providing natural airing.	Natural airing device for coupling to the top of metal floor-standing enclosures. Solution for combining with the ventilation slots.
Material	Zinc-coated steel	Steel
Finish	-	Structured finish, epoxy-polyester powder, RAL 7035 grey
Ingress protection rating	-	IP54 (according to IEC 60529)
Installation	They are screwed onto the structure of SF enclosures at the roof fixing point	Fixing to the top by means of caged nuts and special screws
Supply	4 elevators	1 hood for natural airing and fixing elements

Top elevation (mm) (H)	Weight (kg)	References	
26	-	**NSYRE26**	-
60	-	**NSYRE60**	-
-	4.6	-	**NSYCAC228RMF**



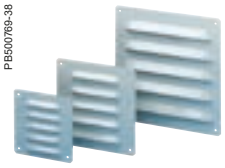


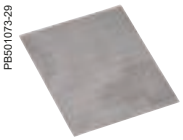


Spare filter
Reference
NSYCAF228R

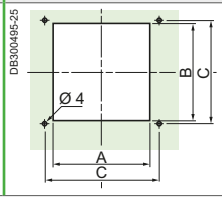
Thermal management system
Accessories

Natural airing





	Metal louvre plate, square	Anti-insect filters for metal louvre plate, square		
	-	Stainless-steel 304L Ø 0.32 mm wire mesh, of 1.07 mm, thickness 0.6 mm		
	-	-		
	IP23	IP33		
	-	Between the enclosure and the metal louvre		
	One metal louvre	One anti-insect filter		
		External dimensions (mm)	**Weight (kg/m²)**	**References**
	-	-	-	-
	-	-	-	-
	-	-	-	-
	-	-	-	-
	-	-	-	-
	-	-	-	-
	NSYCAG104X95LM	98 x 115	0.8	**NSYCAF104X95X**
	NSYCAG130X110LM	133 x 158	0.8	**NSYCAF130X110X**
	NSYCAG170X190LM	197 x 215	0.8	**NSYCAF170X190X**



Other accessories for natural airing



Characteristics				Plastic ventilation louvres					Sealed anti-condensation valve
				Four models available according to IP rating, in vertical position.					Controls the pressure to avoid condensation following an internal temperature increase.
Material				-					PA6-V2, acrylic co-polymer membrane, water and oil repellent
Ingress protection rating (according to IEC 60529)				IP22	IP30/44 (1)	IP45	IP44	IP45	IP68
Temperature of use				-					-40… +105°C
Supply				References by unit. Order by multiples of 2 units (2, 4, 6, etc.)					-
Cut-out Ø (mm)	**Permeability (2)**	**Pressure difference (3)**	**Minor pack.**	**References**					
45.5	-	-	-	**NSYCAG45LP**	-	-	-	-	-
35	-	-	-	-	**NSYCAG35LP**	-	-	-	-
38	-	-	-	-	-	**NSYCAG38LP**	-	-	-
33	-	-	-	-	-	-	**NSYCAG33LP**	-	-
19	-	-	-	-	-	-	-	**NSYCAG19LP**	-
M12	16 litres/h	ΔP < 1 bar	10	-	-	-	-	-	**NSYCAG12LPH1**
	120 litres/h	ΔP < 0.1 bar	10	-	-	-	-	-	**NSYCAG12LPH2**

(1) According to installation in the Thalassa PLM wall-mounting enclosure.
(2) Air flow for ΔP = 0.07 bar.
(3) Condition for IP68.

Thermal management system
Introduction

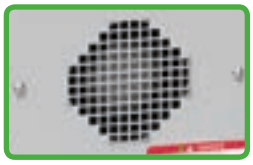
> Choose **air-air exchangers** to take advantage of cooler ambient temperatures, such as food and beverage plants, to evacuate large amounts of heat while guaranteeing the independence of the internal and external air circuits.

PB502596-36



Air-air exchangers: a new range energy efficient

PB502596-48



Higher efficiency through improved design

With an updated external grill design, and by positioning cooling closer to critical equipment, such as speed drives, ClimaSys now provides **better flow, better cooling**, and **higher energy efficiency**.

PB500011SE



Simplicity saves your time

Our free ProClima thermal calculation software **makes specification simple and fast**. A new thermal solutions module integrates calculation for cooling and control devices, helping you maximize the energy efficiency of your systems.

Faster installation

A number of design improvements reduce installation time. Mounting requires single cut-outs and a minimum of screws. Wiring is accomplished with smart interconnects.

Protection

IP55

All side-mounted models are IP55 internally according to IEC 60529.

DB406142

New certifications and declarations

- CE
- EAC

Thermal management system
Characteristics

Air-air exchangers


PB502618-15


PB502596-18


PB502619-19

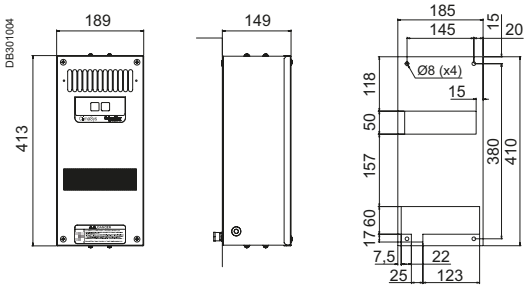
Characteristics	Side-mounting models			
	The air-air exchanger can be used in heavily polluted environments provided that the ambient temperature is at least 10°C lower than the internal temperature wanted. Main components: thermostat adjustment system, exchange cassette, fans for internal and external circuits of the enclosure.			
Material	Painted zinc-coated steel			
Colour	RAL 7035 grey			
Ingress protection rating (according to IEC 60529)	IP55			
Certifications and declarations	CE, EAC			
Installation	Indoor. For outdoor applications or other cover finitions, please consult us.			
Cooling characteristics				
Specific power	22 W/K	36 W/K	50 W/K	80 W/K
Air flow of the internal circuit (enclosure)	280 m³/h	570 m³/h	600 m³/h	1050 m³/h
Air flow of the external circuit (ambient)	280 m³/h	570 m³/h	600 m³/h	1050 m³/h
Thermostat type	-	Mechanical	Mechanical	Mechanical
Temperature setting range	-	+5 … +60°C	+5 … +60°C	+5 … +60°C
Temperature range external circuit (ambient)	-5 … +55°C	-5 … +55°C	-5 … +55°C	-5 … +55°C
Type of fluid	Air	Air	Air	Air
Electric characteristics				
Input voltage	1 x 230 V / 50-60 Hz	1 x 230 V / 50-60 Hz	1 x 230 V / 50-60 Hz	1 x 230 V / 50-60 Hz
Rated Intensity	0.5 A	0.7 A	0.7 A	1.1 A
Power consumption absorved	72 W	160 W	160 W	240 W
Thermal protection recommended (fuse)	T1 A	T1 A	T1 A	T2 A
Physical characteristics				
External dimensions (H x W x D)	413 x 189 x 149 mm	771 x 316 x 103 mm	771 x 316 x 103 mm	1260 x 317 x 148 mm
Protection degree IP internal /external (according to IEC 60529)	IP55 / IP22	IP55 / IP22	IP55 / IP22	IP55 / IP22
Noise level	59 dB	62 dB	62 dB	64 dB
Weight of unit	7 kg	10 kg	10 kg	17 kg
References				
	NSYCEA22E	**NSYCEA36**	**NSYCEA50**	**NSYCEA80**

Thermal management system
Dimensions

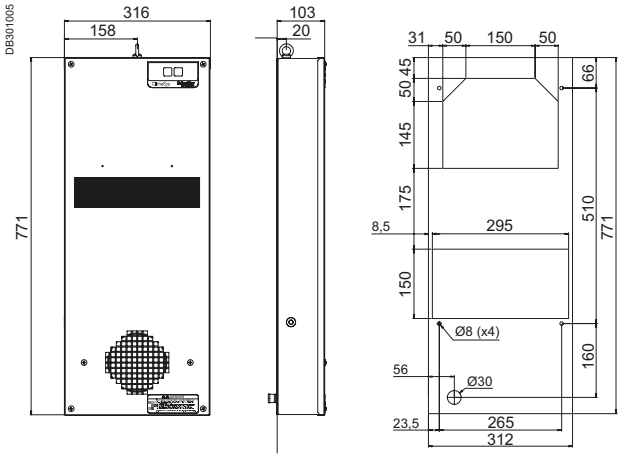
Air-air exchangers

Side-mounting models

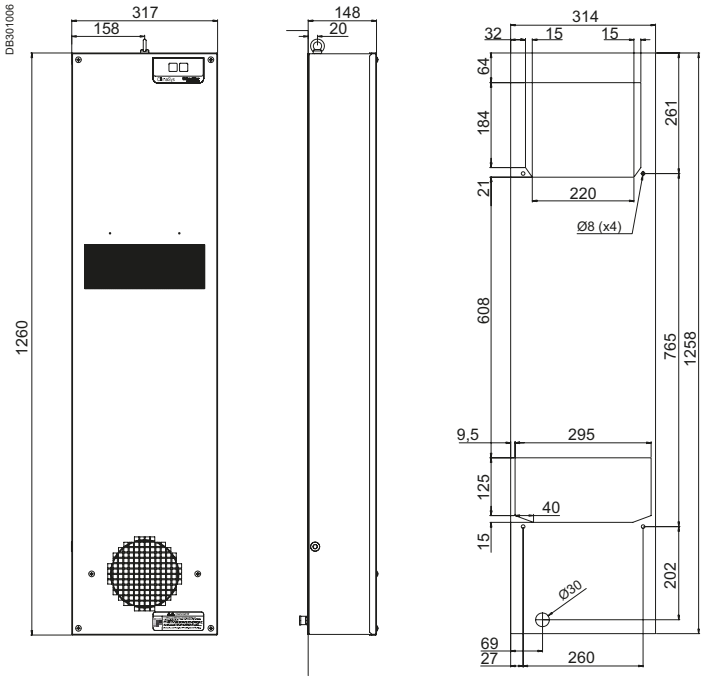
NSYCEA22E



NSYCEA36 / NSYCEA50



NSYCEA80



Units of measurement are mm.

Thermal management system
Introduction

> Choose **air-water exchangers** for especially difficult environments where there is no external air circuit available but a stable cold-water circuit can be supplied.

PB502608-32



PB503621-31



Air-water exchangers: for highly polluted environments

PB502606-30

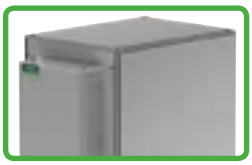


Many mounting options give you the right fit
Air-water exchangers offer roof and side mounting options.

15 kW

Extended ratings to meet any challenge
Provide options for up to 15 kW of cooling power, among the world's highest power ratings for air-water exchangers.

PB502655-32



New material options adapt to any application
Air-water exchangers can be provided in the same material as electrical enclosures for (for example stainless steel) a homogeneous appearance and thermal performance.

DB123816-26

Certifications and declarations
- UL
- CE
- EAC

PB502607-13



Protection
All side -mounting models are IP55 type protected internally and externally according to IEC 60529. Top-mounting models are IP54.

Thermal management system
Characteristics

Air-water exchangers







Characteristics	Side-mounting models				
	Main components: thermostat adjustment system, Exchange cassette, fans for internal circuits of the enclosure, protection device against possible leaks. Eyebolts included in all models.				
Material	RAL 7035 grey painted zinc-coated steel or stainless steel				
Ingress protection rating (according to IEC 60529)	IP55				
Certifications and declarations	■ CE declaration ■ UL (only references ending with UL) ■ EAC				
Installation	Indoor. For outdoor applications or other cover finitions, please consult us.				
Cooling characteristics					
Cooling power W10A35	1000 W	1750 W	2500 W	3500 W	4500 W
Hydraulic circuit maximum pressure	5 bar	5 bar	5 bar	5 bar	5 bar
Internal airflow	330 m³/h	570 m³/h	860 m³/h	1050 m³/h	1450 m³/h
Thermostat type	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical
Temperature setting range	+20 … +46°C	+20 … +46°C	+20 … +46°C	+20 … +46°C	+20 … +46°C
Temperature range external circuit (ambient)	+1 … +70°C	+1 … +70°C	+1 … +70°C	+1 … +70°C	+1 … +70°C
Type of fluid	Filtered water or glicolised water	Filtered water or glicolised water	Filtered water or glicolised water	Filtered water or glicolised water	Filtered water or glicolised water
Water flow	150 l/h	150 l/h	500 l/h	500 l/h	500 l/h
Pressure drop	0.1 bar	0.1 bar	0.3 bar	0.2 bar	0.2 bar
Hydraulic connection	3/8" G	1/2" G	1/2" G	1/2" G	1/2" G
Electric characteristics					
Input voltage	1 x 230 V / 50-60 Hz*	1 x 230 V / 50-60 Hz*	1 x 230 V / 50-60 Hz*	1 x 230 V / 50-60 Hz*	1 x 230 V / 50-60 Hz*
Rated Intensity	0.17 A	0.36 A	0.33 A	0.55 A	0.71 A
Power consumption absorved W10A35	29 W	75 W	80 W	130 W	160 W
Thermal protection recommended (fuse)	T2 A	T2 A	T2 A	T2 A	T2 A
Physical characteristics					
External dimensions (H x W x D)	450 x 310 x 115 mm	901 x 398 x 137 mm	901 x 398 x 137 mm	1148 x 398 x 163 mm	1148 x 398 x 163 mm
Protection degree IP internal / external (according to IEC 60529)	IP55 / IP55	IP55 / IP55	IP55 / IP55	IP55 / IP55	IP55 / IP55
Noise level	55 dB (A)	58 dB (A)	58 dB (A)	64 dB (A)	69 dB (A)
Weight of unit	12 kg	18 kg	19 kg	29 kg	30 kg
References					
Steel	**NSYCEW1K**	**NSYCEW1K8**	**NSYCEW2K5**	**NSYCEW3K5**	**NSYCEW4K5**
Stainless steel	**NSYCEWX1K**	**NSYCEWX1K8**	**NSYCEWX2K5**	**NSYCEWX3K5**	**NSYCEWX4K5**
Steel UL	**NSYCEW1KUL**	**NSYCEW1K8UL**	**NSYCEW2K5UL**	**NSYCEW3K5UL**	**NSYCEW4K5UL**
Stainless steel UL	**NSYCEWX1KUL**	**NSYCEWX1K8UL**	**NSYCEWX2K5UL**	**NSYCEWX3K5UL**	**NSYCEWX4K5UL**

** 60 Hz only for UL versions.*

Thermal management system
Characteristics


PB502609-20


PB502622-34


PB502606-24

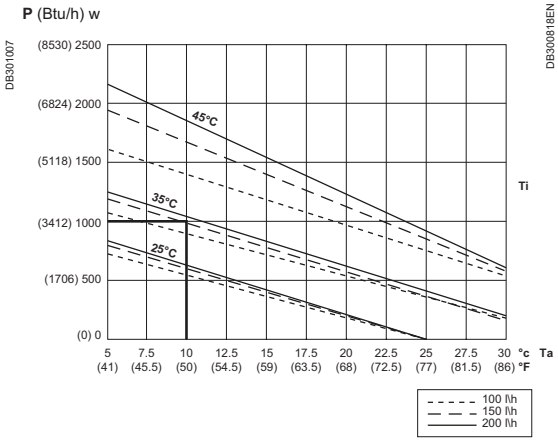
							Top-mounting model
							IP54
	6000 W	6000 W	10000 W	10000 W	15000 W	15000 W	2500 W
	5 bar	8 bar	8 bar	8 bar	8 bar	8 bar	5 bar
	1450 m³/h	1450 m³/h	2420 m³/h	2420 m³/h	2900 m³/h	2900 m³/h	750 m³/h
	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical
	+20 … +46°C	+20 … +46°C	+20 … +46°C	+20 … +46°C	+20 … +46°C	+20 … +46°C	+20 … +46°C
	+1 … +70°C	+1 … +70°C	+1 … +70°C	+1 … +70°C	+1 … +70°C	+1 … +70°C	+1 … +70°C
	Filtered water or glicolised water	Filtered water or glicolised water	Filtered water or glicolised water	Filtered water or glicolised water	Filtered water or glicolised water	Filtered water or glicolised water	Filtered water or glicolised water
	800 l/h	800 l/h	2000 l/h	2000 l/h	2000 l/h	2000 l/h	500 l/h
	0.5 bar	0.5 bar	3.5 bar	3.5 bar	4.8 bar	4.8 bar	0.3 bar
	1/2" G	1/2" G	3/4" G	3/4" G	3/4" G	3/4" G	1/2" G
	1 x 230 V / 50-60 Hz*	2 x 400-440V / 50-60 Hz	1 x 230 V / 50-60 Hz	2 x 400-440V / 50-60 Hz	1 x 230 V / 50-60 Hz	2 x 400-440V / 50-60 Hz	1 x 230 V / 50-60 Hz
	0.71 A	0.4 A	1.2 A	0.75 A	1.4 A	0.9 A	0.30 A
	160 W	170 W	260 W	280 W	320 W	420 W	65 W
	T2 A	T1 A	T2 A	T2 A	T4 A	T2 A	T2 A
	1500 x 450 x 163 mm	1500 x 450 x 163 mm	1932 x 797 x 206 mm	1932 x 797 x 206 mm	1932 x 797 x 206 mm	1932 x 797 x 206 mm	270 x 400 x 542 mm
	IP55 / IP55	IP55 / IP55	IP55 / IP55	IP55 / IP55	IP55 / IP55	IP55 / IP55	IP54 / IP55
	69 dB (A)	69 dB (A)	70 dB (A)	70 dB (A)	72 dB (A)	70 dB (A)	58 dB (A)
	40 kg	42 kg	90 kg	90 kg	92 kg	92 kg	19 kg
	NSYCEW6K	**NSYCEW6K2P4**	**NSYCEW10K**	**NSYCEW10K2P4**	**NSYCEW15K**	**NSYCEW15K2P4**	**NSYCEW2K5R**
	NSYCEWX6K	**NSYCEWX6K2P4**	**NSYCEWX10K**	**NSYCEWX10K2P4**	**NSYCEWX15K**	**NSYCEWX15K2P4**	-
	NSYCEW6KUL	-	-	-	-	-	-
	NSYCEWX6KUL	-	-	-	-	-	-

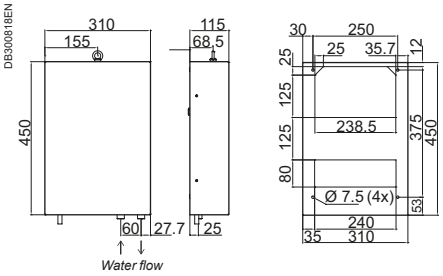
Air-water exchangers

Side-mounting models

NSYCEW••1K••

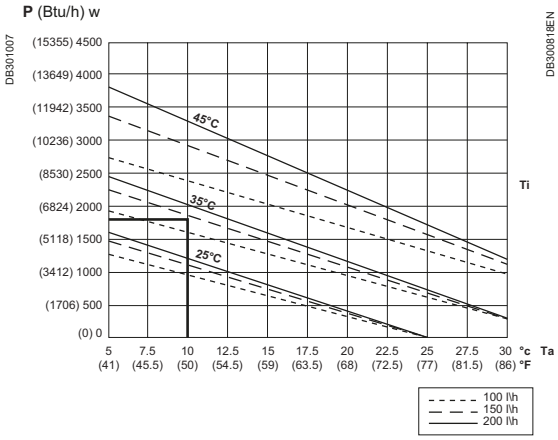
Performance curves

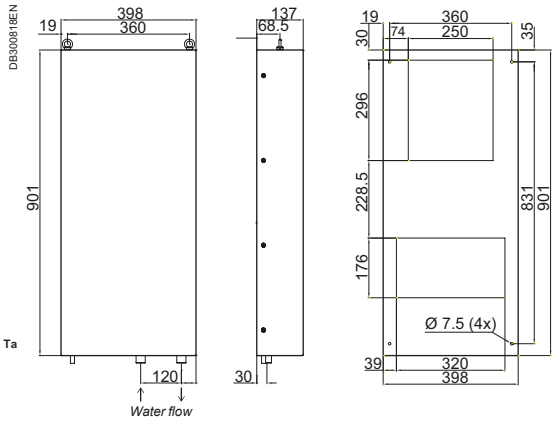


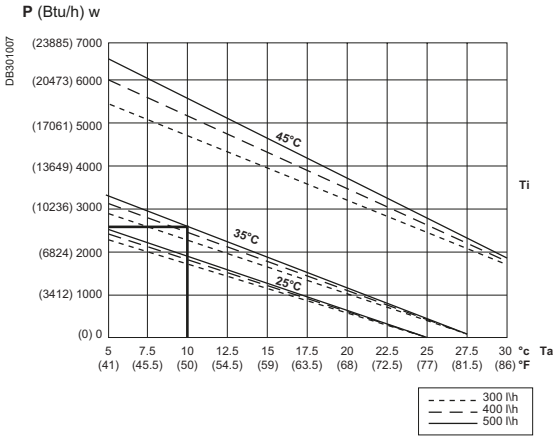


NSYCEW••1K8•• – NSYCEW••2K5••

Performance curves







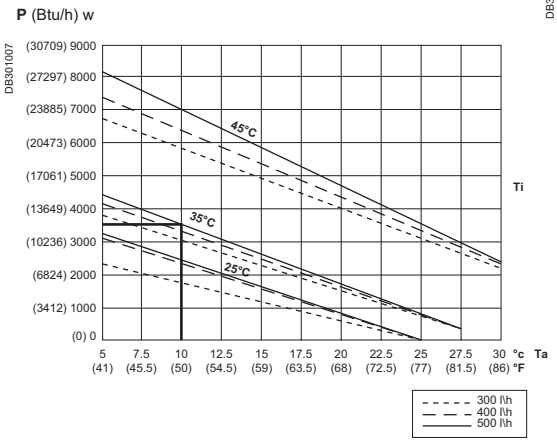
P = Cooling power
Ta= Inlet water temperature
Ti= Desired internal temperature of the enclosure

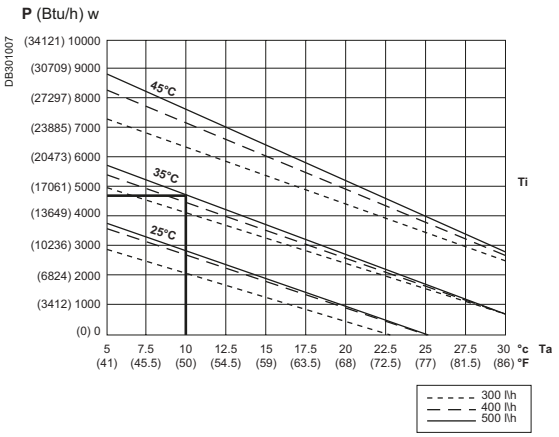
Units of measurement are mm.

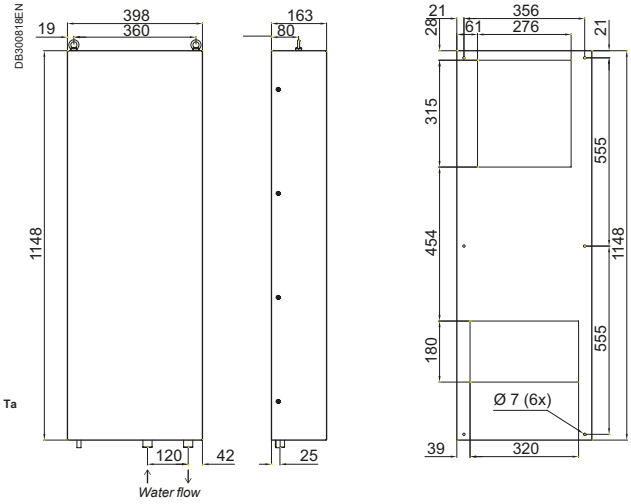
Thermal management system
Dimensions

NSYCEW••3K5•• – NSYCEW••4K5••

Performance curves

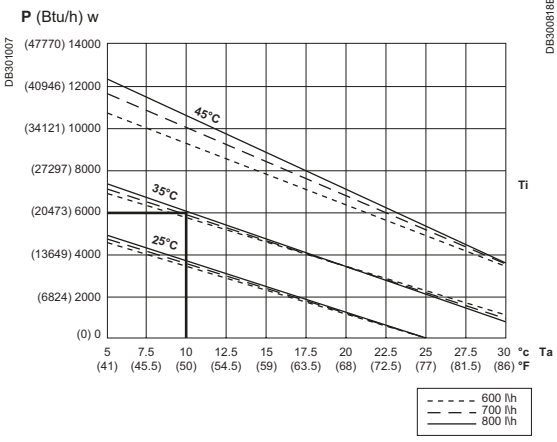


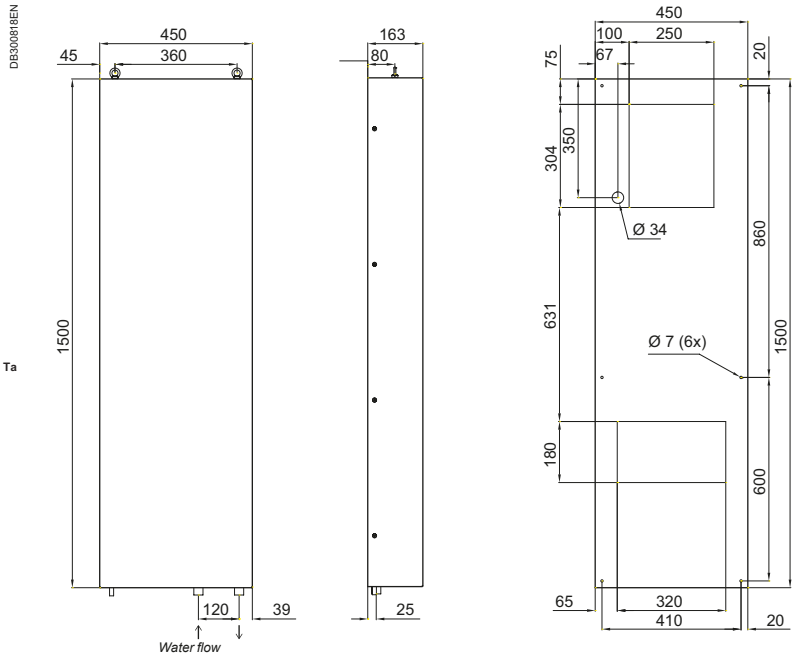




NSYCEW••6K••

Performance curves





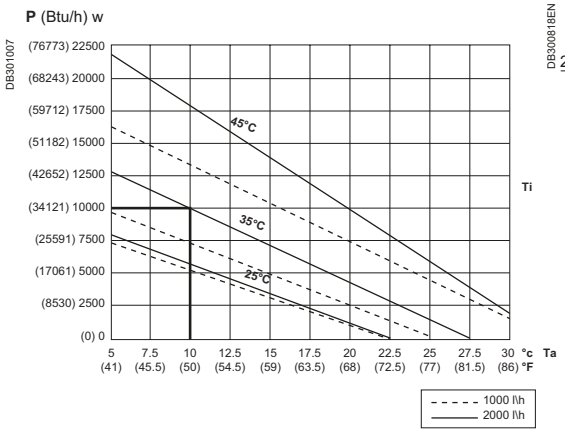
P = Cooling power
Ta= Inlet water temperature
Ti= Desired internal temperature of the enclosure

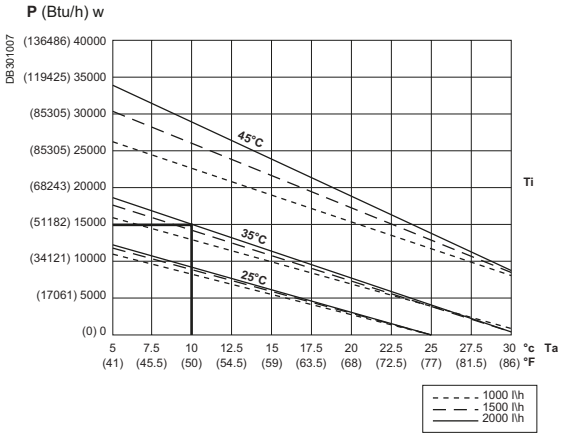
Units of measurement are mm.

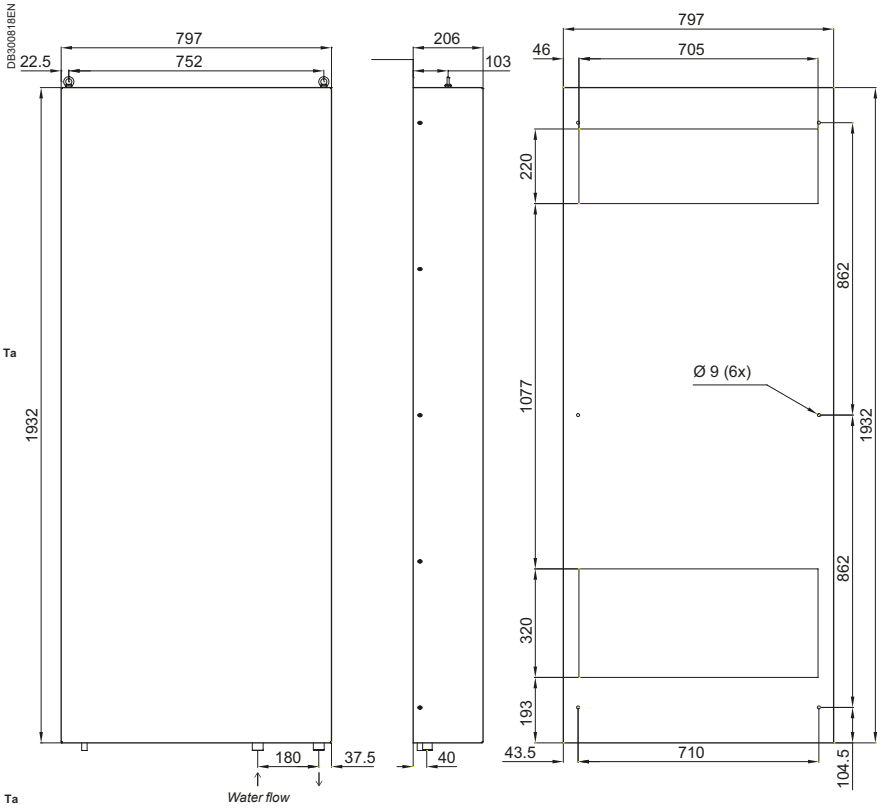
Thermal management system
Dimensions

NSYCEW••10K•• – NSYCEW••15K••

Performance curves



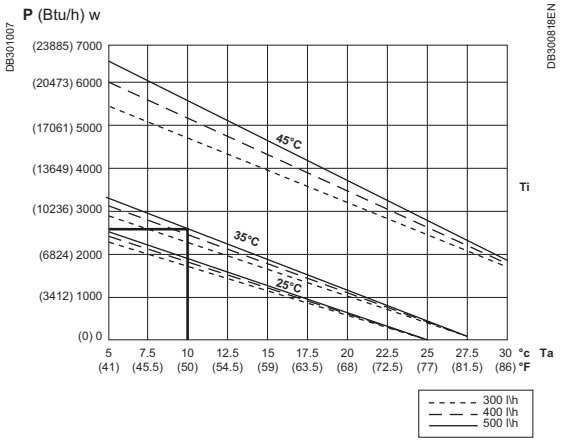


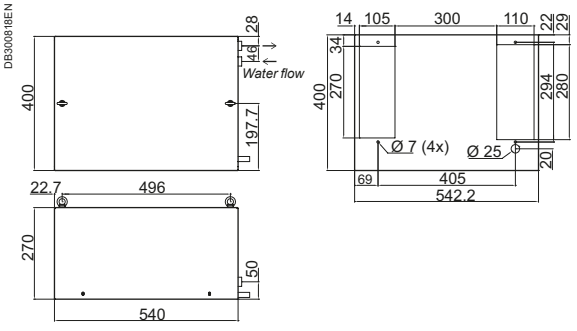


Top-mounting models

NSYCEW2K5R

Performance curves





P = Cooling power
Ta= Inlet water temperature
Ti= Desired internal temperature of the enclosure

Units of measurement are mm.

Thermal management system
Accessories





Characteristics	Air-air and air-water exchangers				Retrofit panel	
	CE		UL / CE			
	Steel	Stainless steel	Steel	Stainless steel		
					Panel that enable to mount a new ClimaSys CE units by replacement of old Schneider Electric cooling systems.	
Material					Metal painted	
Colour					RAL 7035 grey	
Supply					1 unit	
References					**Retrofit panel**	**Old Schneider Electric cooling system**
Air- air exchangers						
Side-mounting models	**NSYCEA36**	-	-	-	**NSYCEARTFIT36**	**NSYCEA35W230VL NSYCEA35W230VLE**
	NSYCEA50	-	-	-	-	-
	NSYCEA80	-	-	-	**NSYCEARTFIT80**	**NSYCEA70W230VL**
Air-water exchangers						
Side-mounting models	**NSYCEW1K**	**NSYCEWX1K**	**NSYCEW1KUL**	**NSYCEWX1KUL**	-	-
	NSYCEW1K8	**NSYCEWX1K8**	**NSYCEW1K8UL**	**NSYCEWX1K8UL**	-	-
	NSYCEW2K5	**NSYCEWX2K5**	**NSYCEW2K5UL**	**NSYCEWX2K5UL**	**NSYCEWRTFIT2K5**	**NSYCEW2100W230VL**
	NSYCEW3K5	**NSYCEWX3K5**	**NSYCEW3K5UL**	**NSYCEWX3K5UL**	**NSYCEWRTFIT3K5**	**NSYCEW3150W230VL**
	NSYCEW4K5	**NSYCEWX4K5**	**NSYCEW4K5UL**	**NSYCEWX4K5UL**	-	-
	NSYCEW6K	**NSYCEWX6K**	**NSYCEW6KUL**	**NSYCEWX6KUL**	-	-
	NSYCEW6K2P4	**NSYCEWX6K2P4**	-	-	-	-
	NSYCEW10K	**NSYCEWX10K**	-	-	-	-
	NSYCEW10K2P4	**NSYCEWX10K2P4**	-	-	-	-
	NSYCEW15K	**NSYCEWX15K**	-	-	-	-
	NSYCEW15K2P4	**NSYCEWX15K2P4**	-	-	-	-
Top-mounting model	**NSYCEW2K5R**	-	-	-	-	-



Thermal management system
Introduction

> Choose **cooling units** for harsh environments, where **ambient temperatures can reach up to 55°C.** The unit's integrated alarm system will signal you in the event of any operational anomaly.

PB502825-27



PB503623-14

PB502832-20

PB503626-20



Cooling units: For a high ambient temperature

PB502631



Several mounting solutions
Three models: roof model, floor model, side model. There is also a SLIM model which permits a space saving and perfect integration on the doors of control panels.

15 kW

Large range of power levels
Provide options for up to 15 kW of cooling power.

PB502661-33



Enhanced protection
An internal grid of a new design protects the components and personnel during operation of the equipment while at the same time **facilitating cleaning and maintenance**.

PB502613



Speed of access to information
The new screen offers fast access to the configuration parameters and information from the sensors located in the enclosure (does not apply to heavy-duty outdoor enclosures).

PB502654-12



New materials
Stainless steel and painted galvanized steel for the outside dedicated to clean, hygienic environments such as food and beverage production plants.

+/- 1.5°C

Precision of temperature control
All ClimaSys cooling units are provided with a precise **electronic control system by thermostat** which gives them high cooling precision (+/- 1.5°C).

Broad temperature range for outdoor enclosures
The outdoor version can withstand extreme environments, with an **operating temperature range** of -20°C to +55°C.

DB123816-26

Certifications and declarations
- UL
- CE
- EAC

PB502660-32



Simplicity
No tools needed to replace the filter.
It just takes a few seconds.

Thermal management system
Characteristics

Cooling units



Characteristics	Side-mounting models			
	■ Respect for the environment by using environmentally friendly gas R134a (HFC). ■ Electronic thermostats in all models. ■ Alarm signal for door contact included in all models. ■ Eyebolts included. ■ The external filter, not included as standard, is strongly recommended for harsh environments. ■ Digital screen. ■ Evaporation condensation water unit integrated from 800 W to 15 kW.			
Material	RAL 7035 grey painted zinc-coated steel or stainless steel			
Certifications and declarations	■ CE declaration ■ UL (only references ending with UL) ■ EAC			
Installation	Indoor			
Cooling characteristics				
Cooling power L35-L35 according to EN 14511	300 W (1024 Btu/h)	380 W (1297 Btu/h)	640 W (2184 Btu/h)	820 W (2798 Btu/h)
Cooling power L35-L50 according to EN 14511	150 W (512 Btu/h)	240 W (819 Btu/h)	470 W (1604 Btu/h)	680 W (2320 Btu/h)
Air flow of the internal circuit (enclosure)	280 m³/h	280 m³/h	330 m³/h	330 m³/h
Air flow of the external circuit (ambient)	280 m³/h	280 m³/h	570 m³/h	570 m³/h
Thermostat type	Electronic	Electronic	Electronic	Electronic
Temperature range internal circuit (enclosure)	+20 … +46°C	+20 … +46°C	+20 … +46°C	+20 … +46°C
Maximum outside temperature	+55°C	+55°C (+50°C)*	+55°C (+50°C)*	+55°C (+50°C)*
Temperature range external circuit (ambient)	+5 … +55°C*	+5 … +55°C* (+5 … +50°C)*	+5 … +55°C* (+5 … +50°C)*	+5 … +55°C* (+5 … +50°C)*
Type of cooling gas	R134a	R134a	R134a	R134a
Cooling gas weight	0.13 kg	0.16 kg	0.23 kg	0.23 kg
Maximum pressure cooling circuit	25 bar	26 bar (28 bar)**	25 bar (28 bar)**	25 bar (28 bar)**
External filter	Optional, see page 555	Optional, see page 555	Optional, see page 555	Optional, see page 555
Electric characteristics				
Input voltage	1 x 230 V / 50-60 Hz	1 x 230 V / 50-60 Hz**	1 x 230 V / 50-60 Hz**	1 x 230 V / 50-60 Hz**
Starting / Rated Intensity	4.2 A / 1.5 A	6.0 A / 1.6 A	8.1 A / 2.1 A	10.8 A / 2.6 A
Power consumption absorved L35-L35 according to EN 14511	270 W	280 W	400 W	440 W
Power consumption absorved L35-L50 according to EN 14511	310 W	330 W	470 W	490 W
Energy efficiency ratio (EER) L35-L35	1.1	1.4	1.6	1.9
Thermal protection recommended (fuse)	T4 A	T4 A	T6 A	T6 A
Physical characteristics				
External dimensions (H x W x D)	340 x 525 x 135 mm	460 x 285 x 180 mm	606 x 316 x 212 mm	783 x 348 x 215 mm
Protection degree IP internal /external according to IEC 60529	IP55 / IP34	IP55 / IP34	IP55 / IP34	IP55 / IP34
Noise level	61 dB	60 dB	65 dB	65 dB
Weight of unit	17 kg	17 kg	21 kg	27 kg
References				
Steel	**NSYCU300H**	**NSYCU400**	**NSYCU600**	**NSYCU800**
Stainless steel	-	**NSYCUX400**	**NSYCUX600**	**NSYCUX800**
Steel UL	-	**NSYCU400UL**	**NSYCU600UL**	**NSYCU800UL**
Stainless steel UL	-	-	**NSYCUX600UL**	**NSYCUX800UL**

** 50°C at 60 Hz.*
*** Certification UL only 60 Hz.*

Thermal management system
Characteristics


PB502595-17


PB502615-19

	1000 W (3412 Btu/h)	1000 W (3412 Btu/h)	1250 W (4265 Btu/h)	1250 W (4265 Btu/h)	1600 W (5459 Btu/h)	1600 W (5459 Btu/h)	2000 W (6824 Btu/h)
	790 W (2696 Btu/h)	790 W (2696 Btu/h)	910 W (3105 Btu/h)	910 W (3105 Btu/h)	1230 W (4197 Btu/h)	1230 W (4197 Btu/h)	1510 W (5152 Btu/h)
	330 m³/h	330 m³/h	570 m³/h	570 m³/h	570 m³/h	570 m³/h	860 m³/h
	570 m³/h	570 m³/h	860 m³/h	860 m³/h	1050 m³/h	1050 m³/h	1050 m³/h
	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic
	+20 … +46°C	+20 … +46°C	+20 … +46°C	+20 … +46°C	+20 … +46°C	+20 … +46°C	+20 … +46°C
	+55°C (+50°C)*	+55°C (+50°C)*	+55°C (+50°C)*	+55°C	+55°C (+50°C)*	+50°C*	+55°C (+50°C)*
	+5 … +55°C* (+5 … +50°C)*	+5 … +50°C (+5 … +50°C)*	+5 … +55°C* (+5 … +50°C)*	+5 … +50°C	+5 … +55°C* (+5 … +50°C)*	+5 … +50°C	+5 … +55°C* (+5 … +50°C)*
	R134a	R134a	R134a	R134a	R134a	R134a	R134a
	0.23 kg	0.23 kg	0.38 kg	0.38 kg	0.45 kg	0.45 kg	0.54 kg
	25 bar (28 bar)**	25 bar (28 bar)**	25 bar (28 bar)**	25 bar	25 bar (28 bar)**	25 bar (28 bar)**	25 bar (28 bar)**
	Optional, see page 555	Optional, see page 555	Optional, see page 555	Optional, see page 555	Optional, see page 555	Optional, see page 555	Optional, see page 555
	1 x 230 V / 50-60 Hz**	2 x 400-440 V / 50-60 Hz 2 x 400-460 V / 50-60 Hz**	1 x 230 V / 50-60 Hz**	2 x 400-440 V / 50-60 Hz	1 x 230 V / 50-60 Hz**	2 x 400-440 V / 50-60 Hz 2 x 460 V / 60 Hz**	1 x 230 V / 50-60 Hz**
	10.5 A / 3 A	8 A / 2 A	11 A / 3.8 A	8.5 A / 2.8 A	18 A / 5.4 A	11 A / 2.9 A	24 A / 6.5 A
	570 W	590 W	650 W	650 W	850 W	840 W	1080 W
	650 W	670 W	760 W	770 W	970 W	960 W	1290 W
	1.8	1.7	1.9	1.9	1.9	1.9	1.9
	T6 A	T4 A	T6 A	T4 A	T10 A	T6 A	T10 A
	783 x 348 x 215 mm	783 x 348 x 215 (+58) mm	999 x 405 x 237 mm	999 x 405 x 237 mm	999 x 405 x 237 mm	999 x 405 x 237 mm	999 x 405 x 237 mm
	IP55 / IP34	IP55 / IP34	IP55 / IP34	IP55 / IP34	IP55 / IP34	IP55 / IP34	IP55 / IP34
	65 dB	65 dB	65 dB	65 dB	65 dB	65 dB	65 dB
	28 kg	29 kg	38 kg	40 kg	40 kg	42 kg	52 kg
	NSYCU1K	**NSYCU1K2P4**	**NSYCU1K2**	**NSYCU1K22P4**	**NSYCU1K6**	**NSYCU1K62P4**	**NSYCU2K**
	NSYCUX1K	**NSYCUX1K2P4**	**NSYCUX1K2**	**NSYCUX1K22P4**	**NSYCUX1K6**	**NSYCUX1K62P4**	**NSYCUX2K**
	NSYCU1KUL	**NSYCU1K2P4UL**	**NSYCU1K2UL**	-	**NSYCU1K6UL**	**NSYCU1K62P4UL**	**NSYCU2KUL**
	NSYCUX1KUL	**NSYCUX1K2P4UL**	**NSYCUX1K2UL**	-	**NSYCUX1K6UL**	**NSYCUX1K62P4UL**	**NSYCUX2KUL**

Thermal management system
Characteristics

Cooling units







Characteristics	Side-mounting models			Floor-standing models
	■ Alarm signal for door contact included in all models. ■ Eyebolts included. ■ The external filter, not included as standard, is strongly recommended for harsh environments.			
Material	RAL 7035 grey painted zinc-coated steel or stainless steel			
Certifications and declarations	■ CE declaration ■ UL (only references ending with UL) ■ EAC			
Installation	Indoor			Indoor
Cooling characteristics				
Cooling power L35-L35 according to EN 14511	2000 W (6824 Btu/h)	2900 W (9895 Btu/h)	3850 W (13137 Btu/h)	5800 W (19790 Btu/h)
Cooling power L35-L50 according to EN 14511	1510 W (5152 Btu/h)	2250 W (7677 Btu/h)	2870 W (9793 Btu/h)	4350 W (14843 Btu/h)
Air flow of the internal circuit (enclosure)	860 m³/h	1450 m³/h	1450 m³/h	1450 m³/h
Air flow of the external circuit (ambient)	1050 m³/h	1450 m³/h	1450 m³/h	2900 m³/h
Thermostat type	Electronic	Electronic	Electronic	Electronic
Temperature range internal circuit (enclosure)	+20 … +46°C (+45°C)*	+20 … +46°C (+45°C)*	+20 … +46°C (+45°C)*	+20 … +46°C
Maximum outside temperature	+50°C (+45°C)	+50°C (+45°C)	+50°C (+45°C)	+50°C
Temperature range external circuit (ambient)	+5 … +50°C (+5 … +45°C)*	+5 … +50°C (+5 … +45°C)*	+5 … +50°C (+5 … +45°C)*	+10 … +50°C
Type of cooling gas	R134a	R134a	R134a	R407c
Cooling gas weight	0.59 kg	0.84 kg	1.14 kg	1.8 kg
Maximum pressure cooling circuit	25 bar (28 bar)*	25 bar (28 bar)*	25 bar (28 bar)*	27 bar
External filter	Optional, see page 555	Optional, see page 555	Optional, see page 555	Polyurethane filter standard
Electric characteristics				
Input voltage	3 x 400 V / 50-60 Hz 3 x 460 V / 60 Hz*	3 x 400 V / 50-60 Hz 3 x 460 V / 60 Hz*	3 x 400 V / 50-60 Hz 3 x 460 V / 60 Hz*	3 x 400 V / 50 Hz
Starting / Rated Intensity	10 A / 2.5 A	14 A / 2.6 A	18 A / 3.6 A	21.7 A / 5.9 A
Power consumption absorved L35-L35 according to EN 14511	970 W	1220 W	1780 W	2340 W
Power consumption absorved L35-L50 according to EN 14511	1150 W	1440 W	2050 W	3880 W
Energy efficiency ratio (EER) L35-L35	2.1	2.4	2.2	2.5
Thermal protection recommended (fuse)	T6 A	T6 A	T8 A	T8 A
Physical characteristics				
External dimensions (H x W x D)	999 x 405 x 237 mm	1270 x 500 x 336 mm	1270 x 500 x 336 mm	2000 x 600 x 380 mm
Protection degree IP internal /external according to IEC 60529	IP55 / IP34	IP55 / IP34	IP55 / IP34	IP54 / IP34
Noise level	65 dB	70 dB	70 dB	72 dB
Weight of unit	54 kg	84 kg	85 kg	150 kg
References				
Steel	**NSYCU2K3P4**	**NSYCU3K3P4**	**NSYCU4K3P4**	**NSYCU6K3P4**
Stainless steel	**NSYCUX2K3P4**	**NSYCUX3K3P4**	**NSYCUX4K3P4**	-
Steel UL	**NSYCU2K3P4UL**	**NSYCU3K3P4UL**	**NSYCU4K3P4UL**	-
Stainless steel UL	**NSYCUX2K3P4UL**	**NSYCUX3K3P4UL**	**NSYCUX4K3P4UL**	-

** Certification UL only 60 Hz.*

Thermal management system
Characteristics


PB502625-21


PB502626-28


PB502627-27

	Indoor						
	6050 W (20643 Btu/h)	7600 W (25932 Btu/h)	7950 W (27126 Btu/h)	9400 W (32074 Btu/h)	9850 W (33610 Btu/h)	14800 W (50500 Btu/h)	15150 W (51694 Btu/h)
	4350 W (14843 Btu/h)	5700 W (19449 Btu/h)	5930 W (20234 Btu/h)	7000 W (23885 Btu/h)	7350 W (25079 Btu/h)	11300 W (38557 Btu/h)	11600 W (39581 Btu/h)
	1450 m³/h	2900 m³/h	2900 m³/h	2900 m³/h	2900 m³/h	4300 m³/h	4300 m³/h
	2900 m³/h	2900 m³/h	2900 m³/h	2900 m³/h	2900 m³/h	5800 m³/h	5800 m³/h
	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic
	+20 … +46°C	+20 … +46°C	+20 … +46°C	+20 … +46°C	+20 … +46°C	+20 … +46°C	+20 … +46°C
	+50°C	+50°C	+50°C	+50°C	+50°C	+55°C	+55°C
	+10 … +50°C	+10 … +50°C	+10 … +50°C	+10 … +45°C	+10 … +45°C	+10 … +50°C	+10 … +50°C
	R407c	R134a	R134a	R134a	R134a	R410a	R410a
	1.8 kg	2.8 kg	2.8 kg	2.3 kg	2.3 kg	3.5 kg	3.5 kg
	27 bar	27 bar	27 bar	27 bar	27 bar	39 bar	39 bar
	Polyurethane filter standard	Polyurethane filter standard	Polyurethane filter standard	Polyurethane filter standard	Polyurethane filter standard	Polyurethane filter standard	Polyurethane filter standard
	3 x 460 V / 60 Hz	3 x 400 V / 50 Hz	3 x 460 V / 60 Hz	3 x 400 V / 50 Hz	3 x 460 V / 60 Hz	3 x 400 V / 50 Hz	3 x 460 V / 60 Hz
	23.5 A / 6.8 A	43.8 A / 7.2 A	44.5 A / 7.9 A	30.7 A / 9.1 A	32.5 A / 10.3 A	49 A / 11 A	51 A / 11.8 A
	2920 W	3530 W	4210 W	3850 W	4380 W	5750 W	6580 W
	4520 W	4270 W	5340 W	5400 W	6340 W	6900 W	7760 W
	2.1	2.2	1.9	2.4	2.2	2.6	2.3
	T8 A	T10 A	T10 A	T18 A	T18 A	T20 A	T20 A
	2000 x 600 x 380 mm	2000 x 800 x 380 mm	2000 x 800 x 380 mm	2000 x 800 x 380 mm	2000 x 800 x 380 mm	2000 x 800 x 550 mm	2000 x 800 x 550 mm
	IP54 / IP34	IP54 / IP34	IP54 / IP34	IP54 / IP34	IP54 / IP34	IP54 / IP34	IP54 / IP34
	72 dB	72 dB	72 dB	77 dB	77 dB	67 dB	67 dB
	150 kg	160 kg	160 kg	180 kg	180 kg	240 kg	240 kg
	NSYCU6K3P460	**NSYCU8K3P4**	**NSYCU8K3P460**	**NSYCU10K3P4**	**NSYCU10K3P460**	**NSYCU15K3P4**	**NSYCU15K3P460**
	-	-	-	-	-	-	-
	-	-	-	-	-	-	-
	-	-	-	-	-	-	-

Thermal management system
Characteristics

Cooling units



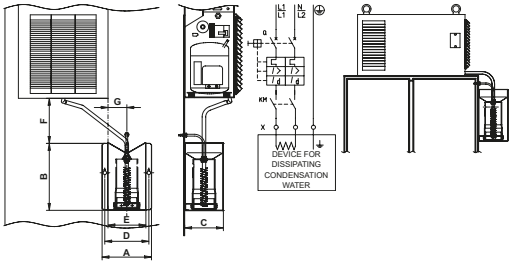




Characteristics	Roof-mounting models		
	■ Respect for the environment by using environmentally friendly gas R134a (HFC). ■ Integrated water condensation exit system. ■ Alarm signal for door contact included in all models. ■ Eyebolts included. ■ The external filter, not included as standard, is strongly recommended for harsh environments.		
Material	RAL 7035 grey painted zinc-coated steel or stainless steel.		
Certifications and declarations	■ CE declaration ■ UL (only references ending with UL) ■ EAC		
Installation	Indoor		
Cooling characteristics			
Cooling power L35-L35 according to EN 14511	410 W (1399 Btu/h)	820 W (2798 Btu/h)	1150 W (3924 Btu/h)
Cooling power L35-L50 according to EN 14511	240 W (819 Btu/h)	680 W (2320 Btu/h)	900 W (3071 Btu/h)
Air flow of the internal circuit (enclosure)	235 m³/h	570 m³/h	570 m³/h
Air flow of the external circuit (ambient)	330 m³/h	860 m³/h	1010 m³/h
Thermostat type	Electronic	Electronic	Electronic
Temperature range internal circuit (enclosure)	+20 … +46°C	+20 … +46°C	+20 … +46°C
Maximum outside temperature	+55°C (+50°C)*	+55°C (+50°C)*	+55°C (+50°C)*
Temperature range external circuit (ambient)	+5 … +55°C* (+5 … +50°C)*	+5 … +55°C* (+5 … +50°C)*	+5 … +55°C* (+5 … +50°C)*
Type of cooling gas	R134a	R134a	R134a
Cooling gas weight	0.17 kg	0.31 kg	0.63 kg
Maximum pressure cooling circuit	28 bar	25 bar (28 bar)**	25 bar (28 bar)**
External filter	Optional, see page 555	Optional, see page 555	Optional, see page 555
Electric characteristics			
Input voltage	1 x 230 V / 50-60 Hz**	1 x 230 V / 50-60 Hz**	1 x 230 V / 50-60 Hz**
Starting / Rated Intensity	4 A / 1.5 A	12 A / 2.9 A	11 A / 3.2 A
Power consumption absorved L35-L35 according to EN 14511	230 W	510 W	550 W
Power consumption absorved L35-L50 according to EN 14511	290 W	560 W	660 W
Energy efficiency ratio (EER) L35-L35	1.8	1.6	2.1
Thermal protection recommended (fuse)	T4 A	T6 A	T6 A
Physical characteristics			
External dimensions (H x W x D)	264 x 486 x 259 mm	340 x 600 x 340 mm	415 x 567 x 401 mm
Protection degree IP internal /external according to IEC 60529	IP54 / IP34	IP54 / IP34	IP54 / IP34
Noise level	65 dB	65 dB	65 dB
Weight of unit	18 kg	23 kg	40 kg
References			
Steel	**NSYCU400R**	**NSYCU800R**	**NSYCU1K2R**
Stainless steel	**NSYCUX400R**	**NSYCUX800R**	**NSYCUX1K2R**
Steel UL	**NSYCU400RUL**	**NSYCU800RUL**	**NSYCU1K2RUL**

** 50°C at 60 Hz.*
*** Certification UL only 60 Hz.*
**** For cooling units greater than 65 kg we recommend to place universal cross rails NSYSUCR4060 or NSYSUCR4080.*

Device for dissipating condensation water (external installation)



■ Device allowing the evacuation of condensation water from the internal battery (evaporator).
■ Supplied with stainless-steel support.
■ Power supply:

Operating voltage ±10%

Voltage	Starting current	Thermal protection recommended	Evaporation capacity	Resistance type
230 V~	2.9 A	T 3 A	200 cl/h	PTC
115 V~	5.8 A	T 6 A		

Heat sink

NSYCUAD

Thermal management system
Characteristics





	1550 W (5289 Btu/h)	2050 W (6995 Btu/h)	2050 W (6995 Btu/h)	2900 W (9895 Btu/h)	3850 W (13137 Btu/h)
	1200 W (4095 Btu/h)	1560 W (5323 Btu/h)	1560 W (5323 Btu/h)	2250 W (7677 Btu/h)	2870 W (9793 Btu/h)
	860 m³/h	1050 m³/h	1050 m³/h	860 m³/h	1450 m³/h
	1820 m³/h	1820 m³/h	1820 m³/h	3410 m³/h	3410 m³/h
	Electronic	Electronic	Electronic	Electronic	Electronic
	+20 … +46°C	+20 … +46°C	+20 … +46°C	+20 … +46°C	+20 … +46°C
	+55°C	+55°C (+50°C)**	+50°C (+45°C)**	+50°C (+45°C)**	+50°C (+45°C)**
	+5 … +55°C* (+5 … +50°C)*	+5 … +55°C*	+5 … +50°C (+5 … +45°C)**	+5 … +50°C (+5 … +45°C)**	+5 … +50°C (+5 … +45°C)**
	R134a	R134a	R134a	R134a	R134a
	0.54 kg	0.55 kg	0.55 kg	1.20 kg	1.60 kg
	25 bar (28 bar)**	25 bar	25 bar (28 bar)**	25 bar (28 bar)**	25 bar (28 bar)**
	Optional, see page 555	Optional, see page 555	Optional, see page 555	Optional, see page 555	Optional, see page 555
	1 x 230 V / 50-60 Hz**	1 x 230 V / 50-60 Hz	3 x 400 V / 50-60 Hz 3 x 460 V / 60 Hz*	3 x 400 V / 50-60 Hz 3 x 460 V / 60 Hz*	3 x 400 V / 50-60 Hz 3 x 460 V / 60 Hz*
	18 A / 4.5 A	24 A / 6 A	10 A / 1.9 A	15.7 A / 2.5 A	17 A / 3.6 A
	810 W	1150 W	990 W	1210 W	1790 W
	930 W	1250 W	1190 W	1450 W	2010 W
	1.9	1.8	2.1	2.4	2.2
	T10 A	T10 A	T6 A	T6 A	T6 A
	415 x 567 x 401 mm	415 x 567 x 401 mm	415 x 567 x 401 mm	496 x 797 x 492 mm	496 x 797 x 492 mm
	IP54 / IP34	IP54 / IP34	IP54 / IP34	IP54 / IP34	IP54 / IP34
	65 dB	65 dB	65 dB	75 dB	75 dB
	44 kg	50 kg	52 kg	83 kg***	86 kg***
	NSYCU1K5R	**NSYCU2KR**	**NSYCU2K3P4R**	**NSYCU3K3P4R**	**NSYCU4K3P4R**
	NSYCUX1K5R	**NSYCUX2KR**	**NSYCUX2K3P4R**	**NSYCUX3K3P4R**	**NSYCUX4K3P4R**
	NSYCU1K5RUL	-	**NSYCU2K3P4RUL**	**NSYCU3K3P4RUL**	**NSYCU4K3P4RUL**

Thermal management system
Characteristics

Outdoor Heavy Duty cooling units







Characteristics	Side-mounting models		
	■ Respect for the environment by using environmentally friendly gas R134a (HFC). ■ Mechanical thermostats in all models. ■ Eyebolts included. ■ The external filter, not included as standard. The metallic filter is strongly recommended. ■ Metalic canopy as standard. ■ Anti-corrosive protection (class C3H). ■ Inside components, including the condenser, coated with anti-corrosive protection.		
Material	RAL 7035 grey painted zinc-coated steel		
Certifications and declarations	■ CE declaration ■ EAC		
Installation	Indoor or outdoor		
Cooling characteristics			
Cooling power L35-L35 according to EN 14511	380 W (1297 Btu/h)	640 W (2184 Btu/h)	820 W (2798 Btu/h)
Cooling power L35-L50 according to EN 14511	240 W (819 Btu/h)	470 W (1604 Btu/h)	680 W (2320 Btu/h)
Air flow of the internal circuit (enclosure)	280 m³/h	330 m³/h	330 m³/h
Air flow of the external circuit (ambient)	280 m³/h	570 m³/h	570 m³/h
Thermostat type	Mechanic	Mechanic	Mechanic
Temperature range internal circuit (enclosure)	+20 … +50°C	+20 … +50°C	+20 … +50°C
Maximum outside temperature	+55°C	+55°C	+55°C
Temperature range external circuit (ambient)	-20 … +55°C	-20 … +55°C	-20 … +55°C
Type of cooling gas	R134a	R134a	R134a
Cooling gas weight	0.16 kg	0.26 kg	0.28 kg
Maximum pressure cooling circuit	26 bar	25 bar	25 bar
External filter	Optional, see metalic filter on page 555	Optional, see metalic filter on page 555	Optional, see metalic filter on page 555
Electric characteristics			
Input voltage	1 x 230 V / 50-60 Hz	1 x 230 V / 50-60 Hz	1 x 230 V / 50-60 Hz
Starting / Rated Intensity	6.0 A / 1.6 A	8.1 A / 2.1 A	10.8 A / 2.6 A
Power consumption absorved L35-L35 according to EN 14511	280 W	400 W	440 W
Power consumption absorved L35-L50 according to EN 14511	330 W	470 W	490 W
Energy efficiency ratio (EER) L35-L35	1.4	1.6	1.9
Thermal protection recommended (fuse)	T4 A	T6 A	T6 A
Physical characteristics			
External dimensions (H x W x D)	573 x 300 x 205 mm	718 x 331 x 235 mm	875 x 363 x 239 mm
Protection degree IP internal /external according to IEC 60529	IP55 / IP34	IP55 / IP34	IP55 / IP34
Noise level	60 dB	65 dB	65 dB
Weight of unit	17 kg	21 kg	27 kg
References			
	NSYCUHD400	**NSYCUHD600**	**NSYCUHD800**

Thermal management system
Characteristics

PB502680-17



PB502677-19



	1000 W (3412 Btu/h)	1000 W (3412 Btu/h)	1600 W (5459 Btu/h)	1600 W (5459 Btu/h)	2000 W (6824 Btu/h)	2900 W (9895 Btu/h)	3850 W (13137 Btu/h)
	790 W (2696 Btu/h)	790 W (2696 Btu/h)	1230 W (4197 Btu/h)	1230 W (4197 Btu/h)	1510 W (5152 Btu/h)	2250 W (7677 Btu/h)	2870 W (9793 Btu/h)
	330 m³/h	330 m³/h	570 m³/h	570 m³/h	860 m³/h	1450 m³/h	1450 m³/h
	570 m³/h	570 m³/h	1050 m³/h	1050 m³/h	1050 m³/h	1450 m³/h	1450 m³/h
	Mechanic	Mechanic	Mechanic	Mechanic	Mechanic	Mechanic	Mechanic
	+20 … +50°C	+20 … +50°C	+20 … +50°C	+20 … +50°C	+20 … +50°C	+20 … +50°C	+20 … +50°C
	+55°C	+55°C	+55°C	+55°C	+55°C	+55°C	+55°C
	-20 … +55°C	-20 … +50°C	-20 … +55°C	-20 … +50°C	-20 … +55°C	-20 … +50°C	-20 … +50°C
	R134a	R134a	R134a	R134a	R134a	R134a	R134a
	0.27 kg	0.27 kg	0.46 kg	0.46 kg	0.65 kg	0.84 kg	1.14 kg
	25 bar	25 bar	25 bar	25 bar	25 bar	25 bar	25 bar
	Optional, see metalic filter on page 555	Optional, see metalic filter on page 555	Optional, see metalic filter on page 555	Optional, see metalic filter on page 555	Optional, see metalic filter on page 555	Optional, see metalic filter on page 555	Optional, see metalic filter on page 555
	1 x 230 V / 50-60 Hz	2 x 400-440V / 50-60 Hz	1 x 230 V / 50-60 Hz	2 x 400-440V / 50-60 Hz	3 x 400 V / 50-60 Hz	3 x 400 V / 50-60 Hz	3 x 400 V / 50-60 Hz
	10.5 A / 3 A	8 A / 2 A	18 A / 5.3 A	11 A / 2.9 A	10 A / 2.5 A	14 A / 2.6 A	18 A / 3.6 A
	570 W	590 W	820 W	840 W	970 W	1220 W	1780 W
	650 W	670 W	940 W	960 W	1150 W	1440 W	2050 W
	1.8	1.7	2.0	1.9	2.1	2.4	2.2
	T6 A	T4 A	T10 A	T6 A	T6 A	T6 A	T8 A
	895 x 363 x 239 mm	895 x 363 x 239 (+58) mm	1009 x 415 x 261 mm	1009 x 415 x 261 mm	1009 x 415 x 261 mm	1416 x 512 x 365 mm	1416 x 512 x 365 mm
	IP55 / IP34	IP55 / IP34	IP55 / IP34	IP55 / IP34	IP55 / IP34	IP55 / IP34	IP55 / IP34
	65 dB	65 dB	65 dB	65 dB	65 dB	70 dB	70 dB
	28 kg	29 kg	40 kg	42 kg	54 kg	84 kg	85 kg
	NSYCUHD1K	**NSYCUHD1K2P4**	**NSYCUHD1K6**	**NSYCUHD1K62P4**	**NSYCUHD2K3P4**	**NSYCUHD3K3P4**	**NSYCUHD4K3P4**

Thermal management system
Characteristics

Slim cooling units



Characteristics	Side-mounting models			
	■ Respect for the environment by using environmentally friendly gas R134a (HFC). ■ Electronical thermostat included. ■ 3 mounting positions (surface, half-flush and flush). ■ Alarm Signal for contact door. ■ Eyebolts included.			
Material	RAL 7035 grey painted zinc-coated steel or stainless steel			
Certifications and declarations	■ CE declaration ■ UL ■ EAC			
Installation	■ Indoor ■ There is one unique cut-out for all mounting positions and all slim models			
Cooling characteristics				
Cooling power L35-L35 according to EN 14511	1100 W (3753 Btu/h)	1100 W (3753 Btu/h)	1500 W (5118 Btu/h)	1500 W (5118 Btu/h)
Cooling power L35-L50 according to EN 14511	860 W (2934 Btu/h)	860 W (2934 Btu/h)	1150 W (3924 Btu/h)	1150 W (3924 Btu/h)
Air flow of the internal circuit (enclosure)	860 m³/h	860 m³/h	860 m³/h	860 m³/h
Air flow of the external circuit (ambient)	860 m³/h	860 m³/h	860 m³/h	860 m³/h
Thermostat type	Electronic	Electronic	Electronic	Electronic
Temperature range internal circuit (enclosure)	+20 … +46°C	+20 … +46°C	+20 … +46°C	+20 … +46°C
Maximum outside temperature	+50°C	+50°C	+50°C	+50°C
Temperature range external circuit (ambient)	+5 … +50°C	+5 … +50°C	+5 … +50°C	+5 … +50°C
Type of cooling gas	R134a	R134a	R134a	R134a
Cooling gas weight	0.5 kg	0.5 kg	0.46 kg	0.46 kg
Maximum pressure cooling circuit	28 bar	28 bar	28 bar	28 bar
External circuit filter	Optional, see page 555	Optional, see page 555	Optional, see page 555	Optional, see page 555
Electric characteristics				
Input voltage	1 x 230 V / 50-60 Hz*	2 x 400-460 V / 50-60 Hz*	1 x 230 V / 50-60 Hz*	2 x 400-460 V / 50-60 Hz*
Starting / Rated Intensity	11 A / 4.8 A	8.5 A / 2.7 A	18 A / 5.7 A	11 A / 3.2 A
Power consumption absorved L35-L35 according to EN 14511	660 W	660 W	840 W	840 W
Power consumption absorved L35-L50 according to EN 14511	790 W	790 W	970 W	970 W
Energy efficiency ratio (EER) L35-L35	1.7	1.7	1.8	1.8
Thermal protection recommended (fuse)	T6 A	T4 A	T10 A	T6 A
Physical characteristics				
External dimensions (H x W x D)	1696 x 495 x 195 mm	1696 x 495 x 195 mm	1696 x 495 x 195 mm	1696 x 495 x 195 mm
Protection degree IP internal /external according to IEC 60529	IP55 / IP34	IP55 / IP34	IP55 / IP34	IP55 / IP34
Noise level	64 dB	64 dB	66 dB	66 dB
Weight of unit	50 kg	52 kg	55 kg	57 kg
References				
Steel UL	**NSYCUS1K1UL**	**NSYCUS1K12P4UL**	**NSYCUS1K5UL**	**NSYCUS1K52P4UL**
Stainless steel UL	**NSYCUSX1K1UL**	**NSYCUSX1K12P4UL**	**NSYCUSX1K5UL**	**NSYCUSX1K52P4UL**

** Certification UL only 60 Hz.*

Thermal management system
Characteristics



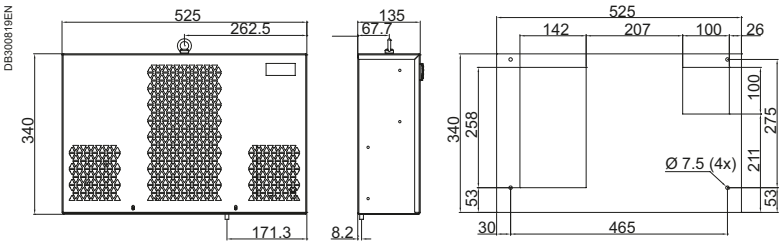
	2000 W (6824 Btu/h)	2000 W (6824 Btu/h)	2500 W (8530 Btu/h)	2500 W (8530 Btu/h)	3200 W (10919 Btu/h)	3200 W (10919 Btu/h)
	1550 W (5289 Btu/h)	1550 W (5289 Btu/h)	1850 W (6312 Btu/h)	1850 W (6312 Btu/h)	2500 W (8530 Btu/h)	2500 W (8530 Btu/h)
	860 m³/h	860 m³/h	1450 m³/h	1450 m³/h	1450 m³/h	1450 m³/h
	1050 m³/h	1050 m³/h	1450 m³/h	1450 m³/h	1450 m³/h	1450 m³/h
	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic
	+20 … +46°C	+20 … +46°C	+20 … +46°C	+20 … +46°C	+20 … +46°C	+20 … +46°C
	+50°C	+50°C	+50°C	+50°C	+50°C	+50°C
	+5 … +50°C	+5 … +50°C	+5 … +50°C	+5 … +50°C	+5 … +50°C	+5 … +50°C
	R134a	R134a	R134a	R134a	R134a	R134a
	0.51 kg	0.59 kg	1.2 kg	1.2 kg	0.85 kg	1.25 kg
	28 bar	28 bar	28 bar	28 bar	28 bar	28 bar
	Optional, see page 555	Optional, see page 555	Optional, see page 555	Optional, see page 555	Optional, see page 555	Optional, see page 555
	1 x 230 V / 60 Hz	3 x 400 V / 50-60 Hz (3 x 460 V / 60 Hz)*	1 x 230 V / 60 Hz	3 x 400 V / 50-60 Hz (3 x 460 V / 60 Hz)*	1 x 230 V / 60 Hz	3 x 400 V / 50-60 Hz (3 x 460 V / 60 Hz)*
	24 A / 6.5 A	10 A / 2.1 A	35 A / 10.5 A	14 A / 2.9 A	37 A / 10.5 A	18 A / 3.1 A
	1020 W	1060 W	1340 W	1270 W	1720 W	1650 W
	1160 W	1270 W	1580 W	1510 W	2000 W	1980 W
	2.0	1.9	1.9	2.0	1.9	1.9
	T10 A	T6 A	T16 A	T6 A	T16 A	T6 A
	1696 x 495 x 195 mm	1696 x 495 x 195 mm	1696 x 495 x 235 mm	1696 x 495 x 235 mm	1696 x 495 x 235 mm	1696 x 495 x 235 mm
	IP55 / IP34	IP55 / IP34	IP55 / IP34	IP55 / IP34	IP55 / IP34	IP55 / IP34
	67 dB	67 dB	69 dB	69 dB	69 dB	69 dB
	63 kg	65 kg	80 kg	82 kg	81 kg	83 kg
	NSYCUS2KUL	**NSYCUS2K3P4UL**	**NSYCUS2K5UL**	**NSYCUS2K53P4UL**	**NSYCUS3K2UL**	**NSYCUS3K23P4UL**
	NSYCUSX2KUL	**NSYCUSX2K3P4UL**	**NSYCUSX2K5UL**	**NSYCUSX2K53P4UL**	**NSYCUSX3K2UL**	**NSYCUSX3K23P4UL**

Thermal management system
Dimensions

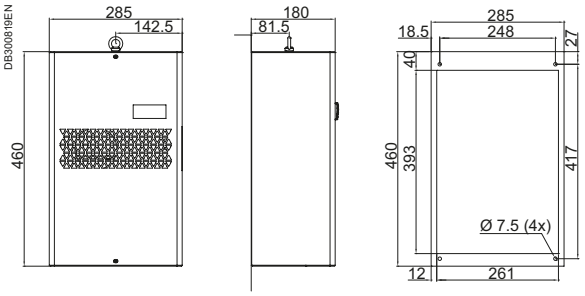
Cooling units

Side-mounting models: dimensions and cut-outs

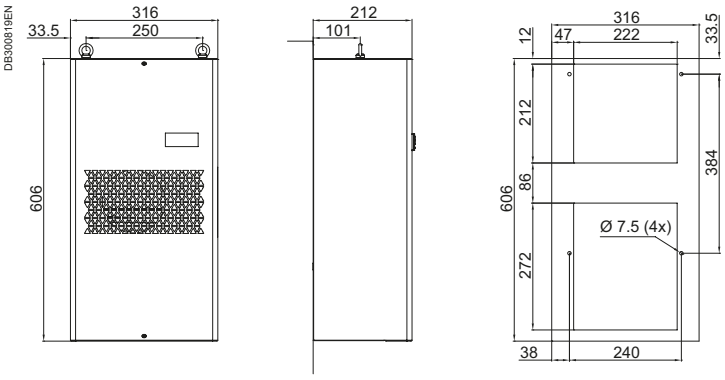
NSYCU300H



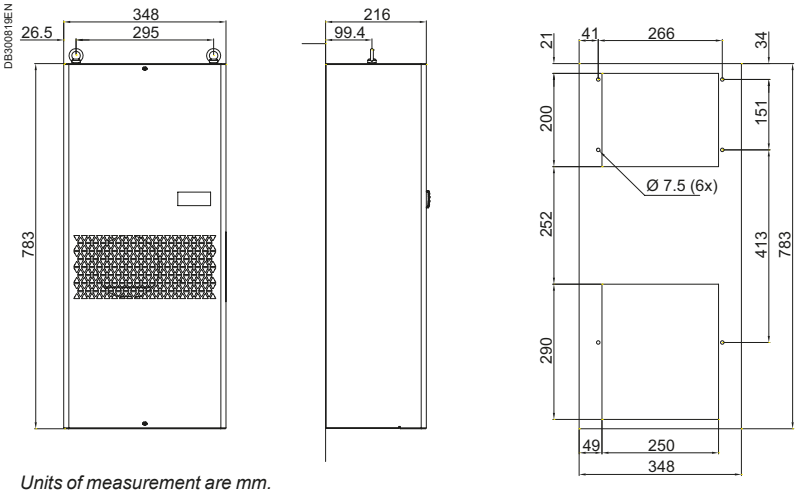
NSYCU••400••



NSYCU••600••



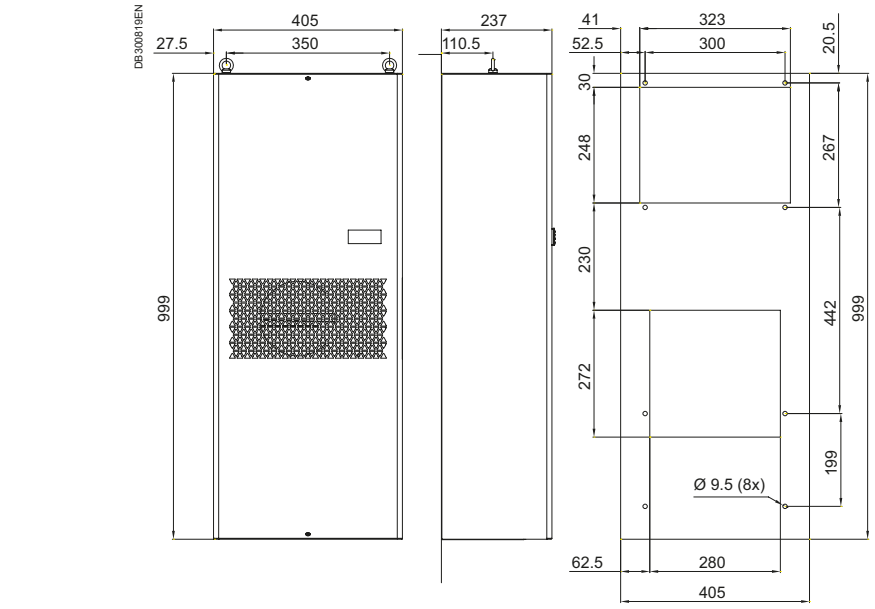
NSYCU••800•• - NSYCU••1K••



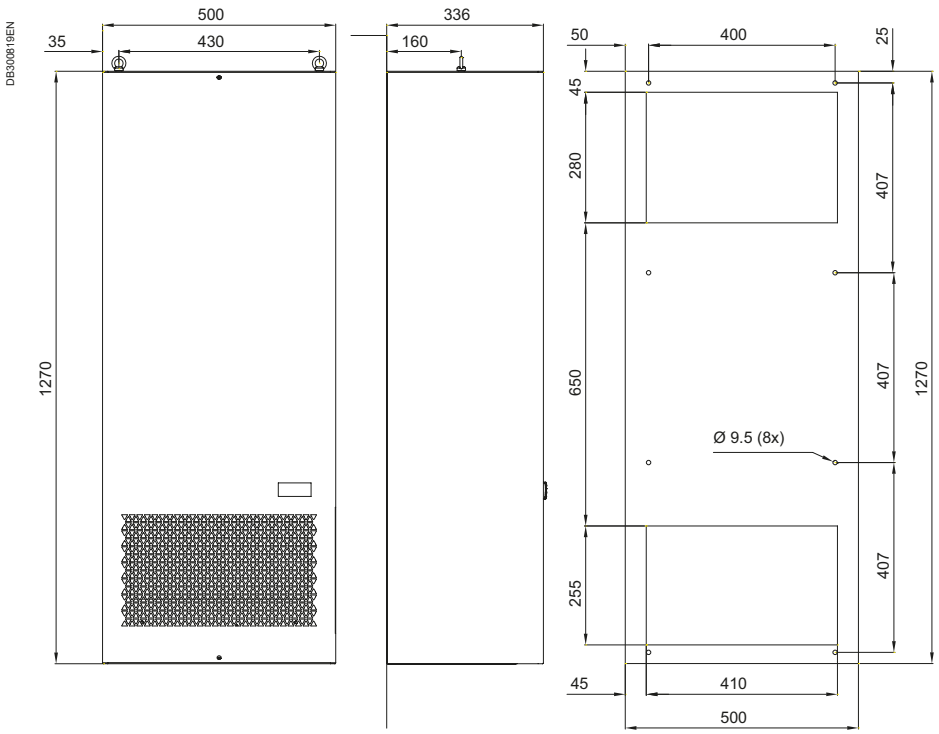
Units of measurement are mm.

Thermal management system
Dimensions

NSYCU••1K2•• - NSYCU••1K6•• - NSYCU••2K••



NSYCU••3K3P4•• - NSYCU••4K3P4••



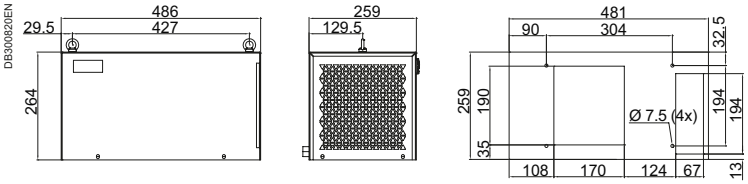
Units of measurement are mm.

Thermal management system
Dimensions

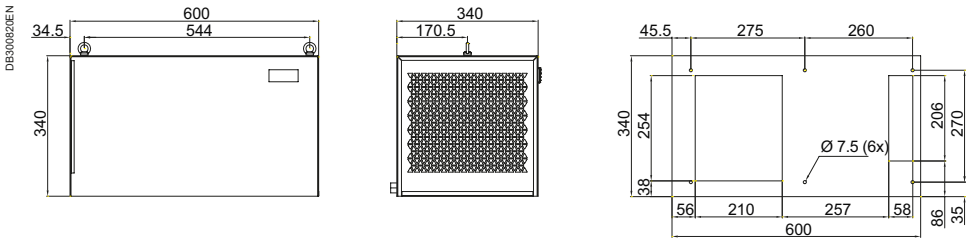
Cooling units

Top-mounting models: dimensions and cut-outs

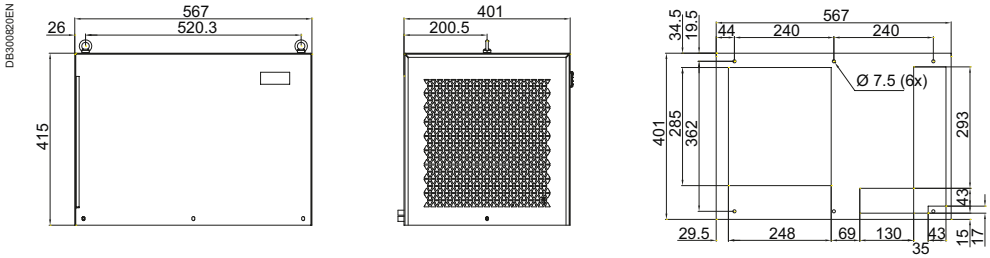
NSYCU••400R••



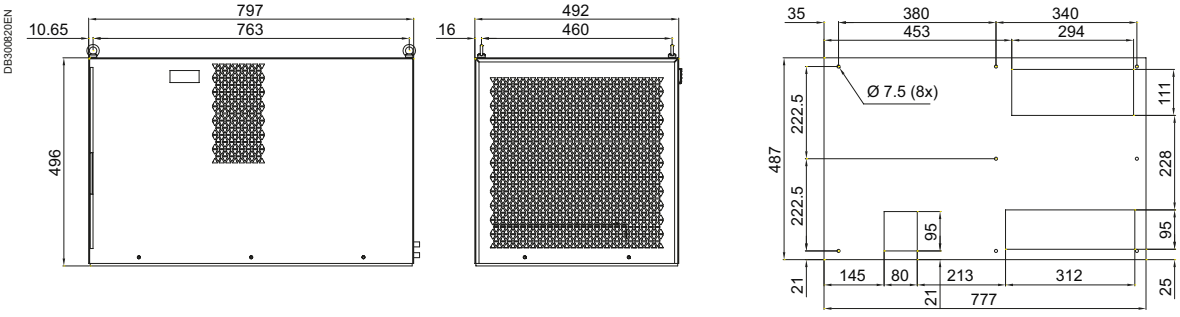
NSYCU••800R••



NSYCU••1K2R•• - NSYCU••1K5R•• - NSYCU••2K••R••



NSYCU••3K3P4R•• - NSYCU••4K3P4R••

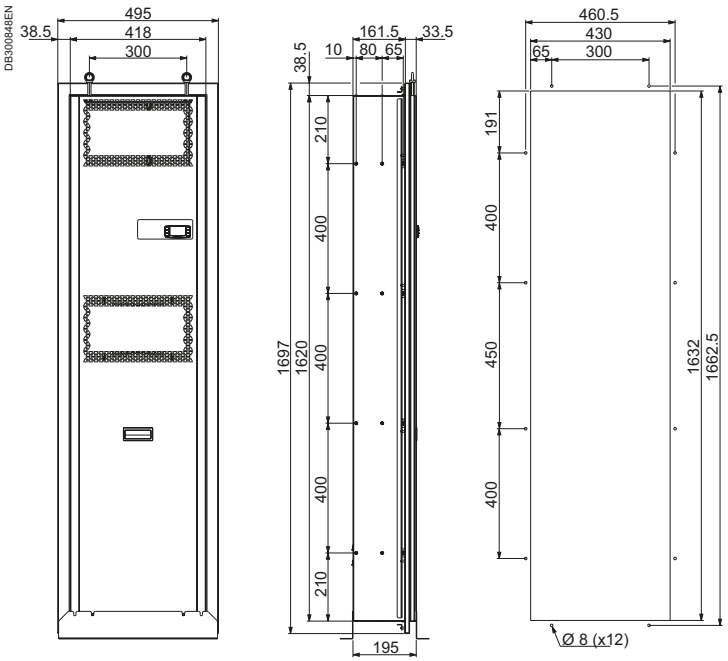


Units of measurement are mm.

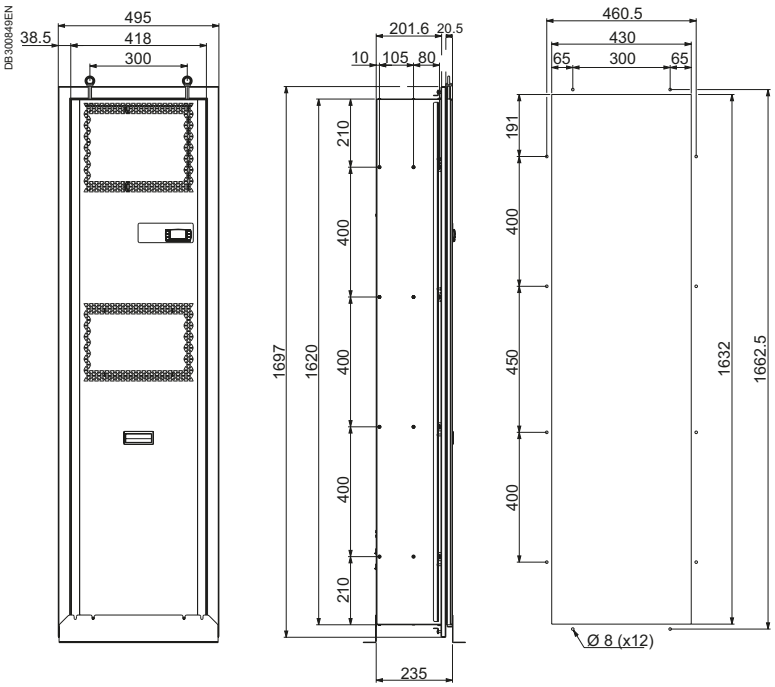
Thermal management system
Dimensions

Slim cooling units

NSYCUS•1K1• - NSYCUS•1K5• - NSYCUS•2K•



NSYCUS•2K5• - NSYCUS•3K2•



Units of measurement are mm.

Thermal management system
Accessories



Characteristics	Cooling units				
	IEC			UL	
	Steel	Stainless steel	Outdoor	Steel	Stainless steel
Material					
Colour					
Installation					
Supply					
References					
Cooling units					
Side-mounting models	NSYCU300H	-	-	-	-
	NSYCU400	NSYCUX400	NSYCUHD400	NSYCU400UL	-
	NSYCU600	NSYCUX600	NSYCUHD600	NSYCU600UL	NSYCUX600UL
	NSYCU800	NSYCUX800	NSYCUHD800	NSYCU800UL	NSYCUX800UL
	NSYCU1K	NSYCUX1K	NSYCUHD1K	NSYCU1KUL	NSYCUX1KUL
	NSYCU1K2P4	NSYCUX1K2P4	NSYCUHD1K2P4	NSYCU1K2P4UL	NSYCUX1K2P4UL
	NSYCU1K2	NSYCUX1K2	-	NSYCU1K2UL	NSYCUX1K2UL
	NSYCU1K22P4	NSYCUX1K22P4	-	-	-
	NSYCU1K6	NSYCUX1K6	NSYCUHD1K6	NSYCU1K6UL	NSYCUX1K6UL
	NSYCU1K62P4	NSYCUX1K62P4	NSYCUHD1K62P4	NSYCU1K62P4UL	NSYCUX1K62P4UL
	NSYCU2K	NSYCUX2K	-	NSYCU2KUL	NSYCUX2KUL
	NSYCU2K3P4	NSYCUX2K3P4	NSYCUHD2K3P4	NSYCU2K3P4UL	NSYCUX2K3P4UL
	NSYCU3K3P4	NSYCUX3K3P4	NSYCUHD3K3P4	NSYCU3K3P4UL	NSYCUX3K3P4UL
	NSYCU4K3P4	NSYCUX4K3P4	NSYCUHD4K3P4	NSYCU4K3P4UL	NSYCUX4K3P4UL
Floor-standing models	NSYCU6K3P4	-	-	-	-
	NSYCU6K3P460	-	-	-	-
	NSYCU8K3P4	-	-	-	-
	NSYCU8K3P460	-	-	-	-
	NSYCU10K3P4	-	-	-	-
	NSYCU10K3P460	-	-	-	-
	NSYCU15K3P4	-	-	-	-
	NSYCU15K3P460	-	-	-	-
Roof-mounting model	NSYCU400R	NSYCUX400R	-	NSYCU400RUL	-
	NSYCU800R	NSYCUX800R	-	NSYCU800RUL	-
	NSYCU1K2R	NSYCUX1K2R	-	NSYCU1K2RUL	-
	NSYCU1K5R	NSYCUX1K5R	-	NSYCU1K5RUL	-
	NSYCU2K3P4R	NSYCUX2K3P4R	-	NSYCU2K3P4RUL	-
	NSYCU2KR	NSYCUX2KR	-	-	-
	NSYCU3K3P4R	NSYCUX3K3P4R	-	NSYCU3K3P4RUL	-
	NSYCU4K3P4R	NSYCUX4K3P4R	-	NSYCU4K3P4RUL	-
Slim model	-	-	-	NSYCUS1K1UL	NSYCUSX1K1UL
	-	-	-	NSYCUS1K12P4UL	NSYCUSX1K12P4UL
	-	-	-	NSYCUS1K5UL	NSYCUSX1K5UL
	-	-	-	NSYCUS1K52P4UL	NSYCUSX1K52P4UL
	-	-	-	NSYCUS2KUL	NSYCUSX2KUL
	-	-	-	NSYCUS2K3P4UL	NSYCUSX2K3P4UL
	-	-	-	NSYCUS2K5UL	NSYCUSX2K5UL
	-	-	-	NSYCUS2K53P4UL	NSYCUSX2K53P4UL
	-	-	-	NSYCUS3K2UL	NSYCUSX3K2UL
	-	-	-	NSYCUS3K23P4UL	NSYCUSX3K23P4UL

Thermal management system
Accessories


PB502620-23


PB502621-24


PB502658-24


PB502647-37

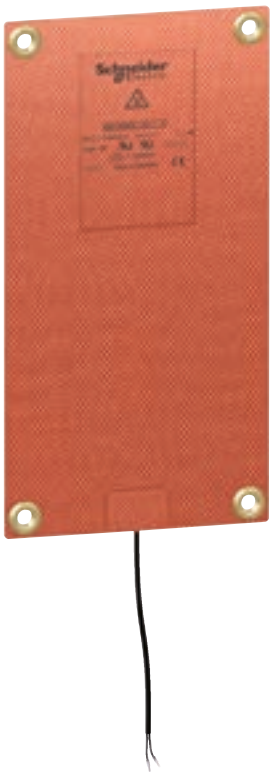

PB502657-24

	Filters		Canopy for ClimaSys CU	Internal deflector	Retrofit panel	
	Plastic filter not recommended for outdoor models.	Metalic filter recommended for outdoor models.	This canopy is highly recommended for harsh indoor environments to protect from ingress of dust.	Deflects the air inside the enclosure.	Panel that enable to mount a new ClimaSys CU units by replacement of old Schneider Electric cooling systems.	
	Polyurethane	Micro-stretched aluminium	Painted zinc coated	Zinc coated	Metal painted	
	Black	-	RAL 7035 grey	RAL 7035 grey	RAL 7035 grey	
	Indoor	Indoor or outdoor	Indoor	Indoor or outdoor	Indoor	
	5 units	1 unit	1 unit	1 unit with fixing elements	1 unit	
						Old Schneider Electric cooling system
	-	-	-	-	-	-
	NSYCUF400	**NSYCUFX400**	**NSYCUCN400HD**	**NSYCUD400**	**NSYCURFT400**	**NSYCU240W230VL** **NSYCU370W230VL**
	NSYCUF600	**NSYCUFX600**	**NSYCUCN600HD**	**NSYCUD600**	-	-
	NSYCUF800T1K	**NSYCUFX800T1K**	**NSYCUCN800T1KHD**	**NSYCUD800T1K**	**NSYCURFT800T1K**	**NSYCU760W230VL**
	NSYCUF800T1K	**NSYCUFX800T1K**	**NSYCUCN800T1KHD**	**NSYCUD800T1K**	**NSYCURFT800T1K**	**NSYCUE1100W230L**
	NSYCUF800T1K	**NSYCUFX800T1K**	**NSYCUCN800T1KHD**	**NSYCUD1K2T2K**	**NSYCURFT800T1K**	**NSYCU1K**
	NSYCUF1KT2K	**NSYCUFX1K2T2K**	**NSYCUCN1K2T2KHD**	**NSYCUD1K2T2K**	-	-
	NSYCUF1KT2K	**NSYCUFX1K2T2K**	**NSYCUCN1K2T2KHD**	**NSYCUD1K2T2K**	-	-
	NSYCUF1KT2K	**NSYCUFX1K2T2K**	**NSYCUCN1K2T2KHD**	**NSYCUD1K2T2K**	**NSYCURFT1K6T2K**	**NSYCUE1400W230L** **NSYCU1650W230VL**
	NSYCUF1KT2K	**NSYCUFX1K2T2K**	**NSYCUCN1K2T2KHD**	**NSYCUD1K2T2K**	**NSYCURFT1K6T2K**	**NSYCUE1400W400L**
	NSYCUF1KT2K	**NSYCUFX1K2T2K**	**NSYCUCN1K2T2KHD**	**NSYCUD1K2T2K**	-	-
	NSYCUF1KT2K	**NSYCUFX1K2T2K**	**NSYCUCN1K2T2KHD**	**NSYCUD1K2T2K**	**NSYCURFT1K6T2K**	**NSYCU1800W400VL** **NSYCUE1800W400L**
	NSYCUF3KT4K	**NSYCUFX3KT4K**	**NSYCUCN3KT4KHD**	**NSYCUD3KT4K**	**NSYCURFT3KT4K**	**NSYCU2500W400VL**
	NSYCUF3KT4K	**NSYCUFX3KT4K**	**NSYCUCN3KT4KHD**	**NSYCUD3KT4K**	**NSYCURFT3KT4K**	**NSYCU4000W400VL**
	NSYCUF6K	**NSYCUFX6K**	-	-	-	-
	NSYCUF6K	**NSYCUFX6K**	-	-	-	-
	NSYCUF8KT10K	**NSYCUFX8KT10K**	-	-	-	-
	NSYCUF8KT10K	**NSYCUFX8KT10K**	-	-	-	-
	NSYCUF8KT10K	**NSYCUFX8KT10K**	-	-	-	-
	NSYCUF8KT10K	**NSYCUFX8KT10K**	-	-	-	-
	NSYCUF15K	**NSYCUFX15K**	-	-	-	-
	NSYCUF15K	**NSYCUFX15K**	-	-	-	-
	NSYCUF400R	**NSYCUFX400R**	-	-	-	-
	NSYCUF800R	**NSYCUFX800R**	-	-	**NSYCURFT800R**	**NSYCU760W230VR**
	NSYCUF1K2T2KR	**NSYCUFX1K2T2KR**	-	-	**NSYCURFT1K2T2K**	**NSYCU1050W230VR**
	NSYCUF1K2T2KR	**NSYCUFX1K2T2KR**	-	-	**NSYCURFT1K2T2K**	**NSYCUE1400W230R** **NSYCU1460W230VR** **NSYCU1650W230VR**
	NSYCUF1K2T2KR	**NSYCUFX1K2T2KR**	-	-	**NSYCURFT1K2T2K**	**NSYCUE1800W400R** **NSYCU2000W400VR**
	NSYCUF1K2T2KR	**NSYCUFX1K2T2KR**	-	-	-	-
	NSYCUF3KT4KR	**NSYCUFX3KT4KR**	-	-	**NSYCURFT3K**	**NSYCU2450W400VR** **NSYCU3100W400VR**
	NSYCUF3KT4KR	**NSYCUFX3KT4KR**	-	-	-	-
	NSYCUF1K1T2KS	**NSYCUFX1K1T2KS**	-	**NSYCUD1K1T1K5**	-	**NSYCUB1100W230S**
	NSYCUF1K1T2KS	**NSYCUFX1K1T2KS**	-	**NSYCUD1K1T1K5**	-	**NSYCUB1100W400S**
	NSYCUF1K1T2KS	**NSYCUFX1K1T2KS**	-	**NSYCUD1K1T1K5**	-	**NSYCUB1500W230S**
	NSYCUF1K1T2KS	**NSYCUFX1K1T2KS**	-	**NSYCUD1K1T1K5**	-	**NSYCUB1500W400S**
	NSYCUF1K1T2KS	**NSYCUFX1K1T2KS**	-	**NSYCUD1K1T1K5**	-	**NSYCUB2200W230S**
	NSYCUF1K1T2KS	**NSYCUFX1K1T2KS**	-	**NSYCUD1K1T1K5**	-	**NSYCUB2200W400S**
	NSYCUF1K1T2KS	**NSYCUFX1K1T2KS**	-	**NSYCUD1K1T1K5**	-	**NSYCUB2700W230S**
	NSYCUF1K1T2KS	**NSYCUFX1K1T2KS**	-	**NSYCUD1K1T1K5**	-	**NSYCUB2700W400S**
	NSYCUF1K1T2KS	**NSYCUFX1K1T2KS**	-	**NSYCUD1K1T1K5**	-	**NSYCUB2700W230S**
	NSYCUF1K1T2KS	**NSYCUFX1K1T2KS**	-	**NSYCUD1K1T1K5**	-	**NSYCUB2700W400S**

Thermal management system
Introduction

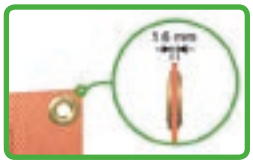
> Ultra thin resistance heaters have been designed to resolve condensation problems in the most complex installations.
Is your enclosure short of space?
Does your mounting plate make it impossible to install a conventional heater?
Do you not want to take out the equipment?
Discover the benefits of this new offer and its numerous mounting solutions.

PB502042-40

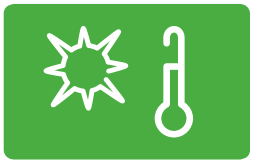


Ultra thin resistance heaters

PB502437-32



Small size (thickness = 1.6 mm)
The space saving available for the equipment compared with a conventional resistor can be up to 30%.



Heat and safety
The heat is distributed over the whole surface and does not exceed 70°C. This temperature allows devices next to the heater to be handled safely.

PB502046-22



Multiple options for fixing
Innovative quick-fixing system using Velcro pads (no need for a tool!) or with basic fixing accessories (screw + spacer). These systems make it easy to move the heater if necessary.

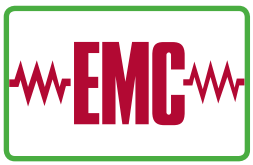
PB502522-16



Numerous positions for installation
These heaters are so slim and flexible they can be installed in a variety of positions:
- Vertically on side panels
- On the mounting plate.



Energy efficiency
Ultra thin resistance heaters are ohmic: they therefore have a low starting current.

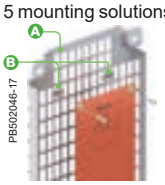


No interference emissions
These resistors can be installed near electronic equipment to guarantee optimum heat.

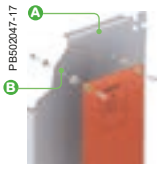
Thermal management system
Characteristics and selection guide

Ultra thin resistance heaters

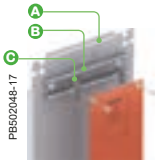
Description	Flexible, ultra thin resistance heaters to be installed inside the enclosure
Material	Silicon reinforced with fibreglass
Colour	Red (heaters), black (wires)
Certifications	VDE, LR
Installation	5 mounting solutions :



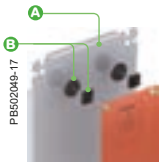
1 - On a Telequick mounting plate
A: Telequick mounting plate, **ref. NSYMR●●●●**
B: Telequick nuts, **ref. AF1EA●**, supplied with the mounting kit



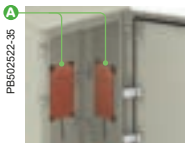
2 - On plain or micro-perforated mounting plate with fixing hardware
A: Mounting plate, **ref. NSYMM●●●●**
B: Fixing hardware included in the mounting kit



3 - On DIN rail
A: Mounting plate, **ref. NSYMM●●●●**
B: Symmetrical DIN rail, **ref. NSYSDR●●●●**
C: Clip-on nuts, **ref. AF1CG●**, supplied with the mounting kit

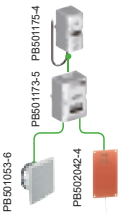


4 - On plain mounting plate with selfadhesive Velcro pads
A: Mounting plate, **ref. NSYMM●●●●**
B: Self-adhesive Velcro pad and plastic fixings supplied with the mounting kit



5 - On wall with self-adhesive Velcro pads
A: Self-adhesive Velcro pads and plastic fixings supplied in the mounting kit

Other characteristics	Electrical circuit diagram



Supply	■ 6 self-adhesive Velcro pads ■ 6 plastic fixings ■ 4 Telequick nuts ■ 4 clip-on nuts ■ Fixing hardware



Ultra thin resistance heaters*

Power (W)	Voltage (V)	Inrush current (A)	Height (mm)	Width (mm)	Depth (mm)	References
10	120	0.08	110	140	1.6	**NSYCRS10W120V**
	240	0.04	110	140	1.6	**NSYCRS10W240V**
25	120	0.21	110	230	1.6	**NSYCRS25W120V**
	240	0.10	110	230	2.6	**NSYCRS25W240V**
50	120	0.42	200	320	1.6	**NSYCRS50W120V**
	240	0.21	200	320	2.6	**NSYCRS50W240V**
100	120	0.83	260	440	1.6	**NSYCRS100W120V**
	240	0.42	260	440	1.6	**NSYCRS100W240V**
200	120	1.67	380	650	1.6	**NSYCRS200W120V**
	240	0.83	380	650	1.6	**NSYCRS200W240V**

** Ultra thin resistance heaters can be manufactured with different dimensions and power ratings than those indicated above. Please contact us.*

Thermal management system
Introduction

> The resistance heaters prevent the formation of condensation and guarantee the ideal temperature for the correct operation of the electronic components in the enclosure.

DB300452-43



PB501026-36



PB501027-36



PB501144-29



Insulated PTC heaters

PB501027-20



PB501029-18



Large range of power levels
- 2 versions: by natural convection and with fan.
- AC or DC power supply.
- 7 power levels, from 10 W to 550 W.

PB501138-18



Innovating design

PB501140-19



PB501139-24



Easy installation and connection
- Reduced dimensions.
- Quick electric connection by terminal board.
- No maintenance required.
- Direct clipping onto a 35 mm DIN rail.

PB501026-14



PB501141-19



Safety
- The protection prevents direct contact with the aluminium radiator.
- Electric protection device with terminal block cover.
- Equipped with a PTC-type heater.
- Surface temperature lower than 70°C.

High thermal efficiency
- The configuration of the aluminium profile produces a "chimney" effect: high natural convection.
- Low power consumption thanks to self-control of the PTC-type heater.

PB501142-17



Models with fan
- The heaters equipped with a fan ensure circulation of the air and a uniform temperature inside the enclosure.
- High-flow, silent fan.

DB123816-12



PB501143



Certifications
- CE marking.
- Range compliant with UL and VDE.

Thermal management system
Introduction

PB501145-67



Aluminium PTC heaters

PB501146-28



Resistance heaters equipped with a PTC-type sensor

The resistance heaters for electrical and electronic enclosures are equipped with PTC-type heating devices (Positive Temperature Coefficient).
Thanks to these heaters:
- The surface temperature stabilises at 75°C when the ambient temperature is -5°C.
- Power consumption is reduced.

Improved convection

The design of the profile of the resistance heaters produces a "chimney" effect, leading to increased natural convection and maintaining an even temperature inside the enclosure.

PB501147-111



Quick fixing

The resistance heaters are fixed by means of fixing clips to a 35 mm DIN rail.

PB501148-21



Connection cables

The 10 and 20 W heaters are equipped with a 2 x 0.75 x 300 mm power cord.

PB501149-28



Connection terminal boards

Heaters with a power of more than 20 W are equipped with a connection terminal board.

Large range of power levels

8 power levels, from 10 W to 400 W.

PB501025-28



Models with fan

Models of 250 to 400 W with fan.

Thermal management system
Characteristics

Insulated PTC resistance heaters

Characteristics

Material

Conditions of use

Ingress protection rating (according to IEC 60529)

Certifications

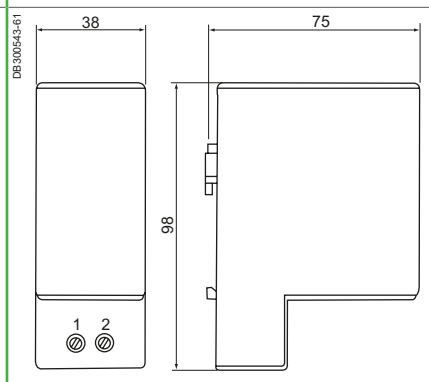
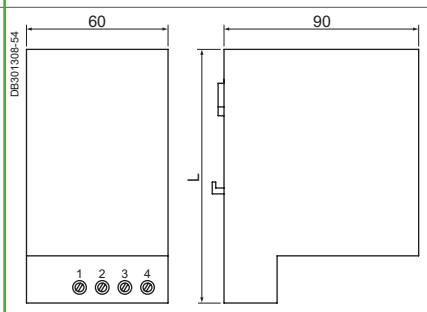
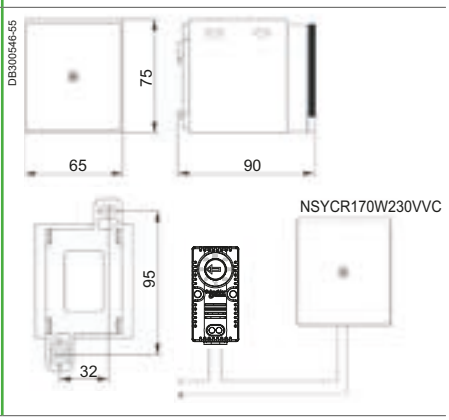
Heating power at 0°C	Voltage	Surface temperature	Electric connection	Mounting
10 W	12-24 V DC	<70°C, except for the top protection grille	2 poles, 2.5 mm²	Quick by clip on a 35-mm DIN rail
10 W	110-250 V AC			
20 W	12-24 V DC			
20 W	110-250 V AC			
55 W	12-24 V DC	<70°C, except for the top protection grille	4 poles, 2.5 mm²	By clip on a 35-mm DIN rail
55 W	110-250 V AC			
55 W	270-420 V AC			
100 W	12-24 V DC			
100 W	110-250 V AC			
100 W	270-420 V AC			
147 W	12-24 V DC			
147 W	110-250 V AC			
177 W	230 V AC / 50-60 HZ	Max. 50°C in the enclosure, 100°C on the top protection grille, (for an ambient temperature of 20°C / 68°F)	2 poles, 2.5 mm²	By clip on a 35-mm DIN rail

Thermal management system
Characteristics







	Insulated PTC heater		Insulated ventilated PTC heaters
	■ Compact resistance heater preventing the formation of condensation or frost. ■ Designed to ensure good natural convection and high thermal efficiency.		
	Extruded aluminium body		
	■ The heaters must be installed with a thermal controller (see selection table on pages 564 and 565) to control the temperature or the humidity inside the enclosure ■ The enclosure must be sealed to prevent the entry of air from the outside ■ An electrical protection device must be installed on the supply side of the unit ■ **Operating position:** vertical ■ **Operating temperature:** -40…+70°C; -10…+158°F		
	IP20		
	VDE and NSYCR•••U2C models UL certified **Cover:** UL 94 V-0 plastic Class II (double insulated)		
	References		
	NSYCR10WU1C	-	-
	NSYCR10WU2C	-	-
	NSYCR20WU1C	-	-
	NSYCR20WU2C	-	-
	-	**NSYCR50WU1C**	-
	-	**NSYCR50WU2C**	-
	-	**NSYCR50WU3C**	-
	-	**NSYCR100WU1C**	-
	-	**NSYCR100WU2C**	-
	-	**NSYCR100WU3C**	-
	-	**NSYCR150WU1C**	-
	-	**NSYCR150WU2C**	-
	-	-	**NSYCR170W230VVC**
			

Thermal management system
Characteristics, selection guide

Aluminium PTC heaters







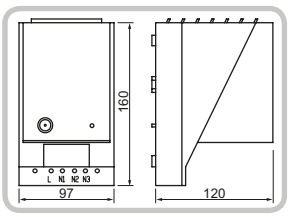
NSYCRS200W230V

Characteristics		Aluminium PTC heaters	Aluminium PTC heater with fan	Resistive heaters
		■ Extruded aluminium body. ■ Surface temperature limited to 75°C when the ambient temperature is -5°C. ■ Heaters equipped with a power cable with a length of 500 mm with silicon insulation, or with a connection terminal block.		
Conditions of use		■ The heaters must be installed with a thermal controller to control the temperature or the humidity inside the enclosure. ■ The enclosure must be sealed to prevent the entry of air from the outside. ■ An electrical protection device must be installed on the supply side of the unit.		
Power (W)	**Voltage (V)**	**References**		
Power cord				
10	12-24 DC	**NSYCR10WU1**	-	-
	110-250 AC	**NSYCR10WU2**	-	-
20	12-24 DC	**NSYCR20WU1**	-	-
	110-250 AC	**NSYCR20WU2**	-	-
Terminal block				
20	270-420 AC	**NSYCR20WU3**	-	-
55	12-24 DC	**NSYCR55WU1**	-	-
	110-250 AC	**NSYCR55WU2**	-	-
	270-420 AC	**NSYCR55WU3**	-	-
90	12-24 DC	**NSYCR100WU1**	-	-
	110-250 AC	**NSYCR100WU2**	-	-
	270-420 AC	**NSYCR100WU3**	-	-
150	12-24 DC	**NSYCR150WU1**	-	-
	110-250 AC	**NSYCR150WU2**	-	-
	270-420 AC	**NSYCR150WU3**	-	-
250	115 AC	-	**NSYCR250W115VV**	-
	230 AC	-	**NSYCR250W230VV**	-
400	115 AC	-	**NSYCR400W115VV**	-
	230 AC	-	**NSYCR400W230VV**	-
200	115 AC	-	-	**NSYCRS200W115V**
	230 AC	-	-	**NSYCRS200W230V**

Thermofan

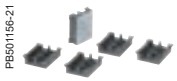
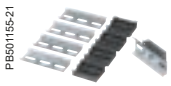


NSYCRP1W230VTVC



Characteristics		Thermofan
		■ Combination of a resistance heater and an axial motor to ensure uniform heating of the enclosure. ■ Fixing by clip on a DIN rail. ■ Thermostat adjustable from 0…+60°C. ■ Visual operation indicator.
Power (W)	**Voltage (V)**	**References**
Terminal block		
400/550	120 AC	**NSYCRP1W120VTVC**
	230 AC	**NSYCRP1W230VTVC**

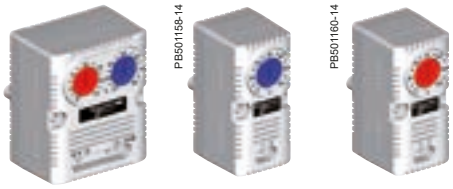
Fixing accessories

Description	Supply	References
	Set of 5 studs	**NSYCRAF**
	Set of 5 studs and DIN rail	**NSYCRAFD**

Thermal management system
Introduction

> Mechanical thermostats

PB501162-19 PB501158-14 PB501160-14



> Electronic thermostats

PB502624-16 PB502623-17 PB502513-16



Thermal control

PB501170-12 PB501163-13



Mechanical and electronic thermostats
- Large range of temperature control.
- Small dimensions.
- Easily accessible terminals.

PB502624-75



LED screen
Screen visible even in the dark.



Operational temperature range
- For mechanical thermostats: 0ºC ... +60ºC
- For electronic thermostats: -40ºC ... +80ºC

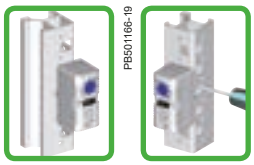
Mechanical and electronic thermostats

PB501164-13



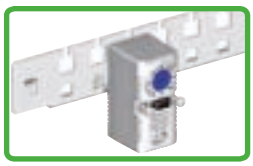
The quick-fixing systems
- On 35 mm DIN rail.

PB501165-11 PB501166-19



- On Spacial upright.

PB501167-32



- On cross-rail.

PB501168-14



- On mounting plate.

DB123816-26



Certifications and declarations
- UL,
- CE.

Thermal management system
Characteristics, selection guide

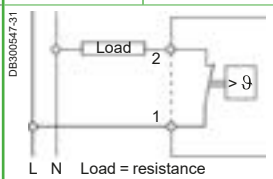
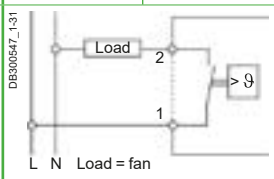
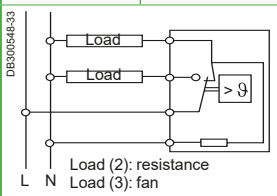
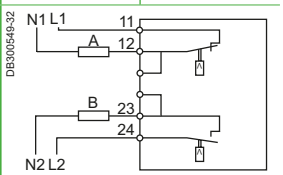
Mechanical thermostats









Characteristics	Thermostat	Thermostat	Thermostat	Double Thermostat
	With NC contact	**With NO contact**	**With NO/NC contact**	
	Thermostat with NC Contact: ■ to control the stopping of a resistance heater when the temperature exceeds the displayed value. **Thermostat with NO Contact:** ■ to control the starting up of a fan when the temperature exceeds the displayed maximum value, ■ to control the temperature inside the enclosure by only starting up the fan when necessary, thus increasing the service life of the fan and reducing the clogging of the filter.			
Colour button	Red	Blue	Black	Red and blue
Ingress protection rating according to IEC 60529	IP20	IP20	IP20	IP20
Sensor element	Bimetal	Bimetal	Bimetal	Bimetal
Contact	NC, forced rupture	NO, forced rupture	Inverse,forced rupture	NO / NC, forced rupture
Contact resistance	< 10 mΩ	< 10 mΩ	< 10 mΩ	< 10 mΩ
Service life	> 100,000 cycles	> 100,000 cycles	> 100,000 cycles	> 100,000 cycles
Switching capacity	250 V AC; 10 A (resistive load) 120 V AC; 15 A (resistive load) 250 V AC/120 V AC 2 A (inductive load cos ϕ = 0.6) 30 W DC		250 V AC; 10 A (resistive load)	250 V AC; 10 A (resistive load) 120 V AC; 15 A (resistive load) 250 V AC/120 V AC 2 A (inductive load cos ϕ = 0.6) 30 W DC
Max interrupting capacity with direct current	NC	NO	250 V AC 4 A (inductive load cos ϕ = 0.6) 30 W DC	NA
Connection	Two 2.5 mm^2 terminals	Two 2.5 mm^2 terminals	Four 2.5 mm^4 terminals	Six 2.5 mm^6 terminals
Mounting	By clip on 35 mm DIN rail	By clip on 35 mm DIN rail	By clip on 35 mm DIN rail	Clip on 35 mm DIN rail
Enclosure	UL 94 V-0 plastic, light grey	UL 94 V-0 plastic, light grey	UL 94 V-0 plastic, light grey	UL 94 V-0 plastic, light grey
Dimensions	60 x 33 x 43 mm	60 x 33 x 43 mm	67 x 50 x 44 mm	60 x 33 x 43 mm
Weight	40 g	40 g	100 g	40 g
Mounting position	Indifferent	Indifferent	Indifferent	Indifferent
Operating temperature	-20...+80°C (-4...+176°F)	-20...+80°C (-4...+176°F)	-20...+80°C (-4...+176°F)	-20...+80°C (-4...+176°F)
Hysteresis	7 K	7 K	7 K	7 K
Temperature setting range	0...+60°C	0...+60°C	+5...+60°C	0...+60°C
Display	°C °F	°C °F	°C °F	°C °F
Max. command intensity	10 A 250 V		(NO) 5 A (NC) 10 A	(NO) 5 A (NC) 10 A
References				
	NSYCCOTHC NSYCCOTHCF	**NSYCCOTHO NSYCCOTHOF**	**NSYCCOTHI NSYCCOTHIF**	**NSYCCOTHD NSYCCOTHDF**
				

Thermal management system
Characteristics, selection guide

Electronic thermostats

PB502624

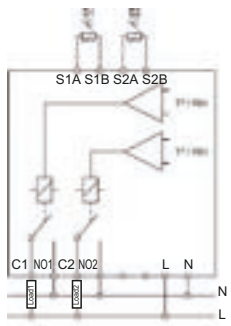
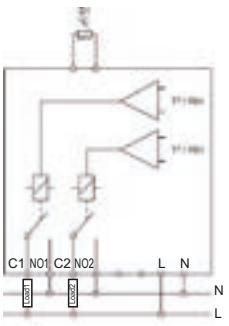
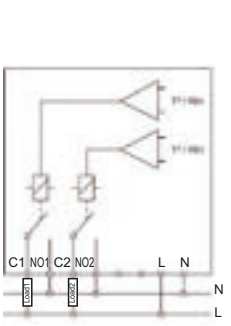


PB502623



PB502513



Characteristics	Electronic thermostat	Electronic hygrotherm	Electronic hygrostat
	With LED screen	**With LED screen**	**With LED screen**
	Electronic temperature controller.	Electronic temperature and humidity controller.	Electronic humidity controller.
Ingress protection rating according to IEC 60529	IP20	IP20	IP20
Certification	UL / UR	UL / UR	UL / UR
Internal sensor element	Temperature sensor	Temperature sensor and humidity sensor	Humidity sensor
Contact	Free with zero potential	Free with zero potential	Free with zero potential
Connection	2 x 2.5 mm² (input voltage) + 2 relays (2 x 2.5 mm² + 2 x 2.5 mm²)	2 x 2.5 mm² (input voltage) + 2 relays (2 x 2.5 mm² + 2 x 2.5 mm²)	2 x 2.5 mm² (input voltage) + 1 relay (2 x 2.5 mm²)
Mounting	4 different methods: by DIN rail, Spacial SF profile, on VDI cross-rail or on mounting plate	4 different methods: by DIN rail, Spacial SF profile, on VDI cross-rail or on mounting plate	4 different methods: by DIN rail, Spacial SF profile, on VDI cross-rail or on mounting plate
Enclosure	UL 94 V-0 plastic, light grey	UL 94 V-0 plastic, light grey	UL 94 V-0 plastic, light grey
Operating temperature	-40°C…+80°C	-40°C…+80°C	-40°C…+80°C
Hysteresis	Programmed 2 K	Programmed 2 K and 3 %	3 %
Temperature setting range	-40°C…+80°C	-40°C…+80°C	-
Humidity setting range	-	20 %…80 %	20 %…80 %
Display	°C or °F	°C or °F or % RH	% RH
Max. command intensity	8 (5) A 230 V AC / 5 A 30 V DC	8 (5) A 230 V AC / 5 A 30 V DC	8 (5) A 230 V AC / 5 A 30 V DC
Voltage (type of current)	**References**		
9-30 V (AC/DC)	**NSYCCOTH30VID**	**NSYCCOHYT30VID**	**NSYCCOHY30VID**
110-127 V (AC)	**NSYCCOTH120VID**	**NSYCCOHYT120VID**	**NSYCCOHY120VID**
220-240 V (AC)	**NSYCCOTH230VID**	**NSYCCOHYT230VID**	**NSYCCOHY230VID**
	DB300550EN-80 	DB300551EN-80 	DB300552EN-80 

PB501175-10



Characteristics	External temperature sensor (double insulation)
	■ Sensor operation or reading range: -40°C…+150°C. **Thermostat installation tips:** the thermostat should be installed at the top of the enclosure (the hottest place). See the various operating modes of each thermostat to choose the one that best meets your needs. **Hygrostat installation tips:** the hygrostat should be installed at the bottom of the enclosure. 60% RH is the optimum value in the enclosure.
Ingress protection rating according to IEC 60529	IP67
Fixing	On DIN rail, on Spacial SF profile, on VDI cross-rail, on mounting plate
Length of cable supplied (m)	
3	**NSYCCASTE**

Thermal management system
Introduction



PB503400-70

Thermal conditions: a hot topic for enclosures

Temperature, humidity, and dew point all affect the performance of your electrical and electronic enclosures.
Problem is, unless these environments are sized properly, thermal conditions will compromise reliability, safety, and efficiency, as well as the lifespam of your panels.

The precise knowledge of the thermal conditions is therefore indispensable to choose the most appropriate thermal management solution.



PB503408-53

Threats to performance arise when:

Real environmental conditions are not known

Specifications are oversized

Excessive loads over-consume energy

How to use ClimaSys DT

Installation type	Need	
	What do you want to do?	
Greenfield	New Project	Determine enclosure sizing needs and the correct thermal solution
Brownfield	Power Dissipation verification	Measure the dissipation power of the installation in watts (enclosure without thermal solution installed)
	Electronics Health Test	Verify that there are no hot/ cold spots
	Thermal Solution Test	Measure the efficiency of the existing thermal solution in a certain period of time
	Humidity/ Condensation Test	Measure the risk of high humidity or condensation inside the enclosure

Thermal management system
Introduction

ClimaSys DT: the solution to optimize the size of your enclosure

With ClimaSys DT dataloggers and EffiClima software, you can know with maximum accuracy the temperature evolution, humidity levels, and dew point inside and outside your control panels.
This data can then be analyzed with ProClima thermal software to determine the optimal thermal solution for each of your control panel installations.

ClimaSys dataloggers



1 Measure and track thermal data.

EffiClima software



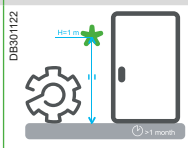
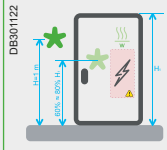
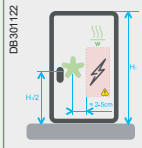
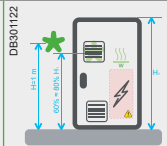
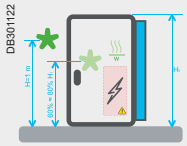
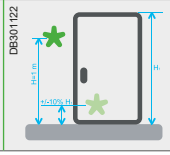
2 Translates data into a report on temperature, humidity, and dew point

ProClima software



3 Proposes the right thermal management solution based on the data variables.

Selection of the dataloggers

Variables to measure	How many dataloggers needed?	Model	Recommended installation
■ T outside ■ RH outside	1	DTH reference **NSYDTEF32TRH**	
■ T outside ■ T inside	2	DTT reference **NSYDTEF32T**	
■ T inside	1	DTT reference **NSYDTEF32T**	
■ T outside ■ T inside	2	DTT reference **NSYDTEF32T**	 *Check Ventilation*  *Check Cooling*
■ T inside ■ T outside ■ HR inside/ outside	2	DTH reference **NSYDTEF32TRH**	

Thermal management system
Introduction

> ClimaSys DT (Diagnostic Tools) dataloggers are an easy-to-use solution that enables users to:

- Access accurate and reliable thermal measurement data in design, commissioning, and exploitation phases
- Track fast or slow measurements
- Maintain continuity of service
- Optimize installations
- Detect hot and cold spots, and avoid condensation problems
- Determine if ventilation/cooling is possible.

PB503395-32



ClimaSys DTT
ClimaSys DT model records the temperature.

PB503397-39



ClimaSys DTH
ClimaSys DTH model records the temperature and the relative humidity level, and determine the dew point.

Advantages

PB503278-50



ClimaSys DTT
- Time stamp/start/stop with magnet key
- Low power consumption for extended two-year battery life
- Easy data download to PC via USB connection
- USB firmware update
- QR code on dataloggers for easy online access to data sheets, videos, and other technical information

PB503404-95



ClimaSys DTH
- Time stamp/start/stop with magnet key
- Dew point reading on LCD and software
- Fast response time for RH sensor
- USB firmware update
- Low power consumption for extended battery life (up to two years)
- QR code on dataloggers for easy online access to data sheets, videos, and other technical information

Thermal management system
Characteristics

Dataloggers



Characteristics		DT	DTH
		Temperature recorder	**Temperature, humidity and dew point recorder**
Colour		Translucid	Translucid
Display Type		LCD display	LCD display
Dimensions	Height	111 mm	111 mm
	Width	39 mm	39 mm
	Depth	26 mm	30 mm
Operating temperature		-40°C…80°C	-40°C…80°C
Ingress protection rating according to IEC 60529		IP67	IP54
Standard		EN 12830	EN 12830
Declaration		CE	CE
Fixing mode		Clip-on support	Clip-on support
Connector type		USB	USB
Data recording		32 K	32 K
Temperature	Setting	-40°C…80°C	-40°C…80°C
	Accuracy	±0.3°C	±0.3°C
	Resolution	0.03°C	**0.01°C**
Humidity	Setting	-	5…95%
	Accuracy	-	±2%
	Resolution	-	0,5% HR
Battery	Type	Lithium CR2032 3 V	Lithium CR2032 3 V
	Lifespam	Maximum 2 years	Maximum 2 years
Composition		1	1
References			
		NSYDTEF32T	**NSYDTEF32TRH**

Download EffiClima and ProClima free software





Discover more

ClimaSys DT video of the concept

e-brochure



Get maximum control panel performance and reliability
Thermal management solutions for critical electrical and electronic enclosures
Ref : UE16MK06EN

ClimaSys

Thermal management system
Method to determine a thermal management solution

Here is a simple method to help you choose a thermal solution. This method does not take into account the humidity level outside the enclosure.

Thermal balance

1 - Characteristics of the enclosure

Position of the enclosure according to IEC 890 ratio		Formula for calculating S (m^2)
	Accessible from every side	S = 1.8 x H x (W + D) + 1.4 x W x D
	Placed against a wall	S = 1.4 x W x (H + D) + 1.8 x D x H
	On the end when suited	S = 1.4 x D x (H + W) + 1.8 x W x H
	On the end when suited, placed against a wall	S = 1.4 x H x (W + D) + 1.4 x W x D
	In the middle when suited	S = 1.8 x W x H + 1.4 x W x D + D x H
	In the middle when suited, placed against a wall	S = 1.4 x W x (H + D) + D x H
	In the middle when suited, placed against a wall with the top covered	S = 1.4 x W x H + 0.7 x W x D + D x H
		S = m²

H = Height - W = Width - D = Depth

Example
Spacial reference **NSYSF20840**
H = 2000
W = 800
D = 400
Installation method:
Suitable enclosure placed against a wall.

S = 4.128 m²

2 - Thermal power dissipated by the operational components

Calculated as the sum of the power dissipated by each of the installed components.
If these are not known, use the ProClima software.

Pd = W

Assume that the switchgear dissipates 800 W.

Pd = 800 W

3 - Temperatures outside the enclosure

Maximum ambient temperature. Te_{max} = °C
Minimum ambient temperature. Te_{min} = °C

The temperature conditions are as follows:
Te_{max} = 35°C
Te_{min} = 15°C

4 - Average desired internal temperatures

They are defined by the nature of the components and the characteristics of the environment air

Maximum internal temperature Tid_{max} = °C
Minimum internal temperature (maximum value between the dew point temperature and the minimum operating temperature of the devices) Tid_{min} = °C

Tid_{max} = 40°C
Tid_{min} = 29°C

5 - Temperature inside the enclosure without thermal management system

Max. internal temperature: $Tfi_{max} = \frac{Pd}{K \times S} + Te_{max}$ Tfi_{max} = °C

Min. internal temperature: $Tfi_{min} = \frac{Pd}{K \times S} + Te_{min}$ Tfi_{min} = °C

or K = 5.5 W/m²/°C for an enclosure made of painted sheet steel
K = 3.5 W/m²/°C for a polyester enclosure
K = 3.7 W/m²/°C for a stainless-steel enclosure

Tfi_{max} = 70°C
Tfi_{min} = 50°C

Calculation of thermal management power (Psyst)

a. Cooling systems:
Psyst = Pd - K x S (Tid_{max} - Te_{max}) = 686 w

b. Resistances:
Electrical installation operating constantly
Psyst = K x S (Tid_{min} - Te_{min}) - Pd

Electrical installation operating discontinuously
Psyst = K x S (Tid_{min} - Te_{min})

Thermal management system
Method to determine a thermal management solution

Choice of solution

1 - Cooling
Condition: Calculated temperature + 5°C > Temperature wanted.

Conditions	Solution	Advantages	Constraints
Cooling			
Temperature wanted in the enclosure at least 5°C higher than the ambient temperature. **$Tid_{max} \geq Te_{min} + 5$ °C**	Oversize the enclosure.	Economical. No maintenance. Easy to implement. IP of the installation maintained.	Relatively small savings. Larger overall dimensions.
	Natural airing (installation of ventilation air inlets).	Very economical. No maintenance. Easy, fast installation.	Quantity of heat removed small and dependent on the layout of the components. Deterioration of the IP (ingress of dust).
	Forced ventilation.	Economical. Easy to implement. Large quantity of heat removed. Temperature control possible.	Regular maintenance of filters IP slightly degraded. Ambient temperature ≤ 35°C.
	Air-air exchanger.	Easy to implement. Easy to maintain. IP of the installation maintained. Regulated temperature.	Regular filter maintenance.
Temperature Tid_{max} wanted in the enclosure 5°C less than the ambient temperature Te_{max}. **$Tid_{max} - 5$ °C$\geq Te_{max}$**	Cooling unit.	Easy to implement. Large quantity of heat removed irrespective of the ambient temperature. IP of the installation maintained. Regulated temperature.	Regular filter maintenance Ambient temperature ≤ 55°C. Installation of a system for removal of condensation water from the evaporator.
	Air-water exchanger.	Easy to implement. Large quantity of heat removed irrespective of the ambient temperature. IP of the installation maintained. Regulated temperature.No filter to be maintained.	Need for a water circuit. Consumption if supplied with town water.

(1) $\text{Flow rate } (m^3/h) = Ø = \frac{Psyst}{(Tid_{max} - Te_{max})} \times 3.1\ (m^3/h)$

(2) $\text{Flow rate } (W/K) = Ø = \frac{Psyst}{(Tid_{max} - Te_{max})\ (W/K)}$

2 - Heating
If the calculated temperature is less than the temperature wanted, the inside of the enclosure must be heated. The solution is to use heating resistors. They can maintain the temperature above the dew point and thus prevent any risk of condensation.
To maintain a uniform temperature inside the enclosure and thus prevent hot spots, Schneider Electric proposes a heating resistor equipped with a fan.

3 - Homogenize
Objective: Prevent hot spots.
Solution: stirring fan.

Technical guides and spare parts

Technical guides and spare parts
Contents

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Brief checklist for enclosure composition 590

Spare parts - Selection table 591

Enclosures & thermal management systems certifications

Range	Assemblies alone					Equipped assemblie system
	Empty assemblies for low-voltage switchgear	Standards for industrial equipment and UL classification	Marine environment classification or approval for protection and resistance to vibrations	Enclosures installed in a potentially explosive atmosphere	Outdoor Heavy Duty enclosures	Low-voltage switchgear and controlgear assemblies
	Standard/Directive					
	IEC 62208	UL508A and CAN CSA C22-2 no. 14	Rules of certifying bodies	European directive no. 2014/34/UE EN60079-0 / EN60079-7 EN60079-3 / EN60529	IEC 61439-5 ISO 12944-6 IEC 61969-3	IEC61439-1&2
Spacial						
SBM	●	●	● ●			
S3D	● ● (6)	●	● ● ●			
CRN	● (6)	●	●			
CRNG	● (6)	●	●			
S3DEX		●		●		
S3HF		●				
S3HD	● (6)	●			●	
S3CM		●				
SM	● ● (6)	●	●			
SF	● ● (6)	●	● ●			●
SFHD	● ● (6)	●			●	●
SFP/PH	● (6)					●
SFM						●
S3X	●	●	●			
SMX	●	●	● (3)			
SFX	● (3)	●	● (3)			
Thalassa						
TBS/TBP	●	● (1)				
PLS	●	●				
PLM	● ● (6)	●	●			
PLA	● ● (6)	●	●			
PLAT	● ● (6)					
PLAZ	● ● (6)					
PLAZT	● ● (6)					
PLD	●					
PHD	● (6)	●			● (2)	
ClimaSys (4)						
CV		●				
CU		●				
CE		●				
CR		● (5)				
CC		●				

(1) Only TBP. / (2) ISO 12944-6 only applies to the Spacial enclosures. / (3) Only for 1 door versions. / (4) EAC compliant.
(5) The insulated & aluminium resistance heaters of 12-24 V DC & 270-420 V AC are not certified. / (6) Compliance with Dekra.

For other certifications & declarations of conformity, please consult us.

Official certification body									
Bureau Veritas	LCIE (Bureau Veritas)	Bureau Veritas Marine Division	TÜV Rheinland Group	Underwriters Laboratories	Laboratorio Oficial J.M. Madariaga	DNV-GL	Lloyd´s Register	Dekra	Asefa
PB500048	PB500049	PB500048	PB500060	PB500051	PB500052	DB301220	PB500055	DB301180	DB300966
●	●	●	●	●	●	●	●	●	●

International enclosure standards
Standards IEC 61439

Both the point of arrival of energy and a device for distribution to the site applications, the LV switchboard is the intelligence of the system, central to the electrical installation.

It plays an essential role in the availability of electric power, while meeting the needs of personal and property safety.
Its definition, design and installation are based on precise rules; there is no place for improvisation. The IEC 61439 standard aims to better define "low-voltage switchgear and controlgear assemblies", ensuring that the specified performances are reached.
It specifies in particular:

- the responsibilities of each player, distinguishing those of the original equipment manufacturer; the organization that performed the original design and associated verification of an assembly in accordance with the standard, and of the assembly manufacturer - the organization taking responsibility for the finished assembly
- the design and verification rules, constituting a benchmark for product certification

All the component parts of the electrical switchboard are concerned by the IEC 61439 standard. Equipment produced in accordance with the requirements of this switchboard standard ensures the safety and reliability of the installation.

The main 10 functions of standard IEC 61439

For each of the following 10 functions, the standard IEC 61439 requires design verifications from the system manufacturer - mainly through type-tests defined in IEC 62208 - and routine verifications on each panel from the Panel Builder to achieve 3 basic goals: safety, continuity of service and compliance with end-user requirements.

Safety

■ **Voltage stresses withstand capability**
To withstand long term voltages, and transient and temporary overvoltages according to the insulation coordination principles and requirements.
■ **Current-carrying capability**
To protect against burns and to withstand temperature rise:
□ when any circuit is continuously loaded, alone, to the specified current
□ when the assembly is loaded to the specified current according to the specified load pattern (between circuits and/or as a function of the time).
■ **Short-circuit withstand capability**
To withstand the stresses resulting from the prospective short-circuit current and from the associated data (High forces between conductors, temp. rise in a very short time, air ionization, overpressure).
■ **Protection against electric shock**
□ Hazardous-live-parts not to be accessible (basic protection).
□ Accessible conductive parts not to become hazardous-live (fault protection).
■ **Protection against risk of fire or explosion**
□ Resistance to internal glowing elements.
Note: Protection of persons, and optional protection of the assembly, against arcing due to internal fault can be specified through a "special test" according to IEC 61641.

Continuity of service

■ **Maintenance and modification capability**
Capability to preserve continuity of supply without impairing safety during assembly maintenance or modification.
□ Electrical condition of the assembly or various circuits.
□ Speed of exchange of the functional units.
□ Test facilities…
■ **Electro-Magnetic compatibility**
To properly function (immunity) and not to generate EM disturbances (emission) in specified environmental conditions:
□ Industrial networks or locations (Environment A).
□ Domestic, commercial, and light industrial locations (Environment B).

Compliance with end-user requirements

■ **Capability to operate the electrical installation**
To properly function, according to:
□ the electrical diagram of the overall system and related information (voltages, coordination…),
□ the specified operating facilities (e.g. free or restricted access to Man Machine Interfaces, isolation of the outgoing circuits…).
■ **Capability to be installed on site**
□ To withstand handling, transport, storage… and installation constraints.
□ Capability to be erected and connected (type of enclosure, type, material and cross sectional areas of external conductors).
■ **Protection of the assembly against mechanical and atmospheric environmental conditions**
□ Presence of water or solid foreign bodies (IP according to IEC 60529).
□ External mechanical impacts (optional IK according to IEC 62262).
□ Indoor or outdoor installation (humidity, UV).

International enclosure standards

Standards IEC 62208*

PB500056-57



Empty enclosures for low-voltage switchgear and controlgear assemblies. General rules.

Application

For empty enclosures before adding the user's switchgear, in the condition as supplied by the manufacturer.

Field of application

Demands for testing the enclosures to be used as part of the switchgear assemblies for voltages of less than 1000 V alternating current and 1500 V direct current in accordance with IEC 61439.

Information supplied by the manufacturer

■ Commercial trademark of the manufacturer: Schneider Electric.
■ Mechanical characteristics, materials, conditions for use.
■ Conditions for use:
Ambient air temperature for outdoor installations: -25 to +40°C.
■ Atmospheric conditions for outdoor installations: the humidity can temporarily reach 100% at a temperature of 25°C.
■ Transport and storage conditions: from -25 to +55°C; for limited periods not exceeding 24 h: up to +70°C.

** European standard EN 62208 is identical to IEC 62208. European countries publish this standard according to the body in each country (for example BS EN 62208 in the UK).*

PB500057-57



Standard tests of standard IEC 62208

■ Static loads: test 1.25 x maximum admissible load during 1 hour.
■ Lifting: applicable to enclosures with lifting accessories.
■ Axial loads of metal inserts: 500 N for 10 seconds for M8 inserts.
■ IK code: test according to standard IEC 62262 with pendulum impact tester. After testing, the enclosure keeps its IP rating.
■ IP rating: test according to standard IEC 60529. Degree of protection against access to dangerous parts and the penetration of solid bodies and against the penetration of water.
■ Thermal stability at a temperature of 70 °C: 7 days.
■ Resistance to heat: ball test at 70 °C (1).
■ Resistance to abnormal heat and to fire: glow wire test according to IEC 60695-2-10 and IEC 60695-2-11 (1).
■ Dielectric strength: 5000 V (1).
■ Protection circuit continuity (2): resistance not to exceed 0.1 ohm.
■ Weather resistance: duration 500 h (cycle: rain 5 minutes + UV lamp 25 minutes).
■ Corrosion resistance:
□ For indoor enclosures:
- 6 cycles of 24 hours of the damp heat test at 40 °C and relative humidity of 95%.
- 2 cycles of 24 hours of the salt mist test at 35 °C.
□ For outdoor enclosures:
2 identical 12 day periods. Each one with:
- 5 cycles of 24 hours of the damp heat test at 40 °C and relative humidity of 95%.
- 7 cycles of 24 hours of the salt mist test at 35 °C.

Our empty enclosures are marked CE according to the Low-Voltage Directive (LVD). It is the responsibility of the final equipment manufacturer to respect regulations in force.

(1) Information required for enclosures made from insulating material.
(2) For metal enclosures.

Selection of enclosures

Selection according to the IP protection degrees

The degrees of protection, explained on the next page, is an important element when selecting the enclosures.
The following table shows the protection degrees of the enclosures.

Name	Range	IP40	IP41	IP42	IP43	IP44	IP54	IP55	IP65	IP66
Metal industrial boxes	Spacial SBM							● (4)		● (4)
Metal derivation boxes	Spacial SDB							●		
Steel wall-mounting enclosures	Spacial S3D							● (1)		●
Steel modular distribution wall-mounting enclosures	Spacial S3DM									●
Terminal wall-mounting enclosures	Spacial S3DB									●
Steel wall-mounting enclosures	Spacial S3HF							●		
Steel wall-mounting enclosures	Spacial CRN									●
	Spacial CRNG							● (1)		●
EMC steel floor-standing enclosures	Spacial SFHF							●		
HMI control enclosures	Spacial S3CM						●			
ATEX steel wall-mounting enclosures	Spacial S3DEX									●
Steel outdoor wall-mounting enclosures	Spacial S3HD									●
Stainless-steel wall-mounting enclosures	Spacial S3X							● (1)		●
Seismic and nuclear enclosures	Spacial S3D6G / Spacial S3D6GK3								●	
Terminal enclosures with FL21 cut-out	Spacial S3DBFL								● (7)	
Steel floor-standing enclosures	Spacial SM							●		
Steel suitable enclosures	Spacial SF							●		
Steel outdoor floor-standing enclosures	Spacial SFHD							●		
Stainless-steel floor-standing enclosures	Spacial SMX							●		
Stainless-steel suitable enclosures	Spacial SFX							● (1)		●
Functional steel floor-standing enclosures	Spacial SFP							●		
Steel control desks	Spacial SD							●		
Stainless-steel control desks	Spacial SDX							●		
Thermoplastic industrial boxes	Thalassa TBS-TBP							● (5)		● (6)
Polyester modular boxes	Thalassa PLS								●	
Polyester wall-mounting enclosures	Thalassa PLM									●
Polyester outdoor wall-mounting enclosures	Thalassa PHD								●	
Polyester floor-standing enclosures	Thalassa PLA (2)					●	●		●	
	Thalassa PLD				●		● (3)			
Polyester outdoor floor-standing enclosures	Thalassa PHD							●		

(1) Double door.
(2) Different IP depending on the version. See introduction in Thalassa section: PLA: IP65, PLAT / PLAZT: IP44, PLAZ / PLAT / PLAZT with grille: IP54.
(3) With gasket.
(4) Different IP depending on the version: Spacial SBM flat box: IP66 - Spacial SBMC FL21 entry box: IP55.
(5) Button boxes.
(6) Universal boxes.
(7) With membrane mounted.

The universal offer

> 3 Material solutions

Steel

Stainless-steel

Plastic & Polyester

Selection according to the environment

The location of the enclosures and the physical, chemical and climatic conditions to which they are exposed will determine the model to be used.

- Steel enclosures are particularly well suited to indoor use in industrial environments.
- Stainless-steel enclosures are particularly well suited to corrosive environments or areas where specific hygiene demands are applicable.
- Polyester enclosures are particularly well suited to severe corrosive atmospheres, indoors or outdoors.

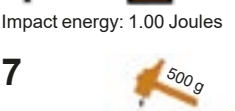
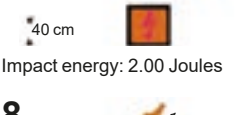
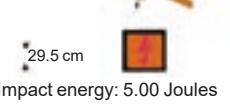
Enclosures made from insulating materials guarantee total insulation, reducing electric hazards for persons.
The main characteristics of the plastic materials of our enclosures and their chemical strength are given on page 583.

Further help for making the selection is given by the NEMA or UL classification of the enclosure, see page 580.

Degrees of protection provided by enclosures

■ The degrees of protection provided by the enclosures are defined by standards IEC 60529 (IP) and IEC 62262 (IK).
■ Degrees of protection are indicated by the letters IP followed by two characteristic numerals. The numerals show the degree of protection offered by the enclosure against access to dangerous parts, the penetration of of solid bodies (1st numeral), and against the penetration of liquids (2nd numeral).
■ The protection against external mechanical impact is indicated by the letters IK followed by a characteristic group numeral.

Note: *Many EN European standards are harmonised with international IEC standards.*
This is the case with enclosure protection standards:
- EN 60529 = IEC 60529.
- EN 62262 = IEC 62262.

	IP	IK
First numeral Protection against solid bodies	**Second numeral** Protection against liquids	Mechanical protection
0 No protection	**0** No protection	**0** No protection
1  Protected against solid bodies larger than 50 mm (e.g.: incidental contact with the hand)	**1**  Protected against vertically falling water droplets (condensation)	**1**  Impact energy: 0.150 Joules
2  Protected against solid bodies larger than 12 mm (e.g.: finger contact)	**2**  Protected against water droplets deflected at up to 15° from vertical	**2**  Impact energy: 0.200 Joules
3  Protected against solid bodies larger than 2.5 mm (tools, wires)	**3**  Protected against rainwater at up to 60° from vertical	**3**  Impact energy: 0.350 Joules
4  Protected against solid bodies larger than 1 mm (fine tools, small wires)	**4**  Protection against water spray from all directions	**4**  Impact energy: 0.500 Joules
5  Protected against dust (no harmful deposits)	**5**  Protected against low-pressure water jets from all directions	**5**  Impact energy: 0.700 Joules
6  Totally dust tight	**6**  Protected against powerful water jets from all directions	**6**  Impact energy: 1.00 Joules
	7  Protected against the effects of immersion	**7**  Impact energy: 2.00 Joules
	8  Protected against prolonged effects of immersion under pressure	**8**  Impact energy: 5.00 Joules
		9  Impact energy: 10.00 Joules
		10  Impact energy: 20.00 Joules

Classification of electrical equipment enclosures according to NEMA and UL

NEMA and UL are standardisation bodies, commonly recognised in North America, which have issued classifications of enclosures according to the protection offered in various environments.
These classifications are similar.
The 1st table below summarises this classification, which does not include potentially explosive areas. The detailed recommendations of this classification are given on the next page.
The 2nd table indicates the classification of our enclosures.
These classifications appear in our UL certifications (see Certification technical annex on page 580).
Certification according to the UL classification guarantees the corresponding NEMA classification by equivalence.

Environment and protection	Classification											
	1	2	3	3R	3S	4	4X	5	6	6P	12	13
Indoor use	●	●	●	●	●	●	●	●	●	●	●	●
Outdoor use			●	●	●	●	●		●			
Incidental contact with the equipment	●	●	●	●	●	●	●	●	●	●	●	●
Dirt	●	●	●	●	●	●	●	●	●	●	●	●
Drips and gentle splashes of non-corrosive liquids		●	●	●	●	●	●	●	●	●	●	●
Rain, frost* and snow			●	●	●	●	●		●	●		
Frost**					●							
Dust, fibres and particles in suspension			●		●	●	●		●	●	●	●
Built-up dust, fibres and particles in suspension			●		●	●	●	●	●	●	●	●
Clouds of dust			●		●	●	●		●	●		
Splashes and jets of water						●	●		●	●		
Gentle splashes and leaks of oil or non-corrosive coolants											●	●
Drips, splashing and spraying of oil or non-corrosive coolants												●
Corrosive agents							●			●		
Occasional temporary immersion									●	●		
Occasional prolonged immersion										●		

** The operation of the external mechanisms is not required when the enclosure is covered with frost.*
*** The operation of the external mechanisms is required when the enclosure is covered with frost.*

Enclosures		Type of protection (1)														
Name	Range	1	2	3	3R	3S	3X	3RX	3SX	4	4X	5	6	6P	12	13
Metal industrial boxes	SBM									●	●				● (3)	
HMI control enclosures	S3CM	●	●		●										●	●
Steel wall-mounting enclosures	S3D (1)	●	● (2)	● (2)	● (2)					● (2)	● (2)	●			●	●
	S3HF	●	●	●	●										●	●
Steel outdoor wall-mounting enclosures	S3HD	●	●	●	●					●	●	●			●	●
Steel wall-mounting enclosures	CRN	●	●	●	●					●		●			●	●
	CRNG	●	● (2)	● (2)	● (2)					● (2)	● (2)	● (2)			●	●
Stainless-steel wall-mounting enclosures	S3X	●	● (2)	● (2)	● (2)					● (2)	● (2)	● (2)			●	● (2)
Steel floor-standing enclosures	SM	●	● (2)	● (2)	●					● (2)		● (2)			●	●
Polyester outdoor wall-mounting enclosures	PHD	●	●	●	●					● (2)	● (2)	●			●	●
Steel suitable enclosures	SF	●			●										●	
Steel outdoor floor-standing enclosures	SFHD	●			●										●	
Stainless-steel floor-standing enclosures	SMX	●	● (2)	● (2)	● (2)					● (2)	● (2)	● (2)			●	●
Stainless-steel floor-standing enclosures	SFX	● (2)	● (2)	● (2)	● (2)					● (2)	● (2)	● (2)				● (2)
Thermoplastic boxes	TBP	●		●		●				●	●					
Polyester modular boxes	PLS	●	●	●	●	●				●	●				●	●
Polyester wall-mounting enclosures	PLM	●	●	●	●	●				●	●	●			●	●
Polyester floor-standing enclosures	PLA	●	●	● (2)	● (2)	● (2)	● (2)	● (2)	● (2)			● (2)			●	●

(1) Also S3DM, S3DEX, S57 and S3DC.
(2) 1 door.
(3) Types 12 only for SBMC.

Components		Type of protection (5)											
Name	Range	1	2	3	3R	3S	4	4X	5	6	6P	12	13
Ventilation system	CV											●	
Thermal regulation system	CC	●											

(5) In some ranges the classification depends on the model and version. The detailed protection types are indicated in the UL certifications.

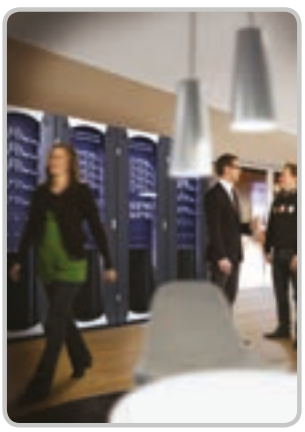
Classification of electrical equipment enclosures according to NEMA and UL

The enclosures must protect the equipment against environmental conditions and protect the personnel against the risk of incidental contact with the equipment. The following classifications (Type) are required according to the required uses and prescriptions:

Type	Use	Prescription
1	Indoor use	The enclosure provides protection for the personnel against incidental contact with the internal equipment and protects said equipment against dirt.
2	Indoor use	It provides protection for the personnel against incidental contact with the internal equipment and protects said equipment against dirt, drips and gentle splashes of non-corrosive liquids.
3	Indoor and outdoor use	The enclosure provides protection for the personnel against incidental contact with the internal equipment and protects said equipment against dirt, rain, sleet, snow, windblown and resists the formation of ice on the outside.
3R	Indoor and outdoor use	The enclosure provides protection for the personnel against incidental contact with the internal equipment and protects said equipment against dirt, rain, sleet, snow and resists the formation of ice on the outside.
3S	Indoor and outdoor use	The enclosure provides protection for the personnel against incidental contact with the internal equipment and protects said equipment against dirt, rain, sleet, snow and windblown dust. The external mechanism must continue to work even when layers of ice are formed.
3X	Indoor and outdoor use	The enclosure provides a degree of protection to personnel against access to hazardous parts; to provide a degree of protection of the equipment inside the enclosure against ingress of solid foreign objects (falling dirt and windblown dust); to provide a degree of protection with respect to harmful effects on the equipment due to the ingress of water (rain, sleet, snow); that provides an additional level of protection against corrosion and that will be undamaged by the external formation of ice on the enclosure.
3RX	Indoor and outdoor use	The enclosure provides a degree of protection to personnel against access to hazardous parts; to provide a degree of protection of the equipment inside the enclosure against ingress of solid foreign objects (falling dirt); to provide a degree of protection with respect to harmful effects on the equipment due to the ingress of water (rain, sleet, snow); that will be undamaged by the external formation of ice on the enclosure that provides an additional level of protection against corrosion.
3SX	Indoor and outdoor use	The enclosure provides a degree of protection to personnel against access to hazardous parts; to provide a degree of protection of the equipment inside the enclosure against ingress of solid foreign objects (falling dirt and windblown dust); to provide a degree of protection with respect to harmful effects on the equipment due to the ingress of water (rain, sleet, snow); that provides an additional level of protection against corrosion; and for which the external mechanism(s) remain operable when ice laden.
4	Indoor and outdoor use	The enclosure provides protection for the personnel against incidental contact with the internal equipment and protects said equipment against dirt, rain, sleet, snow, windblown dust, splashes and hose-directed water and resists the formation of frost on the outside.
4x	Indoor and outdoor use	The enclosure provides protection for the personnel against incidental contact with the internal equipment and protects said equipment against dirt, rain, sleet, snow, windblown dust, splashes, hose-directed water and resists corrosion and the formation of ice on the outside.
5	Indoor use	The enclosure provides protection for the personnel against incidental contact with the internal equipment and protects said equipment against dirt, settling airborne dust, lint, fibres, flyings, drips and gentle splashes of non-corrosive liquids.
6	Indoor and outdoor use	The enclosure provides protection for the personnel against incidental contact with the internal equipment and protects said equipment against dirt, rain, sleet, snow, hose-directed of water, the entry of water during occasional temporary submersion to a limited depth and resists the formation of ice on the outside.
6P	Indoor and outdoor use	The enclosure provides protection for the personnel against incidental contact with the internal equipment and protects said equipment against dirt, rain, sleet, snow, hose-directed water, the entry of water during prolonged submersion to a limited depth and resists corrosion and the formation of ice on the outside.
12	Indoor use (without knockouts)	The enclosure provides protection for the personnel against incidental contact with the internal equipment and protects said equipment against dirt, dust, fluff, fibres, particles in suspension, drips and gentle splashes of non-corrosive liquids as well as gentle splashes or leaks of oil and non-corrosive coolants.
13	Indoor use	The enclosure provides protection for the personnel against incidental contact with the internal equipment and protects said equipment against dirt, dust, lint, fibres flyings and the spraying, splashing, and seepage leaks of water, oil or non-corrosive coolants.

Note: *The above recommendations aim to explain the NEMA and UL classifications, but are not the official texts of NEMA or UL.*
The exact definitions provided by the Organisations are those of standards NEMA 250 and UL 50E.

PB5000063-55



PB5000064-55



Polyester base coating properties

PB500058-56



Product type

Thermosetting polyester resins based powder coating modified by epoxy resins and designed for decoration and to prevent corrosion.
The performance of this coating is superior to conventional epoxy powders in terms of: colour stability, temperature resistance and weather resistance.
Grey RAL 7035; appearance: structured.

Mechanical properties

Test conditions: steel samples with a thickness of 10/10e mm.
Degreasing using biodegradable surface-active agents.
Film thickness: 60 microns.

Bonding (scratching and adhesive tape)	ISO 2409	≥ to Class 1
Ericksen stamping	ISO 1520	≥ 7 mm
Direct impact resistance	ISO 6272	> 1 kg/70 cm
Indirect impact resistance	ISO 6272	> 1 kg/20 cm
Bending around conical mandrel	ISO 6860 - ASTM D 522-88	Maximum cracking of 70 mm, without the paint coming loose

Chemical properties

Tests conducted at ambient temperature on phosphated samples covered with a 70 to 100 micron film:

Film intact.

Film attacked (blistering, yellowing, loss of gloss).

Number of months			2	4	6	8	10	12
Acid	Acetic	20 %						
	Sulphuric	30 %						
	Nitric	30 %						
	Phosphoric	30 %						
	Hydrochloric	30 %						
	Lactic	10 %						
	Citric	10 %						
Base	Soda	10 %						
	Ammonia	10 %						
Water	Distilled water							
	Sea water							
	Tap water							
	Diluted chloride bleach							
Solvents	Petrol							
	Higher alcohols							
	Aliphatics							
	Aromatics							
	Ketones-esters							
	Tri-perchlorethylene							

Physical properties

Temperature resistance: -40°C and 100 hours at +150°C (colour: white).
Gloss retention: good.

Resistance to corrosion

Compliance with standard IEC 62208 for outdoor installations: 288 h of humid heat and 336 h of salt mist.

Polyester base coating properties

Nuclear decontamination

Applicable to colours RAL 7035 and AFNOR A550.
Standard NFT 30901. Class 1 SC = 5% of decontamination for contamination by fission products. Please consult us for further details.

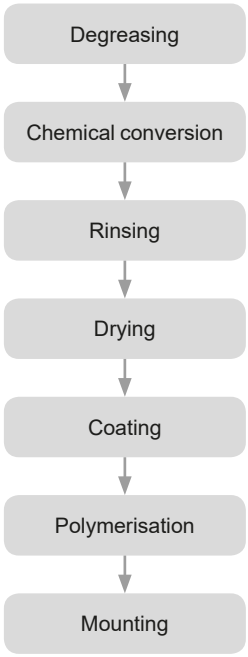
Accelerated aging

Standard IEC 62208: 500 h UV according to ISO 4892-2 (method A) (adherence of the coating with minimum retention of 50% on the grid according to ISO 2409).

Fire behaviour

Class M1 (self-extinguishing material).
Class M0 (for coating on a metal base).

Manufacturing process



Properties of the plastic materials

Mechanical, electrical, physical and fire-resistance properties

Plastic materials generally used to manufacture our products:

- ABS.
- Polycarbonate.
- PVC (polyvinyl chloride).
- Bayblend® = PC + ABS.
- Polyester reinforced with fibreglass.
- Altuglas.
- Polypropylene.
- Polystyrene.
- Polyamide 6 and 12.
- SBS.

Specifications	Standards	Units	ABS	Polycarbonate	PVC	Bayblend®	Polyester	SBS
Mechanical properties								
Tensile strength	ISO 257	MPa	44	> 65	45	35	85	5
Tensile strain	ISO 527	%	12	> 110	120 to 150	40	0	600
Impact resistance	ISO 179	kJ/m²	125	No breakage	25	No breakage	60	No breakage
Notching resistance	ISO 179	kJ/m²	19	25	20	25	50	-
Electrical properties								
Stress point	IEC 60112	-	-	250-300	> 600	> 550	> 600	-
Surface strength	IEC 60093	ohm	1015	> 1015	> 1013	> 1014	≥1012	> 1013
Dielectric strength	IEC 60243	kV/mm	16.5	> 30	30	24	18-20	20
Specific resistivity	IEC 60093	ohm³cm	1015	> 1016	≥ 1015	1016	≥ 1012	> 1016
Physical properties								
Softening temperature (Vicat B)	ISO 306	°C	95	145-150	79-80	115	(1)	80
Temperature resistance	-	°C	-40...+90	-50...+125	-20...+65	-35...+90	-50...+150	-40...+120
Water absorption	ISO 62	%	0.2 - 0.45	0.15	< 0.1	0.2	0.2	-
Density	ISO 1183	kg/dm³	1.04	1.21	1.4	1.12	1.85	0.3 in 24 h
Fire resistance								
Oxygen index	ISO 4589	%	19	26	45-50	22	24.4	18
Glow wire resistance, 2 mm	IEC 60695-2-10	°C	650	960	960	750	960	750° (1.5 mm)
Glow wire resistance, 3 mm	IEC 60695-2-10	°C	650	960	960	750	960	NA

(1) No softening of the polyester.

Specifications	Standards	Units	Altuglas	Polypropylene	Polystyrene	Polyamide 6	Polyamide 12
Mechanical properties							
Tensile strength	ISO 257	MPa	30	35	24	40	30
Tensile strain	ISO 527	%	5	400	36	200	300
Impact resistance	ISO 179	kJ/m²	20	20	63	No breakage	No breakage
Notching resistance	ISO 179	kJ/m²	3	5	50	31.2	15
Electrical properties							
Stress point	IEC 60112	-	-	-	KB175	KB175	KB180
Surface strength	IEC 60093	ohm	≥ 1014	-	> 1013	1012	5 x 1010
Dielectric strength	IEC 60243	kV/mm	13-15	20	≤ 40	23	55
Specific resistivity	IEC 60093	ohm³cm	> 1015	> 1016	> 1015	1011	3 x 1011
Physical properties							
Softening temperature (Vicat B)	ISO 306	°C	120-122	75 (vicat A)	79	230	140
Temperature resistance	-	°C	-20...+80	-10...+80	-15...+60	-20...+100	-50...+125
Water absorption	ISO 62	%	< 0.5	0.1 in 24 h	0.1 in 24 h	1.6	1.5
Density	ISO 1183	kg/dm³	1.18	0.91	1.06	1.14	1.03
Fire resistance							
Oxygen index	ISO 4589	%	18.5	18	18	24	22
Glow wire resistance, 2 mm	IEC 60695-2-10	°C	-	650	650	750	650
Glow wire resistance, 3 mm	IEC 60695-2-10	°C	960	650	650	850	650

Properties of the plastic materials

Resistance to chemical agents

The table shows:
- The concentration of the chemical agent in %; sat = saturation.
- The resistance of the material:
  +: Resistant.
  O: Limited resistance.
  –: Not resistant.

Plastic materials generally used to manufacture our products:
- ABS.
- Polycarbonate.
- PVC (polyvinyl chloride).
- Bayblend® = PC + ABS.
- Polyester.
- Altuglas.
- Polypropylene.
- Polystyrene.
- Polyamide 6 and 12.
- SBS.

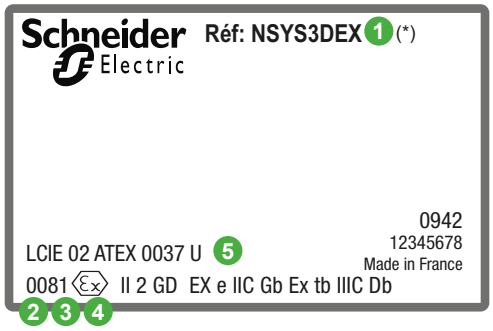
Resistance to	ABS		Polycar-bonate		PVC		Bayblend®		Polyester		Altuglas		Polypro-pylene		Poly-styrene		Polyamide 6		Polyamide 12		SBS	
Acetone		–		–		–		–		–		O	100	+		–	100	+		+		+
Hydrochloric acid	15	+	10	+	30	+	20	+	30	+	sat	+	10	+		O	10	–	10	+	10	+
Citric acid			10	+	sat	+	10	+	100	+	sat	+	sat	+		+	10	O		+	10	+
Lactic acid	80	+	10	+	90	+	10	–	100	+	20	+	90	+		O	50	O		+	sat	+
																	90	–		+		
Nitric acid	30	+	10	+	50	+	10	+	20	+	10	+	25/			O	2	O		–	50	+
			100	–						+	100	–	50				10	–				
Phosphoric acid	85	+	100	+	sat	+		+	100	+	10	+	sat	+		O	2	O	50	+		+
											95	–					10	–				
Sulphuric acid	50	+	50	+	96	+	30	+	70	+	30	+	96	+		O	3	–	10	+	96	+
			100	–																		
Alcohol		O	96	+	96	+		–	50	O	50	O	96	+		+	96	O	96	+		+
Pure aniline		O		–	100	–		–		O		–	100	+			100	O	100	O		
Benzene		+	100	–		–		+		–		O	100	O			100	+		+		–
Liquid bromine			100	–		–		–					100	–					100	–		–
Liquid chlorine				–	100	–		–	sat	+		–	100	–			100	O		–	50	+
Sea water		+	100	+	100	+		+	100	+	100	+		–	100	+			100	+	sat	+
Petrol		+	100	+	100	O		–	100	+	100	O		–		–	100	+		+		–
Ether		–	100	O	100	–		–	100	O		+					100	+	100	+		–
Hexane		O		+		O		O		–			100	+			100	+	100	+		–
Oil and greases		+	100	+	100	+		O	100	+	100	O	100	+		–		+	100	+		–
Aromatic hydrocarbon		O		–		–		–		–		+	–			–		–		+		–
Fuel oil		O	100	O	100	+		–	100	+	100	–	100	+			100	+	100	+		–
Naphthalene					100	O		–	100	+	100	–	100	+			100	+	100	+		
Nitrobenzene		–		–	100	–		–				–	100	O				–		O		–
Phenol		–		–	sat	O		–	20	O		–	sat	+				–		–	10	O
Mineral salts				+		+		+		+		+		+						+		+
Iodine solution				O		–		+				–						+				
Toluene		–		–	100	–		–		+		O	100	O		–	100	+	100	+		–
Trichloroethylene		–		–	100	–		–		–		–	100	O		–	100	–	100	O		–
Urea			sat	+	sat	+		+					sat	+			10	+	sat	+	sat	O

For other chemical agents, please contact us.
All this information is taken from the best sources and provided for information purposes only, with no commitment on our behalf.

Description of the marking label affixed to ATEX certified wall-mounting enclosures

Spacial S3DEX

DB300871



1 Product range*

2
- **0163:** identification No. of the notified body for application of the ATEX directive.
- **Ex:** distinctive Community mark indicating that the product is authorized in explosive atmospheres.
- **II:** industry Group (II = surface industry).
- **2:** equipment category (2 = occasional presence, Zone 1 or 21).
- **GD:** type of atmosphere (G= Gas and vapour or mist, D= Dust).

3
- **Ex:** symbol indicating that the equipment corresponds to one or more protection methods standardized by Cénélec.
- **e:** protection method used: e = enhanced safety (EN 60079-7).
- **IIC:** gas group (hydrogen/acetylene).
- **Gb:** protection method for non-electric equipment (check on power supply source). **G =** gas.

4
- **Ex:** symbol indicating that the equipment corresponds to one or more protection methods standardized by Cénélec.
- **t:** protection method used: t = protection by enclosure (EN 60079-31).
- **IIIC:** dust group (conductive dust).
- **Db:** protection method for non-electric equipment (check on power supply source). **D =** dust.

5 Name of the certification body + No. of the CE type certificate.

6 **IP66:** degree of intrusion protection..

** with the dimensions*

Download our ATEX certificates from our site.

Selection table
Steel industrial boxes and steel wall-mounting enclosures

Steel industrial boxes

PB503351-20



SBM	
Description	**References**
Accessories	
Bag of acces. SBM boxes 4 screws	**NSYSBMABS4**
Bag of acces. SBM boxes 6 screws	**NSYSBMABS6**

Steel wall-mounting enclosures

PB500199-30



S3D	
Description	**References**
Doors	
Plain door 300 x 200	**NSYDS3D32**
Plain door 300 x 250	**NSYDS3D325**
Plain door 300 x 300	**NSYDS3D33**
Plain door 300 x 400	**NSYDS3D34**
Plain door 400 x 300	**NSYDS3D43**
Plain door 400 x 400	**NSYDS3D44**
Plain door 400 x 600	**NSYDS3D46**
Plain door 500 x 300	**NSYDS3D53**
Plain door 500 x 400	**NSYDS3D54**
Plain door 500 x 500	**NSYDS3D55**
Plain door 600 x 400	**NSYDS3D64**
Plain door 600 x 500	**NSYDS3D65**
Plain door 600 x 600	**NSYDS3D66**
Plain door 600 x 800	**NSYDS3D68**
Plain door 700 x 500	**NSYDS3D75**
Plain door 800 x 600	**NSYDS3D86**
Plain door 800 x 800	**NSYDS3D88**
Plain door 800 x 1000	**NSYDS3D810**
Plain door 800 x 500 right	**NSYDS3D85R**
Plain door 800 x 500 left	**NSYDS3D85L**
Plain door 800 x 600 right	**NSYDS3D86R**
Plain door 800 x 600 left	**NSYDS3D86L**
Plain door 1000 x 600	**NSYDS3D106**
Plain door 1000 x 800	**NSYDS3D108**
Plain door 1000 x 1000	**NSYDS3D1010**
Plain door 1200 x 1000	**NSYDS3D1210**
Plain door 1000 x 500 right	**NSYDS3D105R**
Plain door 1000 x 500 left	**NSYDS3D105L**
Plain door 1000 x 600 right	**NSYDS3D106R**
Plain door 1000 x 600 left	**NSYDS3D106L**
Plain door 1200 x 600	**NSYDS3D126**
Plain door 1200 x 800	**NSYDS3D128**
Plain door 1200 x 500 right	**NSYDS3D125R**
Plain door 1200 x 500 left	**NSYDS3D125L**
Plain door 1200 x 600 right	**NSYDS3D126R**
Plain door 1200 x 600 left	**NSYDS3D126L**
Plain door 1400 x 500 right	**NSYDS3D145R**
Plain door 1400 x 500 left	**NSYDS3D145L**
Glazed door 300 x 250	**NSYDS3D325T**
Glazed door 300 x 300	**NSYDS3D33T**
Glazed door 300 x 400	**NSYDS3D34T**
Glazed door 300 x 600	**NSYDS3D36T**
Glazed door 400 x 300	**NSYDS3D43T**
Glazed door 400 x 400	**NSYDS3D44T**
Glazed door 400 x 600	**NSYDS3D46T**
Glazed door 500 x 300	**NSYDS3D53T**
Glazed door 500 x 400	**NSYDS3D54T**

Description	References
Glazed door 500 x 500	**NSYDS3D55T**
Glazed door 500 x 600	**NSYDS3D56T**
Glazed door 600 x 400	**NSYDS3D64T**
Glazed door 600 x 500	**NSYDS3D65T**
Glazed door 600 x 600	**NSYDS3D66T**
Glazed door 600 x 800	**NSYDS3D68T**
Glazed door 700 x 500	**NSYDS3D75T**
Glazed door 700 x 600	**NSYDS3D76T**
Glazed door 800 x 600	**NSYDS3D86T**
Glazed door 800 x 800	**NSYDS3D88T**
Glazed door 1000 x 600	**NSYDS3D106T**
Glazed door 1000 x 800	**NSYDS3D108T**
Glazed door 1000 x 1000	**NSYDS3D1010T**
Glazed door 1200 x 600	**NSYDS3D126T**
Glazed door 1200 x 800	**NSYDS3D128T**
Glazed door 1200 x 1000	**NSYDS3D1210T**
Glazed door 1000 x 500 right	**NSYDS3D105TR**
Glazed door 1000 x 500 left	**NSYDS3D105TL**
Glazed door 1200 x 500 right	**NSYDS3D125TR**
Glazed door 1200 x 500 left	**NSYDS3D125TL**
Door accessories	
Gasket double door encl.	**NSYGDD**
Set of 5 taps and latches	**NSYS3DTL**
Hinge 120°	**NSYAEDH120S3D**
Hinge 180°	**NSYAEDH180S3D**
Earthing accessories	
Set of 500 earthing labels	**NSYSWMEL**
Fixing hardware	
100 screws cable gland plate	**NSYS3DCGSB**
Standard screw bag cable gland plate	**NSYS3DCGPSTDSB**
Locking accessories	
Set of 10 linkage guides	**NSYS3DLG**
Standard key DB3	**NSYAEDLS3DKDB3**
Lock + standard key DB3 neutral	**NSYAEDLS3DRLN**
3 point lock linkage H 600 mm	**NSYBTAS3D60**
3 point lock linkage H 700 mm	**NSYBTAS3D70**
3 point lock linkage H 800 mm	**NSYBTAS3D80**
3 point lock linkage H 1000 mm	**NSYBTAS3D100**
3 point lock linkage H 1200 mm	**NSYBTAS3D120**
3 point lock linkage H 1400 mm	**NSYBTAS3D140**
Lock with key type 3131A	**NSYAEDL3131AS3D**
3 point lock linkage (H = 650 mm)	**NSYBTAS3D65**
3 point lock linkage (H = 900 mm)	**NSYBTAS3D90**
Panels	
50 caps for holes of hinges WM	**NSYSWMCH**
Set of 50 back plugs WM	**NSYSWMBP**

To find out more about our spare parts offer, visit our website at www.schneider-electric.com

Selection table
Steel wall-mounting enclosures

Steel wall-mounting enclosures


PB500097-29

S3DM

Description	References
Doors	
Glazed door 400 x 300	**NSYDS3D43T**
Glazed door 500 x 400	**NSYDS3D54T**
Glazed door 600 x 400	**NSYDS3D64T**
Glazed door 600 x 600	**NSYDS3D66T**
Glazed door 700 x 500	**NSYDS3D75T**
Glazed door 800 x 600	**NSYDS3D86T**
Glazed door 1000 x 600	**NSYDS3D106T**
Glazed door 1000 x 800	**NSYDS3D108T**
Earthing accessories	
Set of 500 earthing labels	**NSYSWMEL**
Fixing hardware	
100 screws cable gland plate	**NSYS3DCGSB**
Standard screw bag cable gland plate	**NSYS3DCGPSTDSB**

Description	References
Locking accessories	
Set of 10 linkage guides	**NSYS3DLG**
Standard key DB3	**NSYAEDLS3DKDB3**
3 point lock linkage H 600 mm	**NSYBTAS3D60**
3 point lock linkage H 700 mm	**NSYBTAS3D70**
3 point lock linkage H 800 mm	**NSYBTAS3D80**
3 point lock linkage H 1000 mm	**NSYBTAS3D100**
Panels	
50 caps for holes of hinges WM	**NSYSWMCH**
Set of 50 back plugs WM	**NSYSWMBP**

S3DC

Description	References
Doors	
Plain door 300 x 200	**NSYDS3DC32**
Plain door 300 x 300	**NSYDS3DC33**
Plain door 400 x 300	**NSYDS3DC43**
Plain door 400 x 400	**NSYDS3DC44**
Plain door 500 x 400	**NSYDS3DC54**
Plain door 500 x 500	**NSYDS3DC55**
Plain door 600 x 400	**NSYDS3DC64**
Plain door 600 x 600	**NSYDS3DC66**
Plain door 700 x 500	**NSYDS3DC75**
Plain door 800 x 600	**NSYDS3DC86**
Plain door 800 x 800	**NSYDS3DC88**
Plain door 1000 x 600	**NSYDS3DC106**
Plain door 1000 x 800	**NSYDS3DC108**
Plain door 1000 x 1000	**NSYDS3DC1010**
Plain door 1200 x 800	**NSYDS3DC128**
Plain door 1200 x 1000	**NSYDS3DC1210**

Description	References
Earthing accessories	
Set of 500 earthing labels	**NSYSWMEL**
Locking accessories	
Set of 10 linkage guides	**NSYS3DLG**
Standard lock enclosures	**NSYAEDLS3DC**
3 point lock linkage H 600 mm	**NSYBTAS3D60**
3 point lock linkage H 700 mm	**NSYBTAS3D70**
3 point lock linkage H 800 mm	**NSYBTAS3D80**
3 point lock linkage H 1000 mm	**NSYBTAS3D100**
3 point lock linkage H 1200 mm	**NSYBTAS3D120**
Panels	
50 caps for holes of hinges WM	**NSYSWMCH**
Set of 50 back plugs WM	**NSYSWMBP**

S3DCD

Description	References
Doors	
Plain door 500 x 500	**NSYDS3DCD55**
Plain door 600 x 600	**NSYDS3DCD66**
Plain door 700 x 500	**NSYDS3DCD75**
Plain door 800 x 600	**NSYDS3DCD86**
Plain door 1000 x 600	**NSYDS3DCD106**
Plain door 1000 x 800	**NSYDS3DCD108**
Plain door 1000 x 1000	**NSYDS3DCD1010**
Plain door 1200 x 1000	**NSYDS3DCD1210**

Description	References
Locking accessories	
Standard lock enclosures	**NSYAEDLS3DC**
3 point lock linkage H 700 mm	**NSYBTAS3D70**
3 point lock linkage H 800 mm	**NSYBTAS3D80**
3 point lock linkage H 1000 mm	**NSYBTAS3D100**
3 point lock linkage H 1200 mm	**NSYBTAS3D120**
Panels	
50 caps for holes of hinges WM	**NSYSWMCH**
Set of 50 back plugs WM	**NSYSWMBP**

S3DB

Description	References
Doors	
Plain door 250 x 300	**NSYDS3DB2530**
Plain door 250 x 400	**NSYDS3DB2540**
Plain door 250 x 500	**NSYDS3DB2550**
Plain door 300 x 300	**NSYDS3DB33**
Plain door 300 x 400	**NSYDS3DB34**
Plain door 300 x 500	**NSYDS3DB35**
Plain door 300 x 600	**NSYDS3DB36**
Plain door 400 x 300	**NSYDS3DB43**
Plain door 400 x 800	**NSYDS3DB48**
Plain door 500 x 400	**NSYDS3DB54**
Plain door 600 x 400	**NSYDS3DB64**

Description	References
Earthing accessories	
Set of 500 earthing labels	**NSYSWMEL**
Locking accessories	
Standard key DB3	**NSYAEDLS3DKDB3**
Panels	
50 caps for holes of hinges WM	**NSYSWMCH**
Set of 50 back plugs WM	**NSYSWMBP**

Selection table
Steel wall-mounting enclosures

Steel wall-mounting enclosures

PB500369-31



CRN

Description	References
Doors	
Glazed door H 300 x W 250	**NSYDCRN3025T**
Glazed door H 300 x W 300	**NSYDCRN33T**
Glazed door H 300 x W 400	**NSYDCRN34T**
Glazed door H 400 x W 300	**NSYDCRN43T**
Glazed door H 400 x W 400	**NSYDCRN44T**
Glazed door H 400 x W 600	**NSYDCRN46T**
Glazed door H 500 x W 400	**NSYDCRN54T**
Glazed door H 500 x W 500	**NSYDCRN55T**
Glazed door H 600 x W 400	**NSYDCRN64T**
Glazed door H 600 x W 500	**NSYDCRN65T**
Glazed door H 600 x W 600	**NSYDCRN66T**
Glazed door H 600 x W 800	**NSYDCRN68T**
Glazed door H 700 x W 500	**NSYDCRN75T**
Glazed door H 800 x W 600	**NSYDCRN86T**
Glazed door H 800 x W 800	**NSYDCRN88T**
Glazed door H 1000 x W 600	**NSYDCRN106T**
Glazed door H 1000 x W 800	**NSYDCRN108T**
Plain door H 200 x W 200	**NSYDCRN22**
Plain door H 200 x W 300	**NSYDCRN23**
Plain door H 250 x W 200	**NSYDCRN2520**
Plain door H 300 x W 250	**NSYDCRN3025**
Plain door H 300 x W 300	**NSYDCRN33**
Plain door H 300 x W 400	**NSYDCRN34**
Plain door H 300 x W 450	**NSYDCRN3045**
Plain door H 400 x W 300	**NSYDCRN43**
Plain door H 400 x W 400	**NSYDCRN44**
Plain door H 400 x W 600	**NSYDCRN46**

Description	References
Plain door H 500 x W 400	**NSYDCRN54**
Plain door H 500 x W 500	**NSYDCRN55**
Plain door H 600 x W 400	**NSYDCRN64**
Plain door H 600 x W 500	**NSYDCRN65**
Plain door H 600 x W 600	**NSYDCRN66**
Plain door H 600 x W 800	**NSYDCRN68**
Plain door H 700 x W 500	**NSYDCRN75**
Plain door H 800 x W 600	**NSYDCRN86**
Plain door H 800 x W 800	**NSYDCRN88**
Plain door H 1000 x W 600	**NSYDCRN106**
Plain door H 1000 x W 800	**NSYDCRN108**
Door accessories	
Standard Spacial hinge	**NSYBICRN**
Earthing accessories	
Set of 500 earthing labels	**NSYSWMEL**
Locking accessories	
TCRE1 Lock	**NSYTCRE1**
TCRE12 Lock	**NSYTCRE12**
Panels	
Set of 50 back plugs WM	**NSYSWMBP**
Fixing hardware	
Screw bag for CRN cable gland-plate	**NSYCRNCGPSTDSB**
Sealing	
Adhesive sealing gasket 18 x 10 2M	**NSYADG2M**
Adhesive sealing gasket 18 x 10 3M	**NSYADG3M**
Adhesive sealing gasket 18 x 10 5M	**NSYADG5M**
Adhesive sealing gasket 18 x 10 20M	**NSYADG20M**

PB500373-30



CRNG

Description	References
Doors	
Plain door H 800 x W 600	**NSYDCRNG86**
Plain door left H 800 x W 500	**NSYDCRNG85L**
Plain door right H 800 x W 500	**NSYDCRNG85R**
Plain door left H 800 x W 600	**NSYDCRNG86L**
Plain door right H 800 x W 600	**NSYDCRNG86R**
Plain door H 1000 x W 600	**NSYDCRNG106**
Plain door H 1000 x W 800	**NSYDCRNG108**
Plain door left H 1000 x W 500	**NSYDCRNG105L**
Plain door right H 1000 x W 500	**NSYDCRNG105R**
Plain door right H 1000 x W 600	**NSYDCRNG106R**
Plain door left H 1000 x W 600	**NSYDCRNG106L**
Plain door right H 1000 x W 600	**NSYDCRNG106R**
Plain door left H 1000 x W 600	**NSYDCRNG106L**
Plain door H 1200 x W 600	**NSYDCRNG126**
Plain door H 1200 x W 600	**NSYDCRNG126**
Plain door H 1200 x W 800	**NSYDCRNG128**
Plain door H 1200 x W 800	**NSYDCRNG128**
Plain door right H 1200 x W 500	**NSYDCRNG125R**
Plain door left H 1200 x W 500	**NSYDCRNG125L**
Plain door right H 1200 x W 500	**NSYDCRNG125R**
Plain door left H 1200 x W 500	**NSYDCRNG125L**
Plain door H 1200 x W 600	**NSYDCRNG126R**
Plain door left H 1200 x W 600	**NSYDCRNG126L**
Plain door H 1200 x W 600	**NSYDCRNG126R**
Plain door left H 1200 x W 600	**NSYDCRNG126L**
Plain door right H 1400 x W 500	**NSYDCRNG145R**
Plain door left H 1400 x W 500	**NSYDCRNG145L**
Glazed door H 800 x W 600	**NSYDCRNG86T**
Glazed door H 1000 x W 600	**NSYDCRNG106T**

Description	References
Glazed door H 1000 x W 800	**NSYDCRNG108T**
Glazed door H 1000 x W 1000	**NSYDCRNG1010T**
Glazed door H 1200 x W 600	**NSYDCRNG126T**
Glazed door H 1200 x W 600	**NSYDCRNG126T**
Glazed door H 1200 x W 800	**NSYDCRNG128T**
Glazed door H 1200 x W 800	**NSYDCRNG128T**
Door accessories	
Hinge 120°	**NSYAEDH120S3D**
Hinge 180°	**NSYAEDH180S3D**
Locking accessories	
3 point lock linkage for Spacial CRNG (H = 800mm)	**NSYBTACRNG80**
3 point lock linkage for Spacial CRNG (H = 1000mm)	**NSYBTACRNG100**
3 point lock linkage for Spacial CRNG (H = 1200mm)	**NSYBTACRNG120**
3 point lock linkage for Spacial CRNG (H = 1400mm)	**NSYBTACRNG140**
Earthing accessories	
Set of 500 earthing labels	**NSYSWMEL**
Fixing hardware	
100 screws cable gland plate	**NSYS3DCGSB**
Standard screw bag cable gland plate	**NSYS3DCGPSTDSB**
Panels	
50 caps for holes of hinges WM	**NSYSWMCH**
Set of 50 back plugs WM	**NSYSWMBP**
Others accessories	
Screw bag for CRN cable gland-plate	**NSYCRNCGPSTDSB**

Selection table
Steel floor-standing enclosures

Steel floor-standing enclosures

PB503600-17
PB502412-23



PB503544-30



Double door stoppers (2 pieces)

SF

Description	References
Doors	
Spacial SFP plain door H 2000 x W 700 mm	**NSYSFD207**
Spacial SFP transparent door H 2000 x W 700 mm	**NSYSFD207T**
Door accessories	
Set of 4 Hinges & fixing elements	**NSYDHSF**
Double door stoppers (2 pieces)	**NSYTDSSF2D**
Door locking accessories	
Locking system for enclosures 1 single door version 1200H (right side door for double door version)	**NSYLCK12SF**
Locking system for enclosures 1 single door version 1400H	**NSYLCK14SF**
Locking system for enclosures 1 single door version 1600H (right side door for double door version)	**NSYLCK16SF**
Locking system for enclosures 1 single door version 1800H (right side door for double door version)	**NSYLCK18SF**
Locking system for enclosures 1 single door version 2000H (right side door for double door version)	**NSYLCK20SF**
Locking system for enclosures 1 single door version 2200H (right side door for double door version)	**NSYLCK22SF**
Door locking system toothed washer	**NSYLCKWSF**
Handle neutral trim	**NSYSFHNTRIM**
Handle SF	**NSYSFHS1**

Description	References
Fixing hardware for side panel	
Captive screws for panels external fixing	**NSYCSSF**
Plinth accessories	
H 100 mm Plastic covers for plinth corners	**NSYPC100**
H 200 mm Plastic covers for plinth corners	**NSYPC200**
Installation accessories	
Set of 2 quick cross-rails 120 x 400 mm	**NSYSQCR12040**
Set of 2 quick cross-rails 120 x 500 mm	**NSYSQCR12050**
Set of 2 quick cross-rails 120 x 600 mm	**NSYSQCR12060**
Set of 2 quick cross-rails 120 x 800 mm	**NSYSQCR12080**
Panels	
Spacial SFP back panel H 2000 x W 700 mm	**NSYBP207**
Framework	
8 gaskets framework uprights Spacial SF	**NSYSFVG**

PB503272-30



New roof

PB502415-27



Old roof

PB503543-10



Fix roof off-center bracket

SF

Description	References	
Roof	**New roof (expanded)**	**Old roof (integrated)**
Roof W 300 x D 500 mm	**NSYRSF35L**	**NSYRSF35**
Roof W 300 x D 600 mm	**NSYRSF36L**	**NSYRSF36**
Roof W 300 x D 800 mm	**NSYRSF38L**	**NSYRSF38**
Roof W 400 x D 400 mm	**NSYRSF44L**	**NSYRSF44**
Roof W 400 x D 500 mm	**NSYRSF45L**	**NSYRSF45**
Roof W 600 x D 400 mm	**NSYRSF64L**	**NSYRSF64**
Roof W 600 x D 500 mm	**NSYRSF65L**	**NSYRSF65**
Roof W 600 x D 600 mm	**NSYRSF66L**	**NSYRSF66**
Roof W 700 x D 500 mm	**NSYRSF75L**	**NSYRSF75**
Roof W 700 x D 600 mm	**NSYRSF76L**	**NSYRSF76**
Roof W 700 x D 800 mm	**NSYRSF78L**	**NSYRSF78**
Roof W 800 x D 400 mm	**NSYRSF84L**	**NSYRSF84**
Roof W 800 x D 500 mm	**NSYRSF85L**	**NSYRSF85**
Roof W 800 x D 600 mm	**NSYRSF86L**	**NSYRSF86**
Roof W 800 x D 800 mm	**NSYRSF88L**	**NSYRSF88**

Description	References	
Roof	**New roof (expanded)**	**Old roof (integrated)**
Roof W 1000 x D 400 mm	**NSYRSF104L**	**NSYRSF104**
Roof W 1000 x D 500 mm	**NSYRSF105L**	**NSYRSF105**
Roof W 1000 x D 600 mm	**NSYRSF106L**	**NSYRSF106**
Roof W 1000 x D 800 mm	**NSYRSF108L**	**NSYRSF108**
Roof W 1200 x D 400 mm	**NSYRSF124L**	**NSYRSF124**
Roof W 1200 x D 500 mm	**NSYRSF125L**	**NSYRSF125**
Roof W 1200 x D 600 mm	**NSYRSF126L**	**NSYRSF126**
Roof W 1200 x D 800 mm	**NSYRSF128L**	**NSYRSF128**
Roof W 1600 x D 400 mm	**NSYRSF164L**	**NSYRSF164**
Roof W 1600 x D 500 mm	**NSYRSF165L**	**NSYRSF165**
Roof W 1600 x D 600 mm	**NSYRSF166L**	**NSYRSF166**
"New roof" accessory		
Fix roof off-center bracket	**NSYRSFBLR**	

Selection table
Steel floor-standing enclosures

Steel floor-standing enclosures


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SM

Description	References
Cable gland plates	
1 entry W 1000 x D 400 mm	**NSYSMEC1041**
1 entry W 1000 x D 300 mm	**NSYSMEC1031**
1 entry W 1000 x D 500 mm	**NSYSMEC1051**
1 entry W 600 x D 300 mm	**NSYSMEC631**
1 entry W 600 x D 400 mm	**NSYSMEC641**
1 entry W 600 x D 500 mm	**NSYSMEC651**
1 entry W 600 x D 600 mm	**NSYSMEC661**
1 entry W 800 x D 300 mm	**NSYSMEC831**
1 entry W 800 x D 400 mm	**NSYSMEC841**
1 entry W 800 x D 500 mm	**NSYSMEC851**
1 entry W 800 x D 600 mm	**NSYSMEC861**
Doors	
Double plain door H 1200 x W 1000 mm	**NSYSMD12102D**
Double plain door H 1200 x W 1200 mm	**NSYSMD12122D**
Double plain door H 1400 x W 1000 mm	**NSYSMD14102D**
Double plain door H 1400 x W 1200 mm	**NSYSMD14122D**
Double plain door H 1600 x W 1000 mm	**NSYSMD16102D**
Double plain door H 1600 x W 1200 mm	**NSYSMD16122D**
Double plain door H 1800 x W 1600 mm	**NSYSMD18162D**
Door accessories	
Set of 4 hinges & fixing elements	**NSYDHSF**
Spacial SM hinges & 2D door stop	**NSYDHSM2D**
Double door stoppers (2 pieces)	**NSYTDSSF2D**

Description	References
Locking accessories	
Locking system for enclosures 1 single door version 1200H (right side door for double door version)	**NSYLCK12SF**
Locking system for enclosures 1 single door version 1600H (right side door for double door version)	**NSYLCK16SF**
Locking system for enclosures 1 single door version 1800H (right side door for double door version)	**NSYLCK18SF**
Locking system for enclosures 1 single door version 2000H (right side door for double door version)	**NSYLCK20SF**
Locking system for enclosures 1 single door version 2200H (right side door for double door version)	**NSYLCK22SF**
Locking system for enclosures 1 single door version 1400H	**NSYLCK14SF**
Door locking system toothed washer	**NSYLCKWSF**
Handle neutral trim	**NSYSFHNTRIM**
Plinth accessories	
H 100 mm Plastic covers for plinth corners	**NSYPC100**
H 200 mm Plastic covers for plinth corners	**NSYPC200**

OLN and S6000

Description	References
Doors	
Plain door H 1800 x W 600 mm	**OLPU186**
Plain door H 1800 x W 800 mm	**OLPU188**
Plain door H 2000 x W 600 mm	**OLPU206**
Plain door H 2000 x W 800 mm	**OLPU208**
Plain door H 2000 x W 1000 mm	**OLPU2010**
Transparent door H 1800 x W 800 mm	**OLPU188KT**
Transparent door H 2000 x W 800 mm	**OLPU208KT**
Door accessories	
Standard door hinges and pins, 4 units	**NSYDHS6**
Standard gasket for gland plate, 2000 mm	**NSYGKTS6**
Locking accessories	
Standard handle in RAL 7011 without insert	**NSYSDH**
Flat escutcheon DB 5 mm insert	**NSYEMPOLN**

Description	References
Panels	
Roof trim neutral 600 mm	**NSYTRIM6S6**
Roof trim neutral 800 mm	**NSYTRIM8S6**
Roof trim neutral 1000 mm	**NSYTRIM10S6**
Side panel H 1800 x W 500	**2PLOL185**
Side panel H 1800 x W 600	**2PLOL186**
Side panel H 2000 x W 500	**2PLOL205**
Side panel H 2000 x W 600	**2PLOL206**
Side panel H 2000 x W 800	**2PLOL208**

CMO and S18500

Description	References
Doors	
Plain door H 1800 x W 600 mm	**OLPU186**
Plain door H 1800 x W 800 mm	**OLPU188**
Plain door H 2000 x W 600 mm	**OLPU206**
Plain door H 2000 x W 800 mm	**OLPU208**
Plain door H 2000 x W 1000 mm	**OLPU2010**
Transparent door H 1800 x W 800 mm	**OLPU188KT**
Transparent door H 2000 x W 800 mm	**OLPU208KT**
Door accessories	
Standard door hinges and pins, 4 units	**NSYDHS18**
Standard gasket for gland plate, 2000 mm	**NSYGKTS6**

Description	References
Locking accessories	
Standard handle in RAL 7011	**NSYSDH**
Flat escutcheon DB 5 mm insert	**NSYEMPOLN**
Panels	
Roof trim neutral 600 mm	**NSYTRIM6S18**
Roof trim neutral 800 mm	**NSYTRIM8S18**
Roof trim neutral 1000 mm	**NSYTRIM10S18**

Selection table
Stainless-steel enclosures

Stainless-steel enclosures

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S3X (wall-mounting)

Description	References
Doors	
Left door 304L 1000 x 1000 mm	**NSYDS3X1010L**
Left door 316L 1000 x 1000 mm	**NSYDS3X1010LH**
Right door 304L 1000 x 1000 mm	**NSYDS3X1010R**
Right door 316L 1000 x 1000 mm	**NSYDS3X1010RH**
Plain door 304L 1000 x 800 mm	**NSYDS3X108**
Plain door 316L 1000 x 800 mm	**NSYDS3X108H**
Left door 304L 1200 x 1000 mm	**NSYDS3X1210L**
Left door 316L 1200 x 1000 mm	**NSYDS3X1210LH**
Right door 304L 1200 x 1000 mm	**NSYDS3X1210R**
Right door 316L 1200 x 1000 mm	**NSYDS3X1210RH**
Plain door 304L 1200 x 800 mm	**NSYDS3X128**
Plain door 316L 1200 x 800 mm	**NSYDS3X128H**
Plain door 304L 300 x 200 mm	**NSYDS3X32**
Plain door 304L 300 x 250 mm	**NSYDS3X325**
Plain door 316L 300 x 250 mm	**NSYDS3X325H**
Plain door 316L300 x 200 mm	**NSYDS3X32H**
Plain door 304L 300 x 300 mm	**NSYDS3X33**
Plain door 316L 300 x 300 mm	**NSYDS3X33H**
Plain door 304L 400 x 300 mm	**NSYDS3X43**
Plain door 316L 400 x 300 mm	**NSYDS3X43H**
Plain door 304L 400 x 400 mm	**NSYDS3X44**
Plain door 316L 400 x 400 mm	**NSYDS3X44H**
Plain door 304L 400 x 600 mm	**NSYDS3X46**

Description	References
Plain door 316L 400 x 600 mm	**NSYDS3X46H**
Plain door 304L 500 x 400 mm	**NSYDS3X54**
Plain door 316L 500 x 400 mm	**NSYDS3X54H**
Plain door 304L 600 x 400 mm	**NSYDS3X64**
Plain door 316L 600 x 400 mm	**NSYDS3X64H**
Plain door 304L 600 x 600 mm	**NSYDS3X66**
Plain door 316L 600 x 600 mm	**NSYDS3X66H**
Plain door 304L 700 x 500 mm	**NSYDS3X75**
Plain door 316L 700 x 500 mm	**NSYDS3X75H**
Plain door 304L 800 x 600 mm	**NSYDS3X86**
Plain door 316L 800 x 600 mm	**NSYDS3X86H**
Plain door 304L 800 x 800 mm	**NSYDS3X88**
Plain door 316L 800 x 800 mm	**NSYDS3X88H**
Transp. door 304L 1000 x 800 mm	**NSYDS3X108T**
Transp. door 304L 400 x 300 mm	**NSYDS3X43T**
Transp. door 304L 500 x 400 mm	**NSYDS3X54T**
Transp. door 304L 600 x 400 mm	**NSYDS3X64T**
Transp. door 304L 700 x 500 mm	**NSYDS3X75T**
Transp. door 304L 800 x 600 mm	**NSYDS3X86T**
Door accessories	
Set of 2 hinges	**NSYHS3X**
Locking accessories	
Locking system 1000 mm	**NSYLSS3X10**
Locking system 1200 mm	**NSYLSS3X12**

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SMX (floor-standing)

Description	References
Cable gland plates	
Cable gland plate SMX64/SFX65	**NSYCEX2**
Cable gland p. SDX85/SMX85/SFX86	**NSYCEX7**
Cable gland plate SMX103	**NSYCEX10**
Cable gland plate SMX104	**NSYCEX11**
Cable gland plate SMX104 316L	**NSYCEX12**
Cable gland plate SMX124	**NSYCEX14**
Cable gland plate SMX124 316L	**NSYCEX15**
Cable gland plate SMX125 316L	**NSYCEX17**
Cable gland plate SMX84/SMX164	**NSYCEX5**
Cable gland plate SMX166	**NSYCEX8**
Cable gland plate SMX166 316L	**NSYCEX9**
Cable gland plate SMX84/SMX164 316L	**NSYCEX6**
Cable gland plate SDX125/SMX125	**NSYCEX16**
Doors	
Left door 304L 1400 x 1000 mm	**NSYDSFX1410L**
Right door 304L 1400 x 1000 mm	**NSYDSFX1410R**
Door 304L 1600 x 800 mm	**NSYDSFX168**
Door 304L 1800 x 600 mm	**NSYDSFX186**
Left door 1800 x 1200 mm	**NSYDSFX1812L**
Left door 316L 1800 x 1200 mm	**NSYDSFX1812LH**
Right door 1800 x 1200 mm	**NSYDSFX1812R**
Right door 316L 1800 x 1200 mm	**NSYDSFX1812RH**

Description	References
Door 304L 1800 x 800 mm	**NSYDSFX188**
Door 316L 1800 x 800 mm	**NSYDSFX188H**
Left door 304L 1800 x 1600 mm	**NSYDSFX1816L**
Left door 316L 1800 x 1600 mm	**NSYDSFX1816LH**
Right door 304L 1800 x 1600 mm	**NSYDSFX1816R**
Right door 316L 1800 x 1600 mm	**NSYDSFX1816RH**
Left door 2000 x 1000 mm	**NSYDSFX2010L**
Left door 316L 2000 x 1000 mm	**NSYDSFX2010LH**
Right door 2000 x 1000 mm	**NSYDSFX2010R**
Right door 316L 2000 x 1000 mm	**NSYDSFX2010RH**
Door 1800 x 800 mm	**NSYDSFX206**
Left door 2000 x 1200 mm	**NSYDSFX2012L**
Left door 316L 2000 x 1200 mm	**NSYDSFX2012LH**
Right door 2000 x 1200 mm	**NSYDSFX2012R**
Right door 316L 2000 x 1200 mm	**NSYDSFX2012RH**
Door 2000 x 800 mm	**NSYDSFX208**
Left door 2000 x 1600 mm	**NSYDSFX2016L**
Left door 316L 2000 x 1600 mm	**NSYDSFX2016LH**
Right door 2000 x 1600 mm SMX	**NSYDSFX2016R**
Right door 316L 2000 x 1600 mm	**NSYDSFX2016RH**
Locking accessories	
Locking system H = 1400 mm	**NSYLSSFX14**
Locking system H = 1600 mm	**NSYLSSFX16**
Locking system H = 1800 mm	**NSYLSSFX18**
Locking system H = 2000 mm	**NSYLSSFX20**
Door accessories	
Double door stoppers (2 pieces)	**NSYTDSSF2D**

Selection table
Stainless-steel enclosures and insulating materials

Stainless-steel enclosures

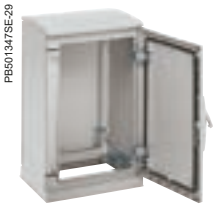

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SFX (floor-standing)

Description	References
Cable gland plates	
Cable gland plate SFX64	**NSYCEX1**
Cable gland plate SMX64/SFX65	**NSYCEX2**
Cable gland p. SDX85/SMX85/SFX86	**NSYCEX7**
Cable gland plate SFX84	**NSYCEX4**
Cable gland plate SDX105/SFX106	**NSYCEX13**
Cable gland plate SDX65/SFX126	**NSYCEX3**
Cable gland plate 800x400 mm SFX	**NSYCEX84A**
Doors	
Door 304L 1800 x 600 mm	**NSYDSFX186**
Left door 1800 x 1200 mm	**NSYDSFX1812L**
Right door 1800 x 1200 mm	**NSYDSFX1812R**
Door 304L 1800 x 800 mm	**NSYDSFX188**
Left door 2000 x 1000 mm	**NSYDSFX2010L**
Right door 2000 x 1000 mm	**NSYDSFX2010R**

Description	References
Door 1800 x 800 mm	**NSYDSFX206**
Left door 2000 x 1200 mm	**NSYDSFX2012L**
Right door 2000 x 1200 mm	**NSYDSFX2012R**
Door 2000 x 800 mm	**NSYDSFX208**
Left door 2000 x 1600 mm	**NSYDSFX2016L**
Right door 2000 x 1600 mm	**NSYDSFX2016R**
Door accessories	
Set of 3 hinges	**NSYHSMX**
Double door stoppers (2 pieces)	**NSYTDSSF2D**
Locking accessories	
Locking system H = 1400 mm	**NSYLSSFX14**
Locking system H = 1600 mm	**NSYLSSFX16**
Locking system H = 1800 mm	**NSYLSSFX18**
Locking system H = 2000 mm	**NSYLSSFX20**

Insulating materials


PB501347SE-29

PLA (floor-standing)

Description	References
Complete door (door + lock + hinges)	**For RAL7035**
Door 500 x 500. Lock handle type. Door opening 120°	**NSYDPLA55G**
Door 500 x 750. Lock handle type. Door opening 120°	**NSYDPLA57G**
Door 750 x 500. Lock handle type. Door opening 120°	**NSYDPLA75G**
Door 750 x 750. Lock handle type. Door opening 120°	**NSYDPLA77G**
Door 1000 x 500. Lock handle type. Door opening 120°	**NSYDPLA105G**
Door 1000 x 750. Lock handle type. Door opening 120°	**NSYDPLA107G**
Door 1250 x 500. Lock handle type. Door opening 120°	**NSYDPLA125G**
Door 1250 x 750. Lock handle type. Door opening 120°	**NSYDPLA127G**
Door 1500 x 500. Lock handle type. Door opening 120°	**NSYDPLA155G**
Door 1500 x 750. Lock handle type. Door opening 120°	**NSYDPLA157G**
Door 500 x 500. Lock handle type. Door opening 180° + Accessory bag 120° hinge	**NSYDPLA55HG**
Door 500 x 750. Lock handle type. Door opening 180° + Accessory bag 120° hinge	**NSYDPLA57HG**
Door 750 x 500. Lock handle type. Door opening 180° + Accessory bag 120° hinge	**NSYDPLA75HG**
Door 750 x 750. Lock handle type. Door opening 180° + Accessory bag 120° hinge	**NSYDPLA77HG**
Door 1000 x 500. Lock handle type. Door opening 180° + Accessory bag 120° hinge	**NSYDPLA105HG**
Door 1000 x 750. Lock handle type. Door opening 180° + Accessory bag 120° hinge	**NSYDPLA107HG**

Description	References
Door 1250 x 500. Lock handle type. Door opening 180° + Accessory bag 120° hinge	**NSYDPLA125HG**
Door 1250 x 750. Lock handle type. Door opening 180° + Accessory bag 120° hinge	**NSYDPLA127HG**
Door 1500 x 500. Lock handle type. Door opening 180° + Accessory bag 120° hinge	**NSYDPLA155HG**
Door 1500 x 750. Lock handle type. Door opening 180° + Accessory bag 120° hinge	**NSYDPLA157HG**
Door accessories	**For RAL7035**
One hinge + axe for PLA (120° opening)	**NSYAEDPLA004**
Kit of axes of door PLAZT (180° opening)	**NSYAEDPLA005**
Rod guide inside the door PLA (set of 2)	**NSYAEDPLA001**
Rod guide on 1 door PLA (set of 2)	**NSYAEDPLA002G**
Rod guide on 2 doors PLA (set of 2)	**NSYAEDPLA003G**
Fixing hardware	
Acc. bag for 1 door H = 500-1000 mm	**NSYASPLA001**
Acc. bag for 2 door H = 1250-1500 mm	**NSYASPLA002**
Acc. bag for 2 door	**NSYASPLA003**
Locking accessories	**For RAL7035**
Handle locking and rods H = 500 mm	**NSYVPLA5MG**
Handle locking and rods H = 750 mm	**NSYVPLA7MG**
Handle locking and rods H = 1000 mm	**NSYVPLA10MG**
Handle locking and rods H = 1250 mm	**NSYVPLA12MG**
Handle locking and rods H = 1500 mm	**NSYVPLA15MG**
Plinths - front or back plate	**For RAL7035**
For PLA 500 mm width	**NSYZZ5FP**
For PLA 700 mm width	**NSYZZ7FP**
For PLA 1000 mm width	**NSYZZ10FP**
For PLA 1200 mm width	**NSYZZ12FP**

Selection table
Insulating materials and HMI

Insulating materials

PB501325SE-32



PLM (wall-mounting)

Description	References
Complete door (door + lock system)	**For RAL7035**
Door with locking for PLM32	**NSYDPLM32G**
Door with locking for PLM3025	**NSYDPLM3025G**
Door with locking for PLM43	**NSYDPLM43G**
Door with locking for PLM54	**NSYDPLM54G**
Door with locking for PLM64	**NSYDPLM64G**
Door with locking for PLM75	**NSYDPLM75G**
Door with locking for PLM86	**NSYDPLM86G**
Door with locking for PLM108	**NSYDPLM108G**
Transp. door with locking for PLM32T	**NSYDPLM32T**
Glazed door with locking for PLM3025T	**NSYDPLM3025TG**
Glazed door with locking for PLM43T	**NSYDPLM43TG**
Glazed door with locking for PLM54T	**NSYDPLM54TG**
Glazed door with locking for PLM64T	**NSYDPLM64TG**
Glazed door with locking for PLM75T	**NSYDPLM75TG**
Glazed door with locking for PLM86T	**NSYDPLM86TG**
Glazed door with locking for PLM108T	**NSYDPLM108TG**

Description	References
Door accessories	
Door hinge for NSYPLM32	**NSYAEDHPLM32**
Door hinge for NSYPLM3025	**NSYAEDHPLM3025**
Door hinge for NSYPLM43 to 86	**NSYAEDHPLM**
Door hinge for NSYPLM108	**NSYAEDHPLM108**
Rod guides (4 pieces) for PLM108	**NSYAEDPLM108**
Fixing hardware	
Acc. bag NSYPLM32	**NSYASPLM32**
Acc. bag NSYPLM43 to 86	**NSYASPLM**
Locking accessories	
Locking and rods for NSYPLM108	**NSYVPLM108**

Applicative and customised solutions: HMI

PB501202-36



SD

Description	References
Cable gland plates	
1 entry W 600 mm	**NSYCESD6R**
1 entry W 800 mm	**NSYCESD8R**
1 entry W 1000 mm	**NSYCESD10R**
1 entry W 1200 mm	**NSYCESD12R**
1 entry W 600 x D 800 mm	**NSYFCESD68**
1 entry W 800 x D 800 mm	**NSYFCESD88**
1 entry W 1000 x D 800 mm	**NSYFCESD108**
1 entry W 1200 x D 800 mm	**NSYFCESD128**
1 entry W 1600 x D 800 mm	**NSYFCESD168**
1 entry W 800 x D 1000 mm	**NSYFCESD810**
1 entry W 1000 x D 1000 mm	**NSYFCESD1010**
1 entry W 1200 x D 1000 mm	**NSYFCESD1210**
1 entry W 1600 x D 1000 mm	**NSYFCESD1610**
Doors	
Desk lid W 600 mm	**NSYDLSD6**
Desk lid W 800 mm	**NSYDLSD8**
Desk lid W 1000 mm	**NSYDLSD10**
Desk lid W 1200 mm	**NSYDLSD12**
Desk lid for w/console W 800 mm	**NSYDLSDF8**
Desk lid for w/console W 1000 mm	**NSYDLSDF10**
Desk lid for w/console W 1200 mm	**NSYDLSDF12**
Desk lid for w/console W 1600 mm	**NSYDLSDF16**
Folding console cover W 800 mm	**NSYCCSDF8**
Folding console cover W 1000 mm	**NSYCCSDF10**
Folding console cover W 1200 mm	**NSYCCSDF12**
Folding console cover W 1600 mm	**NSYCCSDF16**
Cover W 400 mm for modular console	**NSYMCCSD4**

Description	References
Cover W 600 mm for modular console	**NSYMCCSD6**
Frontal door W 600 mm	**NSYDSD6**
Frontal door W 800 mm	**NSYDSD8**
Frontal right door W 1000 mm	**NSYDSD10R**
Frontal left door W 1000 mm	**NSYDSD10L**
Frontal right door W 1200 mm	**NSYDSD12R**
Frontal left door W 1200 mm	**NSYDSD12L**
Frontal door w/console W 800 mm	**NSYDSDF8**
Front. R door w/console W 1000 mm	**NSYDSDF10R**
Front. L door w/console W 1000 mm	**NSYDSDF10L**
Front. R door w/console W 1200 mm	**NSYDSDF12R**
Front. L door w/console W 1200 mm	**NSYDSDF12L**
Front. R door w/console W 1600 mm	**NSYDSDF16R**
Front. L door w/console W 1600 mm	**NSYDSDF16L**
Door accessories	
Hinges compact control desk	**NSYHSD**
Hinges control desk w/console	**NSYHSDF**
Locking accessories	
Standard handle in RAL 7011	**NSYSDH**
Flat escutcheon DB 5 mm insert	**NSYEMPOLN**
Lock w/DB 3 mm for frontal doors	**NSYFDLSD**
Lock w/DB 3 mm desk lids & covers	**NSYDLLSDF**
Flat escutcheon with DB 5 mm	**NSYSDFLOCKDB5**
Panels	
Rear panel W 600 mm	**NSYBPSD6**
Rear panel W 800 mm	**NSYBPSD8**
Rear panel W 1000 mm	**NSYBPSD10**
Rear panel W 1200 mm	**NSYBPSD12**

Selection table
HMI and EMC

Applicative and customised solutions: HMI

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SDX

Description	References
Cable gland plates	
Cable gland pl. SDX85/SMX85/SFX86	**NSYCEX7**
Cable gland plate SDX105/SFX106	**NSYCEX13**
Cable gland plate SDX125/SMX125	**NSYCEX16**
Cable gland plate SDX65/SFX126	**NSYCEX3**
Doors	
Frontal door 600 mm	**NSYDSDX6**
Frontal door 800 mm	**NSYDSDX8**
Frontal right door 1000 mm	**NSYDSDX10R**
Frontal right door 1200 mm	**NSYDSDX12R**
Frontal left door 1000 mm	**NSYDSDX10L**
Frontal left door 1200 mm	**NSYDSDX12L**
Desk lid 1000 mm	**NSYDLSDX10**
Desk lid 1200 mm	**NSYDLSDX12**
Desk lid 600 mm	**NSYDLSDX6**
Desk lid 800 mm	**NSYDLSDX8**

Description	References
Locking accessories	
Locking system	**NSYLSSDX**
Panels	
Rear panel 1000 mm	**NSYBPSDX10**
Rear panel 1200 mm	**NSYBPSDX12**
Rear panel 600 mm	**NSYBPSDX6**
Rear panel 800 mm	**NSYBPSDX8**

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S3CM

Description	References
Doors	
Plain door H 200 x W 200	**NSYDCRN22**
Plain door H 200 x W 300	**NSYDCRN23**
Plain door H 250 x W 200	**NSYDCRN2520**
Plain door H 300 x W 250	**NSYDCRN3025**
Plain door H 300 x W 300	**NSYDCRN33**
Plain door H 300 x W 400	**NSYDCRN34**
Plain door H 300 x W 450	**NSYDCRN3045**
Plain door H 400 x W 300	**NSYDCRN43**
Plain door H 400 x W 400	**NSYDCRN44**
Plain door H 400 x W 600	**NSYDCRN46**
Plain door H 500 x W 500	**NSYDCRN55**
Plain door H 600 x W 600	**NSYDCRN66**
Plain door H 600 x W 800	**NSYDCRN68**
Plain door H 800 x W 600	**NSYDCRN86**

Description	References
Door accessories	
Standard Spacial hinge	**NSYBICRN**
Earthing accessories	
Set of 500 earthing labels	**NSYSWMEL**
Panels	
Aluminium plate H 250 x W 600	**NSYPACMT256**
Aluminium plate H 300 x W 300	**NSYPAS3CM33**
Aluminium plate H 300 x W 400	**NSYPAS3CM34**
Aluminium plate H 400 x W 400	**NSYPAS3CM44**
Aluminium plate H 400 x W 600	**NSYPAS3CM46**
Aluminium plate H 500 x W 500	**NSYPAS3CM55**
Aluminium plate H 600 x W 600	**NSYPAS3CM66**
Aluminium plate H 600 x W 800	**NSYPAS3CM68**
Aluminium plate H 800 x W 600	**NSYPAS3CM86**

Applicative and customised solutions: EMC

PB500205-42



S3HF

Description	References
Doors	
Plain door H 400 x W 300	**NSYDS3HF43**
Plain door H 400 x W 600	**NSYDS3HF46**
Plain door H 500 x W 400	**NSYDS3HF54**
Plain door H 600 x W 400	**NSYDS3HF64**
Plain door H 600 x W 600	**NSYDS3HF66**
Plain door H 700 x W 500	**NSYDS3HF75**
Plain door H 800 x W 600	**NSYDS3HF86**
Plain door H 1000 x W 800	**NSYDS3HF108**
Plain door H 1200 x W 800	**NSYDS3HF128**

Description	References
Earthing accessories	
Set of 500 earthing labels	**NSYSWMEL**
Locking accessories	
Standard Locking system	**NSYAEDLS3HFDB3**

Selection table
ATEX and Heavy duty

Applicative and customised solutions: ATEX

PB500096



S3DEX

Description	References
Doors	
Plain door 300 x 200	**NSYDS3D32**
Plain door 300 x 300	**NSYDS3D33**
Plain door 400 x 300	**NSYDS3D43**
Plain door 400 x 400	**NSYDS3D44**
Plain door 500 x 400	**NSYDS3D54**
Plain door 600 x 400	**NSYDS3D64**
Plain door 600 x 600	**NSYDS3D66**
Plain door 700 x 500	**NSYDS3D75**
Plain door 800 x 600	**NSYDS3D86**
Plain door 1000 x 800	**NSYDS3D108**
Earthing accessories	
Set of 500 earthing labels	**NSYSWMEL**

Description	References
Locking accessories	
Set of 10 linkage guides	**NSYS3DLG**
Standard key DB3	**NSYAEDLS3DKDB3**
3 point lock linkage H 600 mm	**NSYBTAS3D60**
3 point lock linkage H 700 mm	**NSYBTAS3D70**
3 point lock linkage H 800 mm	**NSYBTAS3D80**
3 point lock linkage H 1000 mm	**NSYBTAS3D100**
Panels	
50 caps for holes of hinges WM	**NSYSWMCH**
Set of 50 back plugs WM	**NSYSWMBP**

Outdoor Heavy Duty enclosures

PB502845-21



Thalassa PHD

Description	References	
Aluminium cable-gland plate		
For enclosure W 750 x D 420	**NSYPPC74HD**	
For enclosure W 750 x D 620	**NSYPPC76HD**	
For enclosure W 500 x D 420	**NSYPPC54HD**	
For enclosure W 1250 x D 420	**NSYPPC54HD + NSYPPC74HD**	
For enclosure W 1250 x D 620	**NSYPPC56HD + NSYPPC76HD**	
Screws and nuts for PHD gland plate (10 units)	**NSYPPCPHDSN**	
Plain doors (door + lock + hinges + door retainer)	**Unic door or right door**	**Left door**
For enclosures H 538 x W 500	**NSYDPHD55P**	-
For enclosures H 788 x W 500	**NSYDPHD75P**	-
For enclosures H 843 x W 750	**NSYDPHD77P**	-
For enclosures H 1093 x W 500	**NSYDPHD105P**	-
For enclosures H 1093 x W 750	**NSYDPHD107P**	-
For enclosures H 1343 x W 500	**NSYDPHD125P**	-
For enclosures H 1343 x W 750	**NSYDPHD127P**	-
For enclosures H 1343 x W 1250	**NSYDPHD127P**	**NSYDPHD125LP**
For enclosures H 1593 x W 750	**NSYDPHD157P**	-
For enclosures H 1593 x W 1250	**NSYDPHD157P**	**NSYDPHD155LP**
For enclosures H 2093 x W 750	2 x **NSYDPHD107P**	-
Ribbed doors (door + lock + hinges + door retainer)	**Unic door or right door**	**Left door**
For enclosures H 538 x W 500	**NSYDPHD55R**	-
For enclosures H 788 x W 500	**NSYDPHD75R**	-
For enclosures H 843 x W 750	**NSYDPHD77R**	-
For enclosures H 1093 x W 500	**NSYDPHD105R**	-
For enclosures H 1093 x W 750	**NSYDPHD107R**	-
For enclosures H 1343 x W 500	**NSYDPHD125R**	-
For enclosures H 1343 x W 750	**NSYDPHD127R**	-
For enclosures H 1343 x W 1250	**NSYDPHD127R**	**NSYDPHD125LR**
For enclosures H 1593 x W 750	**NSYDPHD157R**	-
For enclosures H 1593 x W 1250	**NSYDPHD157R**	**NSYDPHD155LR**
For enclosures H 2093 x W 750	2 x **NSYDPHD107R**	-

Description	References
Door accessories	
Set of 4 complete hinges for PHD	**NSYAEDPHD**
Locking accessories	
Complete lock system for PHD H 500	**NSYVPHD5**
Complete lock system for PHD H 750	**NSYVPHD7**
Complete lock system for PHD H 1000	**NSYVPHD10**
Complete lock system for PHD H 1250	**NSYVPHD12**
Complete lock system for PHD H 1500	**NSYVPHD15**
Complete lock system for PHD H 2000	2 x **NSYVPHD10**
Ventilated plinths - front or back plate	
For PHD 1200 mm width	**NSYZZ12VHDFP**
For PHD 500 mm width	**NSYZZ5VHDFP**
For PHD 700 mm width	**NSYZZ7VHDFP**

Selection table
Heavy duty

Outdoor Heavy Duty enclosures

PB502653-17



Spacial S3HD

Description	References
Heavy duty cable-gland plate	
For enclosure H 343 x W 200 x D 180	**NSYTLAUHD**
For enclosure H 448 x W 300 x D 230	**NSYTLCUHD**
For enclosure H 548 x W 400 x D 230	**NSYTLDUHD**
For enclosure H 653 x W 400 x D 280	**NSYTLDUHD**
For enclosure H 658 x W 600 x D 330	**NSYTLGUHD**
For enclosure H 753 x W 500 x D 280	**NSYTLEUHD**
For enclosure H 858 x W 600 x D 330	**NSYTLGUHD**
For enclosure H 862 x W 800 x D 430	2 x **NSYTLDUHD**
For enclosure H 1062 x W 600 x D 430	**NSYTLGUHD**
For enclosure H 1062 x W 800 x D 430	2 x **NSYTLDUHD**
Door	
Door 300 x 200 S3HD, without handle	**NSYDS3HD32**
Door 400 x 300 S3HD, without handle	**NSYDS3HD43**
Door 500 x 400 S3HD, without handle	**NSYDS3HD54**
Door 600 x 400 S3HD + linkage locking syst	**NSYDS3HD64**
Door 600 x 600 S3HD + linkage locking syst	**NSYDS3HD66**
Door 700 x 500 S3HD + linkage locking syst	**NSYDS3HD75**
Door 800 x 600 S3HD + linkage locking syst	**NSYDS3HD86**
Door 800 x 800 S3HD + linkage locking syst	**NSYDS3HD88**
Door 1000 x 600 S3HD + linkage locking syst	**NSYDS3HD106**
Door 1000 x 800 S3HD + linkage locking syst	**NSYDS3HD108**

Description	References
Hinge	
S3HD hinge	**NSYAEDH120S3HD**
Canopy	
Canopy for S3HD 200 (W) x 150 (P)	**NSYTJ2015HD**
Canopy for S3HD 300 (W) x 200 (P)	**NSYTJ3020HD**
Canopy for S3HD 400 (W) x 200 (P)	**NSYTJ4020HD**
Canopy for S3HD 400 (W) x 250 (P)	**NSYTJ4025HD**
Canopy for S3HD 600 (W) x 300 (P)	**NSYTJ6030HD**
Canopy for S3HD 500 (W) x 250 (P)	**NSYTJ5025HD**
Canopy for S3HD 800 (W) x 400 (P)	**NSYTJ8040HD**
Canopy for S3HD 600 (W) x 400 (P)	**NSYTJ6040HD**
Lock	
Lock S3HD DB 3 mm (Escutcheon+cam+washer)	**NSYAEDLS3HDRL**

PB502653-17



Spacial SFHD

Description	References
Heavy duty cable-gland plate	
For enclosure H 1262 x W 600 x D 430	**NSYSFECA64HD**
For enclosure H 1262 x W 800 x D 430	**NSYSFECA64HD**
For enclosure H 1262 x W 1200 x D 430	2 x **NSYSFECA64HD**
For enclosure H 1281 x W 600 x D 630	**NSYSFECA66HD**
For enclosure H 1281 x W 800 x D 630	**NSYSFECA66HD**
For enclosure H 1281 x W 1200 x D 630	2 x **NSYSFECA66HD**
For enclosure H 1662 x W 800 x D 430	**NSYSFECA64HD**
For enclosure H 1662 x W 1200 x D 430	2 x **NSYSFECA64HD**
For enclosure H 1681 x W 600 x D 630	**NSYSFECA66HD**
For enclosure H 1681 x W 800 x D 630	**NSYSFECA66HD**
For enclosure H 1681 x W 1200 x D 630	2 x **NSYSFECA66HD**
For enclosure H 2062 x W 800 x D 430	**NSYSFECA64HD**
Door	
Plain door SFHD 1200 x 600mm	**NSYSFDHD126**
Plain door SFHD 1200 x 800mm	**NSYSFDHD128**
Plain door SFHD 1200 x 1200mm	**NSYSFDHD12122D**
Plain door SFHD 1600 x 600mm	**NSYSFDHD166**
Plain door SFHD 1600 x 800mm	**NSYSFDHD168**
Plain door doble SFHD 1600 x 1200mm	**NSYSFDHD16122D**
Plain door SFHD 2000 x 800mm	**NSYSFDHD208**

Description	References
Back Panel	
Back panel SFHD 1200 x 600mm	**NSYBPHD126**
Back panel SFHD 1200 x 800mm	**NSYBPHD128**
Back panel SFHD 1200 x 1200mm	**NSYBPHD12122D**
Back panel SFHD 1600 x 600mm	**NSYBPHD166**
Back panel SFHD 1600 x 800mm	**NSYBPHD168**
Back panel SFHD 1600 x 1200mm	**NSYBPHD1612**
Back panel SFHD 2000 x 800mm	**NSYBPHD208**
Canopy	
Canopy SFHD 600 x 400mm	**NSYSC64HD**
Canopy SFHD 600 x 600mm	**NSYSC66HD**
Canopy SFHD 800 x 400mm	**NSYSC84HD**
Canopy SFHD 800 x 600mm	**NSYSC86HD**
Canopy SFHD 1200 x 400mm	**NSYSC124HD**
Canopy SFHD 1200 x 600mm	**NSYSC126HD**
Handle with 1242E cylindrical barrel	
Handle SFHD 1242E	**NSYSFHS1HD**
Captive screws	
Captive screws for Spacial SFHD panels	**NSYCSSFHD**

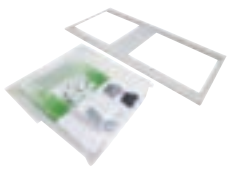
Selection table
ClimaSys


P1030542-21


PB503041


P1030580-19


PB503043


PB503046

AIR-AIR EXCHANGERS

Reference	Exchanger Battery	Fan (Fan + Capacitor)	Frontal Cover RAL 7035	Thermostat	Mounting Kit (instruction + full seal + screws)
NSYCEA14E	NSYCUSP0030	NSYCUSP0042	NSYCUSP0076	-	NSYCUSP0111
NSYCEA22E	NSYCUSP0177	NSYCUSP0042	NSYCUSP0181	-	NSYCUSP0184
NSYCEA36	NSYCUSP0031	NSYCUSP0044	NSYCUSP0077	NSYCUSP0100	NSYCUSP0112
NSYCEA50	NSYCUSP0032	NSYCUSP0044	NSYCUSP0077	NSYCUSP0100	NSYCUSP0112
NSYCEA80	NSYCUSP0033	NSYCUSP0138	NSYCUSP0078	NSYCUSP0100	NSYCUSP0113


P1030542-21


PB503041


P1030580-19


P1030580-19

AIR-WATER EXCHANGERS

Reference	Exchanger Battery	Fan (Fan + Capacitor)	Frontal Cover RAL 7035	Frontal Cover Stainless Steel
NSYCEW1K	NSYCUSP0034	NSYCUSP0043	NSYCUSP0079	-
NSYCEWX1K	NSYCUSP0034	NSYCUSP0043	-	NSYCUSP0094
NSYCEW1KUL	NSYCUSP0034	NSYCUSP0043	NSYCUSP0079	-
NSYCEWX1KUL	NSYCUSP0034	NSYCUSP0043	-	NSYCUSP0094
NSYCEW1K8	NSYCUSP0035	NSYCUSP0044	NSYCUSP0080	-
NSYCEWX1K8	NSYCUSP0035	NSYCUSP0044	-	NSYCUSP0095
NSYCEW1K8UL	NSYCUSP0035	NSYCUSP0044	NSYCUSP0080	-
NSYCEWX1K8UL	NSYCUSP0035	NSYCUSP0044	-	NSYCUSP0095
NSYCEW2K5	NSYCUSP0036	NSYCUSP0136	NSYCUSP0080	-
NSYCEWX2K5	NSYCUSP0036	NSYCUSP0136	-	NSYCUSP0095
NSYCEW2K5UL	NSYCUSP0036	NSYCUSP0136	NSYCUSP0080	-
NSYCEWX2K5UL	NSYCUSP0036	NSYCUSP0136	-	NSYCUSP0095
NSYCEW3K5	NSYCUSP0037	NSYCUSP0138	NSYCUSP0081	-
NSYCEWX3K5	NSYCUSP0037	NSYCUSP0138	-	NSYCUSP0096
NSYCEW3K5UL	NSYCUSP0037	NSYCUSP0138	NSYCUSP0081	-
NSYCEWX3K5UL	NSYCUSP0037	NSYCUSP0138	-	NSYCUSP0096
NSYCEW4K5	NSYCUSP0037	NSYCUSP0137	NSYCUSP0081	-
NSYCEWX4K5	NSYCUSP0037	NSYCUSP0137	-	NSYCUSP0096
NSYCEW4K5UL	NSYCUSP0037	NSYCUSP0137	NSYCUSP0081	-
NSYCEWX4K5UL	NSYCUSP0037	NSYCUSP0137	-	NSYCUSP0096
NSYCEW6K	NSYCUSP0038	NSYCUSP0137	NSYCUSP0082	-
NSYCEWX6K	NSYCUSP0038	NSYCUSP0137	-	NSYCUSP0097
NSYCEW6KUL	NSYCUSP0038	NSYCUSP0137	NSYCUSP0082	-
NSYCEWX6KUL	NSYCUSP0038	NSYCUSP0137	-	NSYCUSP0097
NSYCEW6K2P4	NSYCUSP0038	NSYCUSP0137	NSYCUSP0082	-
NSYCEWX6K2P4	NSYCUSP0038	NSYCUSP0137	-	NSYCUSP0097
NSYCEW10K	NSYCUSP0039	NSYCUSP0137	NSYCUSP0083	-
NSYCEWX10K	NSYCUSP0039	NSYCUSP0137	-	NSYCUSP0098
NSYCEW10K2P4	NSYCUSP0039	NSYCUSP0137	NSYCUSP0083	-
NSYCEWX10K2P4	NSYCUSP0039	NSYCUSP0137	-	NSYCUSP0098
NSYCEW15K	NSYCUSP0040	NSYCUSP0137	NSYCUSP0083	-
NSYCEWX15K	NSYCUSP0040	NSYCUSP0137	-	NSYCUSP0098
NSYCEW15K2P4	NSYCUSP0040	NSYCUSP0137	NSYCUSP0083	-
NSYCEWX15K2P4	NSYCUSP0040	NSYCUSP0137	-	NSYCUSP0098
NSYCEW2K5R	NSYCUSP0041	NSYCUSP0053	NSYCUSP0084	-

Selection table
ClimaSys

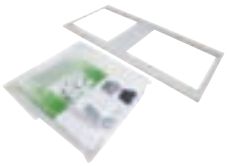
PB503043



PB503049



PB503046



AIR-WATER EXCHANGERS				
Reference	Thermostat	Transformer	Solenoid Valve	Mounting Kit (instruction + full seal + screws)
NSYCEW1K	NSYCUSP0100	-	NSYCUSP0108	NSYCUSP0114
NSYCEWX1K	NSYCUSP0100	-	NSYCUSP0108	NSYCUSP0114
NSYCEW1KUL	NSYCUSP0175	-	NSYCUSP0176	NSYCUSP0114
NSYCEWX1KUL	NSYCUSP0175	-	NSYCUSP0176	NSYCUSP0114
NSYCEW1K8	NSYCUSP0100	-	NSYCUSP0109	NSYCUSP0124
NSYCEWX1K8	NSYCUSP0100	-	NSYCUSP0109	NSYCUSP0124
NSYCEW1K8UL	NSYCUSP0175	-	NSYCUSP0176	NSYCUSP0124
NSYCEWX1K8UL	NSYCUSP0175	-	NSYCUSP0176	NSYCUSP0124
NSYCEW2K5	NSYCUSP0100	-	NSYCUSP0109	NSYCUSP0124
NSYCEWX2K5	NSYCUSP0100	-	NSYCUSP0109	NSYCUSP0124
NSYCEW2K5UL	NSYCUSP0175	-	NSYCUSP0176	NSYCUSP0124
NSYCEWX2K5UL	NSYCUSP0175	-	NSYCUSP0176	NSYCUSP0124
NSYCEW3K5	NSYCUSP0100	-	NSYCUSP0109	NSYCUSP0115
NSYCEWX3K5	NSYCUSP0100	-	NSYCUSP0109	NSYCUSP0115
NSYCEW3K5UL	NSYCUSP0175	-	NSYCUSP0176	NSYCUSP0115
NSYCEWX3K5UL	NSYCUSP0175	-	NSYCUSP0176	NSYCUSP0115
NSYCEW4K5	NSYCUSP0100	-	NSYCUSP0109	NSYCUSP0115
NSYCEWX4K5	NSYCUSP0100	-	NSYCUSP0109	NSYCUSP0115
NSYCEW4K5UL	NSYCUSP0175	-	NSYCUSP0176	NSYCUSP0115
NSYCEWX4K5UL	NSYCUSP0175	-	NSYCUSP0176	NSYCUSP0115
NSYCEW6K	NSYCUSP0100	-	NSYCUSP0109	NSYCUSP0125
NSYCEWX6K	NSYCUSP0100	-	NSYCUSP0109	NSYCUSP0125
NSYCEW6KUL	NSYCUSP0175	-	NSYCUSP0176	NSYCUSP0125
NSYCEWX6KUL	NSYCUSP0175	-	NSYCUSP0176	NSYCUSP0125
NSYCEW6K2P4	NSYCUSP0100	NSYCUSP0107	NSYCUSP0109	NSYCUSP0125
NSYCEWX6K2P4	NSYCUSP0100	NSYCUSP0107	NSYCUSP0109	NSYCUSP0125
NSYCEW10K	NSYCUSP0100	-	NSYCUSP0110	NSYCUSP0116
NSYCEWX10K	NSYCUSP0100	-	NSYCUSP0110	NSYCUSP0116
NSYCEW10K2P4	NSYCUSP0100	NSYCUSP0107	NSYCUSP0110	NSYCUSP0116
NSYCEWX10K2P4	NSYCUSP0100	NSYCUSP0107	NSYCUSP0110	NSYCUSP0116
NSYCEW15K	NSYCUSP0100	-	NSYCUSP0110	NSYCUSP0116
NSYCEWX15K	NSYCUSP0100	-	NSYCUSP0110	NSYCUSP0116
NSYCEW15K2P4	NSYCUSP0100	NSYCUSP0107	NSYCUSP0110	NSYCUSP0116
NSYCEWX15K2P4	NSYCUSP0100	NSYCUSP0107	NSYCUSP0110	NSYCUSP0116
NSYCEW2K5R	NSYCUSP0100	-	NSYCUSP0109	NSYCUSP0117

Selection table
ClimaSys


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PB503041


P1030542-21


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PB503037

COOLING UNITS: SIDE MOUNTING MODELS					
Reference	Evaporator Battery	Evaporator Fan (fan + capacitor)	Condenser Battery	Condenser Fan (fan + capacitor)	Compressor Kit
NSYCU300H	NSYCUSP0001	NSYCUSP0042	NSYCUSP0013	NSYCUSP0042	NSYCUSP0054
NSYCU400	NSYCUSP0002	NSYCUSP0042	NSYCUSP0014	NSYCUSP0042	NSYCUSP0055
NSYCU400UL	NSYCUSP0002	NSYCUSP0042	NSYCUSP0014	NSYCUSP0042	NSYCUSP0055
NSYCUX400	NSYCUSP0002	NSYCUSP0042	NSYCUSP0014	NSYCUSP0042	NSYCUSP0055
NSYCU600	NSYCUSP0003	NSYCUSP0043	NSYCUSP0015	NSYCUSP0044	NSYCUSP0056
NSYCUX600	NSYCUSP0003	NSYCUSP0043	NSYCUSP0015	NSYCUSP0044	NSYCUSP0056
NSYCU600UL	NSYCUSP0003	NSYCUSP0043	NSYCUSP0015	NSYCUSP0044	NSYCUSP0056
NSYCUX600UL	NSYCUSP0003	NSYCUSP0043	NSYCUSP0015	NSYCUSP0044	NSYCUSP0056
NSYCU800	NSYCUSP0004	NSYCUSP0043	NSYCUSP0016	NSYCUSP0044	NSYCUSP0057
NSYCUX800	NSYCUSP0004	NSYCUSP0043	NSYCUSP0016	NSYCUSP0044	NSYCUSP0057
NSYCU800UL	NSYCUSP0004	NSYCUSP0043	NSYCUSP0016	NSYCUSP0044	NSYCUSP0057
NSYCUX800UL	NSYCUSP0004	NSYCUSP0043	NSYCUSP0016	NSYCUSP0044	NSYCUSP0057
NSYCU1K	NSYCUSP0004	NSYCUSP0043	NSYCUSP0017	NSYCUSP0044	NSYCUSP0057
NSYCUX1K	NSYCUSP0004	NSYCUSP0043	NSYCUSP0017	NSYCUSP0044	NSYCUSP0057
NSYCU1KUL	NSYCUSP0004	NSYCUSP0043	NSYCUSP0017	NSYCUSP0044	NSYCUSP0057
NSYCUX1KUL	NSYCUSP0004	NSYCUSP0043	NSYCUSP0017	NSYCUSP0044	NSYCUSP0057
NSYCU1K2P4	NSYCUSP0004	NSYCUSP0043	NSYCUSP0017	NSYCUSP0044	NSYCUSP0057
NSYCUX1K2P4	NSYCUSP0004	NSYCUSP0043	NSYCUSP0017	NSYCUSP0044	NSYCUSP0057
NSYCU1K2P4UL	NSYCUSP0004	NSYCUSP0043	NSYCUSP0017	NSYCUSP0044	NSYCUSP0057
NSYCUX1K2P4UL	NSYCUSP0004	NSYCUSP0043	NSYCUSP0017	NSYCUSP0044	NSYCUSP0057
NSYCU1K2	NSYCUSP0005	NSYCUSP0044	NSYCUSP0018	NSYCUSP0136	NSYCUSP0058
NSYCUX1K2	NSYCUSP0005	NSYCUSP0044	NSYCUSP0018	NSYCUSP0136	NSYCUSP0058
NSYCU1K2UL	NSYCUSP0005	NSYCUSP0044	NSYCUSP0018	NSYCUSP0136	NSYCUSP0058
NSYCUX1K2UL	NSYCUSP0005	NSYCUSP0044	NSYCUSP0018	NSYCUSP0136	NSYCUSP0058
NSYCU1K22P4	NSYCUSP0005	NSYCUSP0044	NSYCUSP0018	NSYCUSP0136	NSYCUSP0058
NSYCUX1K22P4	NSYCUSP0005	NSYCUSP0044	NSYCUSP0018	NSYCUSP0136	NSYCUSP0058
NSYCU1K6	NSYCUSP0006	NSYCUSP0044	NSYCUSP0019	NSYCUSP0138	NSYCUSP0059
NSYCUX1K6	NSYCUSP0006	NSYCUSP0044	NSYCUSP0019	NSYCUSP0138	NSYCUSP0059
NSYCU1K6UL	NSYCUSP0006	NSYCUSP0044	NSYCUSP0019	NSYCUSP0138	NSYCUSP0059
NSYCUX1K6UL	NSYCUSP0006	NSYCUSP0044	NSYCUSP0019	NSYCUSP0138	NSYCUSP0059
NSYCU1K62P4	NSYCUSP0006	NSYCUSP0044	NSYCUSP0019	NSYCUSP0138	NSYCUSP0059
NSYCUX1K62P4	NSYCUSP0006	NSYCUSP0044	NSYCUSP0019	NSYCUSP0138	NSYCUSP0059
NSYCU1K62P4UL	NSYCUSP0006	NSYCUSP0044	NSYCUSP0019	NSYCUSP0138	NSYCUSP0059
NSYCUX1K62P4UL	NSYCUSP0006	NSYCUSP0044	NSYCUSP0019	NSYCUSP0138	NSYCUSP0059
NSYCU2K	NSYCUSP0006	NSYCUSP0136	NSYCUSP0020	NSYCUSP0138	NSYCUSP0060
NSYCUX2K	NSYCUSP0006	NSYCUSP0136	NSYCUSP0020	NSYCUSP0138	NSYCUSP0060
NSYCU2KUL	NSYCUSP0006	NSYCUSP0136	NSYCUSP0020	NSYCUSP0138	NSYCUSP0139
NSYCUX2KUL	NSYCUSP0006	NSYCUSP0136	NSYCUSP0020	NSYCUSP0138	NSYCUSP0139
NSYCU2K3P4	NSYCUSP0006	NSYCUSP0136	NSYCUSP0020	NSYCUSP0138	NSYCUSP0061
NSYCUX2K3P4	NSYCUSP0006	NSYCUSP0136	NSYCUSP0020	NSYCUSP0138	NSYCUSP0061
NSYCU2K3P4UL	NSYCUSP0006	NSYCUSP0136	NSYCUSP0020	NSYCUSP0138	NSYCUSP0062
NSYCUX2K3P4UL	NSYCUSP0006	NSYCUSP0136	NSYCUSP0020	NSYCUSP0138	NSYCUSP0062
NSYCU3K3P4	NSYCUSP0007	NSYCUSP0137	NSYCUSP0021	NSYCUSP0137	NSYCUSP0062
NSYCUX3K3P4	NSYCUSP0007	NSYCUSP0137	NSYCUSP0021	NSYCUSP0137	NSYCUSP0062
NSYCU3K3P4UL	NSYCUSP0007	NSYCUSP0137	NSYCUSP0021	NSYCUSP0137	NSYCUSP0062
NSYCUX3K3P4UL	NSYCUSP0007	NSYCUSP0137	NSYCUSP0021	NSYCUSP0137	NSYCUSP0062
NSYCU4K3P4	NSYCUSP0007	NSYCUSP0137	NSYCUSP0022	NSYCUSP0137	NSYCUSP0063
NSYCUX4K3P4	NSYCUSP0007	NSYCUSP0137	NSYCUSP0022	NSYCUSP0137	NSYCUSP0063
NSYCU4K3P4UL	NSYCUSP0007	NSYCUSP0137	NSYCUSP0022	NSYCUSP0137	NSYCUSP0063
NSYCUX4K3P4UL	NSYCUSP0007	NSYCUSP0137	NSYCUSP0022	NSYCUSP0137	NSYCUSP0063
NSYCU6K3P4	-	-	-	-	-
NSYCU6K3P460	-	-	-	-	-
NSYCU8K3P4	-	-	-	-	-
NSYCU8K3P460	-	-	-	-	-
NSYCU10K3P4	-	-	-	-	-
NSYCU10K3P460	-	-	-	-	-
NSYCU15K3P4	-	-	-	-	-
NSYCU15K3P460	-	-	-	-	-

Selection table
ClimaSys

P1030580-19



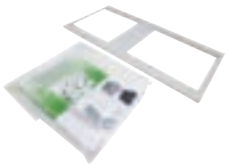
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PB503039



PB503046



COOLING UNITS & SIDE MOUNTING MODELS

Reference	Frontal Cover RAL 7035	Frontal Cover Stainless Steel	Thermostat	Transformer	Mounting Kit (instruction + full seal + screws)
NSYCU300H	NSYCUSP0066	-	NSYCUSP0099	-	NSYCUSP0118
NSYCU400	NSYCUSP0067	-	NSYCUSP0099	-	NSYCUSP0126
NSYCU400UL	NSYCUSP0067	-	NSYCUSP0144	-	NSYCUSP0126
NSYCUX400	-	NSYCUSP0085	NSYCUSP0099	-	NSYCUSP0126
NSYCU600	NSYCUSP0068	-	NSYCUSP0099	-	NSYCUSP0127
NSYCUX600	-	NSYCUSP0086	NSYCUSP0099	-	NSYCUSP0127
NSYCU600UL	NSYCUSP0068	-	NSYCUSP0144	-	NSYCUSP0127
NSYCUX600UL	-	NSYCUSP0086	NSYCUSP0144	-	NSYCUSP0127
NSYCU800	NSYCUSP0069	-	NSYCUSP0099	-	NSYCUSP0119
NSYCUX800	-	NSYCUSP0087	NSYCUSP0099	-	NSYCUSP0119
NSYCU800UL	NSYCUSP0069	-	NSYCUSP0144	-	NSYCUSP0119
NSYCUX800UL	-	NSYCUSP0087	NSYCUSP0144	-	NSYCUSP0119
NSYCU1K	NSYCUSP0069	-	NSYCUSP0099	-	NSYCUSP0119
NSYCUX1K	-	NSYCUSP0087	NSYCUSP0099	-	NSYCUSP0119
NSYCU1KUL	NSYCUSP0069	-	NSYCUSP0144	-	NSYCUSP0119
NSYCUX1KUL	-	NSYCUSP0087	NSYCUSP0144	-	NSYCUSP0119
NSYCU1K2P4	NSYCUSP0069	-	NSYCUSP0099	NSYCUSP0101	NSYCUSP0119
NSYCUX1K2P4	-	NSYCUSP0087	NSYCUSP0099	NSYCUSP0101	NSYCUSP0119
NSYCU1K2P4UL	NSYCUSP0069	-	NSYCUSP0144	NSYCUSP0173	NSYCUSP0119
NSYCUX1K2P4UL	-	NSYCUSP0087	NSYCUSP0144	NSYCUSP0173	NSYCUSP0119
NSYCU1K2	NSYCUSP0070	-	NSYCUSP0099	-	NSYCUSP0120
NSYCUX1K2	-	NSYCUSP0088	NSYCUSP0099	-	NSYCUSP0120
NSYCU1K2UL	NSYCUSP0070	-	NSYCUSP0144	-	NSYCUSP0120
NSYCUX1K2UL	-	NSYCUSP0088	NSYCUSP0144	-	NSYCUSP0120
NSYCU1K22P4	NSYCUSP0070	-	NSYCUSP0099	NSYCUSP0102	NSYCUSP0120
NSYCUX1K22P4	-	NSYCUSP0088	NSYCUSP0099	NSYCUSP0102	NSYCUSP0120
NSYCU1K6	NSYCUSP0070	-	NSYCUSP0099	-	NSYCUSP0120
NSYCUX1K6	-	NSYCUSP0088	NSYCUSP0099	-	NSYCUSP0120
NSYCU1K6UL	NSYCUSP0070	-	NSYCUSP0144	-	NSYCUSP0120
NSYCUX1K6UL	-	NSYCUSP0088	NSYCUSP0144	-	NSYCUSP0120
NSYCU1K62P4	NSYCUSP0070	-	NSYCUSP0099	NSYCUSP0103	NSYCUSP0120
NSYCUX1K62P4	-	NSYCUSP0088	NSYCUSP0099	NSYCUSP0103	NSYCUSP0120
NSYCU1K62P4UL	NSYCUSP0070	-	NSYCUSP0144	NSYCUSP0174	NSYCUSP0120
NSYCUX1K62P4UL	-	NSYCUSP0088	NSYCUSP0144	NSYCUSP0174	NSYCUSP0120
NSYCU2K	NSYCUSP0070	-	NSYCUSP0099	-	NSYCUSP0120
NSYCUX2K	-	NSYCUSP0088	NSYCUSP0099	-	NSYCUSP0120
NSYCU2KUL	NSYCUSP0070	-	NSYCUSP0144	-	NSYCUSP0120
NSYCUX2KUL	-	NSYCUSP0088	NSYCUSP0144	-	NSYCUSP0120
NSYCU2K3P4	NSYCUSP0070	-	NSYCUSP0099	NSYCUSP0104	NSYCUSP0120
NSYCUX2K3P4	-	NSYCUSP0088	NSYCUSP0099	NSYCUSP0104	NSYCUSP0120
NSYCU2K3P4UL	NSYCUSP0070	-	NSYCUSP0144	NSYCUSP0147	NSYCUSP0120
NSYCUX2K3P4UL	-	NSYCUSP0088	NSYCUSP0144	NSYCUSP0147	NSYCUSP0120
NSYCU3K3P4	NSYCUSP0071	-	NSYCUSP0099	NSYCUSP0105	NSYCUSP0128
NSYCUX3K3P4	-	NSYCUSP0089	NSYCUSP0099	NSYCUSP0105	NSYCUSP0128
NSYCU3K3P4UL	NSYCUSP0071	-	NSYCUSP0144	NSYCUSP0148	NSYCUSP0128
NSYCUX3K3P4UL	-	NSYCUSP0089	NSYCUSP0144	NSYCUSP0148	NSYCUSP0128
NSYCU4K3P4	NSYCUSP0071	-	NSYCUSP0099	NSYCUSP0105	NSYCUSP0128
NSYCUX4K3P4	-	NSYCUSP0089	NSYCUSP0099	NSYCUSP0105	NSYCUSP0128
NSYCU4K3P4UL	NSYCUSP0071	-	NSYCUSP0144	NSYCUSP0148	NSYCUSP0128
NSYCUX4K3P4UL	-	NSYCUSP0089	NSYCUSP0144	NSYCUSP0148	NSYCUSP0128
NSYCU6K3P4	-	-	NSYCUSP0099	-	-
NSYCU6K3P460	-	-	NSYCUSP0099	-	-
NSYCU8K3P4	-	-	NSYCUSP0099	-	-
NSYCU8K3P460	-	-	NSYCUSP0099	-	-
NSYCU10K3P4	-	-	NSYCUSP0099	-	-
NSYCU10K3P460	-	-	NSYCUSP0099	-	-
NSYCU15K3P4	-	-	NSYCUSP0099	-	-
NSYCU15K3P460	-	-	NSYCUSP0099	-	-

Selection table
ClimaSys







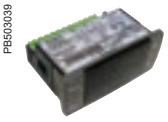


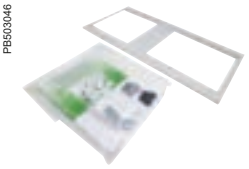


COOLING UNITS: ROOF MOUNT					
Reference	**Evaporator battery**	**Evaporator fan (fan + capacitor)**	**Condenser battery**	**Condenser fan (fan + capacitor)**	**Compressor kit**
NSYCU400R	NSYCUSP0008	NSYCUSP0047	NSYCUSP0023	NSYCUSP0043	NSYCUSP0064
NSYCUX400R	NSYCUSP0008	NSYCUSP0047	NSYCUSP0023	NSYCUSP0043	NSYCUSP0064
NSYCU400RUL	NSYCUSP0008	NSYCUSP0047	NSYCUSP0023	NSYCUSP0043	NSYCUSP0172
NSYCU800R	NSYCUSP0009	NSYCUSP0044	NSYCUSP0024	NSYCUSP0136	NSYCUSP0065
NSYCUX800R	NSYCUSP0009	NSYCUSP0044	NSYCUSP0024	NSYCUSP0136	NSYCUSP0065
NSYCU800RUL	NSYCUSP0009	NSYCUSP0044	NSYCUSP0024	NSYCUSP0136	NSYCUSP0065
NSYCU1K2R	NSYCUSP0010	NSYCUSP0044	NSYCUSP0025	NSYCUSP0049	NSYCUSP0065
NSYCUX1K2R	NSYCUSP0010	NSYCUSP0044	NSYCUSP0025	NSYCUSP0049	NSYCUSP0065
NSYCU1K2RUL	NSYCUSP0010	NSYCUSP0044	NSYCUSP0025	NSYCUSP0049	NSYCUSP0065
NSYCU1K5R	NSYCUSP0010	NSYCUSP0136	NSYCUSP0026	NSYCUSP0049	NSYCUSP0059
NSYCUX1K5R	NSYCUSP0010	NSYCUSP0136	NSYCUSP0026	NSYCUSP0049	NSYCUSP0059
NSYCU1K5RUL	NSYCUSP0010	NSYCUSP0136	NSYCUSP0026	NSYCUSP0049	NSYCUSP0059
NSYCU2K3P4R	NSYCUSP0011	NSYCUSP0136	NSYCUSP0027	NSYCUSP0049	NSYCUSP0061
NSYCUX2K3P4R	NSYCUSP0011	NSYCUSP0136	NSYCUSP0027	NSYCUSP0049	NSYCUSP0061
NSYCU2K3P4RUL	NSYCUSP0011	NSYCUSP0136	NSYCUSP0027	NSYCUSP0049	NSYCUSP0062
NSYCU2KR	NSYCUSP0011	NSYCUSP0136	NSYCUSP0027	NSYCUSP0049	NSYCUSP0060
NSYCUX2KR	NSYCUSP0011	NSYCUSP0136	NSYCUSP0027	NSYCUSP0049	NSYCUSP0060
NSYCU3K3P4R	NSYCUSP0012	NSYCUSP0136	NSYCUSP0028	NSYCUSP0051	NSYCUSP0062
NSYCUX3K3P4R	NSYCUSP0012	NSYCUSP0136	NSYCUSP0028	NSYCUSP0051	NSYCUSP0062
NSYCU3K3P4RUL	NSYCUSP0012	NSYCUSP0136	NSYCUSP0028	NSYCUSP0051	NSYCUSP0062
NSYCU4K3P4R	NSYCUSP0012	NSYCUSP0137	NSYCUSP0029	NSYCUSP0051	NSYCUSP0063
NSYCUX4K3P4R	NSYCUSP0012	NSYCUSP0137	NSYCUSP0029	NSYCUSP0051	NSYCUSP0063
NSYCU4K3P4RUL	NSYCUSP0012	NSYCUSP0137	NSYCUSP0029	NSYCUSP0051	NSYCUSP0063









Reference	Frontal cover RAL 7035	Frontal cover stainless steel	Thermostat	Transformer	Mounting Kit (instruction + full seal + screws)
NSYCU400R	NSYCUSP0072	-	NSYCUSP0099	-	NSYCUSP0121
NSYCUX400R	-	NSYCUSP0090	NSYCUSP0099	-	NSYCUSP0121
NSYCU400RUL	NSYCUSP0072	-	NSYCUSP0144	-	NSYCUSP0121
NSYCU800R	NSYCUSP0073	-	NSYCUSP0099	-	NSYCUSP0122
NSYCUX800R	-	NSYCUSP0091	NSYCUSP0099	-	NSYCUSP0122
NSYCU800RUL	NSYCUSP0073	-	NSYCUSP0144	-	NSYCUSP0122
NSYCU1K2R	NSYCUSP0074	-	NSYCUSP0099	-	NSYCUSP0129
NSYCUX1K2R	-	NSYCUSP0092	NSYCUSP0099	-	NSYCUSP0129
NSYCU1K2RUL	NSYCUSP0074	-	NSYCUSP0144	-	NSYCUSP0129
NSYCU1K5R	NSYCUSP0074	-	NSYCUSP0099	-	NSYCUSP0129
NSYCUX1K5R	-	NSYCUSP0092	NSYCUSP0099	-	NSYCUSP0129
NSYCU1K5RUL	NSYCUSP0074	-	NSYCUSP0144	-	NSYCUSP0129
NSYCU2K3P4R	NSYCUSP0074	-	NSYCUSP0099	NSYCUSP0104	NSYCUSP0129
NSYCUX2K3P4R	-	NSYCUSP0092	NSYCUSP0099	NSYCUSP0104	NSYCUSP0129
NSYCU2K3P4RUL	NSYCUSP0074	-	NSYCUSP0144	NSYCUSP0147	NSYCUSP0129
NSYCU2KR	NSYCUSP0074	-	NSYCUSP0099	-	NSYCUSP0129
NSYCUX2KR	-	NSYCUSP0092	NSYCUSP0099	-	NSYCUSP0129
NSYCU3K3P4R	NSYCUSP0075	-	NSYCUSP0099	NSYCUSP0106	NSYCUSP0123
NSYCUX3K3P4R	-	NSYCUSP0093	NSYCUSP0099	NSYCUSP0106	NSYCUSP0123
NSYCU3K3P4RUL	NSYCUSP0075	-	NSYCUSP0144	NSYCUSP0148	NSYCUSP0123
NSYCU4K3P4R	NSYCUSP0075	-	NSYCUSP0099	NSYCUSP0105	NSYCUSP0123
NSYCUX4K3P4R	-	NSYCUSP0093	NSYCUSP0099	NSYCUSP0105	NSYCUSP0123
NSYCU4K3P4RUL	NSYCUSP0075	-	NSYCUSP0144	NSYCUSP0148	NSYCUSP0123

Selection table
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PB503041


P1030542-21

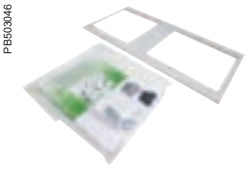

PB503041


PB503037

COOLING UNITS HEAVY DUTY					
Reference	**Evaporator battery**	**Evaporator fan (fan + capacitor)**	**Condenser battery**	**Condenser fan (fan + capacitor)**	**Compressor kit**
NSYCUHD400	NSYCUSP0002	NSYCUSP0042	NSYCUSP0158	NSYCUSP0042	NSYCUSP0055
NSYCUHD600	NSYCUSP0003	NSYCUSP0043	NSYCUSP0159	NSYCUSP0044	NSYCUSP0056
NSYCUHD800	NSYCUSP0004	NSYCUSP0043	NSYCUSP0160	NSYCUSP0044	NSYCUSP0057
NSYCUHD1K	NSYCUSP0004	NSYCUSP0043	NSYCUSP0161	NSYCUSP0044	NSYCUSP0057
NSYCUHD1K2P4	NSYCUSP0004	NSYCUSP0043	NSYCUSP0161	NSYCUSP0044	NSYCUSP0057
NSYCUHD1K6	NSYCUSP0006	NSYCUSP0044	NSYCUSP0162	NSYCUSP0138	NSYCUSP0059
NSYCUHD1K62P4	NSYCUSP0006	NSYCUSP0044	NSYCUSP0162	NSYCUSP0138	NSYCUSP0059
NSYCUHD2K3P4	NSYCUSP0006	NSYCUSP0136	NSYCUSP0163	NSYCUSP0138	NSYCUSP0061
NSYCUHD3K3P4	NSYCUSP0007	NSYCUSP0137	NSYCUSP0164	NSYCUSP0137	NSYCUSP0062
NSYCUHD4K3P4	NSYCUSP0007	NSYCUSP0137	NSYCUSP0165	NSYCUSP0137	NSYCUSP0063


P1030580-19


PB503043


PB503046

Reference	Frontal cover RAL 7035	Thermostat	Transformer	Mounting Kit (instruction + full seal + screws)
NSYCUHD400	NSYCUSP0167	NSYCUSP0100	-	NSYCUSP0153
NSYCUHD600	NSYCUSP0168	NSYCUSP0100	-	NSYCUSP0154
NSYCUHD800	NSYCUSP0169	NSYCUSP0100	-	NSYCUSP0155
NSYCUHD1K	NSYCUSP0169	NSYCUSP0100	-	NSYCUSP0155
NSYCUHD1K2P4	NSYCUSP0169	NSYCUSP0100	NSYCUSP0101	NSYCUSP0155
NSYCUHD1K6	NSYCUSP0170	NSYCUSP0100	-	NSYCUSP0156
NSYCUHD1K62P4	NSYCUSP0170	NSYCUSP0100	NSYCUSP0103	NSYCUSP0156
NSYCUHD2K3P4	NSYCUSP0170	NSYCUSP0100	NSYCUSP0104	NSYCUSP0156
NSYCUHD3K3P4	NSYCUSP0171	NSYCUSP0100	NSYCUSP0105	NSYCUSP0157
NSYCUHD4K3P4	NSYCUSP0171	NSYCUSP0100	NSYCUSP0105	NSYCUSP0157

Selection table
ClimaSys









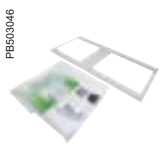


COOLING UNITS SLIM					
Reference	Evaporator battery	Evaporator fan (fan + capacitor)	Condenser battery	Condenser fan (fan + capacitor)	Compressor kit
NSYCUS1K1UL	NSYCUSP0130	NSYCUSP0136	NSYCUSP0133	NSYCUSP0136	NSYCUSP0059
NSYCUSX1K1UL	NSYCUSP0130	NSYCUSP0136	NSYCUSP0133	NSYCUSP0136	NSYCUSP0059
NSYCUS1K12P4UL	NSYCUSP0130	NSYCUSP0136	NSYCUSP0133	NSYCUSP0136	NSYCUSP0059
NSYCUSX1K12P4UL	NSYCUSP0130	NSYCUSP0136	NSYCUSP0133	NSYCUSP0136	NSYCUSP0059
NSYCUS1K5UL	NSYCUSP0131	NSYCUSP0136	NSYCUSP0133	NSYCUSP0138	NSYCUSP0059
NSYCUSX1K5UL	NSYCUSP0131	NSYCUSP0136	NSYCUSP0133	NSYCUSP0138	NSYCUSP0059
NSYCUS1K52P4UL	NSYCUSP0131	NSYCUSP0136	NSYCUSP0133	NSYCUSP0138	NSYCUSP0059
NSYCUSX1K52P4UL	NSYCUSP0131	NSYCUSP0136	NSYCUSP0133	NSYCUSP0138	NSYCUSP0059
NSYCUS2KUL	NSYCUSP0131	NSYCUSP0136	NSYCUSP0134	NSYCUSP0138	NSYCUSP0139
NSYCUSX2KUL	NSYCUSP0131	NSYCUSP0136	NSYCUSP0134	NSYCUSP0138	NSYCUSP0139
NSYCUS2K3P4UL	NSYCUSP0131	NSYCUSP0136	NSYCUSP0134	NSYCUSP0138	NSYCUSP0062
NSYCUSX2K3P4UL	NSYCUSP0131	NSYCUSP0136	NSYCUSP0134	NSYCUSP0138	NSYCUSP0062
NSYCUS2K5UL	NSYCUSP0132	NSYCUSP0137	NSYCUSP0135	NSYCUSP0137	NSYCUSP0140
NSYCUSX2K5UL	NSYCUSP0132	NSYCUSP0137	NSYCUSP0135	NSYCUSP0137	NSYCUSP0140
NSYCUS2K53P4UL	NSYCUSP0132	NSYCUSP0137	NSYCUSP0135	NSYCUSP0137	NSYCUSP0062
NSYCUSX2K53P4UL	NSYCUSP0132	NSYCUSP0137	NSYCUSP0135	NSYCUSP0137	NSYCUSP0062
NSYCUS3K2UL	NSYCUSP0132	NSYCUSP0137	NSYCUSP0135	NSYCUSP0137	NSYCUSP0141
NSYCUSX3K2UL	NSYCUSP0132	NSYCUSP0137	NSYCUSP0135	NSYCUSP0137	NSYCUSP0141
NSYCUS3K23P4UL	NSYCUSP0132	NSYCUSP0137	NSYCUSP0135	NSYCUSP0137	NSYCUSP0063
NSYCUSX3K23P4UL	NSYCUSP0132	NSYCUSP0137	NSYCUSP0135	NSYCUSP0137	NSYCUSP0063













Reference	Frontal cover RAL 7035	Frontal cover stainless steel	Thermostat	Transformer	Mounting kit (instruction + full seal + screws)	Metal frame kit (frame + seal + screws)	Metal frame kit stainless steel (frame + seal + screws)
NSYCUS1K1UL	NSYCUSP0142	-	NSYCUSP0144	-	NSYCUSP0149	NSYCUSP0152	NSYCUSP0166
NSYCUSX1K1UL	-	NSYCUSP0150	NSYCUSP0144	-	NSYCUSP0149	NSYCUSP0152	NSYCUSP0166
NSYCUS1K12P4UL	NSYCUSP0142	-	NSYCUSP0144	NSYCUSP0145	NSYCUSP0149	NSYCUSP0152	NSYCUSP0166
NSYCUSX1K12P4UL	-	NSYCUSP0150	NSYCUSP0144	NSYCUSP0145	NSYCUSP0149	NSYCUSP0152	NSYCUSP0166
NSYCUS1K5UL	NSYCUSP0142	-	NSYCUSP0144	-	NSYCUSP0149	NSYCUSP0152	NSYCUSP0166
NSYCUSX1K5UL	-	NSYCUSP0150	NSYCUSP0144	-	NSYCUSP0149	NSYCUSP0152	NSYCUSP0166
NSYCUS1K52P4UL	NSYCUSP0142	-	NSYCUSP0144	NSYCUSP0146	NSYCUSP0149	NSYCUSP0152	NSYCUSP0166
NSYCUSX1K52P4UL	-	NSYCUSP0150	NSYCUSP0144	NSYCUSP0146	NSYCUSP0149	NSYCUSP0152	NSYCUSP0166
NSYCUS2KUL	NSYCUSP0142	-	NSYCUSP0144	-	NSYCUSP0149	NSYCUSP0152	NSYCUSP0166
NSYCUSX2KUL	-	NSYCUSP0150	NSYCUSP0144	-	NSYCUSP0149	NSYCUSP0152	NSYCUSP0166
NSYCUS2K3P4UL	NSYCUSP0142	-	NSYCUSP0144	NSYCUSP0147	NSYCUSP0149	NSYCUSP0152	NSYCUSP0166
NSYCUSX2K3P4UL	-	NSYCUSP0150	NSYCUSP0144	NSYCUSP0147	NSYCUSP0149	NSYCUSP0152	NSYCUSP0166
NSYCUS2K5UL	NSYCUSP0143	-	NSYCUSP0144	-	NSYCUSP0149	NSYCUSP0152	NSYCUSP0166
NSYCUSX2K5UL	-	NSYCUSP0151	NSYCUSP0144	-	NSYCUSP0149	NSYCUSP0152	NSYCUSP0166
NSYCUS2K53P4UL	NSYCUSP0143	-	NSYCUSP0144	NSYCUSP0148	NSYCUSP0149	NSYCUSP0152	NSYCUSP0166
NSYCUSX2K53P4UL	-	NSYCUSP0151	NSYCUSP0144	NSYCUSP0148	NSYCUSP0149	NSYCUSP0152	NSYCUSP0166
NSYCUS3K2UL	NSYCUSP0143	-	NSYCUSP0144	-	NSYCUSP0149	NSYCUSP0152	NSYCUSP0166
NSYCUSX3K2UL	-	NSYCUSP0151	NSYCUSP0144	-	NSYCUSP0149	NSYCUSP0152	NSYCUSP0166
NSYCUS3K23P4UL	NSYCUSP0143	-	NSYCUSP0144	NSYCUSP0148	NSYCUSP0149	NSYCUSP0152	NSYCUSP0166
NSYCUSX3K23P4UL	-	NSYCUSP0151	NSYCUSP0144	NSYCUSP0148	NSYCUSP0149	NSYCUSP0152	NSYCUSP0166

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Schneider Electric Industries SAS

35, rue Joseph Monier
CS 30323
92506 Rueil Malmaison Cedex
France

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