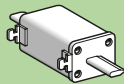
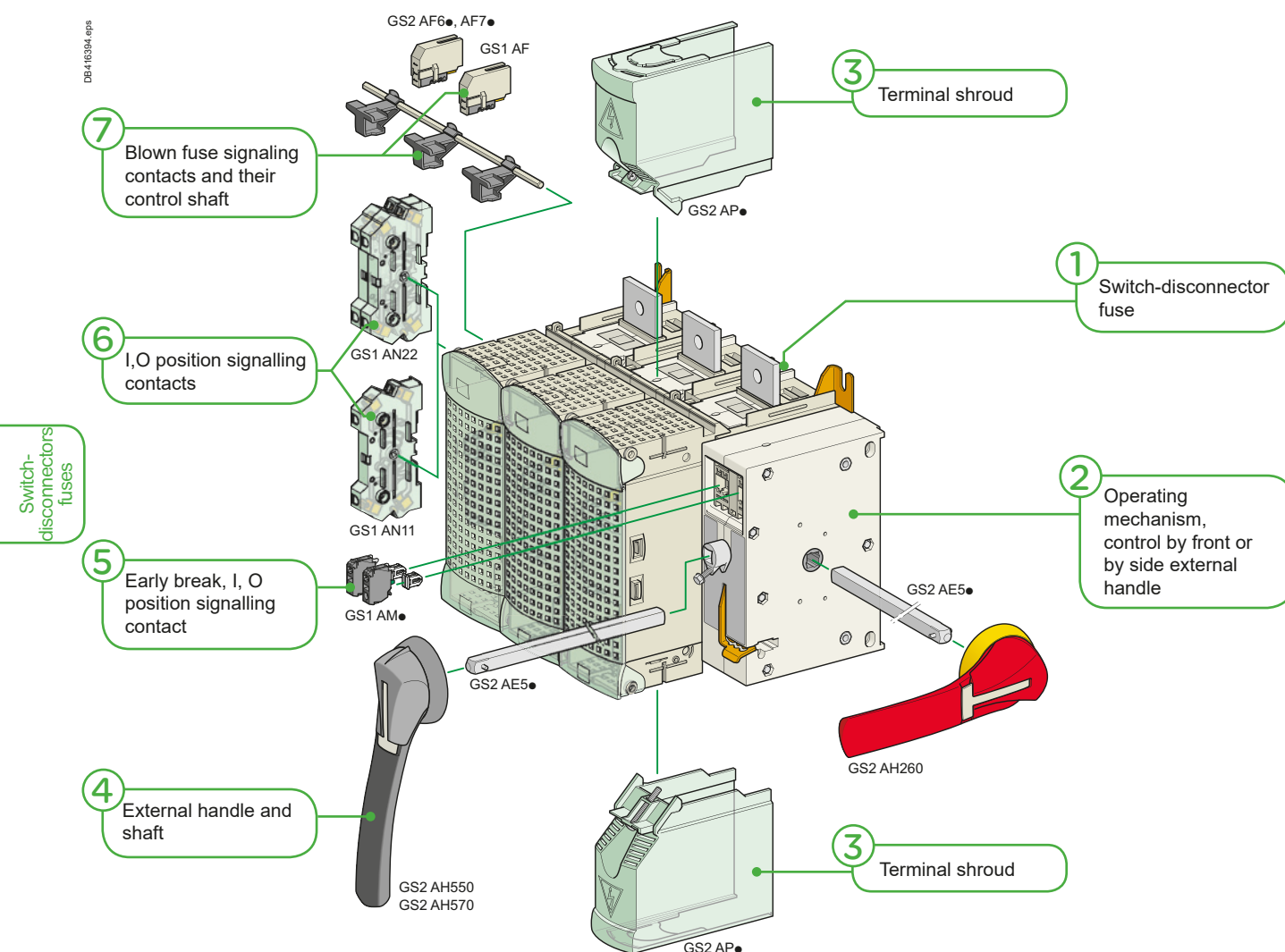


Introduction			B5/2
TeSys GS Switch-disconnector fuses			
Type of product	Range		Pages
IEC - Switch-disconnector fuses For NFC / DIN fuses	From 32 to 1250 A		B5/4
IEC - Switch-disconnector fuses For BS fuses	From 32 to 1250 A		B5/6
UL - Switch-disconnector fuses For CC / J fuses	From 30 to 800 A		B5/8
NFC - Cartridge fuses Type aM, gG	From 0.16 to 125 A		B5/10
DIN - Cartridge fuses Type aM, gG	From 10 to 1250 A		B5/11
Auxiliary contacts for IEC and UL switch-disconnector fuses	From 32 to 1250 A		B5/12
Handles	From 32 to 1250 A		B5/13
Other accessories	From 32 to 1250 A		B5/14
Technical Data for Designers			B5/15

A customizable functional block

Whatever its rating, the switch-disconnector fuse fits the need: particular position of the handle, triggering of an automatic control before full opening, enhanced protection of terminals...



Customizable

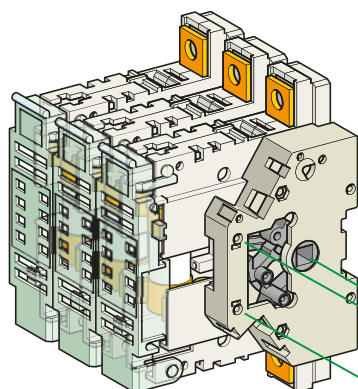
GS2630 A switch-disconnector fuse

- ① **Switch-disconnector fuse**
 - NFC/DIN or BS fuse compatible
 - Enhanced isolation between poles
 - On-load making/breaking with double break isolation of the power circuit
- ② **Operating mechanism**
 - For one front or side external handle, right or left side
 - Cavity for early-break contacts
- ③ **Terminal shrouds**
 - For use when the switch-disconnector fuse is installed outside an enclosure or when the operating voltage is over 500 V AC
- ④ **Operating handle**
 - Padlockable in open position
- ⑤ **GS1AN●● Position signalling contacts**
 - Synchronized with the poles operation
- ⑥ **GS1AM●●● Early-break signalling contacts**
 - Activated before the poles are opened
- ⑦ **GS1AF●● Blown fuse signalling contacts**
 - A missing fuse is also indicated

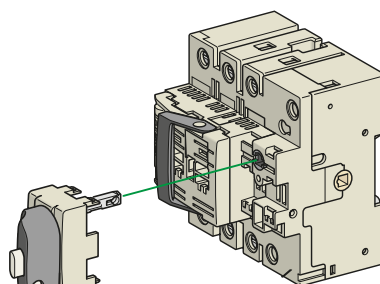
Simplicity of the direct operating

The mounting of an operating handle directly on the side of the switch-disconnector fuse is a simple operation. This handle will be for use by qualified personnel only. As the mechanical design is simplified, the manoeuvre will be immediately understood by the operator. Each handle can be padlocked in open position. Locking device for 3 padlocks.

DB416395 eps



DB416396 eps



Position of the handle, a free choice

GS2DB3 - 32 A switch-disconnector fuse
Direct front operating

GS1JD3 - 100 A switch-disconnector fuse
Direct lateral operating

GS1 AH01
GS1 AH02

Switch-disconnectors fuses

Performance remote operating

Located on the front or side panel of an enclosure, the operating handle provide complementary features:

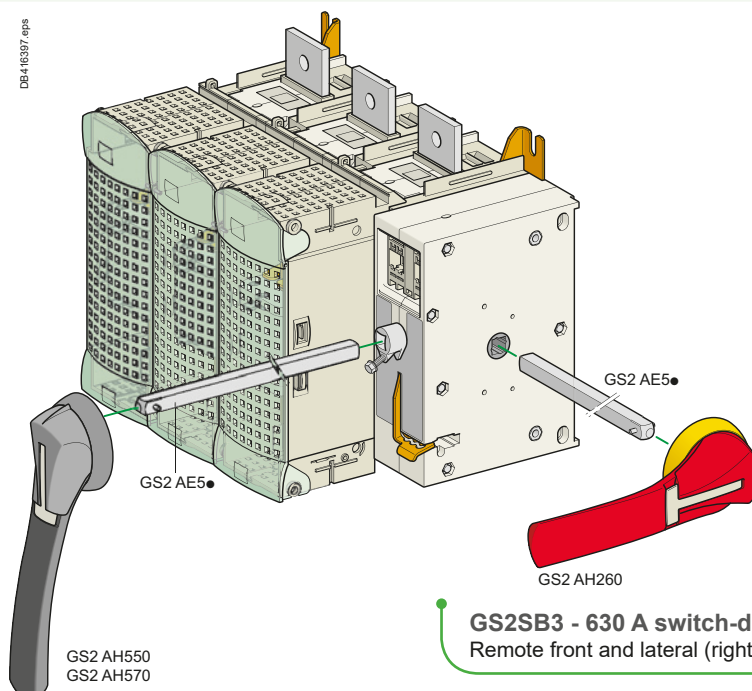
- simple (IP55) or reinforced (IP65) protection against dust
- intermediate "Test" position
- door interlock when the handle is in "Close" position, opening by mean of a special tool is needed for opening.
- optional key-operated handle lock

The handles are available in different lengths. They are chosen according the operating effort which depends on the rating of the switch-disconnector fuse.

The drive shaft can be cut to the ideal length.

The choice of a red and yellow handle (CNOMO standard) will identify an "Emergency Stop handle" among others handles, generally black and gray.

DB416397 eps



GS2 AH550
GS2 AH570

GS2SB3 - 630 A switch-disconnector fuse
Remote front and lateral (right only) operating

TeSys

TeSys GS Switch-disconnector-fuses

Product references

IEC - For NFC / DIN fuses - From 32 to 1250 A

															
		GS1DD3		GS1FD3		GS1KD4									
Rating		A		32		50		63		100		125			
Number of poles		3		3+N		3		4		3		4			
Fuse size		10 x 38		14 x 51		Size 000		22 x 58		22 x 58					
For direct operators															
Switch-disconnector fuses reference		GS1DD3 GS1DD4		GS1FD3 GS1FD4		GS1GD3 GS1GD4		GS1JD3 GS1JD4		GS1KD3 GS1KD4					
Handle		Black		GS1AH103		GS1AH01		GS1AH02							
Auxiliary contacts		O/I + Test		1NO + 1NC		-		GS1AN11							
				2NO + 2NC		-		GS1AN22							
		O/I + early break		GS1AM111 (1 OF)		GS1AM1 (1 OF)									
				GS1AM211 (2 OF)		GS1AM2 (2 OF)									
Blown fuse		-		GS1AF1		-		GS1AF23		GS1AF24		GS1AF23		GS1AF24	
For external left hand side-mounted operators															
Switch-disconnector fuses reference		GS1DD3 GS1DD4		GS2FG3 GS2FG4		GS2GG3 GS2GG4		GS2JG3 GS2JG4		GS2KG3 GS2KG4					
Handle		Black/Grey		IP65		GS2AH310		GS2AH330							
		Red/Yellow		IP65		GS2AH320		GS2AH340							
Auxiliary contacts		O/I + Test		1NO + 1NC		-		GS1AN11G							
				2NO + 2NC		-		GS1AN22G							
		O/I + early break		1NO		GS1AM110									
				2NO		GS1AM101									
Blown fuse		-		GS1AF1		-		GS1AF23		GS1AF24		GS1AF23		GS1AF24	
For external front-mounted and right-hand side-mounted operators															
Switch-disconnector fuses reference		GS1DD3 GS1DD4		GS2F3 GS2F4		GS2G3 GS2G4		GS2J3 GS2J4		GS2K3 GS2K4					
Front-mounted handle		Black/Grey		IP55		GS2AH515		GS2AH535							
		Black/Grey		IP65		GS2AH510		GS2AH530							
		Red/Yellow		IP65		GS2AH520		GS2AH540							
Front-mounted handle + Test position		Black/Grey		IP65		GS2AHT510		GS2AHT530							
		Red/Yellow		IP65		GS2AHT520		GS2AHT540							
RH side-mounted handle		Black/Grey		IP55		GS2AH215		GS2AH235							
		Black/Grey		IP65		GS2AH210		GS2AH230							
		Red/Yellow		IP65		GS2AH220		GS2AH240							
Auxiliary contacts		O/I + Test		1NO + 1NC		-		GS1AN11							
				2NO + 2NC		-		GS1AN22							
				1NO + 1NC + test		-		GS1ANT11							
				2NO + 2NC + test		-		GS1ANT22							
				O/I + Test + early break		1NO		-		GS1AM110					
				1NC		-		GS1AM101							
Blown fuse		-		GS1AF1		-		GS1AF23		GS1AF24		GS1AF23		GS1AF24	
Accessories															
Shaft for external handle (mm)		200		GS2AE82		GS2AE22									
		320		GS2AE8		GS2AE2									
		400		GS2AE81		GS2AE21									
Terminal shroud		Integrated						GS1AP33 (3P), GS1AP34 (4P)							
Dimensions															
		Direct front-mounted version		page B5/23		page B5/24									
		External front-mounted version		page B5/23		page B5/25									

Handles





GS1KKD3



GS1LLD4



GS1ND3

125

3 4
Size 00

160

3 4 3 4
Size 00 Size 0

250

3 4
Size 1

400

3 4
Size 2

630

3 4
Size 3

1250

3 4
Size 4

GS1KKD3	GS1KKD4	GS1LLD3	GS1LLD4	GS1LD3	GS1LD4	GS1ND3	GS1ND4	GS1QQD3	GS1QQD4	GS2S3	GS2S4	GS2V3	GS2V4
GS1AH02										GS2AH104		GS2AH105	
GS1AN11													
GS1AN22													
GS1AM1 (1 OF)										GS1AM110 (1 NO)			
GS1AM2 (2 OF)										GS1AM101 (1 NC)			
-				GS1AF33	GS1AF34	GS1AF43	GS1AF44	GS1AF43	GS1AF44	GS2AF63	GS2AF64	GS2AF73	GS2AF74

GS2KKG3	GS2KKG4	GS2LLG3	GS2LLG4	GS2LG3	GS2LG4	GS2NG3	GS2NG4	GS2QQG3	GS2QQG4	GS2SG3	GS2SG4	GS2VG3	GS2VG4
GS2AH330										GS2AH350			
GS2AH340										GS2AH360			
GS1AN11G													
GS1AN22G													
GS1AM110													
GS1AM101													
-				GS1AF33	GS1AF34	GS1AF43	GS1AF44	GS1AF43	GS1AF44	GS2AF63	GS2AF64	GS2AF73	GS2AF74

GS2KK3	GS2KK4	GS2LL3	GS2LL4	GS2L3	GS2L4	GS2N3	GS2N4	GS2QQ3	GS2QQ4	GS2S3	GS2S4	GS2V3	GS2V4
GS2AH535										-			
GS2AH530										GS2AH550		GS2AH570	
GS2AH540										GS2AH560		GS2AH580	
GS2AHT530										-			
GS2AHT540										-			

GS2AH235										-			
GS2AH230										GS2AH250			
GS2AH240										GS2AH260			
GS1AN11													
GS1AN22													
GS1ANT11										-			
GS1ANT22										-			
GS1AM110										-			
GS1AM101										-			
-				GS1AF33	GS1AF34	GS1AF43	GS1AF44	GS1AF43	GS1AF44	GS2AF63	GS2AF64	GS2AF73	GS2AF74

GS2AE22										GS2AE52			
GS2AE2										GS2AE5			
GS2AE21										GS2AE51			
GS1AP33 (3P), GS1AP34 (4P)								GS1AP43 (3P), GS1AP44 (4P)		GS2AP73	GS2AP64	GS2AP83	GS2AP84

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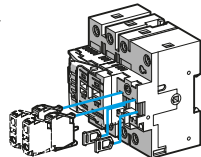
page B5/25

page B5/26

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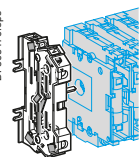
Auxiliary contacts

DF588473.eps



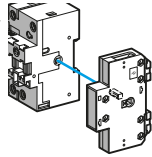
GS1AM1●●

DF588476.eps



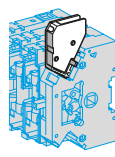
GS1AN●●●

DF588474.eps



GS1AM●11

DF588475.eps



GS1AM●



See details on auxiliary contacts, page B5/12.

Maximal number of auxiliary contacts

Switch rating (A)	Standard configuration	With additional bracket	Reference of additional bracket
30...32	4	4	GS1AD10 ⁽¹⁾
32...400	4	4	GS2AD20 ⁽²⁾
200...400	8	8	GS2AD20 ⁽²⁾
630...1250	8	-	-

⁽¹⁾ Only compatible with switch disconnector fuses starting by GS1D●●⁽²⁾ Only compatible with switch disconnector fuses starting by GS2●●●

IEC - For BS fuses - From 32 to 1250 A



GS1DDB3



GS2JB3

Rating	A	32	63	100	160
Number of poles		3 3+N	3 4	3 4	3 4
Fuse size		A1	A1	A2-A3 A4	A4 B1-B2

For direct operators

Switch-disconnector fuses reference	GS1DDB3	GS1DDB4	-
Handle Black	GS1AH103	-	-
Auxiliary contacts O/I + Test 1NO + 1NC	-	-	-
2NO + 2NC	-	-	-
O/I + early break	GS1AM111 (1 OF)	-	-
	GS1AM211 (2 OF)	-	-

For external front-mounted and right-hand side-mounted operators

Switch-disconnector fuses reference	GS1DDB3	GS1DDB4	GS2DB3	GS2DB4	GS2GB3	GS2GB4	GS2JB3	GS2JB4	GS2LLB3	GS2LLB4	GS2LB3	GS2LB4
Front-mounted handle Black/Grey IP55	GS2AH515						GS2AH535					
Black/Grey IP65	GS2AH510						GS2AH530					
Red/Yellow IP65	GS2AH520						GS2AH540					
Front-mounted handle Black/Grey IP65	GS2AHT510						GS2AHT530					
Red/Yellow IP65	GS2AHT520						GS2AHT540					
RH side-mounted handle Black/Grey IP55	GS2AH215						GS2AH235					
Black/Grey IP65	GS2AH210						GS2AH230					
Red/Yellow IP65	GS2AH220						GS2AH240					
Auxiliary contacts O/I + Test 1NO + 1NC	-		GS1AN11									
2NO + 2NC	-		GS1AN22									
1NO + 1NC + test	-		GS1ANT11									
2NO + 2NC + test	-		GS1ANT22									
O/I + Test + early break 1NO	GS1AM110 - max 4 contacts											
1NC	GS1AM101 - max 4 contacts											

Accessories

Shaft for external handle (mm)	200	GS2AE82	GS2AE22	
	320	GS2AE8	GS2AE2	
	400	GS2AE81	GS2AE21	
Terminal shroud	Integrated		GS1AP33 (3P), GS1AP34 (4P)	

Dimensions

Direct front-mounted version	page B5/23	page B5/24	
External front-mounted version	page B5/23	page B5/25	



GS2MMB3



GS2SB3

	200		250		315		400		630		800		1250	
	3	4	3	4	3	4	3	4	3	4	3	4	3	4
	B1-B2		B1...B3		B1...B3		B1...B4		C1-C2		C1...C3		D1	
	-								-				-	
	-								-				-	
	-								-					
	-								-					
	-								-					
	-								-					
	GS2MMB3	GS2MMB4	GS2NB3	GS2NB4	GS2PPB3	GS2PPB4	GS2QQB3	GS2QQB4	GS2SB3	GS2SB4	GS2TB3	GS2TB4	GS2VB3	GS2VB4
	GS2AH535								-					
	GS2AH530								GS2AH550				GS2AH570	
	GS2AH540								GS2AH560				GS2AH580	
	GS2AHT530								-					
	GS2AHT540								-					
	GS2AH235								-					
	GS2AH230								GS2AH250					
	GS2AH240								GS2AH260					
	GS1AN11													
	GS1AN22													
	GS1ANT11								-					
	GS1ANT22								-					
	GS1AM110 - max 8 contacts													
	GS1AM101 - max 8 contacts													
	GS2AE22								GS2AE52					
	GS2AE2								GS2AE5					
	GS2AE21								GS2AE51					
	GS1AP43 (3P), GS1AP44 (4P)								GS2AP73 (3P), GS2AP64 (4P)				GS2AP83	GS2AP84
	page B5/24								page B5/26					
	page B5/25								page B5/27					

Switch-disconnectors
fuses

TeSys

TeSys GS Switch-disconnector-fuses

Product references

UL - For CC and J fuses - From 32 to 800 A



GS1DU3



GS2GU3N

Rating			30 Compact		30		60		100		
Number of poles			3		3		3		3		
Fuse size			CC	J	CC	J	J	J			
For direct operators											
Switch-disconnector fuses reference			GS1DDU3	GS1DU3							
Handle	Black		GS1AH106	-							
Auxiliary contacts	O/I + Test	1NO + 1NC									
		2NO + 2NC									
	O/I + early break	1NO	GS1AM110 + GS1AD10								
		1NC	GS1AM101 + GS1AD10								
For external front-mounted operators											
Switch-disconnector fuses reference			GS1DDU3	GS1DU3	GS2EEU3	GS2EU3N	GS2GU3N	GS2JU3N			
Front-mounted handle	Black/Grey	1,3R, 12	GS2AH110		GS2AH130						
		4, 4X	GS2AH410		GS2AH430						
	Red/Yellow	1,3R, 12	GS2AH120		GS2AH140						
		4, 4X	GS2AH420		GS2AH440						
Front-mounted handle + Test position	Black/Grey	1,3R, 12	GS2AHT110		GS2AHT130						
		4, 4X	GS2AHT410		GS2AHT430						
	Red/Yellow	1,3R, 12	GS2AHT120		GS2AHT140						
		4, 4X	GS2AHT420		GS2AHT440						
Auxiliary contacts	O/I + Test	1NO + 1NC			GS1AN11						
		2NO + 2NC			GS1AN22						
		1NO + 1NC + test			GS1ANT11						
		2NO + 2NC + test			GS1ANT22						
	O/I + Test + early break	1NO	GS1AM110 - max 4 contacts ⁽¹⁾		GS1AM110 - max 4 contacts ⁽¹⁾						
		1NC	GS1AM101 - max 4 contacts ⁽¹⁾		GS1AM101 - max 4 contacts ⁽¹⁾						
Accessories											
Shaft for external handle (mm)	320	GS2AE8		GS2AE2							
	400	GS2AE81		GS2AE21							
Terminal shroud		Integrated									
Dimensions											
	Direct front-mounted version		page B5/23					page B5/24			
	External front-mounted version		page B5/23					page B5/25			

(1) 4 more contacts allowed with GS1AD10 additional bracket.



GS2QU3N

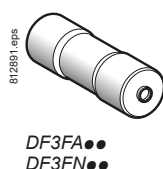
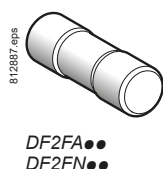
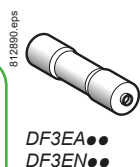
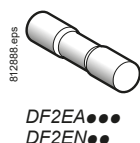


GS2TU3

	200	400	600	800
	3	3	3	3
	J	J	J	J
	-	-	-	-
	-	-	-	-
	-	-	-	-
	-	-	-	-
	-	-	-	-
	-	-	-	-
	GS2MU3N	GS2QU3N	GS2SU3	GS2TU3
	GS2AH130		-	
	GS2AH430		GS2AH150	
	GS2AH140		-	
	GS2AH440		GS2AH160	
	GS2AHT130		-	
	GS2AHT430		-	
	GS2AHT140		-	
	GS2AHT440		-	
	GS1AN11			
	GS1AN22			
	GS1ANT11		-	
	GS1ANT22		-	
	GS1AM110 - max 8 contacts ⁽¹⁾		GS1AM110 - max 8 contacts only	
	GS1AM101 - max 8 contacts ⁽¹⁾		GS1AM101 - max 8 contacts only	
	GS2AE2		GS2AE5	
	GS2AE21		GS2AE51	
	GS2AP43	GS2AP53	GS2AP73	
	page B5/24		page B5/26	
	page B5/25		page B5/27	



Switch-
disconnectors
fuses



NFC Cartridge fuses - Type aM / gG - From 0.16 to 125 A							
Fuse type	Maximum rated voltage	Rating	Sold in lots of	Fuses without striker		Fuses with striker	
	V ~	A		Unit reference		Unit reference	
				aM	gG	aM	gG
Cylindrical 8.5 x 31.5	400	1	10	DF2BA0100	DF2BN0100	-	-
		2	10	DF2BA0200	DF2BN0200	-	-
		4	10	DF2BA0400	DF2BN0400	-	-
		6	10	DF2BA0600	DF2BN0600	-	-
		8	10	DF2BA0800	DF2BN0800	-	-
		10	10	DF2BA1000	DF2BN1000	-	-
		12	10	-	DF2BN1200	-	-
		16	10	-	DF2BN1600	-	-
		20	10	-	DF2BN2000	-	-
Cylindrical 10 x 38	500	0.16	10	DF2CA001	-	-	-
		0.25	10	DF2CA002	-	-	-
		0.50	10	DF2CA005	-	-	-
		1	10	DF2CA01	-	-	-
		2	10	DF2CA02	DF2CN02	-	-
		4	10	DF2CA04	DF2CN04	-	-
		6	10	DF2CA06	DF2CN06	-	-
		8	10	DF2CA08	DF2CN08	-	-
		10	10	DF2CA10	DF2CN10	-	-
		12	10	DF2CA12	DF2CN12	-	-
		16	10	DF2CA16	DF2CN16	-	-
		20	10	-	DF2CN20	-	-
	400	20	10	DF2CA20	-	-	-
		25	10	DF2CA25	DF2CN25	-	-
		32	10	DF2CA32	DF2CN32	-	-
Cylindrical 14 x 51	690	0.25	10	DF2EA002	-	-	-
		0.50	10	DF2EA005	-	-	-
	500	1	10	DF2EA01	-	-	-
		2	10	DF2EA02	-	DF3EA02	-
		4	10	DF2EA04	DF2EN04	DF3EA04	DF3EN04
		6	10	DF2EA06	DF2EN06	DF3EA06	DF3EN06
		8	10	DF2EA08	-	DF3EA08	-
		10	10	DF2EA10	DF2EN10	DF3EA10	DF3EN10
		12	10	DF2EA12	-	DF3EA12	-
		16	10	DF2EA16	DF2EN16	DF3EA16	DF3EN16
		20	10	DF2EA20	DF2EN20	DF3EA20	DF3EN20
		25	10	DF2EA25	DF2EN25	DF3EA25	DF3EN25
		32	10	DF2EA32	DF2EN32	DF3EA32	DF3EN32
		40	10	DF2EA40	DF2EN40	DF3EA40	DF3EN40
	400	50	10	DF2EA50	DF2EN50	DF3EA50	-
Cylindrical 22 x 58	690	4	10	DF2FA04	-	DF3FA04	-
		6	10	DF2FA06	-	DF3FA06	-
		8	10	DF2FA08	-	DF3FA08	-
		10	10	DF2FA10	DF2FN10	DF3FA10	DF3FN10
		16	10	DF2FA16	-	DF3FA16	-
		20	10	DF2FA20	DF2FN20	DF3FA20	DF3FN20
		25	10	DF2FA25	DF2FN25	DF3FA25	DF3FN25
		32	10	DF2FA32	DF2FN32	DF3FA32	DF3FN32
		40	10	DF2FA40	DF2FN40	DF3FA40	DF3FN40
		50	10	DF2FA50	DF2FN50	DF3FA50	DF3FN50
	500	63	10	DF2FA63	DF2FN63	DF3FA63	DF3FN63
		80	10	DF2FA80	DF2FN80	DF3FA80	DF3FN80
		100	10	DF2FA100	DF2FN100	DF3FA100	DF3FN100
	400	125	10	DF2FA125	-	DF3FA125	-

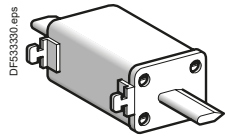


For protection of equipment with current peaks
For protection of circuits without significant current peaks

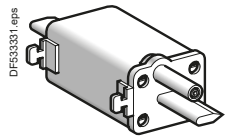
TeSys

TeSys GS Switch-disconnector-fuses

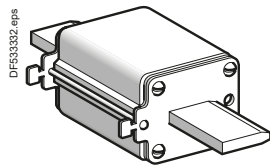
Product references



DF2GA.....
DF2GN.....



DF4GA.....
DF4GN.....



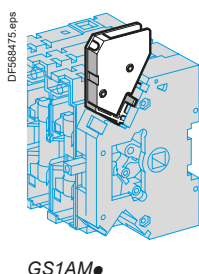
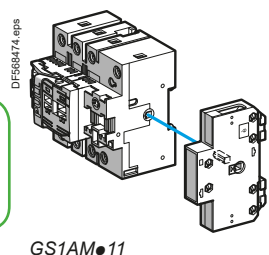
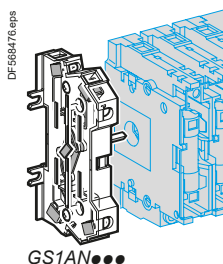
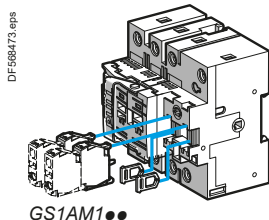
DF2JA.....
DF2JN.....

DIN Cartridge fuses - Type aM /gG - From 10 to 1250 A								
Fuse type	Maximum rated voltage	Rating	Sold in lots of		Fuses without striker		Fuses with striker	
					Unit reference		Unit reference	
	V ~	A	aM	gG	aM	gG	aM	gG
Blade size 000	690	10	-	10	-	DF2FGN10	-	-
		16	3	10	DF2FGA16	DF2FGN16	-	-
		20	3	10	DF2FGA20	DF2FGN20	-	-
		25	3	10	DF2FGA25	DF2FGN25	-	-
		32	3	10	DF2FGA32	DF2FGN32	-	-
		40	3	10	DF2FGA40	DF2FGN40	-	-
		50	3	10	DF2FGA50	DF2FGN50	-	-
		63	3	10	DF2FGA63	DF2FGN63	-	-
Blade size 00	690	80	-	10	-	DF2FGN80	-	-
		80	3	-	DF2FGA80	-	-	-
		100	3	10	DF2FGA100	DF2FGN100	-	-
		125	3	10	DF2FGA125	DF2FGN125	-	-
Blade size 0	690	160	-	10	-	DF2FGN160	-	-
		50	3	3	DF2GA1051	DF2GN1051	-	-
		63	3	3	DF2GA1061	DF2GN1061	-	-
		80	3	3	DF2GA1081	DF2GN1081	-	-
		100	3	3	DF2GA1101	DF2GN1101	-	-
		125	3	3	DF2GA1121	DF2GN1121	DF4GA1121	-
		160	3	3	DF2GA1161	DF2GN1161	DF4GA1161	-
		500	125	-	3	-	-	DF4GN1121
Blade size 1	690	160	-	3	-	-	-	DF4GN1161
		200	3	-	DF2GA1201	-	DF4GA1201	-
		160	3	3	DF2HA1161	DF2HN1161	-	-
		200	3	3	DF2HA1201	DF2HN1201	DF4HA1201	DF4HN1201
		250	3	-	DF2HA1251	-	DF4HA1251	-
Blade size 2	500	250	-	3	-	DF2HN1251	-	DF4HN1251
		315	3	-	DF2HA1311	-	DF4HA1311	-
		250	3	3	DF2JA1251	DF2JN1251	-	-
		315	3	3	DF2JA1311	DF2JN1311	DF4JA1311	DF4JN1311
		400	3	-	DF2JA1401	-	DF4JA1401	-
Blade size 3	690	400	-	3	-	DF2JN1401	-	DF4JN1401
		500	3	-	DF2JA1501	-	DF4JA1501	-
		400	3	-	DF2KA1401	-	-	-
		500	3	3	DF2KA1501	-	DF4KA1501	DF4KN1501
		500	-	3	-	DF2KN1501	-	-
Blade size 4	690	630	3	3	DF2KA1631	DF2KN1631	DF4KA1631	DF4KN1631
		800	1	3	DF2LA1801	-	DF4LA1801	DF4LN1801
		1000	1	-	DF2LA1101	-	DF4LA1101	-
		800	-	1	-	DF2LN1801	-	-
		1000	-	1	-	DF2LN1101	-	DF4LN1101
Blade size 4	500	1250	1	1	DF2LA1251	DF2LN1251	DF4LA1251	DF4LN1251

Switch-disconnectors fuses



For protection of equipment with current peaks
For protection of circuits without significant current peaks



Auxiliary contacts for IEC and UL switch-disconnector-fuses

Auxiliary early break and/or O, I and Test position signalling contacts ^{(1) (2) (3)}

Switch rating	Contact type	Type of operator	Rated operating current I _e (A)		Reference
A (CEI)	A (UL)		< 24 V DC	< 240 V AC	
32...1250	30 Compact	1 N/O	2.8	3	GS1AM110
	30...800	1 N/C	2.8	3	GS1AM101

Auxiliary O, I and Test position signalling contacts ^{(3) (5)}

Switch rating	Contact type	Type of operator	Rated operating current I _e (A)		Reference
A (CEI)	A (UL)		< 24 V DC	< 240 V AC	

Auxiliary O and I position signalling contacts

50...1250	30...800	1 N/C + 1 N/O	External, front or RH side-mounted Direct	—	10	GS1AN11
			External, LH side	—	10	GS1AN11G*
		2 N/C + 2 N/O	External, front or RH side-mounted Direct	—	10	GS1AN22
			External, LH side	—	10	GS1AN22G*

Auxiliary O, I and Test position signalling contacts ⁽³⁾

50...400	30...400	1 N/C + 1 N/O	External, front side-mounted	—	10	GS1ANT11
		2 N/C + 2 N/O	External, front side-mounted	—	10	GS1ANT22

Auxiliary early break O and I position signalling contacts

Switch rating	Contact type	Type of operator	Rated operating current I _e (A)		Reference
A (CEI)			< 24 V DC	< 240 V AC	
32	1 C/O	—	12	4	GS1AM111*
	2 C/O	—	12	4	GS1AM211*
50...400	1 C/O	Direct, RH side	12	4	GS1AM1*
	2 C/O	Direct, RH side	12	4	GS1AM2*

Auxiliary "blown fuse" signalling contacts for use with NF C and DIN fuses ⁽⁶⁾

Contact type	Switch rating	Fuse size	Number of poles	Rated operating current I _e (A)		Reference
	A (CEI)			< 24 V DC	< 240 V AC	
1 st C/O	50	14 x 51	3 or 4	12	4	GS1AF1*
	100 and 125	22 x 58	3	12	4	GS1AF23*
			4	12	4	GS1AF24*
	160	Size 0	3	12	4	GS1AF33*
			4	12	4	GS1AF34*
	250 and 400	Size 1 and Size 2	3	12	4	GS1AF43*
			4	12	4	GS1AF44*
	630	Size 3	3	12	4	GS2AF63*
			4	12	4	GS2AF64*
	1250	Size 4	3	12	4	GS2AF73*
			4	12	4	GS2AF74*
2 nd C/O	50...1250	—	3 or 4	12	4	GS1AF*

(*) Not for UL switch-disconnector.

(1) For 32 A (CEI), 30 (UL) switch-disconnector-fuses, these auxiliary contacts allow:

- early break and O and I position signalling,
- O, I and Test position signalling,
- O and I position signalling,
- Test position signalling.

For 50 to 400 A (CEI), 30-400 A (UL) switch-disconnector-fuses, they allow:

- early break,
- O and I position signalling,
- O, I and Test position signalling,
- Test position signalling.

For 630 and 1250 A (CEI), 630 and 800 A (UL) switch-disconnector-fuses, they allow:

- early break and O and I position signalling,

(2) Maximum number of auxiliary contacts:

Switch rating	Standard	With additional bracket	Reference of additional bracket
A (CEI)	A (UL)		
32 ⁽⁷⁾	30 Compact	CC 4	4 + 4
		J 2	2 + 4
32 ⁽⁸⁾ ...160	30...100	4	4 + 4
200...400	200 and 400	8	8 + 4
630...1250	600 and 800	8	8

(3) The Test position allows testing of the control circuits off-load. Auxiliary contacts GS1AM110, GS1AM101 and GS1ANT●● only allow the test function with external handles GS2AHT●●●.

(4) These auxiliary contacts can also be used with 630, 800 and 1250 A switch-disconnector-fuses fitted with a direct front-mounted operator.

(5) Reversible add-on attachments for converting an N/C contact to an N/O contact and vice versa.

(6) For striker fuses (BS fuses are not available with striker).

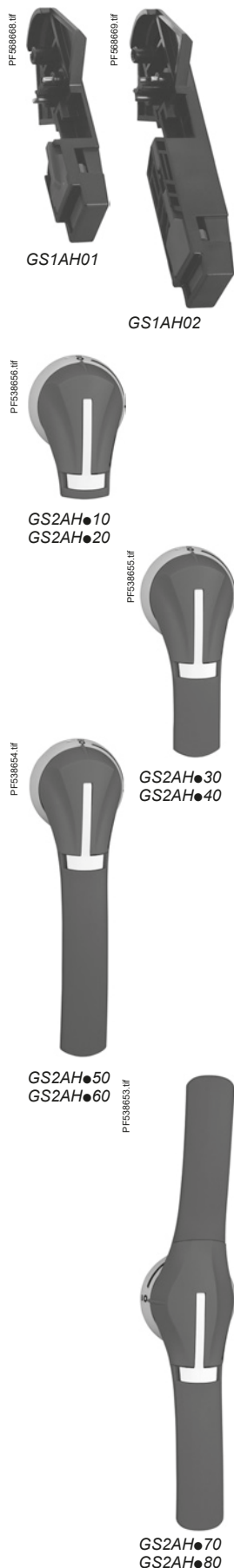
(7) For GS1DDB3 fuse switch disconnector only.

(8) For 32 A: for fuse switch disconnector GS2DB3 only.

TeSys

TeSys GS Switch-disconnector-fuses - Handles

Product references



Handles for IEC and UL switch-disconnector-fuses

Handles for direct operators

Switch rating	Type of operator	Handle colour	Reference
A (CEI) A (UL)			
Handles for direct operators, padlockable			
- 30 Compact	Front-mounted	Black	GS2AH106
32	Front	Black	GS1AH103
50 and 63	RH side	Black	GS1AH01
100...400	RH side	Black	GS1AH02
- 600 and 800	Front-mounted	Black	GS2AH107
630 and 800	Front	Black	GS2AH104
1250	Front	Black	GS2AH105

Handles for external operator

Switch rating	Handle colour	Degree of protection	Protection index Nema	Reference
A (CEI) A (UL)				
Handles for front-mounted external operators, padlockable and lockable in position O ⁽¹⁾				
Door interlock in I position ⁽²⁾				
32...63	-	Black/Grey	IP 65	GS2AH510
		Red/Yellow	IP55	GS2AH515
		Red/Yellow	IP 65	GS2AH520
100...400	-	Black/Grey	IP 65	GS2AH530
		Red/Yellow	IP55	GS2AH535
		Red/Yellow	IP 65	GS2AH540
630 and 800	-	Black/Grey	IP65	GS2AH550
		Red/Yellow	IP65	GS2AH560
1250	-	Black/Grey	IP65	GS2AH570
		Red/Yellow	IP65	GS2AH580
- 30 Compact	Black/Grey	-	1, 3R, 12	GS2AH110
	Red/Yellow	-	1, 3R, 12	GS2AH120
	Black/Grey	-	1, 3R, 4, 4X, 12	GS2AH410
	Red/Yellow	-	1, 3R, 4, 4X, 12	GS2AH420
- 30...400	Black/Grey	-	1, 3R, 12	GS2AH130
	Red/Yellow	-	1, 3R, 12	GS2AH140
	Black/Grey	-	1, 3R, 4, 4X, 12	GS2AH430
	Red/Yellow	-	1, 3R, 4, 4X, 12	GS2AH440
- 600 and 800	Black/Grey	-	1, 3R, 12	GS2AH150
	Red/Yellow	-	1, 3R, 12	GS2AH160

Handles for front-mounted external operators with test facility ⁽³⁾, padlockable and lockable in "O" position ⁽¹⁾. Door interlock in "I" position ⁽²⁾

32...63	-	Black/Grey	IP 65	-	GS2AHT510
		Red/Yellow	IP65	-	GS2AHT520
100...400	-	Black/Grey	IP65	-	GS2AHT530
		Red/Yellow	IP65	-	GS2AHT540
- 30 Compact	Black/Grey	-	1, 3R, 12	-	GS2AHT110
	Red/Yellow	-	1, 3R, 12	-	GS2AHT120
	Black/Grey	-	1, 3R, 4, 4X, 12	-	GS2AHT410
	Red/Yellow	-	1, 3R, 4, 4X, 12	-	GS2AHT420
- 30...400	Black/Grey	-	1, 3R, 12	-	GS2AHT130
	Red/Yellow	-	1, 3R, 12	-	GS2AHT140
	Black/Grey	-	1, 3R, 4, 4X, 12	-	GS2AHT430
	Red/Yellow	-	1, 3R, 4, 4X, 12	-	GS2AHT440

Handles for external right-hand side-mounted operators, padlockable and lockable in "O" position ⁽¹⁾

32...63	-	Black/Grey	IP 65	-	GS2AH210
		Red/Yellow	IP55	-	GS2AH215
		Red/Yellow	IP65	-	GS2AH220
100...400	-	Black/Grey	IP65	-	GS2AH230
		Red/Yellow	IP55	-	GS2AH235
		Red/Yellow	IP65	-	GS2AH240
630...1250	-	Black/Grey	IP65	-	GS2AH250
		Red/Yellow	IP65	-	GS2AH260

Handles for external left-hand side-mounted operators, padlockable and lockable in "O" position ⁽¹⁾

32...63	-	Black/Grey	IP 65	-	GS2AH310
		Red/Yellow	IP65	-	GS2AH320
100...400	-	Black/Grey	IP65	-	GS2AH330
		Red/Yellow	IP65	-	GS2AH340
630...1250	-	Black/Grey	IP65	-	GS2AH350
		Red/Yellow	IP65	-	GS2AH360

⁽¹⁾ Lockable with device **GS2AX1**, to be ordered separately.

⁽²⁾ Door interlock override by means of a tool.

⁽³⁾ The Test facility allows testing of the control circuits off-load, by using auxiliary contacts **GS1AM110**, **GS1AM101** or **GS1ANT●●**. In the "Test" position, the enclosure door can be opened.

Dimensions:
pages B5/23 to B5/30

PB121455.eps



GS2AE5

PB121456.eps



GS2AE2 - GS2AE21

PB121457.tif



GS2AE8 - GS2AE81

Accessories for IEC and UL switch-disconnector fuses

Shafts for external operators

Switch rating A (CEI)	A (UL)	Shaft length mm	Shaft cross section mm	Reference
32	30 Compact	200	5 x 5	GS2AE82
		320	5 x 5	GS2AE8
		400	5 x 5	GS2AE81
50...400	30...400	200	10 x 10	GS2AE22
		320	10 x 10	GS2AE2
		400	10 x 10	GS2AE21
630...1250	600 and 800	200	12 x 12	GS2AE52
		320	12 x 12	GS2AE5
		40	12 x 12	GS2AE51

Terminal protection shrouds for upstream or downstream connector plates

Switch rating A (CEI)	A (UL)	Number of poles	Reference
50 and 63	30 Compact, 30...60 (3P)	3 or 4	(1)
100...160	100	3	GS1AP33
	—	4	GS1AP34
200...400	200	3	GS1AP43
	—	4	GS1AP44
—	400	3	GS1APU53
630...800	600 and 800	3	GS2AP73
	—	4	GS2AP64
1250	—	3	GS2AP83
	—	4	GS2AP84

Devices for locking fuse covers in "I" position (2)

Switch rating A	Fuse size	Number of poles	Reference
50	14 x 51	3 or 4	(3)
63	Size 00C	3 or 4	GS1AV1
100...160	22 x 58, Size 00	3 or 4	GS1AV2
160	Size 0	3	GS1AV33
		4	GS1AV34
250	Size 1	3	GS1AV53
		4	GS1AV54
400	Size 2	3	GS1AV73
		4	GS1AV74

Cage terminals for connection of bare cables (without lug)

Switch rating A	Number of poles	Reference
50 and 63	3 or 4	(4)
100...160	3	GS1AW33
	4	GS1AW34
200...250	3	GS1AW43
	4	GS1AW44

External handle locking device

Switch rating A	Description	Reference
32...1250	Device for RONIS EL11AP keylock (lock to be ordered separately).	GS2AX1

Height compensation plate for external handles

Switch rating A (CEI)	A (UL)	Description	Degree of protection	Reference
32...1250	30 Compact, 30...400	Allows a new GS2●● handle to be fitted on existing cut-outs	IP 65	GS2AH001

Flat mounting kit

Switch rating A	Description	Reference
50...400	The kit, for use with a front-mounted external handle, includes: ■ a 200 mm shaft, cross section 10 x 10 mm, ■ an adapter plate	GS2ADL2

(1) For these ratings, the switch-disconnector-fuses are fitted with terminal covers as standard.

(2) For NF C and DIN switch-disconnector-fuses fitted with right-hand mounted direct operator.

(3) For this rating, switch-disconnector-fuses are fitted with a cover locking device as standard.

(4) For these ratings, switch-disconnector-fuses are fitted with cage terminals as standard.

Technical Data for Designers

Contents

Characteristics:

- > switch-disconnector fuses.... B5/16 to B5/21
- > auxiliary contactsB5/22

Dimensions B5/23 to B5/31

SchemesB5/31

TeSys

TeSys GS Switch-disconnector-fuses

Characteristics

IEC - For NFC / DIN fuses - From 32 to 1250 A

Switch-disconnector-fuse characteristics

Type			GS1DD		GS●F	GS●G	GS●J
Environment							
Conforming to standards	Switch-disconnector-fuses		IEC 60947-3				
	Fuses		IEC 60269-1 and 2				
Product certifications			ASEFA/LOVAG, LROS (pending)				
Degree of protection conforming to IEC 60529	On front panel with terminal covers		IP 20				
Ambient air temperature around the device	Storage	°C	-40...+80				
	Operation	°C	-20...+70				
Flame resistance conforming to IEC 60695-2-1	Body	°C	960	960			
	Fuse cover	°C	–	850			
Pole characteristics							
Conventional thermal current (Ith) for ambient temperature ≤ 40 °C		A	32	50	63	100	
Fuse size			10 x 38	14 x 51	T00C	22 x 58	
Rated insulation voltage (Ui)		V	800	750	750	750	
Rated impulse withstand voltage (Uimp)		kV	8	8	8	8	
Rated operational current (Ie)	Cat. AC-23A/B ⁽¹⁾ ~ 400 V	A	32	50	63	100	
	~ 500 V	A	32	50	63	100	
	~ 690 V	A	32	50	63	100 ⁽³⁾	
	Cat. DC-23A/B ⁽¹⁾ ≡ 440 V ⁽²⁾	A	20	40	40	100	
Rated operational power	Cat. AC-23A/B ⁽¹⁾ ~ 400 V	kW	15	25	30	51	
	~ 500 V	kW	18.5	33	40	63	
	~ 690 V	kW	25	45	55	90	
Rated conditional short-circuit current	I rms at ~ 400 V with protection by gG (gl) fuses	kA	100	100	100	100	
	Rating of associated fuses	A	32	50	63	100	
Peak value of permissible current (dynamic short-circuit withstand)	Conforming to IEC 60269-1 ~ 400 V	kA	5.5	7.6	10.6	20	
Rated making capacity	I rms at 400 V Cat. AC-23B	A	320	500	630	1000	
Rated breaking capacity	I rms at 400 V Cat. AC-23B	A	256	400	500	800	
Mechanical durability	Number of operating cycles		20000	10000	10000	10000	
Electrical durability	Number of operating cycles cat. AC/DC-23A/B ⁽¹⁾		1500/300	1500/300	1500/300	1500/300	
Cabling	Cable (c.s.a. min/max)	mm²	2.5/16	6/25	10/25	25/95	
	Bars (max width)	mm	–	–	–	20	
Tightening torque		N.m	3	3.2	3.2	12	

⁽¹⁾ Category "A": frequent operating cycles, category "B": infrequent operating cycles.

⁽²⁾ 2 poles in series per phase.

⁽³⁾ With terminal covers.

⁽⁴⁾ Poles not juxtaposed.

	GS●K	GS●KK	GS●LL	GS●L	GS●N	GS●QQ	GS2S	GS2V
	IEC 60947-3							
	IEC 60269-1 and 2							
	ASEFA/LOVAG, LROS (pending)							
	IP 20							
	-40...+80							
	-20...+70							
	960							
	850							
	125	125	160	160	250	400	630	1250
	22 x 58	T00	T00	T0	T1	T2	T3	T4
	750	750	750	750	750	800	1000	1000
	8	8	8	8	8	8	12	12
	125	125	160	160	250	400	630	1000
	125	125	160	160	250	315	500	800
	100 ⁽³⁾	100 ⁽³⁾	125 ⁽³⁾	125 ⁽³⁾	250 ⁽³⁾	250/315	315/400	630
	100	100	125	125	200	200/315 ⁽⁴⁾	400/630 ⁽⁴⁾	1000
	63	63	80	80	132	220	355	560
	90	90	110	110	160	220	355	560
	80	80	110	110	220	220/295	295/400	400/475
	100	100	100 (50)	100	100	50	100	100
	125	125	125 (160)	160	250	400	630	1250
	20	20	22.7	20	32.5	40	70	90
	1250	1250	1600	1600	2500	4000	6300	10 000
	1000	1000	1280	1280	2000	3200	5040	8000
	10000	10000	10000	10000	10000	10000	8000	5000
	1000/200	1000/200	1000/200	1000/200	1000/200	1000/200	1000/200	500/100
	35/95	35/95	50/95	50/95	95/240	185/240	2 x 150 / 2 x 300	- / 4 x 185
	20	20	20	20	32	45	63	80
	12	12	12	12	25	25	44	44

Ref.

Switch-
disconnectors
fuses

TeSys

TeSys GS Switch-disconnector-fuses

Characteristics

IEC - For BS fuses - From 32 to 1250 A

Switch-disconnector-fuse characteristics						
Type		GS1DDB		GS2DB	GS2GB	GS2JB
Environment						
Conforming to standards	Switch-disconnector-fuses		IEC 60947-3			
	Fuses		IEC 60269-1 and 2			
Product certifications			ASEFA/LOVAG, LROS (pending)			
Degree of protection conforming to IEC 60529	On Front panel, with terminal covers		IP 20			
Ambient air temperature around the device	Storage	°C	-40...+80			
	Operation	°C	-20...+70			
Flame resistance conforming to IEC 60695-2-1	Body	°C	960			
	Fuse cover	°C	–		850	
Pole characteristics						
Conventional thermal current (I _{th}) for ambient temperature ≤ 40 °C		A	32	32	63	100
Fuse size			A1	A1	A2-A3	A4 Ø ≤ 31 mm
Rated insulation voltage (U _i)		V	800	750	750	750
Rated impulse withstand voltage (U _{imp})		kV	8	8	8	8
Rated operational current (I _e)	Cat. AC-23A/B ⁽¹⁾ ~ 400 V	A	32	32	63	100
	~ 500 V	A	32	32	63	100
	~ 690 V	A	32	32	63	100 ⁽⁴⁾
	Cat. DC-23A/B ⁽¹⁾ --- 440 V ⁽²⁾	A	20	20	40	100
Rated operational power	Cat. AC-23A/B ⁽¹⁾ ~ 400 V	kW	15	15	30	51
	~ 500 V	kW	18.5	18.5	40	63
	~ 690 V	kW	25	25	55	90
Rated conditional short-circuit current	I rms at ~ 400 V with protection by gG (gl) fuses	kA	80	80	80	80
	Rating of associated fuses	A	32	32	63	100
Peak value of permissible current (dynamic short-circuit withstand)	Conforming to IEC 60269-1 ~ 400 V	kA	5.5	9	10.6	20
Rated making capacity	I rms at 400 V Cat. AC-23B	A	320	320	630	1000
Rated breaking capacity	I rms at 400 V Cat. AC-23B	A	256	256	500	800
Mechanical durability	Number of operating cycles		20000	10000	10000	10000
Electrical durability	Number of operating cycles cat. AC/DC-23A/B ⁽¹⁾		1500/300	1500/300	1500/300	1500/300
Cabling	Cable (c.s.a. min/max)	mm²	2.5/16	6/25	10/25	25/95
	Bars (max width)	mm	–	–	–	20
Tightening torque		N.m	3	3.2	3.2	12

(1) Category "A": frequent operating cycles, category "B": infrequent operating cycles.

(2) 2 poles in series per phase.

(3) Fit switch-disconnector-fuses **GS2LB** with B1 or B2 fuses and **GS2LLB** with A4 fuses.

(4) With terminal covers.

(5) Poles not juxtaposed.

	GS2LB or LLB ⁽³⁾	GS2MMB	GS2NB	GS2PPB	GS2QQB	GS2SB	GS2TB	GS2VB
	IEC 60947-3							
	IEC 60269-1 and 2							
	ASEFA/LOVAG, LROS (pending)							
	IP 20							
	-40...+80							
	-20...+70							
	960							
	850							
	160	200	250	315	400	630	800	1250
	A4, B1-B2 ⁽³⁾	B1-B2	B1...B3	B1...B3	B1...B4	C1-C2	C1...C3	D1
	750	750	750	800	800	1000	1000	1000
	8	8	8	8	8	12	12	12
	160	200	250	315	400	630	800	1000
	160	200	250	315	315	500	630	800
	125 ⁽⁴⁾	200/160 ⁽⁴⁾	250 ⁽⁴⁾	250/315 ⁽⁴⁾	250/315	315/400	630	630
	125	200	200	200	200/315 ⁽⁵⁾	400/630 ⁽⁵⁾	800	1000
	80	100	132	150	220	355	450	560
	110	140	160	220	220	355	450	560
	110	150/185	220	220/295	220/295	295/400	400	400/475
	80	80	80	80	80	80	80	80
	160	200	250	315	400	630	800	1250
	22.7	32.5	32.5	40	40	70	80	90
	1600	2000	2500	3150	4000	6300	8000	10 000
	1280	1600	2000	2520	3200	5040	6400	8000
	10000	10000	10000	10000	10000	8000	8000	5000
	1000/200	1000/200	1000/200	1000/200	1000/200	1000/200	500/100	500/100
	50/95	95/240	95/240	185/240	185/240	2 x 150 / 2 x 300	2 x 185 / 2 x 300	- / 4 x 185
	20	32	32	45	45	63	63	80
	12	25	25	25	25	44	44	44

Ref.

Switch-
disconnectors
fuses

TeSys

TeSys GS Switch-disconnector-fuses

Characteristics

UL, CSA, IEC - For CC and J fuses - From 32 to 800 A

Switch-disconnector-fuse characteristics							
Type			GS1DDU3		GS1DU3	GS2EEU3	GS2EU3N
Environment							
Conforming to standards	Switch-disconnector-fuses		UL 489, CSA 22.2 n°5, IEC 60947-3			UL 98, UL 248, CSA 22.2 n°4, IEC 60947-3	
	Fuses		UL 248				
Degree of protection conforming to IEC 60529	With terminal covers		IP 20				
Ambient air temperature around the device	Storage	°C	-40...+80				
	Operation	°C	-20...+70				
Flame resistance conforming to IEC 60695-2-1	Body	°C	960	960	960		
	Fuse cover	°C	—	—	850		
Pole characteristics							
Conventional thermal current (Ith) for ambient temperature ≤ 40 °C		A	30	30	30	30	
Fuse size			CC	J	CC	J	
Rated insulation voltage (Ui)		V	800	800	750	750	
Rated impulse withstand voltage (Uimp)		kV	8	8	8	8	
Rated operational current (Ie)	Cat. AC-23A/B ⁽¹⁾ ~ 400 V	A	32	32	32	32	
	~ 500 V	A	32	32	32	32	
	~ 690 V	A	32	32	32	32	
Rated operational power	Cat. AC-23A/B ⁽¹⁾ ~ 400 V	kW	15	15	15	15	
	~ 500 V	kW	18.5	18.5	18.5	18.5	
	~ 690 V	kW	25	25	25	25	
Prospective short-circuit current withstand	Conforming to UL 98 / UL 489 ~ 600 V	kA	100	100	200	200	
Peak value of permissible current (dynamic short-circuit withstand)	Conforming to IEC 60269-1 ~ 400 V	kA	5.5	5.5	7.6	17.6	
Rated making capacity	I rms at 400 V Cat. AC-23B	A	300	300	300	300	
Rated breaking capacity	I rms at 400 V Cat. AC-23B	A	240	240	240	240	
Mechanical durability	Number of operating cycles		10000	10000	10000	10000	
Electrical durability	Number of operating cycles Cat. AC/DC-23A/B ⁽¹⁾		1500/300	1500/300	1500/300	1500/300	
Cabling	Cable (c.s.a. min/max)	mm²	2.5/6	2.5/6	2.5/6	2.5/16	
		AWG	#14/#10	#14/#10	#14/#10	#14/#6	
	Bars (max width)	mm	-	-	-	-	
Tightening torque		N.m	3 (for wire)	4 (for wire)	5.5 (for wire)	3.5 (for wire)	
		lb-in	27	27	48	31	

⁽¹⁾ Category "A": frequent operating cycles, category "B": infrequent operating cycles.

	GS2GU3N	GS2JU3N	GS2MU3N	GS2QU3N	GS2SU3	GS2TU3
	UL 98, CSA 22.2 n°4, IEC 60947-3					
	UL 248					
	IP 20					
	-40...+80					
	-20...+70					
	960					
	850					
	60	100	200	400	600	800
	J	J	J	J	J	L
	750	750	750	800	1000	1000
	8	8	8	8	12	12
	63	100	200	400	630	800
	63	100	200	315	630	630
	63	100	200	250	630	630
	30	51	100	220	355	450
	40	63	140	220	450	560
	55	90	185	220	600	600
	100	200	200	200	200	200
	17.6	22	32	36	80	80
	600	1000	2000	4000	6000	8000
	480	800	1600	3200	4800	6400
	10000	10000	8000	6000	5000	5000
	1500/300	1500/300	1000/200	1000/200	1000/200	500/100
	2.5/16	4/50	16/150	25/300	2 x 150	—
	#14/#6	#12/#1	#6/300 Kcmil	#4/600 Kcmil	#2/600 Kcmil	—
	-	20	32	45	100	100
	3.5 (for wire)	4 (for wire)	18 (for lug)	35 (for lug)	35 (for lug)	35 (for lug)
	31	35.4	160	310	310	310

Ref.

Switch-
disconnectors
fuses

Auxiliary contacts

GS1AM11, GS1AM1 and GS1AM2 early break and signalling contact characteristics

Conventional thermal current (I _{th}) for ambient temperature ≤ 40 °C		A	16
Rated operational current (I _e)	Cat. AC-15	A	127 V: 5 - 230 V: 4 - 400 /415 V: 3 - 440 V: 2
	Cat. DC-13	A	24 V: 12 - 48 V: 2 - 110 V: 0.6 - 220 V: 0.4
Durability	Number of operating cycles		Mechanical: 1000000 Electrical: cat. AC-15: 30000
Fuse protection	gG	A	6 max
Cabling		mm	Faston connectors: 1 x 6.35 or 2 x 2.8

GS1AN and GS1ANT signalling contact characteristics

Conventional thermal current (I _{th}) for ambient temperature ≤ 40 °C		A	20
Rated operational current (I _e)	Cat. AC-15	A	127 V: 12 - 230 V: 10 - 400/415 V: 8 - 440 V: 6
	Cat. DC-13	A	48 V: 4 - 110 V: 1.2 - 220 V: 1
Durability	Number of operating cycles		Mechanical: 30000 Electrical: cat. AC-15: 30000
Fuse protection	gG	A	16 max
Cabling	Cable (c.s.a. min/max)	mm²	Min: 1.5 - max: 10

GS1AM110 and GS1AM101 early break and signalling contact characteristics

Conventional thermal current (I _{th}) for ambient temperature ≤ 40 °C		A	10
Rated operational current (I _e)	Cat. AC-15	A	120 V: 6 - 240 V: 3 - 400 V: 1.8 - 480 V: 1.5
	Cat. DC-13	A	24 V: 2.8 - 48 V: 1.4 - 125 V: 0.55 - 250 V: 0.27 - 400 V: 0.15
Durability	Number of operating cycles		Mechanical: 5000000 Electrical: cat. AC-15: 1000000
Cabling	Cable (c.s.a. min/max)	mm²	Min: 1 x 0.22 - max: 2 x 2.5

GS1AF "blown fuse" signalling contact characteristics

Conventional thermal current (I _{th}) for ambient temperature ≤ 40 °C		A	16
Rated operational current (I _e)	Cat. AC-15	A	230 V: 4 - 400 V: 3
	Cat. DC-13	A	24 V: 12 - 48 V: 2 - 110 V: 0.6 - 220 V: 0.4
Durability	Number of operating cycles		Mechanical: 30000 Electrical: cat. AC-15: 30000
Cabling		mm	Faston connectors: 1 x 6.35

Ref.



Switch-disconnectors
fuses

TeSys

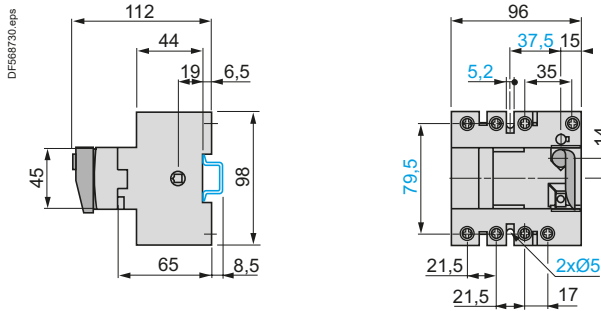
TeSys GS Switch-disconnector-fuses

Dimensions

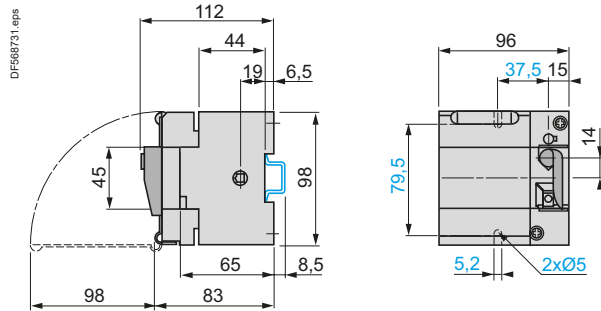
IEC - GS1●● (32 A) Switch-disconnector-fuse

Direct front-mounted operator

GS1DD

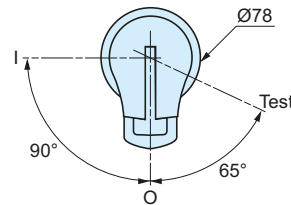
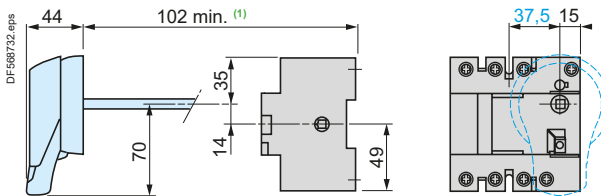


GS1DDB

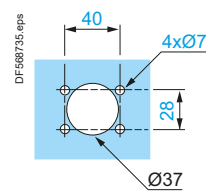


External front-mounted operator

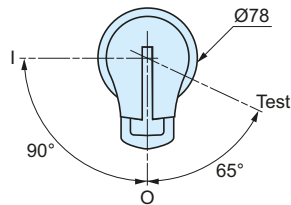
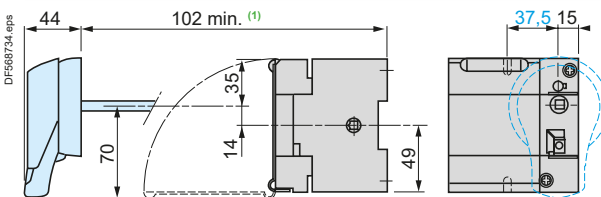
GS1DD



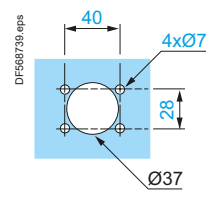
Door cut-out



GS1DDB



Door cut-out

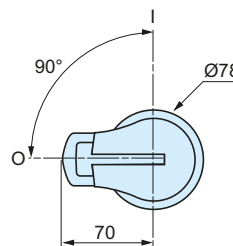
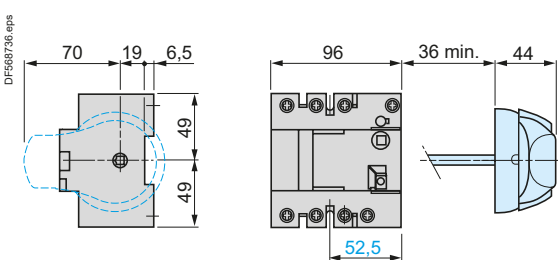


(1) With 1 or 2 auxiliary contacts GS1AM1●●: 130 mm.

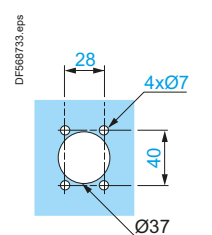
(2) With 3 or 4 auxiliary contacts GS1AM1●●: 155 mm.

External right-hand side-mounted operator

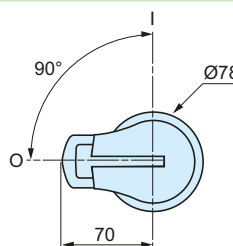
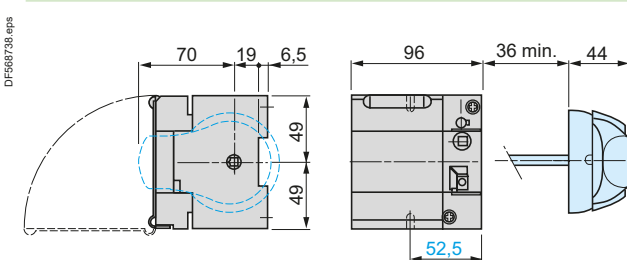
GS1DD



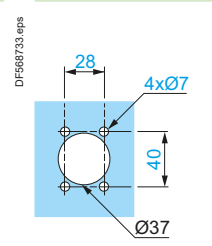
Door cut-out



GS1DDB



Door cut-out



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TeSys GS Switch-disconnector-fuses

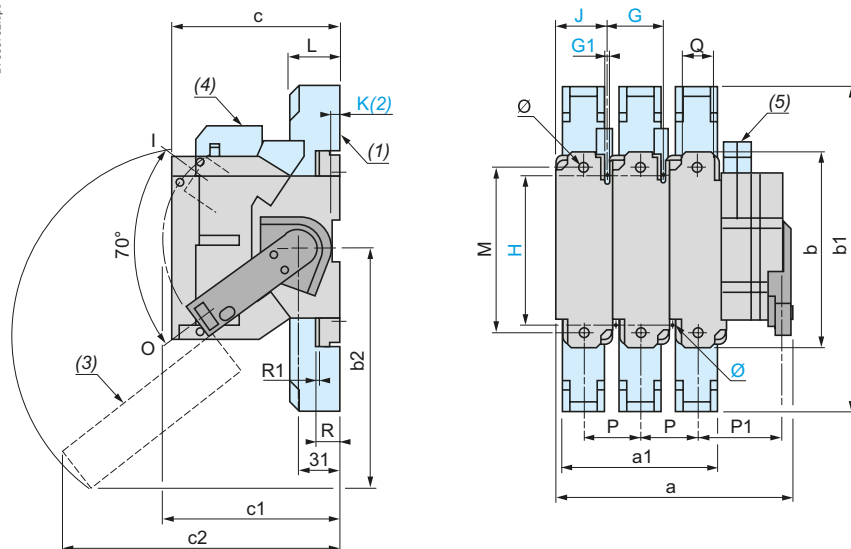
Dimensions

IEC - GS1●● (50...400 A) Switch-disconnector-fuse

Direct right-hand side-mounted operator

GS1FD (50 A), GD (63 A), JD (100 A), KD, KKD (125 A), LD, LLD (160 A), ND (250 A) and QGD (400 A)

DF538732.eps



Ref.



Switch-disconnectors fuses

GS1		a	a1	b	b1	b2	c	c1	c2	G	G1	H	J	K	Ø	L	M	P	P1	Q	R	R1	Ø
FD	3P	118	—	118	—	—	87	134	—	27	5.4	106	31	6.5	5	—	—	27	33.5	—	—	—	—
	4P	145	—	118	—	—	87	134	—	27	5.4	106	31	6.5	5	—	—	27	33.5	—	—	—	—
GD	3P	133	—	118	—	159	116.5	134	145	32	5.4	106	36	6.5	5	—	—	32	36	—	—	—	—
	4P	165	—	118	—	159	116.5	134	145	32	5.4	106	36	6.5	5	—	—	32	36	—	—	—	—
JD, KD	3P	150	108	162	268	—	116	173	—	36	5.4	127	40	—	5	44	141	36	38	20	19.5	2.5	8.5
	4P	186	144	162	268	—	116	173	—	36	5.4	127	40	—	5	44	141	36	38	20	19.5	2.5	8.5
KKD, LLD	3P	150	108	162	268	141	126.5	173	193	36	5.4	127	40	—	5	44	141	36	38	20	19.5	2.5	8.5
	4P	186	144	162	268	141	126.5	173	193	36	5.4	127	40	—	5	44	141	36	38	20	19.5	2.5	8.5
LD	3P	192	136	162	268	174	136.5	173	229	50	5.4	140	54	—	5	44	141	50	45	20	19.5	2.5	8.5
	4P	242	172	162	268	174	136.5	173	229	50	5.4	140	54	—	5	44	141	50	45	20	19.5	2.5	8.5
ND	3P	253	180	195	345	185	146	173	251	60	6.4	162	64	—	6	65	166	60	81	32	19.5	2.5	11
	4P	313	240	195	345	185	146	173	251	60	6.4	162	64	—	6	65	166	60	81	32	19.5	2.5	11
QGD	3P	271	192	205	355	200	149	173	260	66	6.4	172	70	—	6	65	175	66	86	50	20	3	11
	4P	337	258	205	355	200	149	173	260	66	6.4	172	70	—	6	65	175	66	86	50	20	3	11

(1) Terminal cover.

(2) Mounting on rail only for GS1FD and GS1GD (50 and 63 A).

(3) Protective screen, lockable in I position.

(4) 1 or 2 auxiliary contacts GS1AF●●.

(5) 1 or 2 auxiliary contacts GS1AM●.

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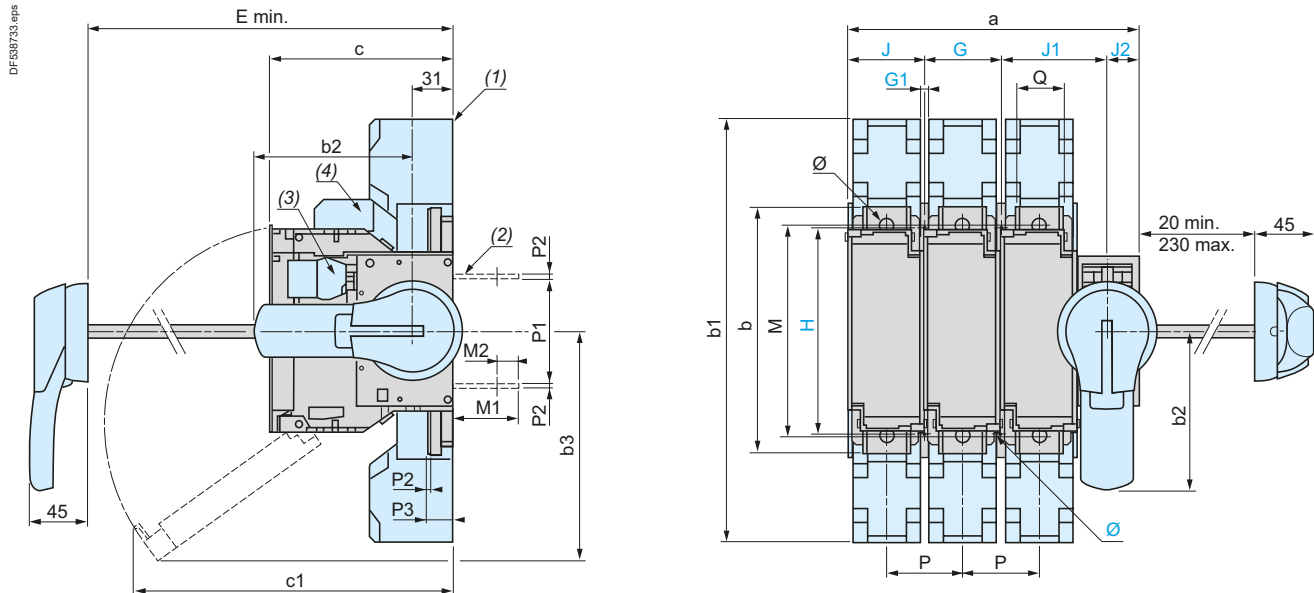
TeSys GS Switch-disconnector-fuses

Dimensions

IEC - GS2●● (32...400 A) Switch-disconnector-fuse

External front and right-hand side-mounted operator

GS2DB (32 A), F (50 A), G, GB, JB (63 A), J (100 A), K, KK (125 A), L, LL, LB, LLB (160 A), MMB (200 A), N, NB (250 A), PPB (315 A), QQ and QQB (400 A)



GS2		a	b	b1	b2	b3	c	c1	E min.	G	G1	H	J	J1	J2	Ø	M	M1	M2	P	P1	P2	P3	Q	Ø
F, DB	3P	121	118	—	70	85	87 ⁽⁵⁾	153	100 ⁽⁵⁾	27	5.4	106	31	45	18	5	—	15	6	27	59	2	—	12	—
	4P	148	118	—	70	85	87 ⁽⁵⁾	153	100 ⁽⁵⁾	27	5.4	106	31	45	18	5	—	15	6	27	59	2	—	12	—
G, GB	3P	136	118	—	70	159	116.5 ⁽⁶⁾	145	125	32	5.4	106	36	50	18	5	—	15	6	32	59	2	—	12	—
	4P	168	118	—	70	159	116.5 ⁽⁶⁾	145	125	32	5.4	106	36	50	18	5	—	15	6	32	59	2	—	12	—
J, JB, K	3P	148	162	268	125	141	116 ⁽⁶⁾	187	135	36	5.4	127	40	54	18	5	141	41	8	36	62	2.5	19.5	20	8.5
	4P	184	162	268	125	141	116 ⁽⁶⁾	187	135	36	5.4	127	40	54	18	5	141	41	8	36	62	2.5	19.5	20	8.5
KK, LL	3P	148	162	268	125	141	126.5 ⁽⁶⁾	193	135	36	5.4	127	40	54	18	5	141	41	8	36	62	2.5	19.5	20	8.5
	4P	184	162	268	125	141	126.5 ⁽⁶⁾	193	135	36	5.4	127	40	54	18	5	141	41	8	36	62	2.5	19.5	20	8.5
L, LB, LLB	3P	190	162	268	125	174	136.5	229	145	50	5.4	140	54	64	18	5	141	41	8	50	62	2.5	19.5	20	8.5
	4P	240	162	268	125	174	136.5	229	145	50	5.4	140	54	64	18	5	141	41	8	50	62	2.5	19.5	20	8.5
MMB, NB, N	3P	234	195	345	125	185	146	251	154	60	6.4	162	64	86	25	6	166	52	17	60	84	2.5	19.5	32	11
	4P	294	195	345	125	185	146	251	154	60	6.4	162	64	86	25	6	166	52	17	60	84	2.5	19.5	32	11
PPB, QQB, QQ	3P	252	205	355	125	200	149	260	157	66	6.4	172	70	91	25	6	175	54	14.5	66	84	3	20	50	11
	4P	318	205	355	125	200	149	260	157	66	6.4	172	70	91	25	6	175	54	14.5	66	84	3	20	50	11

(1) Terminal cover.

(2) Rear access connector plates (option).

(3) 1 to 8 auxiliary contacts GS1AM1●●.

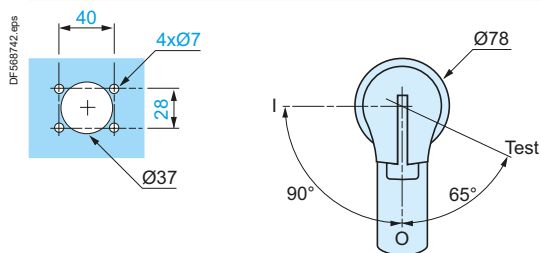
(4) 1 or 2 auxiliary contacts GS1AF●●.

(5) 1 auxiliary contact GS1AM1●●: + 23.5 mm, 2 auxiliary contacts GS1AM1●●: + 47 mm.

(6) 132 mm with 2 auxiliary contacts GS1AM1●●.

Door cut-out

For external front-mounted operator



For external right-hand side-mounted operator



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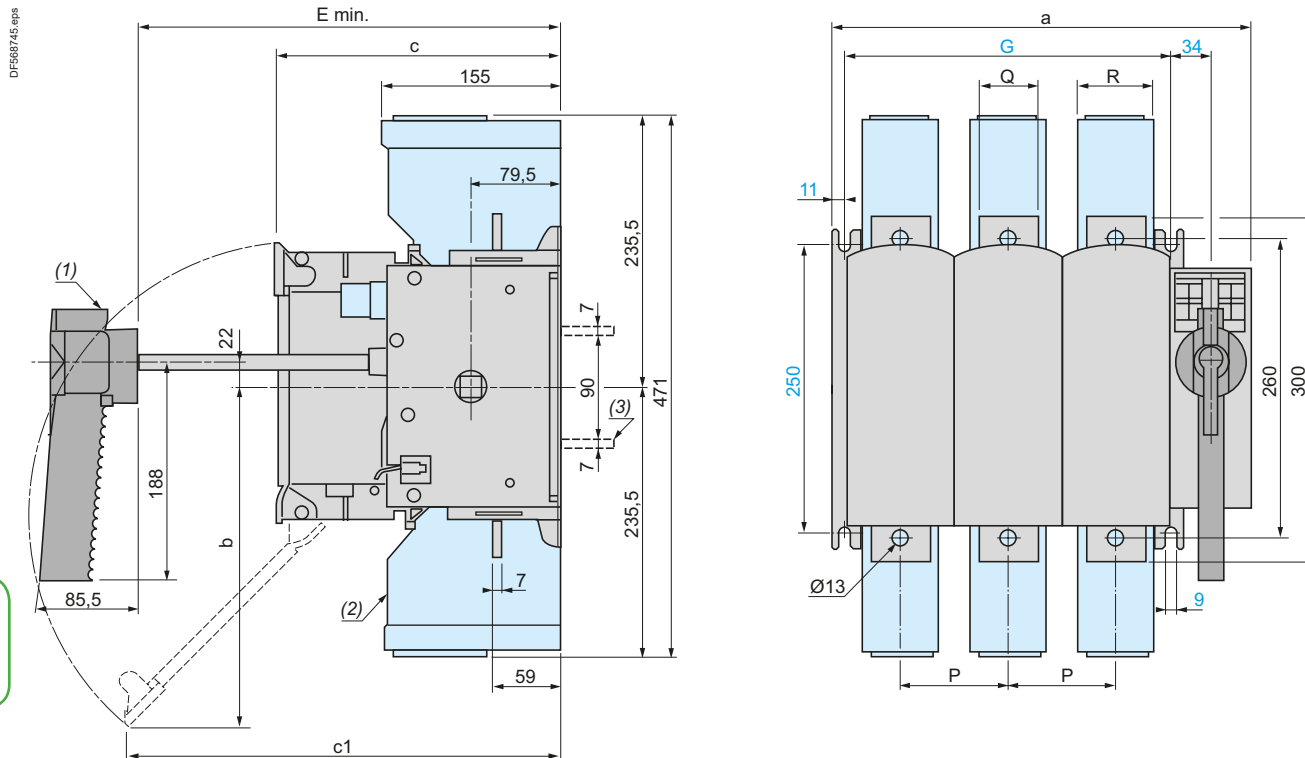
TeSys GS Switch-disconnector-fuses

Dimensions

IEC - GS2●● (630...1250 A) Switch-disconnector-fuse

Direct front-mounted operator

GS2S, SB (630 A), TB (800 A), V and VB (1250 A)



GS2		a	b	c	c1	E min.	G	P	Q	R
S, SB, TB	3P	364	300	250	380	265	284	94	51	65
	4P	458	300	250	380	265	378	94	51	65
V, VB	3P	442	355	289	295	304	362	120	77	88
	4P	562	355	289	295	304	482	120	77	88

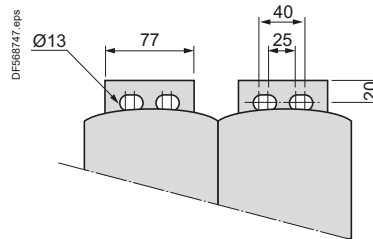
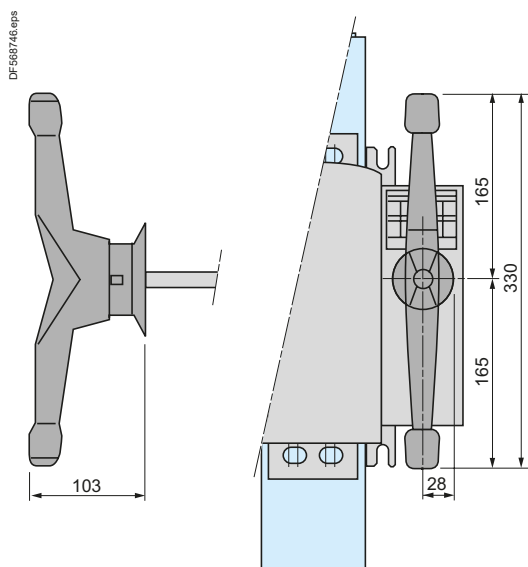
(1) Handle GS2AH104 for GS2S, GS2SB and GS2TB.

(2) Terminal cover.

(3) Rear access connector plates (GS2V and GS2VB).

Handle GS2AH105 for GS2V and GS2VB
(direct front-mounted operator)

Connector plates for GS2V and GS2VB



TeSys

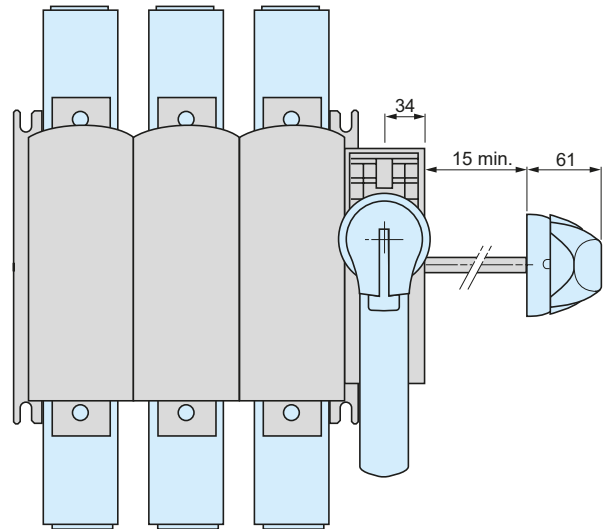
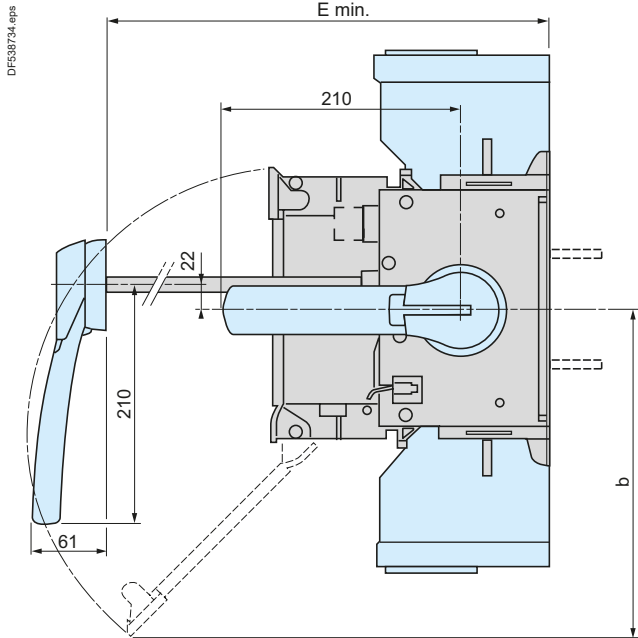
TeSys GS Switch-disconnector-fuses

Dimensions

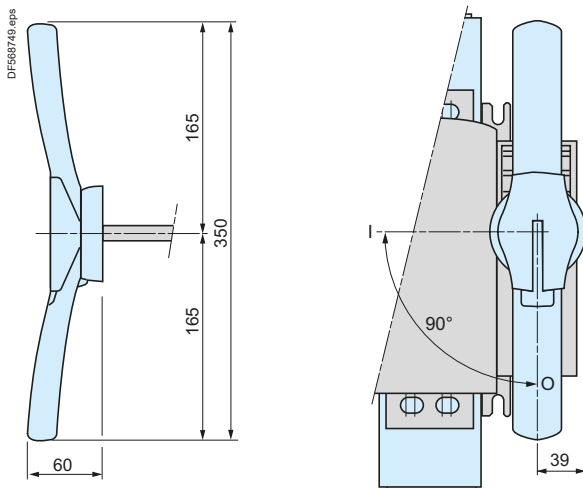
IEC - GS2●● (630...1250 A) Switch-disconnector-fuse

External front and right-hand side-mounted operator

GS2S, SB (630 A), TB (800 A), V and VB (1250 A)



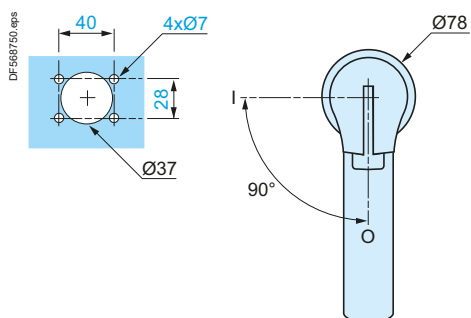
Handle GS2AH570 or GS2AH580 for GS2V and GS2VB (external front-mounted operator)



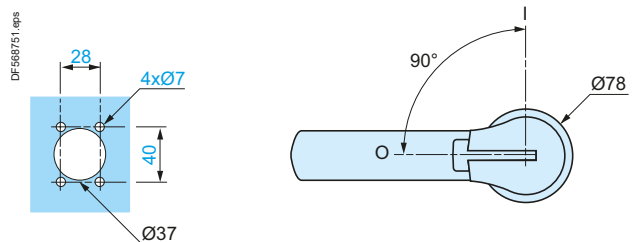
GS2		b	E min.
S, SB, TB	3P	297	265
	4P	297	265
V, VB	3P	350	304
	4P	350	304

Door cut-out

For external front-mounted operator



For external right-hand side-mounted operator



References:
page B5/5

Characteristics:
pages B5/17 to B5/19

Schemes:
page B5/31

Life Is On

Schneider
Electric

B5/27

Ref.

Switch-disconnectors

fuses

Switch-disconnectors
fuses

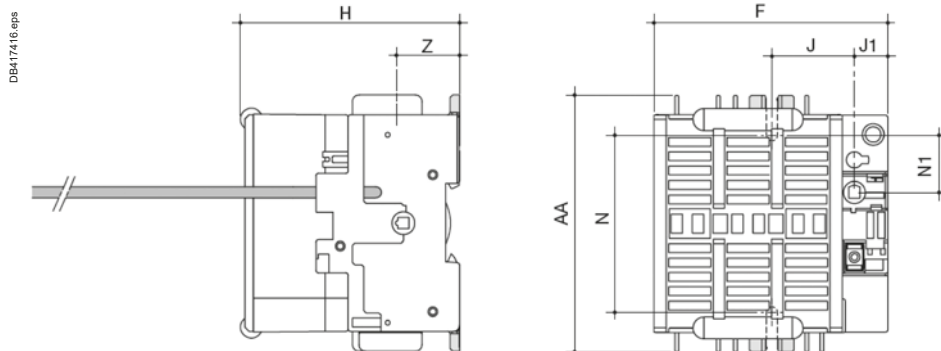
TeSys

TeSys GS Switch-disconnector-fuses

Dimensions

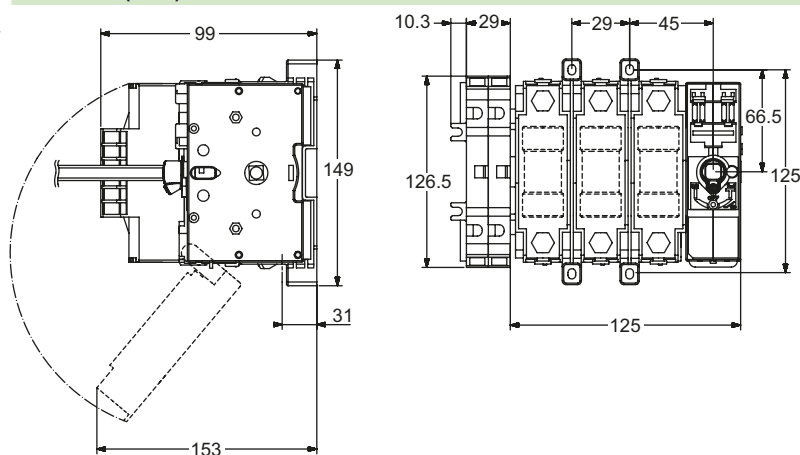
UL, CSA, IEC - GS1●● GS2●● Switch-disconnector-fuses (30 and 60 A)

GS1DU3 (30 A) class CC fuses, GS1DDU3 (30 A) class J fuses

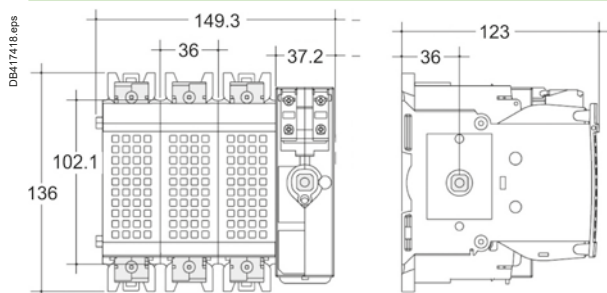


Rating	F	H	J	J1	N	N1	AA	Z
30 / CC	96	83.5	37.5	15	79.5	25.5	116	28.5
30 / J	105	99	37.5	15	79.5	25.5	116	28.5

GS2EEU3 (30 A) class CC fuses



GS2EU3N, GS2GU3N (60 A) class J fuses



Accessories

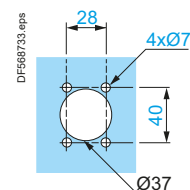
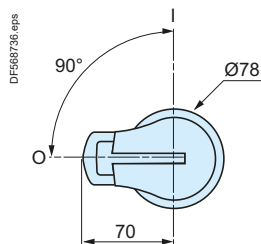
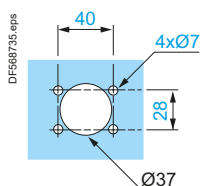
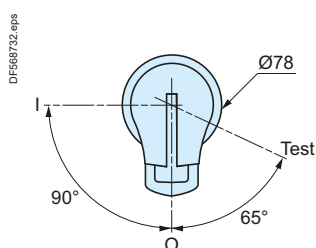
Handle for 30 and 60 A switch-disconnector-fuses

External front handle

Door cut-out

External side handle

Door cut-out



References:
pages B5/8 and B5/9

Characteristics:
pages B5/20 and B5/21

Schemes:
page B5/31

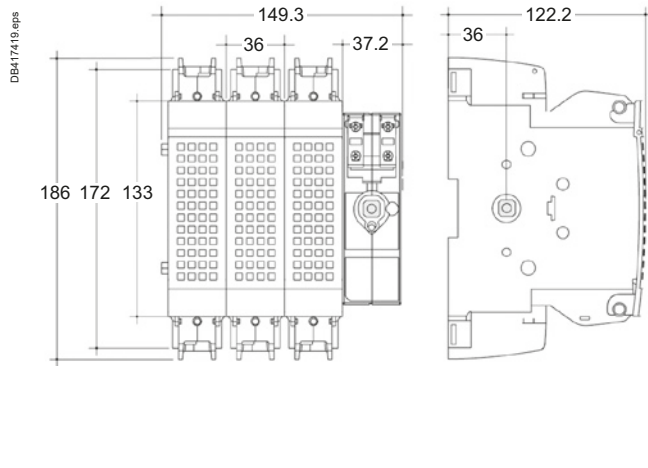
TeSys

TeSys GS Switch-disconnector-fuses

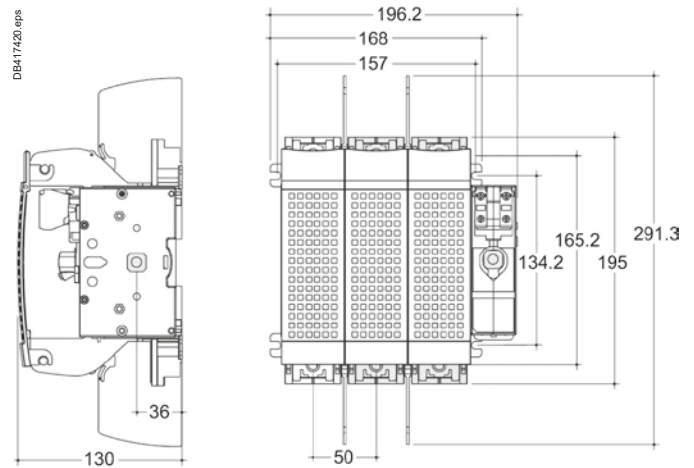
Dimensions

UL, CSA, IEC - GS2●● Switch-disconnector-fuses (100 and 400 A)

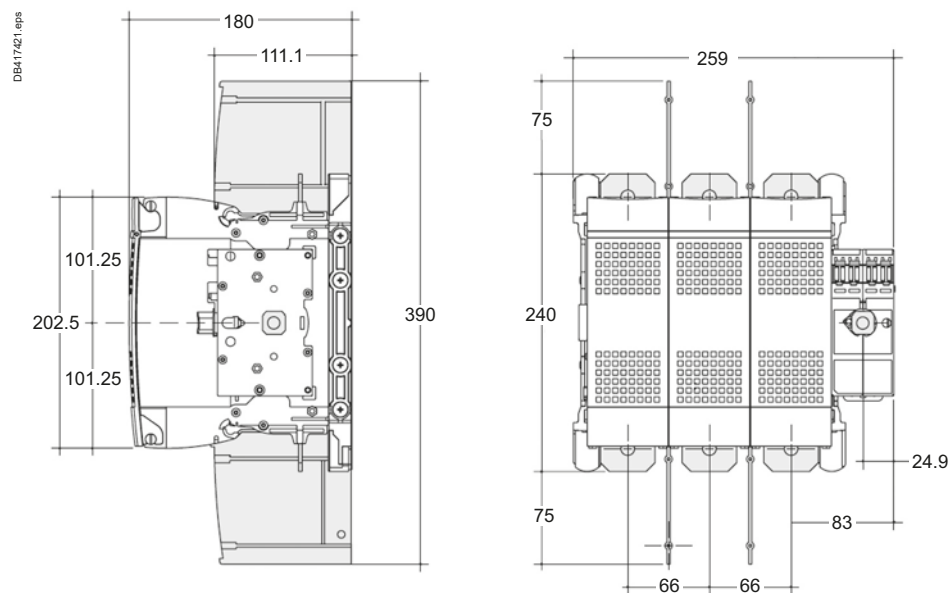
GS2JU3N (100 A) class J fuses



GS2MU3N (200 A) class J fuses



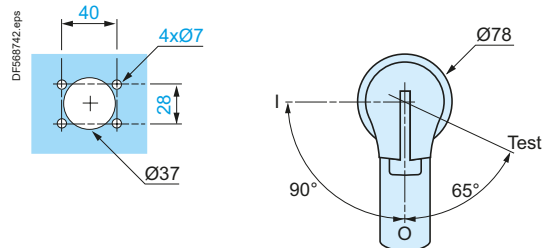
GS2QU3N (400 A) class CC fuses



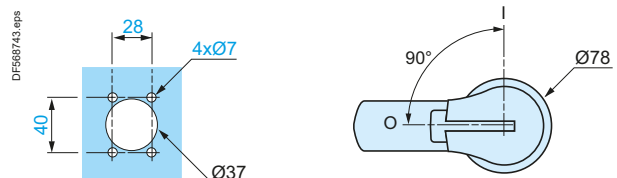
Accessories

Handle for 100, 200 and 400 A switch-disconnector-fuses

For external front-mounted operator

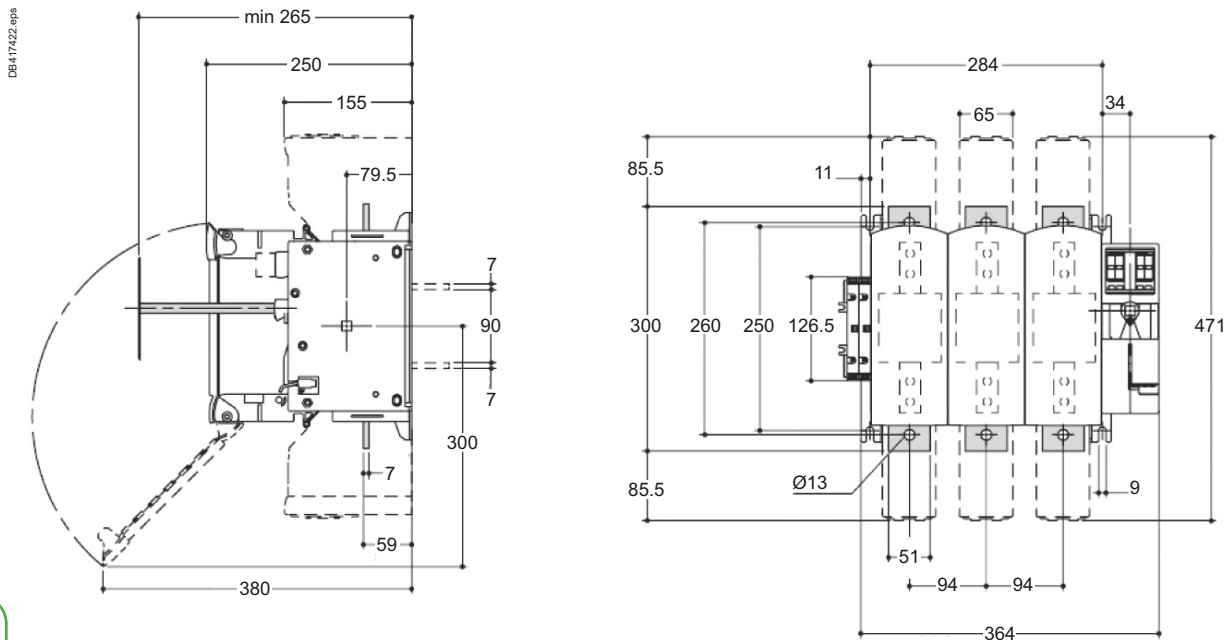


For external right-hand side-mounted operator



UL, CSA, IEC - GS2●● Switch-disconnector-fuses (600 and 800 A)

GS2SU3 (600 A), GS2TU3 (800 A) class J fuses

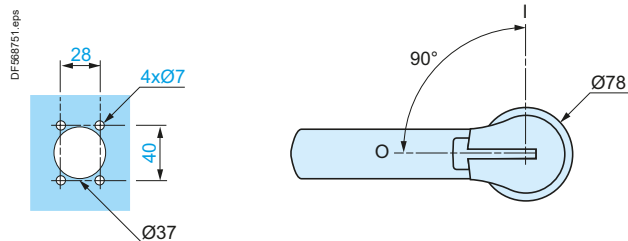
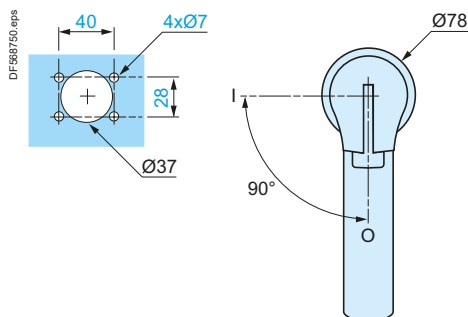


Accessories

Handle for 600 and 800 A switch-disconnector-fuses

For external front-mounted operator

For external right-hand side-mounted operator



TeSys

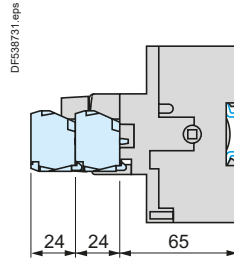
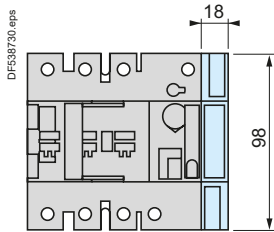
TeSys GS Switch-disconnector-fuses

Dimensions, schemes

Auxiliary contacts

GS1AM111, GS1AM211

GS1AM110, GS1AM101



Schemes

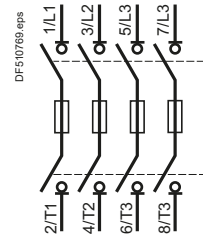
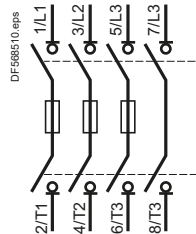
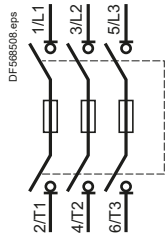
3-pole GS

32 to 1250 A

4-pole GS

32 A

50 to 1250 A



Auxiliary contacts

GS1AM110

1 N/O

GS1AM101

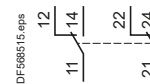
1 N/C

GS1AM111 and GS1AM1

1 C/O

GS1AM211 and GS1AM2

2 C/O



GS1AN●●

1 N/C + 1 N/O

2 N/C + 2 N/O

GS1AF●

1 C/O

2 C/O

