

Introduction



TeSys K, **TeSys** Deca and **TeSys** Giga contactors: S207 series for **railway applications**



Introduction



Used in heating, lighting, door control, signaling, brake and air conditioning compressors, TeSys K, TeSys Deca and TeSys Giga* S207 series contactors are designed for railway power switching and controlling applications, while complying with the railway European standard EN 45545 R22 HL3. *: HL2 for TeSys Giga.



Introduction



TeSys K, **TeSys** Deca and **TeSys** Giga contactors: S207 series compliant with railway standards



Shocks, vibrations requirements, according to IEC/EN 61373 standard tests

- Category 1: body mounted
- Class B: cubicles, subassemblies, equipment and components mounted directly on or under the car body.



Fire, smoke requirements, according to EN 45545-2 Part 2, DIN 5510-2



European standard EN 45545-2

Newly published in 2020, specifies the reaction to fire performance requirements for materials and products used on railway vehicles as defined in EN 45545-1, and applies to all countries in Europe.

For each hazard level, this standard specifies the material and products test methods, test conditions and reaction to fire performance requirements.



Contents

TeSys Control	
	Page
Presentation	
TeSys K S207 series - AC-3: up to 12 A	6
TeSys Deca S207 series - AC-3: up to 95 A	7
TeSys Giga S207 series - AC-3: up to 800 A	8
References	
TeSys K S207 series	9
TeSys Deca S207 series	10
TeSys Giga S207 series	12

Technical Data for Designers	15
	,
TeSys K S207 series	
Characteristics	16
Dimensions and schemes	20
TeSys Deca S207 series	
Characteristics	21
Dimensions and schemes	25
TeSys Giga S207 series	
Characteristics	27
Dimensions and schemes	32

Introduction



TeSys K - S207 series

New range of EN 45545 R22 HL3 compliant mini contactors:

- Width: 45 mm - Height: 58 mm - Depth: 57 mm - Weight: 0.235 kg.

Contactor types, covered applications:

- AC-3, up to 12 Amps
- AC-1, up to 20 Amps
- Control circuits, up to 10 Amps.

Simple, robust, and compact, **TeSys** K is optimized for common applications

Range of 33 contactors for motors (AC-3), resistive loads (AC-1), control circuits:

3P, 4P contactors:

- AC-3 ratings / 3 poles: 6, 9, 12 A
- AC-1 rating / 4 poles: 20 A
- 1 NO or 1 NC embedded auxiliary contact

Contactors for control circuits:

- 4 NO or 2 NO + 2 NC or 3 NO + 1 NC
- 10 A

Common features:

- Connection by lugs
- 24, 72, 110 V DC low consumption coils,
- Coil supply range: up to 0.7 to 1.3 Uc from -40 °C to +70 °C.

> See TeSys K S207 contactor selection tables for available combinations of features.

Introduction



TeSys Deca - S207 series

Now made of new material, EN 45545 R22 HL3 compliant, with unchanged commercial reference.

Contactor types, covered applications:

- AC-3/AC-3e, up to 95 Amps
- AC-1, up to 125 Amps
- Control circuits, up to 10 Amps.

TeSys Deca, the right choice for demanding or wide power range applications

Range of 139 contactors for motors (AC-3), resistive loads (AC-1), control circuits:

3P, 4P contactors:

- AC-3/AC-3e ratings / 3 poles: 9, 12, 18, 25, 32, 38, 40, 50, 65, 80, 95 A
- AC-1 ratings / 4 poles: 20, 25, 32, 40, 60,125 A
- 1 NO + 1 NC embedded auxiliary contact on all ratings (except on 60, 80, 125 A 4-pole contactors).

Contactors for control circuits:

- 5 NO or 3 NO + 2 NC
- 10 A

Common features:

- Connection by lugs
- 24, 72, 96, 110 V DC coils, standard, low consumption and wide range
- Coil supply range: up to 0.7 to 1.25 Uc.







LRD

EN 45545 R22 HL2 compliant motor starters

Up to 38 A AC-3/AC-3e, with TeSys Deca - S207 associated to:

> GV2P thermal magnetic circuit breakers

Please refer to catalogue 'TeSys - Innovative and connected solutions for motor starters' for details.

Introduction



TeSys Giga - S207 series

Now made of new material, EN 45545 R22 HL2 compliant.

Contactor types, covered applications:

- AC-3, 115 A to 800 A
- AC-1, 250 A to 1050 A.

TeSys Giga, the right choice for a wide range of demanding applications

Range of 20 contactor references for motors (AC-3), resistive loads (AC-1):

3P, 4P contactors:

- AC-3 ratings / 3 poles: 115, 150, 185, 225, 265, 330, 400, 500, 630,
- AC-1 ratings / 4 poles: 250, 275, 305, 330, 385, 440, 550, 700, 1050 A
- Equipped with 1 NO + 1 NC auxiliary contact block
- Embedded contact wear diagnostic feature

Common features:

- Connection by lugs & bars
- 48...130 V AC/DC wide range coil control
- Modular design enables faster & easy maintenance.

Product references



LC1K12016FLS207

Standard power ratings of 3-phase motors 50-60 Hz in category AC-3		-60 Hz operationa current		Instantaneous auxiliary contacts	Commercial reference Replace dots by coil voltage code (see chart below)	Weight ode
220 V 230 V	380 V 415 V	440/500 V 660/690 V	in AC-3 440 V up to			
kW	kW	kW	Α			kg
1.5	2.2	3	6	1 –	LC1K06106eeS207	0.235
				- 1	LC1K06016 •• S207	0.235
2.2	4	4	9	1 –	LC1K09106eeS207	0.235
				- 1	LC1K09016 • S207	0.235
3	5.5	5.5 (≤ 440 V)	12	1 –	LC1K12106••S207	0.235
		4 (≥ 480 V)		- 1	LC1K12016 •• S207	0.235



LC1KT206FLS207

Non inductive loads Category AC-1 Maximum current at $(\theta \le 50~^{\circ}\text{C})$		nber oles	Instar auxilia conta	•	Commercial reference Replace dots by coil voltage code (see chart below)	
A						
20	4	-	_	_	LC1KT206 • S207	0.235
	2	2	_	_	LC1K0986••S207	0.235



CAK226FLS207

4-pole contactors for Co	ontrol circuit - co	nnec	tion by lugs	
Control circuit consumption	Auxilia contac	•	Commercial reference Replace dots by coil voltage code (see chart below)	
		<u> </u>		
Ith = 10 A	4	-	CAK406••S207	0.235
	3	1	CAK316••S207	0.235
	2	2	CAK226••S207	0.235

Low consumption coil voltage code				
Volts DC	24	72	110	
U 0.71.3 Uc	BL	SL	FL	



Recommended for standard ap	plications, Clip-on front mo	ounting, 1 block per contactor
Connection	Composition	Reference
Screw clamp terminals	2 –	LA1KN20
	_ 2	LA1KN02
	1 1	LA1KN11
ug terminals	2 2	LA1KN226
	4 –	LA1KN406

⁽¹⁾ Add on auxiliary contacts compliancy level to EN 45545 is R22 HL3.

Product references



LC1D096FDS207



LC1D406FWS207



LC1D806FWS207



LC1DT206FDS207



LC1D400046FWS207



LC1D800086FWS207

Standard power ratings of 3-phase motors 50-60 Hz in category AC-3/AC-3e $(\theta \le 60 ^{\circ}\text{C})$					tional	Instan- taneous auxiliary contacts		Commercial refere Replace dots by co (see chart below)	Weight			
220 V 230 V	380 V 415 V	415 V	440 V	500 V	660 V 690 V	1000 V	in AC-3/ AC-3e 440 V up to		L,	coil with surge suppressor (1)	Coil without surge suppressor	
kW	kW	kW	kW	kW	kW	kW	Α					kg
2.2	4	4	4	5.5	5.5	-	9	1	1	LC1D096 • S207		0.320
3	5.5	5.5	5.5	7.5	7.5	-	12	1	1	LC1D126 • S207		0.325
4	7.5	9	9	10	10	_	18	1	1	LC1D186 •• S207		0.330
5.5	11	11	11	15	15	_	25	1	1	LC1D256 •• S207		0.370
7.5	15	15	15	18.5	18.5	_	32	1	1	LC1D326eeS207		0.375
9	18.5	18.5	18.5	18.5	18.5	_	38	1	1	LC1D386eeS207		0.380
11	18.5	22	22	22	30	22	40	1	1	_	LC1D406 • S207	2.185
15	22	25	30	30	33	30	50	1	1	_	LC1D506eeS207	2.185
18.5	30	37	37	37	37	37	65	1	1	_	LC1D656 • S207	2.185
22	37	45	45	55	45	45	80	1	1	_	LC1D806eeS207	2.59
25	45	45	45	55	45	45	95	1	1	_	LC1D956eeS207	2.61

Non inductive loads maximum current (θ ≤ 60 °C) utilisation category AC-1	Number of poles		tan	tan- eous tiliary ntacts	Commercial reference Replace dots by coil (see chart below)	Weight	
	1	7	1	Ļ	coil with surge suppressor (1)	Coil without surge suppressor	_
A							kg
20	4	-	1	1	LC1DT206eeS207		0.36
	2	2	1	1	LC1D0986●●S207		0.36
25	4	_	1	1	LC1DT256eeS207		0.36
	2	2	1	1	LC1D1286eeS207		0.36
32	4	_	1	1	LC1DT326eeS207		0.42
	2	2	1	1	LC1D1886●●S207		0.425
40	4	_	1	1	LC1DT406 •• S207		0.425
	2	2	1	1	LC1D2586 •• S207		0.425
60	4	_	_	_	_	LC1D400046 •• S207	2.210
	2	2	_	_	_	LC1D400086 •• S207	2.210
125	4	_	-	_	_	LC1D800046 •• S207	2.685
	2	2		_	_	LC1D800086 •• S207	2.910

⁽¹⁾ A suppressor diode (Transil TM) in parallel with the coil helps to prevent upstream sensitive components from damage by high transient voltage during the coil switching.

Coil voltage codes				
DC Volts	24	72	96	110
Standard coils for LC1D096 D386, LC1DT206DT406, LC1D	2586			
U 0.71.25 Uc	BD	SD	-	FD
Low consumption coils for LC1D096 D386, LC1DT206D7	7406, LC	1D2586	6	
U 0.71.25 Uc	BL	SL	DL	FL
Wide voltage range coils for LC1D406956, LC1D400046	800086			
U 0.71.25 Uc	BW	SW	-	FW

Product references



CAD326FDS207

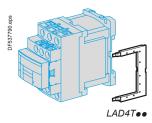
Contactors for con	trol circui	t - conn	ection by lugs	
Rated max operating current (le)	Compos	sition	Commercial reference Replace dots by coil voltage code (see chart below)	
		L T	coil with surge suppressor	
A				
5-pole contactors for co	ontrol circuit	s		
10	3 2	2	CAD326••S207	
	5 -	-	CAD506 • S207	

Coil voltage codes				
DC Volts	24	72	96	110
Standard coils for CAD326, CAD506				
U 0.71.25 Uc	BD	SD		FD
Low consumption coils for CAD326, CAD506				
U 0.71.25 Uc	BL	SL	DL	FL



Instantaneous auxiliary contact blocks for connection by lugs (1)						
Clip-on mounting (2)	Number of contacts per block	Composition	Reference			
Front	2	1 1 2 - - 2	LADN116 LADN206 LADN026			
	4	2 2 1 3 4 -	LADN226 LADN136 LADN406			
		- 4 3 1	LADN046 LADN316			

Maximum number of auxiliary contacts that can be fitted							
Contactors Instantaneous auxiliary contact blocks							
Nun	nber of poles and size	Side mounted	Front mount	ed			
			2 contacts	4 contacts			
3P	LC1 D09D38	_	1	or 1			
	LC1 D80	_	or 1	or 1			
4P	LC1 DT20DT40	_	1	or 1			
	LC1 D80	_	and 1	or 1			
3P	LC1 D09D38	_	1	_			
4P	LC1 DT20DT40	_	1	_			
	Nur 3P 4P	The second state of the se	Instantaneous auxiliary cor Number of poles and size Side mounted 3P LC1 D09D38 - LC1 D80 - 4P LC1 DT20DT40 - LC1 D80 - 3P LC1 D09D38 -	Instantaneous auxiliary contact blocks Number of poles and size Side mounted Front mounts 2 contacts 3P LC1 D09D38 - 1 LC1 D80 - or 1 4P LC1 DT20DT40 - 1 LC1 D80 - and 1 3P LC1 D09D38 - 1			



Bidirectional peak limiting diodes (1)

Protection provided by limiting the transient voltage to 2 Uc max.

Maximum reduction of transient voltage peaks.

Mounting	For use with contactor	Reference
	Rating	Type V
Clip-on side mounting (2)	D09D38 (3P)	24 LAD4TBDL
	DT20DT40 (4P)	72 LAD4TSDL
		125 LAD4TGDL

- (1) Add on auxiliary contacts and bidirectional peak limiting diodes compliancy level to EN 45545 is R22 HL3.
- (2) In order to install these accessories, the existing suppression device must first be removed. Clipping-on makes the electrical connection. The overrall size of the contactor remains unchanged.
- (3) LC: low comsumption.

Product references



LC1G115EHES207N



LC1G265EHES207N



LC1G630EHES207N



LC1G1154EHES207N



LC1G2654EHES207N

Standard power ratings of 3-phase motors 50-60 Hz in category AC-3 $(\theta \leqslant 60$ °C)		opera- taneous tional auxiliary current contacts		eous iliary	Commercial reference	Weight					
230 V	400 V	415 V	440 V	500 V	690 V	1000 V	in AC-3 440 V up to		Ļ	48130 V AC/DC coil	
kW	kW	kW	kW	kW	kW	kW	Α				kg
30	55	55	75	75	75	-	115	1	1	LC1G115EHES207N	3.600
37	75	75	90	90	90	75	150	1	1	LC1G150EHES207N	3.600
55	90	90	110	110	110	75	185	1	1	LC1G185EHES207N	3.600
55	110	110	132	132	160	132	225	1	1	LC1G225EHES207N	3.600
75	132	132	160	160	200	160	265	1	1	LC1G265EHES207N	7.500
90	160	160	200	200	220	185	330	1	1	LC1G330EHES207N	7.500
110	200	200	250	250	315	220	400	1	1	LC1G400EHES207N	7.500
160	250	250	315	355	355	335	500	1	1	LC1G500EHES207N	7.500
200	335	375	400	400	500	450	630	1	1	LC1G630EHES207N	14.200
250	450	450	450	500	560	450	800	1	1	LC1G800EHES207N	14.200

4-pole contactors for Resistive load co	ontro	l - co	onne	ection	by lugs / bars	
Non inductive loads maximum current (θ ≤ 40 °C) utilisation category AC-1		Number of poles		tan- eous ciliary ntacts	Commercial reference	e Weight
	1	7	1	Ļ	48130 V AC/DC coil	
A						kg
250	4	-	1	1	LC1G1154EHES207N	4.400
275	4	-	1	1	LC1G1504EHES207N	4.400
305	4	-	1	1	LC1G1854EHES207N	4.400
330	4	-	1	1	LC1G2254EHES207N	4.400
385	4	-	1	1	LC1G2654EHES207N	8.200
440	4	-	1	1	LC1G3304EHES207N	8.200
550	4	-	1	1	LC1G4004EHES207N	8.200
700	4	-	1	1	LC1G5004EHES207N	8.200
1050	4	-	1	1	LC1G6304EHES207N	18.000
1050	4	-	1	1	LC1G8004EHES207N	18.000

Auxiliary contact modules

type

Terminal

Push-in

Position

1st left or right

2nd left or right

(1) Always supplied with TeSys Giga LC1G contactors, fitted to the right side lateral face.

Type of

2 NO

contacts

1 NO + 1 NC

1 NO + 1 NC

Sold in

lots of

Reference

LAG8N113P (1)

LAG8N203P

LAG8N113 LAG8N203

Description

Auxiliary

contact module



LAG8N113



Side mounting –

maximum 2 per side
Dimensions, schemes pages 32 and 33

Product references

CADOCEDOOO7	L 04D400DD0007	L 04D 4000 40EM 0007	1.0404505115000531
CAD326BDS207	LC1D126BDS207	LC1D400046FWS207	LC1G150EHES207N
CAD326BLS207	LC1D126BLS207	LC1D400046SWS207	LC1G1854EHES207N
CAD326FDS207	LC1D126FDS207	LC1D400086BWS207	LC1G185EHES207N
CAD326FLS207	LC1D126FLS207	LC1D400086FWS207	LC1G2254EHES207N
CAD326SDS207	LC1D126FLXS207	LC1D400086SWS207	LC1G225EHES207N
CAD326SLS207	LC1D126SDS207	LC1D406BWS207	LC1G2654EHES207N
CAD506BDS207	LC1D126SLS207	LC1D406FWS207	LC1G265EHES207N
CAD506FDS207	LC1D1286BDS207	LC1D406SWS207	LC1G3304EHES207N
CAD506FLS207	LC1D1286BLS207	LC1D506BWS207	LC1G330EHES207N
CAD506SDS207	LC1D1286FDS207	LC1D506FWS207	LC1G4004EHES207N
CAK226BLS207	LC1D1286FLS207	LC1D506SWS207	LC1G400EHES207N
CAK226FLS207	LC1D1286SLS207	LC1D656BWS207	LC1G5004EHES207N
CAK226SLS207	LC1D186BDS207	LC1D656FWS207	LC1G500EHES207N
CAK316BLS207	LC1D186BLS207	LC1D656SWS207	LC1G6304EHES207N
CAK316FLS207	LC1D186FDS207	LC1D800046BWS207	LC1G630EHES207N
CAK316SLS207	LC1D186FLS207	LC1D800046FWS207	LC1G8004EHES207N
CAK406BLS207	LC1D186SDS207	LC1D800046SWS207	LC1G800EHES207N
CAK406FLS207	LC1D186SLS207	LC1D800086BWS207	LC1K06016BLS207
CAK406SLS207	LC1D1886BLS207	LC1D800086FWS207	LC1K06016FLS207
LA1KN02	LC1D1886FDS207	LC1D800086SWS207	LC1K06016SLS207
LA1KN11	LC1D1886FLS207	LC1D806BWS207	LC1K06106BLS207
LA1KN20	LC1D256BDS207	LC1D806FWS207	LC1K06106FLS207
LA1KN226	LC1D256BLS207	LC1D806SWS207	LC1K06106SLS207
LA1KN406	LC1D256FDS207	LC1D956BWS207	LC1K09016BLS207
LAD4TBDL	LC1D256FLS207	LC1D956FWS207	LC1K09016FLS207
LAD4TGDL	LC1D256SDS207	LC1D956SWS207	LC1K09016SLS207
LAD4TSDL	LC1D256SLS207	LC1DT206BDS207	LC1K09106BLS207
LADN026	LC1D256SLXS207	LC1DT206BLS207	LC1K09106FLS207
LADN046	LC1D2586BDS207	LC1DT206FLS207	LC1K09106SLS207
LADN116	LC1D2586BLS207	LC1DT206SLS207	LC1K0986BLS207
LADN136	LC1D2586FDS207	LC1DT256BDS207	LC1K0986FLS207
LADN206	LC1D2586FLS207	LC1DT256BLS207	LC1K12016BLS207
LADN226	LC1D2586SLS207	LC1DT256FDS207	LC1K12016FLS207
LADN316	LC1D326BDS207	LC1DT256FLS207	LC1K12016SLS207
LADN406	LC1D326BLS207	LC1DT256SDS207	LC1K12106BLS207
LC1D096BDS207	LC1D326FDS207	LC1DT326BDS207	LC1K12106FLS207
LC1D096BLS207	LC1D326FLS207	LC1DT326FLS207	LC1K12106SLS207
LC1D096FDS207	LC1D326SDS207	LC1DT406BDS207	LC1KT206BLS207
LC1D096FLS207	LC1D326SLS207	LC1DT406BLS207	LC1KT206FLS207
LC1D096SDS207	LC1D386BDS207	LC1DT406FDS207	LC1KT206SLS207
LC1D096SLS207	LC1D386BLS207	LC1DT406FLS207	LC2D096SLS207
LC1D0986BDS207	LC1D386FDS207	LC1DT406SDS207	LRD08S207
LC1D0986BLS207	LC1D386FLS207	LC1DT406SLS207	LRD10S207
LC1D0986FDS207	LC1D386SDS207	LC1G1154EHES207N	LRD12S207
LC1D0986FLS207	LC1D386SLS207	LC1G115EHES207N	LRD16S207
LC1D0986SLS207	LC1D400046BWS207	LC1G1504EHES207N	
LO 1000000001	LO 15-000405110201	LO TO TOUTE ITEOZOTIA	

This document is current. Click on the product reference to get the most recent availability status (hyperlink to se.com product datasheet). If your product variant is no longer available, please consult your distributor or regional sales office.

Technical Data for Designers

Contents	
TeSys K S207 series:	
Characteristics	16 to 19
Dimensions and schemes	20
TeSys Deca S207 series:	
Characteristics	21 to 24
Dimensions	25
Schemes	26
TeSys Giga S207 series:	
Characteristics	27
Dimensions and schemes	32

Environment charac	cteristics		
Contactor type LC1K			
Conforming to standards			IEC/EN 60947-4-1, IEC/EN 60947-5-1, GB/T 14048.4, GB/T 14048.5, EN 45545 R22 HL3, EN 45545 R26 HL3, IEC/EN 61373
Authorized operating positions		1	Vertical axis Horizontal axis
		DF511522.eps	Without derating Without derating
Rated insulation voltage	Conforming to IEC 60947	v	690
(Ui)	Conforming to VDE 0110 gr C	v	750
	Conforming to BS 5424, NF C 20-040	V	690
Rated impulse withstand voltag	ge (Uimp)	kV	8
Protective treatment	Conforming to IEC 60068 (DIN 50016)		"TC" (Klimafest, Climateproof)
Degree of protection	Conforming to VDE 0106		Protection against direct finger contact
Ambient air temperature	Storage	°C	-50+80
around the device	Operation	°C	-25+50
	Permissible	°C	-40+70, for operation at Uc
Maximum operating altitude	Without derating	m	2000
Vibration resistance	Contactor open		2 gn
5 300 Hz	Contactor closed		4 gn
Flame resistance	Conforming to UL 94		V0
Shock resistance (1/2 sine wave, 11 ms)	Contactor open		On X axis: 6 gn On Y and Z axes: 10 gn
•	Contactor closed		On X axis: 10 gn On Y and Z axes: 15 gn
Connection by lugs			
Lug external Ø		mm	7
Ø of screw		mm	3.2
Screwdriver	Philips / Pozidriv		N° 2
	Flat screwdriver Ø	mm	Ø6
Tightening torque		N.m	1.1 recommended, 1.3 max

Туре				LC1K06	LC1K09, LC1KT09,	LC1K12	
.,,,,,				2011100	LC1KT20	2011(12	
Conventional thermal current (Ith)	For ambient temp ≤ 50 °C	erature	Α	20	·	·	
Rated operational frequency			Hz	50/60			
requency limits of the operational curre	ent		Hz	Up to 400	Up to 400		
Rated operational voltage (Ue)			٧	690			
Rated making capacity	I rms conforming to NF C 63 110 and IEC 60947		Α	110	110	144	
Rated breaking capacity	I rms conforming	220/230 V	Α	110	110	_	
	to NF C 63 110 and IEC 60947	380/400 V	Α	110	110	-	
	and ILC 00947	415 V	Α	110	110	_	
		440 V	Α	110	110	110	
		500 V	Α	80	80	80	
		660/690 V	A	70	70	70	
Permissible short	In free air for a	1 s	Α	90	90	115	
ime rating	time "t" from cold	5 s	Α	85	85	105	
	state (θ ≤ 50 °C)	10 s	Α	80	80	100	
		30 s	Α	60	60	75	
		1 min	Α	45	45	55	
		3 min	Α	40	40	50	
		≥ 15 min	Α	20	20	25	
Short-circuit protection	gG fuse U ≤ 440 \	/	Α	25			
Average impedance per pole	At Ith and 50 Hz		mΩ	3			
Jse in category AC-1 esistive circuits, heating, lighting (Ue ≤	Maximum rated o current for a temp	erature ≤ 50 °C	Α	20			
440 V)	Maximum rated o current for a temp	erature ≤ 70 °C	Α	16 for Ue only			
	Rated operationa			On-load factor 90 %			
	in relation to the o		Α	300 operating cycles/hour 13			
	and operating ned	quericy	Α	120 operating cycles/hour 15 30 operating cycles/hour 19			
			Α	30 operating cycles/hour			
	Increase in rated current by paralle			Apply the following coefficients to the above currents; these coefficien into account an often unbalanced distribution of current between the p			
			İ	2 poles in parallel: h	(= 1.60		
				3 poles in parallel: h			
				4 poles in parallel: h	< = 2.80		
Jse in category AC-3	Operational	115 V single-ph.		0.37	0.55	-	
squirrel cage motors	power according	220 V single-ph.	kW	0.75	1.1	-	
	to the voltage. Voltage 50 or	220/230 V 3-ph.	kW	1.5	2.2	3	
	voltage 50 or 60 Hz	380/415 V 3-ph.		2.2	4	5.5	
		440/480 V 3-ph.		3	4	5.5/4 (480)	
		500/600 V 3-ph.	kW	3	4	4	
		660/690 V 3-ph.	kW	3	4	4	
	Maximum operati			Op. cycles/h		600	
	(in operating cycle	es/hour in		Power		100 %	

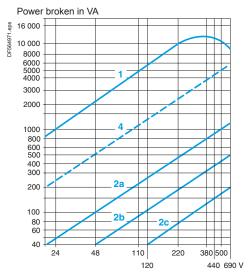
Control circuit char	Control circuit characteristics							
Туре			LC1K, LC1KT	CAK				
Rated control circuit voltage (Uc)		V DC	24110	24110				
Control voltage limits (≤ 50 °C) single voltage coil	Operation		0.71.30 Uc	0.71.3 Uc				
	Drop-out		≥ 0.10 Uc	≤ 0.1 Uc				
Average consumption at 20 °C and at Uc	Inrush		1.8 W	1.8 W				
	Sealed		1.8 W	1.8 W				
Heat dissipation		w	1.8	1.8				
Operating time at 20 °C and at	Uc							
Between coil energisation	opening of the N/C contacts	ms	2535	2535				
and:	closing of the N/O contacts	ms	3040	3040				
Between coil de-energisation	opening of the N/O contacts	ms	1020	1020				
and:	closing of the N/C contacts	ms	1525	1525				
Maximum immunity to microbre	Maximum immunity to microbreaks		2	2				
Maximum operating rate	In operating cycles per hour		3600	6000				
Mechanical durability at Uc In millions of operating cycles			30	30				

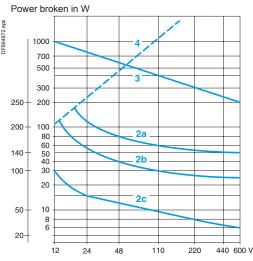
TeSys Control

TeSys K S207 - Contactors for railway applications

Characteristics

Number of auxiliary contacts	On LP K 3-pole			1
Rated operational voltage (Ue)	Up to		٧	690
Rated insulation voltage (Ui)	Conforming to BS 5424		٧	690
	Conforming to IEC 6094	17	٧	690
	Conforming to VDE 0110	group C	٧	750
	Conforming to CSA C 22	2-2 n° 14	٧	600
Conventional thermal current (Ith)	For ambient temperature	re ≤ 50 °C	Α	10
Frequency of the operational current			Hz	Up to 400
Minimum switching	U min (DIN 19 240)		٧	17
capacity	l min		mA	5
Short-circuit protection	Conforming to IEC 6094 and VDE 0660, gG fuse		Α	10
Rated making capacity	Conforming to I I IEC 60947	rms	Α	110
Short-time rating	Permissible for 1	s	Α	80
	50	00 ms	Α	90
	10	00 ms	Α	110





Operational power of contacts conforming to IEC 60947 a.c. supply, category AC-15

Electrical durability (valid for up to 3600 operating cycles/hour) on an inductive load such as the coil of an electromagnet: making current ($\cos \varphi$ 0.7) = 10 times the power broken ($\cos \varphi$ 0.4).

Operating cycles				110/	220/	380/		600/
	V	24	48	127	230	400	440	690
1 million operating cycles	VA	48	96	240	440	800	880	1200
3 million operating cycles	VA	17	34	86	158	288	317	500
10 million operating cycles	VA	7	14	36	66	120	132	200
Occasional making capacity	VA	1000	2050	5000	10000	14000	13000	9000

d.c. supply, category DC-13

Electrical durability (valid for up to 1200 operating cycles/hour) on an inductive load such as the coil of an electromagnet, without economy resistor, the time constant increasing with the load.

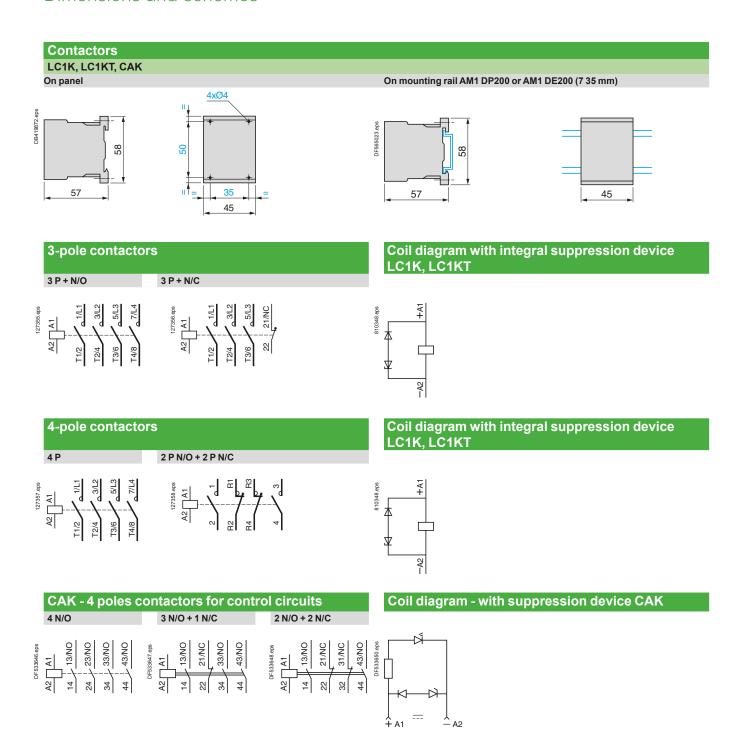
Operating cycles							
	V	24	48	110	220	440	600
1 million operating cycles	W	120	80	60	52	51	50
3 million operating cycles	W	55	38	30	28	26	25
10 million operating cycles	W	15	11	9	8	7	6
Occasional making capacity	W	720	600	400	300	230	200

- 1. Breaking limit of contacts valid for:
 - maximum of 50 operating cycles at 10 s intervals (power broken = making current x cos φ 0.7).
- 2. Electrical durability of contacts for:
 - 1 million operating cycles (2a)
 - 3 million operating cycles (2b)
- 10 million operating cycles (2c).
- 3. Breaking limit of contacts valid for:
 - maximum of 20 operating cycles at 10 s intervals with current passing for 0.5 s per operating cycle.
- 4. Thermal limit.

TeSys Control

TeSys K S207 - Contactors for railway applications

Dimensions and schemes



Contactor type			LC1D096	LC1D126	LC1D186	LC1D256	LC1D326	LC1D386	LC1D406	LC1D506	LC1D656	LC1D806	LC1D95
Rated operational	In AC-3 / AC-3e, $\theta \le 60 ^{\circ}\text{C}$	Α	9	12	18	25	32	38	40	50	65	80	95
current (Ie) (Ue ≤ 440 V)	In AC-1, θ ≤ 60 °C	Α	25	25	32	40	50	50	60	80	80	125	125
Rated operational voltage (Ue)	Up to	٧	690	690	690	690	690	690	1000	1000	1000	1000	1000
Frequency limits	Of the operational current	Hz	25400	25400	25400	25400	25400	25400	25400	25400	25400	25400	25400
Conventional thermal current (Ith)	θ ≤ 60 °C	Α	25	25	32	40	50	50	60	80	80	125	125
Rated making capacity (440 V)	Conforming to IEC 60947	Α	250	250	300	450	550	550	800	900	1000	1100	1100
Rated breaking capacity (440 V)	Conforming to IEC 60947	Α	250	250	300	450	550	550	800	900	1000	1100	1100
Permissible short time rating	For 1 s	Α	210	210	240	380	430	430	720	810	900	990	1100
No current flowing for	For 10 s	Α	105	105	145	240	260	310	320	400	520	640	800
preceding 15 minutes with θ ≤ 40 °C	For 1 min	Α	61	61	84	120	138	150	165	208	260	320	400
	For 10 min	Α	30	30	40	50	60	60	72	84	110	135	135
Fuse protection against short-	Without type 1 thermal	Α	25	40	50	63	63	63	80	100	160	200	200
circuits (U ≤ 690 V)	overload type 2 relay, gG fuse	Α	20	25	35	40	63	63	80	100	125	160	160
Average impedance per pole	At Ith and 50 Hz	mΩ	2.5	2.5	2.5	2	2	2	1.5	1.5	1	0,8	0.8
Power dissipation	AC-3 / AC-3e	w	0.20	0.36	0.8	1.25	2	3	2.4	3.7	4.2	5.1	7.2
per pole for the above operational currents	AC-1	w	1.56	1.56	2.5	3.2	5	5	5.4	9.6	6.4	12.5	12.5

Contactor type			LC1D0986 LC1DT206	LC1D1286 LC1DT256	LC1D1886 LC1DT326	LC1D2586 LC1DT406	LC1D400046 LC1D400086	LC1D800046 LC1D800086
Rated operational	In AC-3 / AC-3e, $\theta \le 60 ^{\circ}\text{C}$	Α	9	12	18	25	40 (1)	80 (2)
current (Ie) (Ue ≤ 440 V)	In AC-1, θ ≤ 60 °C	Α	20	25	32	40	60	125
Rated operational voltage (Ue)	Up to	V	690	690	690	690	690	1000
Frequency limits	Of the operational current	Hz	25400	25400	25400	25400	25400	25400
Conventional thermal current (Ith)	θ ≤ 60 °C	Α	20	25	32	40	60	125
Rated making capacity (440 V)	Conforming to IEC 60947	Α	250	250	300	450	800	1100
Rated breaking capacity (440 V)	Conforming to IEC 60947	Α	250	250	300	450	800	1100
Permissible short time rating	For 1 s	Α	210	210	240	380	720	990
No current flowing for	For 10 s	Α	105	105	145	240	320	640
preceding 15 minutes with θ ≤ 40 °C	For 1 min	Α	61	61	84	120	165	320
	For 10 min	Α	30	30	40	50	72	135
Fuse protection against short-	Without type 1 thermal	Α	25	40	50	63	80	200
circuits (U ≤ 690 V)	overload type 2 relay, gG fuse	Α	20	25	35	40	80	160
Average impedance per pole	At Ith and 50 Hz	mΩ	2.5	2.5	2.5	2	1.5	0,8
Power dissipation	AC-3 / AC-3e	w	0.20	0.36	0.8	1.25	2.4	5.1
per pole for the above operational currents	AC-1	w	1.56	1.56	2.5	3.2	5.4	12.5

⁽¹⁾ For LC1D400046 only, no AC-3 for LC1D400086. (2) For LC1D800046 only, no AC-3 for LC1D800086.

Contactor type			LC1D096D186,	LC1D256D386,	LC1D406D956,
			LC1DT206 and LC1DT256	LC1DT326 and LC1DT406	LC1D400046, LC1D400086 LC1D650046, LC1D650086 LC1D800046, LC1D800086
Rated insulation voltage (Ui)	Conforming to IEC 60947-4-1, overvoltage category III, degree of pollution: 3	V	690		1000
Rated impulse withstand voltage (Uimp)	Conforming to IEC 60947	kV	6		8
Conforming to standards				N 60947-5-1, GB/T 14048.4, 5545 R26 HL3, IEC/EN 6137	
Product certifications			IEC, CCC, EAC, UA, TR		IEC, CCC
Degree of protection	Conforming to IEC 60529				
(front face)	Power circuit connections		Protection against direct	finger contact IP20	
	Coil connection		Protection against direct	finger contact IP20	
Climatic withstand			According to IACS E10		
Ambient air temperature around the device	Storage	°C	-60+80		
	Operation	°C	-40+70		-25+70
Maximum operating altitude	Without derating	m	3000		-
Operating positions (1)	Without derating in the following positions (other positions: please contact us).	DF510743 eps	300	180	
	Positions that are not permissible		For contactors LC1D0	9 to LC1D95.	
Flame resistance	Conforming to UL 94		V0		
	Conforming to IEC 60695-2-1	°C	850		
Shock resistance (2) 1/2 sine wave = 11 ms	Contactor open		10 gn	8 gn	8 gn
	Contactor closed		15 gn	15 gn	10 gn
Vibration resistance (2) 5300 Hz	Contactor open		2 gn		1
300 HZ	Contactor closed		4 gn	4 gn	3 gn

⁽¹⁾ When mounting on a vertical rail, use a stop.
(2) Without modification of power contact states, in the most unfavourable direction (coil energised at Ue).

Contactor type			LC1D096, LC1D126, LC1D186, LC1DT206, LC1DT256	LC1D1886 LC1DT326	LC1D256 LC1D326 LC1D386		LC1D406, LC1D4000	LC1D506 LC1D656 LC1D6500	LC1D806 LC1D956 LC1D800046 LC1D800086
Connection by	bars or lugs								
Lug external Ø		mm	8	9	12	9	13	16	17
Ø of screw		mm	M3.5		M4	M3.5	M5	M6	M6
Screwdriver	Philips / Pozidriv		N° 2		N° 2	N° 2	N° 2	N° 3	-
	Flat screwdriver Ø		Ø6		Ø6	Ø6	Ø8	Ø8	Ø8
Key for hexagonal h	neaded screw		-		-	-	-	-	10
Fightening torque N.m		1.7		2.5	1.8	2.5	2.5	5	

Control circ	uit connections		
Connection by	bars or lugs		
Lug external Ø		mm	8
Ø of screw		mm	M3.5
Screwdriver	Philips / Pozidriv		N° 2
	Flat screwdriver Ø		Ø6
Tightening torque		N.m	1.7

Compatible contactor to	ypes		Standard coil	Low consumption coil	Wide range coil
			LC1D096D386 LC1DT206DT406 LC1D2586	LC1D096D386 LC1DT206DT406 LC1D2586	LC1D406956 LC1D400046LC1D800086
Rated insulation voltage	Conforming to IEC 60947-1	V	690		
Operating ranges	Side by side mounting		0.71.1 Uc	0.71.25 Uc	Uc
from -40 to +70°C	With 8 mm spacing		0.71.25 Uc	-	-
Operating ranges from -25 to +50°C	Side by side mounting		0.71.25 Uc	-	0.7 1.25 Uc
Average consumption at 20 °C and at Uc	=	W	5.4	4	22
Operating time (1) average at Uc	Closing of "C" NO contacts	ms	55 to 75	55 to 75	95 to 130
	Opening of NC contacts	ms	45 to 65	45 to 65	-
	Opening of "O" NO contacts	ms	16 to 32 (12 to 22 ms without diode)	16 to 32 (12 to 22 ms without diode)	20 to 35
	Closing of NC contacts	ms	27 to 42 (18 to 28 ms without diode)	27 to 42 (18 to 28 ms without diode)	-
		the arci		s. The load is isolated fro	or the poles. For all normal 3-phase applications, or the supply after a time equal to the sum of
Time constant (L/R)		ms	28	37	75
Mechanical durability at Uc	In millions of operating cycles		30	30	10
Maximum operating rate at ambient temperature ≤ 60 °C	In operating cycles per hour		3600	3600	3600

⁽¹⁾ The operating times depend on the type of contactor electromagnet and its control mode. The closing time "C" is measured from the moment the coil supply is switched on to initial contact of the main poles. The opening time "O" is measured from the moment the coil supply is switched off to the moment the main poles separate.

Characteristics of	of auxiliary contacts	incor	porated in the contactor
Mechanically linked contacts	Conforming to IEC 60947-5-1		Each TeSys Deca NO/NC embedded auxilliary contacts are certified 'mechanicaly linked'.
Mirror contact	Conforming to IEC 60947-4-1		All TeSys Deca NC auxilliary contacts are 'miror' certified and can be connected to a safety module.
Rated operational voltage (Ue)	Up to	V	690
Rated insulation voltage (Ui)	Conforming to IEC 60947-1	V	690
Conventional thermal current (Ith)	For ambient temperature ≤ 60 °C	Α	10

Dimensions

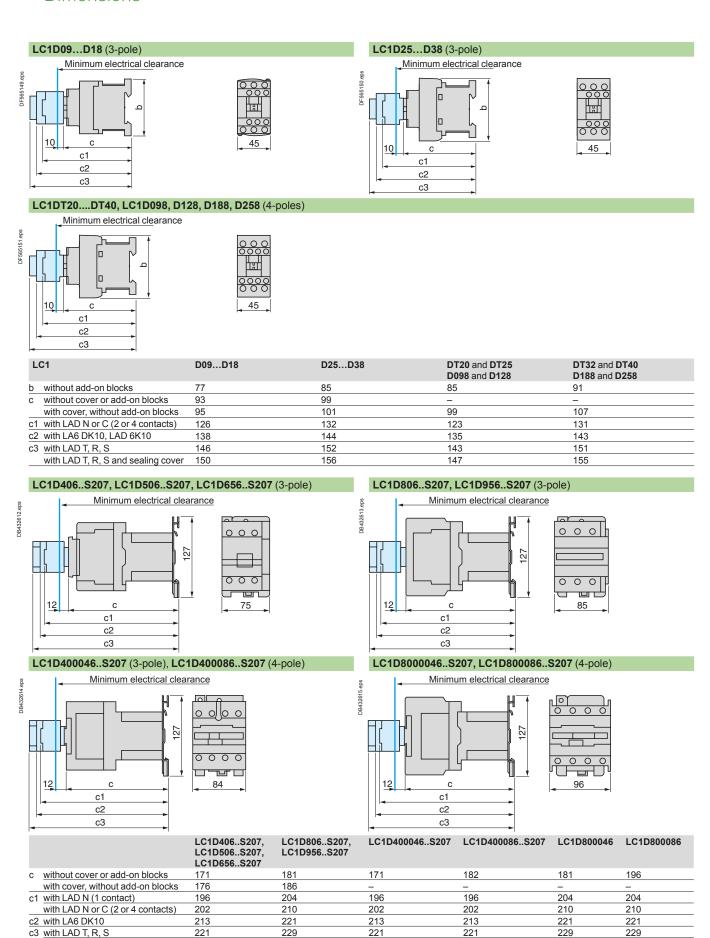
with LAD T, R, S and sealing cover

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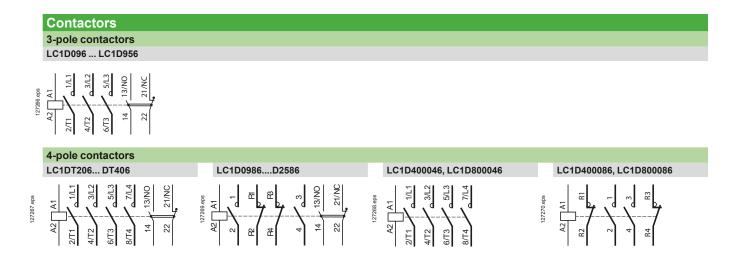
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Schemes



Contactor type			LC1G115 225	LC1G265 500	LC1G630 800
Rated insulation voltage (Ui)	Conforming to IEC 60947-4-1, overvoltage category III,	V	1000	1000	1000
Rated impulse withstand voltage (Uimp)	degree of pollution: 3 Coil not connected to the power circuit	kV	8	8	8
Conforming to standards			IEC/EN 60947-4-1, UL 6094 GB/T 14048.4, IEC 60721-3 EN 50155, TB/T 3526-2018	3-3 3C3, EN 45545 R22 HI	_2, IEC 61373, IEC 60077
Product certifications			CB scheme, CCC Mark, c	ULus, EAC, UKCA Markii	ng
Electromagnetic compatibility			IEC 60947-4-1		
Immunity		1	Following IEC 60947-4-1 T	Table 14	
Emission			Environment A according t	to IEC 60947-4-1	
Immunity to radiated electroma	anetic interference		20 V/m according to IEC/E		
Voltage sag immunity (in comp	<u> </u>	†	Conforming to SEMI-F47		
Degree of protection	Conforming to IEC 60529 / VDE 0106		IP2x with terminal shrouds	LA9G37●●/ LA9G47●●	
Climatic withstand			According to IACS E10		
Ambient air temperature around the device	Storage	°C	-60+80		
	Operation	°C	-25+60		
	Permissible at Uc	°C	-40+70		
Net weight	3P	kg	3.6	7.5	14.2
	4P	kg	4.4	8.2	18
Maximum operating altitude	Without derating	m	3000		
Operating positions	Without derating	DF510785.eps	20.000	DF 510784 gas	30°
	With derating (1)		DF537814.eps	DF537815.eps	}
Shock resistance 1/2 sine wave = 11 ms	Contactor open		10 gn	10 gn	10 gn
Conforming to IEC 60068-2-7	Contactor closed		15 gn	15 gn	15 gn
Vibration resistance 5300 Hz	Contactor open		2 gn	2 gn	2 gn
Conforming to IEC 60068-2-6	Contactor closed		4 gn	4 gn	4 gn

⁽¹⁾ For derating details, please contact your Technical Support.

Contactor type				LC1G115	LC1G150	LC1G185	LC1G225	
Number of poles				3 or 4	3 or 4	3 or 4	3 or 4	
Rated operational	Ue ≤ 400 V	3P In AC-3 / AC-3e, θ ≤ 60 °C	Α	115 / 115	150 / 145	185 / 177	225 / 209	
current (le)	Ue ≤ 1000 V	3P & 4P In AC-1, θ ≤ 40 °C	Α	250	275	305	330	
Rated operational v	voltage	Up to	٧	1000 (1)	1000	1000	1000	
Rated frequency (f)	(2)		Hz	50 / 60	50 / 60	50 / 60	50 / 60	
Frequency operating	ig limits	With derating (3)	Hz	16 ^{2/3} 400	162/3400	162/3400	162/3400	
Conventional thermal current θ ≤		θ ≤ 40 °C	Α	250	275	305	330	
Rated making capa	icity	I rms conforming to IEC 60947-4-1	Α		: 10 x I in AC-3 or 1 : 13 x I in AC-3e	2 x I in AC-4		
Rated breaking capacity I rms conforming to IEC 60947-4-1				Making and breaking current: 8 x I in AC-3 or 10 x I in AC-4 Making and breaking current: 8.5 x I in AC-3e				
Maximum permissil		For 10 s		1100	1200	1500	1800	
No current flowing		For 30 s	Α	640	700	920	1000	
60 minutes, at $\theta \le 4$	10 °C	For 1 min	Α	520	600	740	850	
		For 3 min	Α	400	450	500	560	
		For 10 min	Α	320	350	400	440	
Short-circuit protect by fuses	tion	Fuses for motor: type aM - Ue ≤ 440 V	Α	125	160	200	250	
		Fuses for motor: type aM - Ue ≤ 690 V	Α	125	160	160	200	
		Fuses for general application: type gG - Ue ≤ 690 V	Α	315	315	315	400	
Average impedance	e per pole	At Ith and 50 Hz	mΩ	0.18	0.18	0.17	0.15	
Power dissipation p	er pole	AC-3/AC-3e	w	3	5	6	8	
for the above operational currents		AC-1	w	10	10	20	20	

⁽¹⁾ $Ue \le 1000 \text{ V for AC-1}/Ue \le 690 \text{ V for AC-3/AC-3e/AC-4}$.

⁽²⁾ Please consult your technical support team for application with frequencies other than 50/60 Hz.

⁽³⁾ For derating details, please contact technical support.

	LC1G330	LC1G400	LC1G500	LC1G630	LC1G800
3 or 4	3 or 4	3 or 4	3 or 4	3 or 4	3 or 4
265 / 255	330 / 294	400/391	500 / 437	630 / 555	800 / 587
385	440	550	700	1050	1050
1000	1000	1000	1000	1000	1000
50 / 60	50 / 60	50 / 60	50 / 60	50 / 60	50 / 60
162/3400	162/3400	162/3400	16 ^{2/3} 400	16 ^{2/3} 400	162/3400
385	440	550	700	1050	1050
Making and break	ng current: 8 x I in AC-3 or 10 ng current: 8.5 x I in AC-3e		14000	LEGEO	5500
	<u> </u>				
2200	2650	3600	4000	5050	5500
1230	1800	10400			
		2400	2800	4400	4600
	1300	1700	2200	3400	3600
950 620 480	1300	1700	2200	3400	3600
520 480	1300 900	1700 1200	2200 1500	3400 2200	3600 2600
815	1300 900 750	1700 1200 1000	2200 1500 1200	3400 2200 1600	3600 2600 1700
120 180 115	1300 900 750 400	1700 1200 1000 500	2200 1500 1200 500	3400 2200 1600 630	3600 2600 1700 800
320 180 315 250	1300 900 750 400 250	1700 1200 1000 500 315	2200 1500 1200 500 400	3400 2200 1600 630	3600 2600 1700 800 630
620	1300 900 750 400 250	1700 1200 1000 500 315 630	2200 1500 1200 500 400	3400 2200 1600 630 500	3600 2600 1700 800 630

Power circuit connections													
Contactor type			LC1	G115	G150	G185	G225	G265	G330	G400	G500	G630	G800
Connection	Connection			Maximu	Maximum c.s.a.								
	Bar	Number of bars		2	2	2	2	2	2	2	2	2	2
		Bar	mm	25 x 6	25 x 6	25 x 6	25 x 6	32 x 10	32 x 10	32 x 10	32 x 10	52 x 20	52 x 20
	Cable with lug		mm²	185	185	185	185	240	2 x 150	2 x 185	2 x 240	-	-
	Cable with con	nector	mm²	185	185	185	185	240	-	-	-	-	-
	Bolt diameter		mm	Ø8.5	Ø8.5	Ø8.5	Ø8.5	Ø10.6	Ø10.6	Ø10.6	Ø10.6	Ø13	Ø13
Tightening torque	Power circuit connections		N.m	18	18	18	18	35	35	35	35	58	58

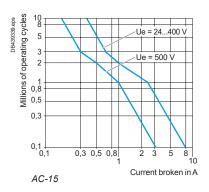
Contactor type					LC1G115225	LC1G265330	LC1G400500	LC1G630800
Coil control connect	ion (Push-	in type)	Т		Min/max c.s.a.			
Flexible	cable	1 conductor with cable end	mm²		0.252.5	0.252.5	0.252.5	0.252.5
		2 conductors with Dual Sleeve	mm²		0.51	0.51	0.51	0.51
Solid ca	able	1 conductor	mm²		0.22.5	0.22.5	0.22.5	0.22.5
		Stripping length	mm	—	12	12	12	12
Screw driver		Flat screwdriver Ø	mm		3.5	3.5	3.5	3.5

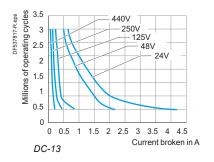
Contactor type					LC1G115225	LC1G265330	LC1G400500	LC1G630800	
Rated control circuit voltage (Uc)				V	48130 AC/DC	48130 AC/DC			
Control voltage	AC input (50/60 H	z) Operatio	Operation Drop-out		0.8 Uc Min1.1 Uc Max				
(θ ≤ 60 °C)		Drop-out			0.1 Uc Max0.4	5 Uc Min			
Average consumption at 20 °C and at Uc	48130 V AC/DC coil (EHE)	Inrush	50/60 Hz coil	VA	640	780	965	990	
(3 and 4-pole contactors)	con (Ent.)		DC	W	445	695	760	790	
contactors)		Sealed	50/60 Hz coil	VA	18.7	17.6	17.6	18.7	
			DC	w	7.8	7.8	7.8	9.5	
Heat dissipation				w	56	67	67	67	
Operating time	Closing "C	Closing "C"		ms	4070	4070	4070	4070	
	Opening "	O"		ms	1550	1550	1550	1550	
Mechanical durability at	Uc In millions	of operating	cycles (max)		8	8	8	5	
Maximum operating rate		g cycles	AC-1		300	300	300	300	
at ambient temperature ≤ 60 °C	per hour		AC-3		500	500	500	500	
			AC-4		150	150	60	60	

Mechanically linked contacts	Conforming to IEC 60947-5-1			Each contactor is equipped with 1 NO + 1 NC auxiliary contact block and they are mechanically linked mirror contacts
Mirror contact	Conforming to	IEC 60947-4-1		The NC contact of the auxiliary contact block is mirror contact
Rated operational voltage (Ue)	AC-15	Up to	V	500
Rated operational voltage (Ue)	DC-13	Up to	V	440
Conventional thermal current (Ith)	For ambient to ≤ 60 °C	emperature	Α	10

Characteristics

Characteristics of	auxiliary co	ntact modules		
Number of auxiliary contact modules		Up to		4
Rated operational voltage (Ue)	AC-15	Up to	V	500
Rated operational voltage (Ue)	DC-13	Up to	V	440
Rated thermal current (Ith)	For ambient temperature ≤ 60 °C		Α	10
Minimum load				1 mA at 17 V DC





Operational power of contacts conforming to IEC 60947-5-1 - Electrical durability

category AC-15

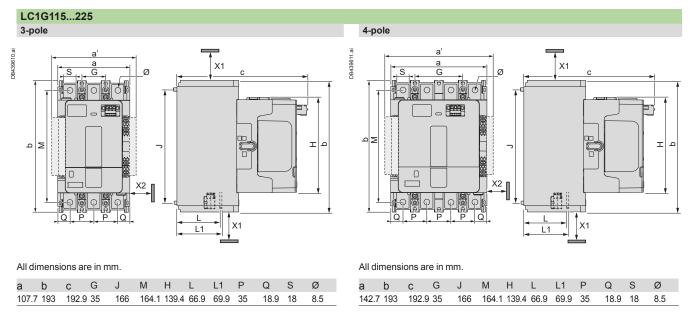
Operating cycles	V	24	48	115	230	400	500
1 million	VA	60	120	280	560	800	500
2 million	VA	24	48	115	230	400	250
3 million	VA	16	32	80	160	280	150

category DC-13

Operating cycles	٧	24	48	125	250	440
0.5 million	W	100	100	105	110	88
1 million	W	48	72	54	54	55
2 million	W	24	36	38	38	39
3 million	W	16	24	25	25	33

Conne	ctor characteri	stics		
Push-in c	connection - Dual i		Min/max c.s.a.	
	Flexible cable	1 conductor with cable end		0.752.5
	per input	2 conductors with Dual Sleeve	mm²	0.752.5
		Stripping length	mm²	10
	Solid cable	1 conductor	mm²	0.752.5
	per input	Stripping length	mm	 12

Dimensions



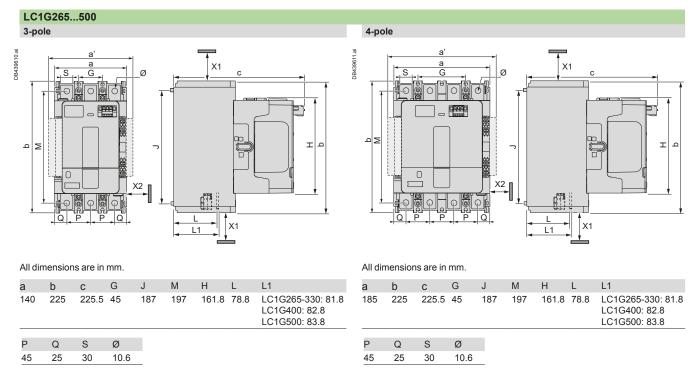
X1 (mm) = Minimum electrical clearance.

LC1G115...800, up to 1000 V: 40 mm

X2 (mm) = Minimum electrical clearance according to operating voltage inside metallic cabinets / adjacent installation of contactors.

LC1G115...800: 5 mm.

a' = a + 20 mm with additional auxiliary contact blocks on both sides (externally).



X1 (mm) = Minimum electrical clearance.

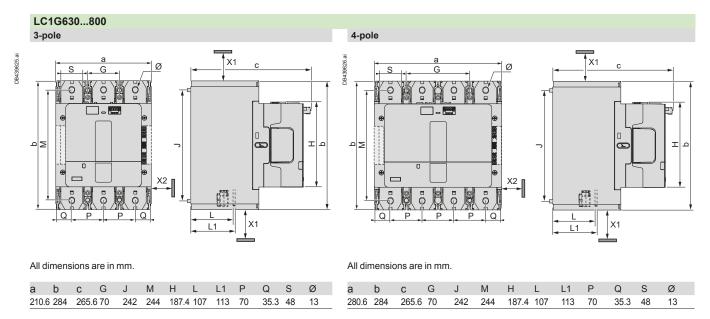
LC1G115...800. up to 1000 V: 40 mm.

X2 (mm) = Minimum electrical clearance according to operating voltage inside metallic cabinets / adjacent installation of contactors.

LC1G115...800: 5 mm.

a' = a + 20 mm with additional auxiliary contact blocks on both sides (externally).

Dimensions and schemes



X1 (mm) = Minimum electrical clearance.

LC1G115...800, up to 1000 V: 40 mm.

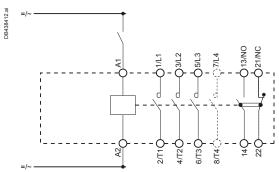
X2 (mm) = Minimum electrical clearance according to operating voltage inside metallic cabinets / adjacent installation of contactors.

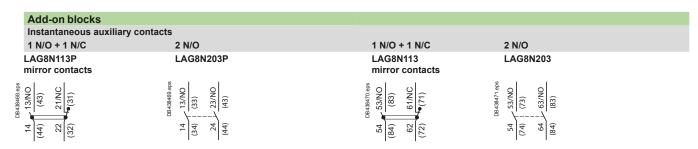
LC1G115...800: 5 mm.

Contactors

3-pole or 4-pole contactors

LC1G115...G800





Note: Terminal numbers in brackets refer to blocks when mounted upside down, on left-hand side of contactor.



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