Tesys Control

TeSys K, Deca, Giga S207 Series Contactors for Railway Applications Catalog 2025







Life Is On Schneider

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TeSys Control **TeSys** K, **TeSys** Deca and **TeSys** Giga contactors Introduction

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



TeSys Control **TeSys** K, **TeSys** Deca and **TeSys** Giga contactors 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.

Schneider Electric load control solutions in the move



TeSys Deca S207, possible association with other EN 45545 R22 HL2 compliant TeSys components



GV2P thermal magnetic circuit breaker



LRD thermal overload relay

TeSys Control

TeSys K, TeSys Deca and TeSys Giga contactors

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.



TeSys Control TeSys K, TeSys Deca and TeSys Giga contactors

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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:

- \bullet 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.

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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.

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.

⁵B123924.tif



GV2P



PB123925.tif

LRD

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 42 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, 800 A

- 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
- 200...500 V AC/DC⁽¹⁾ wide range coil control
- Modular design enables faster & easy maintenance.

⁽¹⁾ Available only on LC1G630 & LC1G800 3P ratings.

Product references



LC1K12016FLS207

3-pole	e contact	ors for Moto	or control	- co	nnectio	n by lugs	
Standar of 3-pha in categ	d power ratin ise motors 50 ory AC-3	igs 9-60 Hz	Rated operational current	Insta auxil conta	ntaneous iary acts	Commercial reference Replace dots by coil voltage code (see chart below)	Weight
220 V 230 V	380 V 415 V	440/500 V 660/690 V	440 V up to		ł		
kW	kW	kW	Α				kg
1.5	2.2	3	6	1	-	LC1K06106eeS207	0.23
				_	1	LC1K06016eeS207	0.23
2.2	4	4	9	1	-	LC1K09106eeS207	0.23
				_	1	LC1K09016eeS207	0.23
3	5.5	5.5 (≤ 440 V)	12	1	_	LC1K12106eeS207	0.23
		4 (≥480 V)		_	1	LC1K12016eeS207	0.23



LC1KT206FLS207



CAK226FLS207



LA1KN11

4-pole contactors - conn	ectior	ו by ו	lugs			
Non inductive loads Category AC-1 Maximum current at (θ ≤ 50 °C)	Nun of p	nber oles	Insta auxil cont	intaneous liary acts	Commercial reference Replace dots by coil voltage code (see chart below)	
Α						
20	4	-	-	-	LC1KT206eeS207	0.235
	2	2	-	-	LC1K0986eeS207	0.235

Control circuit consumption	Auxi cont	liary acts	Commercial reference Replace dots by coil voltage code (see chart below)	
		Ļ		
th = 10 A	4	-	CAK406eeS207	0.235
	3	1	CAK316eeS207	0.235
	2	2	CAK226eeS207	0.235

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

Instantaneous auxiliary contact blo	cks ⁽¹⁾		
Recommended for standard applications, Cl	lip-on f	ront mo	unting, 1 block per contactor
Connection	Comp	osition	Reference
	Ì	Ļ	
Screw clamp terminals	2	-	LA1KN20
	_	2	LA1KN02
	1	1	LA1KN11
Lug terminals	2	2	LA1KN226
	4	-	LA1KN406

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

Characteristics: pages 16 to 19

Product references





LC1D406FWS207



LC1D806FWS207



LC1DT206FDS207



LC1D400046FWS207



LC1D800086FWS207

3-ро	le cor	ntacto	ors fo	r Mot	or co	ntrol	- conr	nec	tion	by lugs		
Standa of 3-ph in cate (θ ≤ 60	ard pow lase mo gory AC °C)	er rating tors 50- C-3/AC-3	gs ∙60 Hz 3e				Rated opera- tional current	Ins tar au co	stan- neous xiliary ntacts	Commercial refere Replace dots by co (see chart below)	ence oil voltage code	Weight
220 V 230 V	380 V 415 V	415 V	440 V	500 V	660 V 690 V	1000 V	AC-3/ AC-3e 440 V up to		Ļ	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	LC1D096eeS207		0.320
3	5.5	5.5	5.5	7.5	7.5	_	12	1	1	LC1D126eeS207		0.325
4	7.5	9	9	10	10	_	18	1	1	LC1D186eeS207		0.330
5.5	11	11	11	15	15	-	25	1	1	LC1D256eeS207		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	-	LC1D406eeS207	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	_	LC1D656eeS207	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

4-pole contactors for	Resist	ive l	oad	contro	ol - connection b	y lugs	
Non inductive loads maximum current ($\theta \le 60$ °C) utilisation category AC-1	Num of po	iber bles	Inst tan aux con	an- eous iliary tacts	Commercial referen Replace dots by coil (see chart below)	ce I voltage code	Weight
	7	7		Ļ	coil with surge suppressor ⁽¹⁾	Coil without surge suppressor	
Α							kg
20	4	-	1	1	LC1DT206eeS207		0.365
	2	2	1	1	LC1D0986eeS207		0.365
25	4	-	1	1	LC1DT256eeS207		0.365
	2	2	1	1	LC1D1286eeS207		0.365
32	4	-	1	1	LC1DT326eeS207		0.425
	2	2	1	1	LC1D1886.S207		0.425
40	4	-	1	1	LC1DT406eeS207		0.425
	2	2	1	1	LC1D2586eeS207		0.425
60	4	-	-	_	_	LC1D400046eeS207	2.210
	2	2	-	_	_	LC1D400086eeS207	2.210
125	4	-	_	_	_	LC1D800046eeS207	2.685
	2	2	-	_	_	LC1D800086eeS207	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, LC1	D2586			
U 0.71.25 Uc	BD	SD	-	FD
Low consumption coils for LC1D096 D386, LC1DT206D	T406, LO	C1D258	6	
U 0.71.25 Uc	BL	SL	DL	FL
Wide voltage range coils for LC1D406 956, LC1D400046	. 800086	5		
U 0.71.25 Uc	BW	SW	-	FW

Dimensions, schemes: page 25

Product references



Contactors for con	trol circ	uit - conn	ection by I	lugs							
Rated max operating current (le)	Com	Comme Replace (see cha	Commercial reference Replace dots by coil voltage code (see chart below)								
		Ļ	coil with surge s	า uppress	sor						
Α											
5-pole contactors for co	ontrol circ	uits									
10	3	2	CAD326	6eeS207	7						
	5	-	CAD506	6eeS207	7						
Coil voltage codes											
DC Volts			24	72	96	110					
Standard coils for CAD326,	CAD506										

CAD326FDS207



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	Compo	sition	Reference	
			ł		
Front	2	1	1	LADN116	
		2	-	LADN206	
		-	2	LADN026	
	4	2	2	LADN226	
		1	3	LADN136	
		4	-	LADN406	
		-	4	LADN046	
		3	1	LADN316	

Maxin	Maximum number of auxiliary contacts that can be fitted						
Conta	ctors		Instantaneous auxiliary conta	act blocks			
Type Number of poles and size		nber of poles and size	Side mounted	Front mounte	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		
LC (3)	3P	LC1 D09D38	-	1	-		
	4P	LC1 DT20DT40	-	1	-		

0F537790.eps and the second s

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				

LAD4T.

(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.

Characteristics: pages 21 to 24

Product references



LC1G115EHES207N



LC1G265EHES207N



LC1G630EHES207N



LC1G1154EHES207N



LC1G2654EHES207N



Side mounting –

3-ро	le co	ntacto	ors fo	or Moi	tor co	ntrol -	 connect 	ctior	ו by I	ugs / bars	
Standa of 3-pl in cate (θ ≤ 60	ard pow hase mo egory A() °C)	ver ratin otors 50 C-3	gs -60 Hz				Rated opera- tional current	Inst tan aux con	tan- eous tiliary tacts	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	LC1G115EHES207•	3.600
37	75	75	90	90	90	75	150	1	1	LC1G150EHES207•	3.600
55	90	90	110	110	110	75	185	1	1	LC1G185EHES207	3.600
55	110	110	132	132	160	132	225	1	1	LC1G225EHES207•	3.600
75	132	132	160	160	200	160	265	1	1	LC1G265EHES207•	7.500
90	160	160	200	200	220	185	330	1	1	LC1G330EHES207•	7.500
110	200	200	250	250	315	220	400	1	1	LC1G400EHES207•	7.500
160	250	250	315	355	355	335	500	1	1	LC1G500EHES207.	7.500
200	335	375	400	400	500	450	630	1	1	LC1G630EHES207•	14.200
250	450	450	450	500	560	450	800	1	1	LC1G800EHES207.	14.200
										200500 V AC/DC coil	
200	335	375	400	400	500	450	630	1	1	LC1G630LSES207N	14.200
250	450	450	450	500	560	450	800	1	1	LC1G800LSES207N	14.200

4-pole contactors for Resistive load	contro	l - co	onne	ectior	n by lugs / bars	
Non inductive loads maximum current (θ ≤ 40 °C) utilisation category AC-1	Num of po	ber bles	Instan- taneous auxiliary contacts		Commercial reference 48130 V AC/DC coil	Weight
Α						kg
250	4	-	1	1	LC1G1154EHES207•	4.400
275	4	-	1	1	LC1G1504EHES207.	4.400
305	4	-	1	1	LC1G1854EHES207.	4.400
330	4	-	1	1	LC1G2254EHES207.	4.400
385	4	-	1	1	LC1G2654EHES207.	8.200
440	4	-	1	1	LC1G3304EHES207.	8.200
550	4	-	1	1	LC1G4004EHES207.	8.200
700	4	-	1	1	LC1G5004EHES207.	8.200
1050	4	-	1	1	LC1G6304EHES207.	18.000
1050	4	-	1	1	LC1G8004EHES207.	18.000
Note: Please complete the Commercial reference by	enlacina	the "	" hv tl	he Cont	actor version code:	

	LC1G115EHES20	(•	
Contactor version	Standard	Advanced (1)	
Code	N	Α	

(1) Advanced contactor version has a lower coil consumption, please refer to page 30 for more details.



Auxiliary contact modules					
Description	Terminal type	Position	Type of contacts	Sold in lots of	Reference
Auxiliary	Push-in	1 st left or right	1 NO + 1 NC	1	LAG8N113P (2)
contact			2 NO	1	LAG8N203P
module		2 nd left or right	1 NO + 1 NC	1	LAG8N113
			2 NO	1	LAG8N203

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

maximum 2 per side

Dimensions, schemes: pages 32 and 33

Characteristics: pages 27 to 31 12 Life Is On

Schneider Gelectric

DB438480.ai

Product references



LX1G3QLSEA

Control module

Wide band electronic control 48 V...130 V 50/60 Hz or DC control input Advanced and standard versions Accessible from the front for easy and quick replacement

The control module is needed for the operation of the contactor. It performs the following functions:

- proper functioning of contactor based on the input control voltage
- monitoring and diagnostics of the pole condition
- generation of signaling commands.

The range of control modules is organized:

- per contactor size and for each rating,
- per control voltage range.

Each module has connectors for connecting:

- the coil control A1, A2 circuit & PLC output control (advanced version)
- pole status and diagnostic signaling circuits.



Control module replacement on a 3-pole contactor

Control modul	es			
Description		For contactors	References per voltage range (V AC/DC)	
			48 - 130	
Control modules for	3-pole	LC1G115LC1G225	LX1G3QEHEA	
Advanced contactors		LC1G265LC1G330	LX1G3REHEA	
		LC1G400LC1G500	LX1G3SEHEA	
		LC1G630LC1G800	LX1G3TEHEA	
	4-pole	LC1G115LC1G225	LX1G4QEHEA	
		LC1G265LC1G330	LX1G4REHEA	
		LC1G400LC1G500	LX1G4SEHEA	
		LC1G630LC1G800	LX1G4TEHEA	
			48 - 130	
Control modules for	3-pole	LC1G115LC1G225	LX1G3QEHEN	
Standard contactors		LC1G265LC1G330	LX1G3REHEN	
		LC1G400LC1G500	LX1G3SEHEN	
		LC1G630LC1G800	LX1G3TEHEN	
	4-pole	LC1G115LC1G225	LX1G4QEHEN	
		LC1G265LC1G330	LX1G4REHEN	
		LC1G400LC1G500	LX1G4SEHEN	
		LC1G630LC1G800	LX1G4TEHEN	

Replaceable switching modules

Innovative contact switching modules for TeSys Giga High power contactors

Replace worn-out poles with a new switching module in minutes, without having

- to disassemble the whole product
- No special tools are needed for the replacement.

TeSys Giga - S contactors , A	Switchi dvanc	ing modules for 1 ed and Standard	ſeSys Giga versions	High power
Description	For con	tactors	Quantity Set of	Reference
3 or 4 switching	3-pole	LC1G115LC1G225	3	LA9G3QA
module kits		LC1G265LC1G330	3	LA9G3RA
		LC1G400LC1G500	3	LA9G3SA
		LC1G630LC1G800	3	LA9G3TA
	4-pole	LC1G115LC1G225	4	LA9G4QA
		LC1G265LC1G330	4	LA9G4RA
		LC1G400LC1G500	4	LA9G4SA
		LC1G630LC1G800	4	LA9G4TA

Note: In the event of replacement, replace all switching modules. After replacement, change the position of RESET button on the control module from A to B or B to A.



Switching module kits

TeSys Control TeSys K, TeSys Deca and TeSys Giga contactors

Product references

CAD326BDS207
CAD326BLS207
CAD326FDS207
CAD326FLS207
CAD326SDS207
CAD326SLS207
CAD506BDS207
CAD506FDS207
CAD506FLS207
CAD506SDS207
CAK226BLS207
CAK226FLS207
CAK226SLS207
CAK316BLS207
CAK316FLS207
CAK316SLS207
CAK406BLS207
CAK406FLS207
CAK406SLS207
LA1KN02
LA1KN11
LA1KN20
LA1KN226
LA1KN406
LAD4TBDL
LAD4TGDL
LAD4TSDL
LADN026
LADN046
LADN116
LADN136
LADN206
LADN226
LADN316
LADN406
LC1D096BDS207
LC1D096BLS207
LC1D096FDS207
LC1D096FLS207
LC1D096SDS207
LC1D096SLS207
LC1D0986BDS207
LC1D0986BLS207
LC1D0986FDS207
LC1D0986FLS207
LC1D0986SLS207
LC1D126BDS207
LC1D126BLS207
LC1D126FDS207
LC1D126FLS207
LC1D126FLXS207
LC1D126SDS207

LC1D126SLS207 LC1D1286BDS207 LC1D1286BLS207 LC1D1286FDS207 LC1D1286FLS207 LC1D1286SLS207 LC1D186BDS207 LC1D186BLS207 LC1D186FDS207 LC1D186FLS207 LC1D186SDS207 LC1D186SLS207 LC1D1886BLS207 LC1D1886FDS207 LC1D1886FLS207 LC1D256BDS207 LC1D256BLS207 LC1D256FDS207 LC1D256FLS207 LC1D256SDS207 LC1D256SLS207 LC1D256SLXS207 LC1D2586BDS207 LC1D2586BLS207 LC1D2586FDS207 LC1D2586FLS207 LC1D2586SLS207 LC1D326BDS207 LC1D326BLS207 LC1D326FDS207 LC1D326FLS207 LC1D326SDS207 LC1D326SLS207 LC1D386BDS207 LC1D386BLS207 LC1D386FDS207 LC1D386FLS207 LC1D386SDS207 LC1D386SLS207 LC1D400046BWS207 LC1D400046FWS207 LC1D400046SWS207 LC1D400086BWS207 LC1D400086FWS207 LC1D400086SWS207 LC1D406BWS207 LC1D406FWS207 LC1D406SWS207 LC1D506BWS207 LC1D506FWS207 LC1D506SWS207 LC1D656BWS207

LC1D656FWS207 LC1D656SWS207 LC1D800046BWS207 LC1D800046FWS207 LC1D800046SWS207 LC1D800086BWS207 LC1D800086FWS207 LC1D800086SWS207 LC1D806BWS207 LC1D806FWS207 LC1D806SWS207 LC1D956BWS207 LC1D956FWS207 LC1D956SWS207 LC1DT206BDS207 LC1DT206BLS207 LC1DT206FLS207 LC1DT206SLS207 LC1DT256BDS207 LC1DT256BLS207 LC1DT256FDS207 LC1DT256FLS207 LC1DT256SDS207 LC1DT326BDS207 LC1DT326FLS207 LC1DT406BDS207 LC1DT406BLS207 LC1DT406FDS207 LC1DT406FLS207 LC1DT406SDS207 LC1DT406SLS207 LC1G1154EHES207A LC1G1154EHES207N LC1G115EHES207A LC1G115EHES207N LC1G1504EHES207A LC1G1504EHES207N LC1G150EHES207A LC1G150EHES207N LC1G1854EHES207A LC1G1854EHES207N LC1G185EHES207A LC1G185EHES207N LC1G2254EHES207A LC1G2254EHES207N LC1G225EHES207A LC1G225EHES207N LC1G2654EHES207A LC1G2654EHES207N LC1G265EHES207A LC1G265EHES207N

LC1G3304EHES207N LC1G330EHES207A LC1G330EHES207N LC1G4004EHES207A LC1G4004EHES207N LC1G400EHES207A LC1G400EHES207N LC1G5004EHES207A LC1G5004EHES207N LC1G500EHES207A LC1G500EHES207N LC1G6304EHES207A LC1G6304EHES207N LC1G630EHES207A LC1G630EHES207N LC1G630LSES207N LC1G8004EHES207A LC1G8004EHES207N LC1G800EHES207A LC1G800EHES207N LC1G800LSES207N LC1K06016BLS207 LC1K06016FLS207 LC1K06016SLS207 LC1K06106BLS207 LC1K06106FLS207 LC1K06106SLS207 LC1K09016BLS207 LC1K09016FLS207 LC1K09016SLS207 LC1K09106BLS207 LC1K09106FLS207 LC1K09106SLS207 LC1K0986BLS207 LC1K0986FLS207 LC1K12016BLS207 LC1K12016FLS207 LC1K12016SLS207 LC1K12106BLS207 LC1K12106FLS207 LC1K12106SLS207 LC1KT206BLS207 LC1KT206FLS207 LC1KT206SLS207 LC2D096SLS207 LRD08S207 LRD10S207 LRD12S207 LRD16S207

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LC1G3304EHES207A

Technical Data for Designers

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Environment chara	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	•		Vertical axis Horizontal axis
		DF611522.eps	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 voltage (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	1	N° 2
	Flat screwdriver Ø	mm	Ø6
Tightening torque		N.m	1.1 recommended, 1.3 max

Pole characteristics										
Туре				LC1K06	LC1K09, LC1KT09, LC1KT20	LC1K12				
Conventional thermal current (Ith)	For ambient temp ≤ 50 °C	erature	A	20						
Rated operational frequency			Hz	50/60						
Frequency limits of the operational curre	nt		Hz	Up to 400						
Rated operational voltage (Ue)			V	690	690					
Rated making capacity	I rms conforming NF C 63 110 and	to IEC 60947	A	110	110	144				
Rated breaking capacity	I rms conforming	220/230 V	A	110	110	-				
	to NF C 63 110	380/400 V	A	110	110	-				
		415 V	A	110	110	-				
		440 V	A	110	110	110				
		500 V	A	80	80	80				
		660/690 V	A	70	70	70				
Permissible short	In free air for a	1 s	A	90	90	115				
time rating	time "t" from cold	5 s	A	85	85	105				
	state ($\theta \le 50$ °C)	10 s	Α	80	80	100				
		30 s	A	60	60	75				
		1 min	Α	45	45	55				
		3 min	Α	40	40	50				
		≥ 15 min	A	20	20	25				
Short-circuit protection	gG fuse U ≤ 440 \	/	Α	25	1					
Average impedance per pole	At Ith and 50 Hz		mΩ	3						
Use in category AC-1 resistive circuits, heating, lighting (Ue ≤	Maximum rated o current for a temp	perational erature ≤ 50 °C	A	20						
440 V)	Maximum rated o current for a temp	perational erature ≤ 70 °C	A	16 for Ue only						
	Rated operationa	l current limits		On-load factor		90 %				
	in relation to the o	n-load factor	Α	300 operating cycles/ho	ur	13				
	and operating free	quency	Α	120 operating cycles/ho	ur	15				
			A	30 operating cycles/hou	r	19				
	Increase in rated	operational		Apply the following coeff	ficients to the above curren	nts; these coefficients take				
	current by paralle	ing of poles		2 noles in narallel: $K = 1$	60	inent between the poles				
				3 poles in parallel: $K = 2$	25					
				4 poles in parallel: K = 2	.80					
Use in category AC-3	Operational	115 V single-ph.	kW	0.37	0.55	_				
squirrel cage motors	power according	220 V single-ph.	kW	0.75	1.1	-				
	to the voltage.	220/230 V 3-ph.	kW	1.5	2.2	3				
	Voltage 50 or	380/415 V 3-ph.	kW	2.2	4	5.5				
	00112	440/480 V 3-ph.	kW	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	ng rate		Op. cycles/h	1	600				
	(in operating cycle relation to % of ra	es/hour in ted power)		Power		100 %				

Control circuit char	acteristics			
Туре			LC1K, LC1KT	САК
Rated control circuit voltage (U	c)	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 I	Jc			
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	aks	ms	2	2
Maximum operating rate	In operating cycles per hour		3600	6000
Mechanical durability at Uc In millions of operating cycles			30	30

Characteristics

LC1K auxiliary conta	acts, CAK						
Number of auxiliary contacts	On LP• K 3-pole			1			
Rated operational voltage (Ue)	Ue) Up to			Up to		v	690
Rated insulation voltage (Ui)	Conforming to BS 542	24	v	690			
	Conforming to IEC 60	947	v	690			
	Conforming to VDE 01	10 group C	v	750			
	Conforming to CSA C	22-2 n° 14	v	600			
Conventional thermal current (Ith)	For ambient temperat	ture ≤ 50 °C	Α	10			
Frequency of the operational current			Hz	Up to 400			
Minimum switching	U min (DIN 19 240)		v	17			
capacity	l min		mA	5			
Short-circuit protection	Conforming to IEC 60 and VDE 0660, gG fu	947 se	Α	10			
Rated making capacity	Conforming to IEC 60947	l rms	A	110			
Short-time rating	Permissible for	1 s	Α	80			
		500 ms	Α	90			
		100 ms	A	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	v	24	48	110/ 127	220/ 230	380/ 400	440	600/ 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

Dimensions and schemes



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3-pole contactor characteristics													
Contactor type			LC1D096	LC1D126	LC1D186	LC1D256	LC1D326	LC1D386	LC1D406	LC1D506	LC1D656	LC1D806	LC1D956
Rated operational	In AC-3 / AC-3e, $\theta \leq 60 \ ^{\circ}C$	A	9	12	18	25	32	38	40	50	65	80	95
current (le) (Ue ≤ 440 V)	In AC-1, θ ≤ 60 °C	A	25	25	32	40	50	50	60	80	80	125	125
Rated operational voltage (Ue)	Up to	v	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	A	25	25	32	40	50	50	60	80	80	125	125
Rated making capacity (440 V)	Conforming to IEC 60947	A	250	250	300	450	550	550	800	900	1000	1100	1100
Rated breaking capacity (440 V)	Conforming to IEC 60947	A	250	250	300	450	550	550	800	900	1000	1100	1100
Permissible short time rating	For 1 s	A	210	210	240	380	430	430	720	810	900	990	1100
No current flowing for	For 10 s	A	105	105	145	240	260	310	320	400	520	640	800
15 minutes with $\theta \le 40$ °C	For 1 min	A	61	61	84	120	138	150	165	208	260	320	400
	For 10 min	A	30	30	40	50	60	60	72	84	110	135	135
Fuse protection against short-	Without type 1 thermal	A	25	40	50	63	63	63	80	100	160	200	200
circuits (U ≤ 690 V)	overload type 2 relay, gG fuse	A	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

Characteristics

4-pole con	tactor chara	acte	ristics					
Contactor type			LC1D0986 LC1DT206	LC1D1286 LC1DT256	LC1D1886 LC1DT326	LC1D2586 LC1DT406	LC1D400046 LC1D400086	LC1D800046 LC1D800086
Rated operational	In AC-3 / AC-3e, $\theta \leq 60 \ ^{\circ}C$	A	9	12	18	25	40 (1)	80 (2)
current (Ie) (Ue ≤ 440 V)	In AC-1, θ ≤ 60 °C	A	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 (lth)	θ ≤ 60 °C	A	20	25	32	40	60	125
Rated making capacity (440 V)	Conforming to IEC 60947	A	250	250	300	450	800	1100
Rated breaking capacity (440 V)	Conforming to IEC 60947	A	250	250	300	450	800	1100
Permissible short time rating	For 1 s	A	210	210	240	380	720	990
No current flowing for	For 10 s	A	105	105	145	240	320	640
15 minutes with $\theta \le 40$ °C	For 1 min	A	61	61	84	120	165	320
	For 10 min	A	30	30	40	50	72	135
Fuse protection against short-	Without type 1 thermal	A	25	40	50	63	80	200
circuits (U ≤ 690 V)	overload type 2 relay, gG fuse	A	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.

Characteristics

Environment									
Contactor type			LC1D096D186, LC1DT206 and LC1DT256	LC1D256D386, LC1DT326 and LC1DT406	LC1D406D956, 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			IEC/EN 60947-4-1, IEC/EN 6 EN 45545 R22 HL3, EN 455	60947-5-1, GB/T 14048.4, GB 45 R26 HL3, IEC/EN 61373	/Т 14048.5,				
Product certifications			IEC, CCC, EAC, UA, TR		IEC, CCC				
Degree of protection	Conforming to IEC 60529								
(front face)	Power circuit connections		Protection against direct fin						
	Coil connection		Protection against direct fin						
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		DB438106 eps]] 				
	Positions that are not permissible		For contactors LC1D09 to LC1D95.						
Flame resistance	Conforming to UL 94		VO						
	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		,				
	Contactor closed		4 gn	4 gn	3 gn				

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

Characteristics

Power circuit co	nnections								
Contactor type			LC1D096, LC1D126, LC1D186, LC1DT206, LC1DT256	LC1D1880 LC1DT32	6 LC1D256 6 LC1D326 LC1D386	LC1D258 LC1DT40	6 LC1D406, 6 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 OT SCIEW	Dhilipa / Dozidriv	mm	M3.5		M4	M3.5	M5		Mb
Sciewaniver	Filips / Fozian		Ø6		Ø6	Ø6	Ø8	Ø8	- Ø8
Key for hexagonal headed	d screw		-		-	-	-	-	10
Tightening torque		N.m	1.7		2.5	1.8	2.5	2.5	5
Control airquit a	onnostiono	^			<u>^</u>	*	·		
Control Circuit C	onnections								
	or lugs	mm	8						
Ø of screw		mm	M3.5						
Screwdriver	Philips / Pozidriv		N° 2						
	Flat screwdriver Ø		Ø6						
Tightening torque		N.m	1.7						
d c. control circu	uit characteristics								
Compatible contactor to			Standard co	oil	Low consump	tion coil W	ide range coil		
companyo contactor (j	100		Standard Con Low consumption con white range con LC1D096D386 LC1D096D386 LC1D406956 LC1D2586 LC1D2586 LC1D400046L			.C1D800086			
Rated insulation voltage	Conforming to IEC 60947-1	v	690						
Operating ranges	Side by side mounting		0.71.1 Uc		0.71.25 Uc	U	C		
from -40 to +70°C	With 8 mm spacing		0.71.25 U	c	-	-			
Operating ranges from -25 to +50°C	Side by side mounting		0.71.25 U	C	-	0.	7 1.25 Uc		
Average consumption at 20 °C and at Uc		w	5.4		4	22	2		
Operating time ⁽¹⁾ average at Uc	Closing of "C" NO contacts	ms	55 to 75		55 to 75	95	5 to 130		
	Opening of NC contacts	ms	45 to 65		45 to 65 -				
	Opening of "O" NO contacts	ms	16 to 32 (12 22 ms witho	to ut diode)	io16 to 32 (12 toit diode)22 ms without diode)) to 35		
	Closing of NC contacts	ms	27 to 42 (18 28 ms witho	to ut diode)	27 to 42 (18 to 28 ms without	diode)			
		Note: T the arci	The arcing time depends on the circuit switched by the poles. For all normal 3-phase appl cing time is less than 10 ms. The load is isolated from the supply after a time equal to the s upping time and the arcing time.						e applications, o the sum of
Time constant (L/R)		ms	28		37	7	5		
Mechanical durability at Uc	In millions of operating cycles		30		30	1()		
Maximum operating rate at ambient temperature ≤ 60 °C	In operating cycles per hour		3600		3600	36	600		
(1) The operating times de The closing time "C" is The opening time "O" i	epend on the type of contactor measured from the moment th is measured from the moment i	electrom ne coil su the coil s	agnet and its oply is switch upply is switch	control mod ed on to init hed off to th	de. tial contact of the ne moment the	ne main pole main poles	es. separate.		
Characteristics of	of auxiliary contacts	incor	porated i	n the co	ontactor				
Mechanically linked contacts	Conforming to IEC 60947-5-1		Each TeSys	Deca NO/I	NC embedded	auxilliary co	ntacts are certi	fied 'mechanio	caly linked'.
Mirror contact	Conforming to IEC 60947-4-1		All TeSys De module.	eca NC aux	illiary contacts	are 'miror' c	ertified and car	n be connecte	d to a safety
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	A	10						

Dimensions



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Schemes

Contactors 3-pole contactors LC1D096 ... LC1D956 0 3/L2 13/NO 21/NC 1/L1 127266.eps A A2 ∏ ¢ 22 4-pole contactors LC1DT206... DT406 LC1D0986....D2586 LC1D400046, LC1D800046 LC1D400086, LC1D800086 22 21/NC R2 R1 14 R3 R1 13100 22 21/NC 0 1/L1 5/L3 → 1/L1 → 3/L2 → 3/L3 → 7/L4 8³ 127269.eps A2 A1 ĸ .--127267.eps 127268.eps 127270.eps A2 🗆 A1 А2 ∏ А1 A1 -<u>+</u>-₹

Characteristics

Environment									
Contactor type			LC1G115 225	LC1G265 500	LC1G630 800				
Rated insulation voltage (Ui)	Conforming to IEC 60947-4-1, overvoltage category III, degree of pollution: 3	V	1000	1000	1000				
Rated impulse withstand voltage (Uimp)	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,	7-4-1, CSA C22.2 n° 60947-4- -3 3C3, EN 45545 R22 HL2, IE GB 21413-1/2, GB/T 25119, (1, JIS C 8201-4-1, EC 61373, IEC 60077, GB/T 21563-2018				
Product certifications			CB scheme, CCC Mark, cl	JLus, EAC, UKCA Marking					
Electromagnetic compatibility			IEC 60947-4-1						
Immunity			Following IEC 60947-4-1 Ta	able 14					
Emission			Environment A according to	IEC 60947-4-1					
Immunity to radiated electroma	gnetic interference		20 V/m according to IEC/EI	N 61000-4-3					
Voltage sag immunity (in compl	ete product as well)		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	3.5	7	14.2				
	4P	kg	4.2	8.3	18				
Maximum operating altitude	Without derating	m	3000						
Operating positions	Without derating	DF510765.eps		DESIGNATIONS	300°				
	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.

Characteristics

Pole charac	teristic <u>s</u>								
Contactor type				LC1G115	LC1G150	LC1G185	LC1G225		
Number of poles				3 or 4	3 or 4	3 or 4	3 or 4		
Rated operational	Ue ≤ 440 V	In AC-3 / AC-3e, θ ≤ 60 °C	Α	115/115	150 / 145	185/177	225 / 209		
current (le)	Ue ≤ 1000 V	In AC-1, θ ≤ 40 °C	A	250	275	C1G150 LC1G185 or 4 3 or 4 50 / 145 185 / 177 175 305 000 1000 i0 / 60 50 / 60 62'3400 16 ^{2/3} 400 10 - 75 305 1 - 10 - 20 305 200 1500 100 920 300 740 150 500 160 160 315 315	330		
Rated operational voltage (Ue)		Up to	v	1000 (1)	1000	1000	1000		
Rated frequency (f	⁽²⁾		Hz	50/60	50 / 60	50/60	50 / 60		
Frequency operating limits		With derating ⁽³⁾	Hz	16 ^{2/3} 400	16 ^{2/3} 400	16 ^{2/3} 400	16 ^{2/3} 400		
Conventional thermal current		θ ≤ 40 °C	A	250	275	305	330		
Rated making capacity I rms conforming to IEC 60947-4-1		I rms conforming to IEC 60947-4-1	A	Making current: 10 x I in AC-3 or 12 x I in AC-4 Making current: 13 x I in AC-3e					
Rated breaking ca	pacity	I rms conforming to IEC 60947-4-1	A	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 permissi	ible current	For 10 s	Α	1100	1200	1500	1800		
No current flowing	for previous	For 30 s	Α	640	700	920	1000		
60 minutes, at $\theta \leq \theta$	40 °C	For 1 min	Α	520	600	740	850		
		For 3 min	Α	400	450	500	560		
		For 10 min	A	320	350	400	440		
Short-circuit protect	tion	Fuses for motor: type aM - Ue ≤ 440 V	A	125	160	200	250		
		Fuses for motor: type aM - Ue ≤ 690 V	A	125	160	160	200		
		Fuses for general application: type gG - Ue ≤ 690 V	A	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	per pole	AC-3/AC-3e	w	3	5	6	8		
for the above operational current	ts	AC-1	w	10	10	20	20		

(1) Ue ≤ 1000 V for AC-1 / Ue ≤ 690 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.

Pole characteristics										
LC1G265	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	16 ^{2/3} 400	162/3400	16 ^{2/3} 400	16 ^{2/3} 400	16 ^{2/3} 400					
385	440	550	700	1050	1050					
Making current: 10 x l in Making current: 13 x l in	n AC-3 or 12 x I in AC-4 n AC-3e	I		I	I					
Making and breaking c Making and breaking c	urrent: 8 x I in AC-3 or 10 urrent: 8.5 x I in AC-3e	x I in AC-4								
2200	2650	3600	4000	5050	5500					
1230	1800	2400	2800	4400	4600					
950	1300	1700	2200	3400	3600					
620	900	1200	1500	2200	2600					
480	750	1000	1200	1600	1700					
315	400	500	500	630	800					
250	250	315	400	500	630					
400	500	630	800	1250	1250					
0.144	0.144	0.1	0.08	0.065	0.065					
11	16	16	20	26	42					
20	30	30	40	70	70					

Characteristics

Power circuit	connections	5											
Contactor type			LC1	G115	G150	G185	G225	G265	G330	G400	G500	G630	G800
Connection				Maximu	ım 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	30 x 10	30 x 10	30 x 10	30 x 10	50 x 10	50 x 10
	Cable with lug		mm ²	185	185	185	185	240	2 x 150	2 x 185	2 x 240	-	-
	Cable with con	nector	mm ²	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

Contro	l circuit coni	nections					
Contactor type				LC1G115225	LC1G265330	LC1G400500	LC1G630800
Coil control	connection (Push-	in type)		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	mm ²	0.51	0.51	0.51	0.51
	Solid cable	1 conductor	mm ²	0.22.5	0.22.5	0.22.5	0.22.5
		Stripping length	mm	12	12	12	12
Screw drive	r	Flat screwdriver Ø	mm	3.5	3.5	3.5	3.5

Control circuit c	haracteristics	with AC	C/DC coi <u>ls</u>						
Contactor type					LC1G115225	LC1G265330	LC1G400500	LC1G630800	
Rated control circuit volt		v	48130 AC/DC 200500 AC/DC ⁽¹⁾						
Control voltage limits	AC input (50/60 Hz) /DC input	Operation			0.8 Uc Min1.1	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•••••N)	Inrush	50/60 Hz coil	VA	640	780	965	990	
(3 and 4-pole contactors, Standard version –			DC	w	445	695	760	790	
"N")		Sealed	50/60 Hz coil	VA	17.7	17.6	17.6	17.7	
			DC	w	7.8	7.8	7.8	9.5	
	200500 V AC/DC coil (LSE••••N)	Inrush	50/60 Hz coil	VA	-	-	-	670	
			DC	w	-	-	-	390	
		Sealed	50/60 Hz coil	VA	-	-	-	17	
			DC	w	-	-	-	11	
Average consumption	48130 V AC/DC	Inrush	50/60, 400 Hz	VA	260	430	450	560	
(3 and 4-pole contactors,			DC	w	190	360	360	440	
"A")		Sealed	50/60, 400 Hz	VA	8.9	11.7	11.7	12	
			DC	w	5	9	8.3	8.8	
Heat dissipation				w	45	56	56	56	
Operating time	Closing "C"			ms	4070	4070	4070	4070	
	Opening "O"			ms	1550	1550	1550	1550	
Mechanical durability at U	Jc In millions of	operating o	cycles (max)		8	8	8	5	
Maximum operating rate	In operating o	cycles	AC-1		300	300	300	300	
≤ 60 °C	per noul		AC-3		600	600	600	600	
			AC-4		150	150	60	60	

(1) 200...500 V AC/DC control voltage option is available only for LC1G630 & LC1G800 3P ratings.

Characteristics

Characteristics of aux	iliary contact	modules		
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 6	0947-4-1		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 temper	ature ≤ 60 °C	A	10
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 temper	ature ≤ 60 °C	A	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	V	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

Connee	ctor characteris	tics			
Push-in c	onnection - Dual in	put			Min/max c.s.a.
	Flexible cable	1 conductor with cable end	conductor with cable end mm ²		0.752.5
	per input	2 conductors with Dual Sleeve	mm²	\mathbb{R}	0.752.5
		Stripping length	mm²		10
Solid cable per input		1 conductor	mm²		0.752.5
		Stripping length	mm		12

Dimensions



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.



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

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Use Longer: How a product's life time can be effectively extended in terms of repairability and updatability.

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