CAD50

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	1	TeSys	Schneider
	51	L	
	q		27 TO
		85 6	

CAD503..



LADN22



Control relays for connection by screw clamp terminals

Туре	Number of contacts	Composition	n Basic reference, to be completed by adding the control voltage code (1)
Instantaneous	5	5 –	CAD50●● ⁽³⁾
		3 2	CAD3200 (3)

Control relays for connection by spring terminals

Instantaneous	5	5	-	CAD503●●
		3	2	CAD323●●

Instantaneous auxiliary contact blocks for connection by screw clamp terminals

instantaneous duxinary contact blocks for connection by solew dump terminals										
For use in	normal ope	erating environments								
Number of	Maximum	number per relay	Com	position	Reference					
contacts	Clip-on me	ounting								
	front	side	\	7						
2	1	=	1	1	LADN11					
		1 on LH side	1	1	LAD8N11 (6)					
	1	-	2	_	LADN20					
	_	1 on LH side	2	_	LAD8N20 (6)					
	1	_	_	2	LADN02					
	_	1 on LH side	_	2	LAD8N02 (6)					
4 (4)	1	-	2	2	LADN22	LADN22S (7)				
			1	3	LADN13					
			4	_	LADN40					
			_	4	LADN04					
			3	1	LADN31					
4 (4)	1	_	2	2	LADC22					

Including 1	N/O and	1 N/C	make	before	break.	
	,	, .		20.0.0		

nodding 114/O and 114/O make before break.										
With dust and damp protected contacts, for use in particularly harsh industrial environments										
Maximum number per relay Front mounting	Con	npos	ition		Ļ	Reference				
	prot	ecte	d ⁽⁵⁾	not pr	otected					
1	2	_	_	-	-	LA1DX20				
	_	2	_	-	_	LA1DX02				
	2	_	2	_	-	LA1DY20 (8)				
1	2	_	_	2	_	LA1DZ40				
	2	_	_	1	1	LA1DZ31				
	Maximum number per relay Front	Maximum Connumber per relay Front mounting	Maximum number per relay Front protecte 1 2 - 2	Maximum Composition number per relay	Maximum number per relay Front protected (5) not protected (7)	Maximum number per relay Front protected (5) 1 2				

Instantaneous auxiliary contact blocks for connection by spring terminals

This type of connection is not possible for contact blocks LAD 8 and blocks with dust and damp protected contacts. For all other instantaneous auxiliary contact blocks, add the digit 3 to the end of the references selected above. Example: LADN11 becomes LADN113.

(1) Please check the availability of your variant in the index page B7/12. The SEARCH function of your viewer can be used. Standard control circuit voltages (for other voltages, please consult your Regional Sales Office).

a.c. supply												
Volts ∼	24	42	48	110	115	220	230	240	380	400	415	440
50/60 Hz	B7	D7	E7	F7	FE7	M7	P7	U7	Q7	V7	N7	R7
d.c. supply (coils with integral suppression device fitted as standard)												
Volts	12	24	36	48	60	72	110	125	220	250	440	
U from 0.7 to 1.25 Uc	JD	BD	CD	ED	ND	SD	FD	GD	MD	UD	RD	
Low consumption	Low consumption (coils with integral suppression device fitted as standard)											
Volts	5	12	20	24	48	110	220	250				
Code	AL	JL	ZL	BL	EL	FL	ML	UL				

- (2) LC: low consumption.
- (3) To order control relays with connection by lugs, add the digit 6 to the end of the selected reference. (a) To older control relays with comes CAD506.
 (b) Blocks with 4 auxiliary contacts cannot be used on low consumption control relays.
 (c) Product fitted with 4 earth screen continuity terminals.
 (d) These contact blocks are allowed with AC coil control relay only.

- (7) With red front face for safety chain indication.
- (8) With 2 earth screen continuity poles.

Characteristics:	Curves:	Dimensions:	Schemes:
pages B7/22 to B7/24	page B7/25	page B7/26	page B7/27





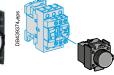




TeSys Control Deca Accessories

Product references





(Sealing cover: see page B8/45)

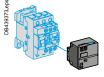
Time delay auxiliary contact blocks for connection by screw clamp terminals (1) Number Maximum number Time delay Reference and type of per relay contacts Front mounting Туре Range 1 N/C and 1 N/O On-delay 0.3...3 s (2) LADT0 1...30 s LADT2 10...180 s LADT4 1...30 s (3) LADS2 0.3...3 s (2) Off-delay LADR0 1...30 s LADR2 10...180 s LADR4

Time delay auxiliary contact blocks for connection by spring terminals

Add the digit 3 to the references selected above. Example: LADT0 becomes LADT03.



LAD6K10M



Front mounting Manual or electric 1 Suppressor modules

Unlatching

control

These modules clip onto the top of the control relay and the electrical connection is instantly made. Fitting of an input module is still possible.

Basic reference

to be completed

LAD6K10●

RC circuits (Resistor-Capacitor)

Mechanical latch blocks (4)

per relay

Maximum number

- Effective protection for circuits highly sensitive to "high frequency" interference.
- Voltage limited to 3 Uc maximum and oscillating frequency limited to 400 Hz maximum.
- Slight time delay on drop-out (1.2 to 2 times the normal time).

For mounting on	Operational voltage	Reference
CAD \sim	~ 2448 V	LAD4RCE
	~ 50127 V	LAD4RCG
	~ 110250 V	LAD4RCU











Varistors (peak limiting)

- Protection provided by limiting the transient voltage value to 2Uc maximum.
- Maximum reduction of transient voltage peaks.
- Slight time delay on drop-out (1.1 to 1.5 times the normal time).

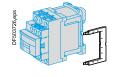
	- as,a, ap -a. (· · · · · · · · · · · · · · · · · · ·	
$CAD{\sim}$	∼ 24…48 V	LAD4VE	
	∼ 50127 V	LAD4VG	
	∼ 110250 V	LAD4VU	

Freewheel diode

- No overvoltage or oscillating frequency.
- Increase in drop-out time (6 to 10 times the normal time).
- Polarised component.

--- 5...600 V LAD4DDL (6) CAD ...





LAD4DDL

Bidirectional peak limiting diode (7)

- Protection provided by limiting the transient overvoltage value to 2Uc maximum.

■ IVIAXIIIIUII	rreduction of transfer t voltage peaks	•	
CAD \sim	\sim 24 V	LAD4TB	
	\sim 72 V	LAD4TS	
CAD	24 V	LAD4TBDL	
	72 V	LAD4TSDL	
	125 V	LAD4TGDL	
	— 250 V	I ADATUDI	

- (1) These contact blocks cannot be used on low consumption control relays.
- (2) With extended scale from 0.1 to 6 s.
- (3) With switching time of 40 ms ±15 ms between opening of the N/C contact and closing of the N/O contact.
- (4) Power should not be simultaneously applied or maintained to the mechanical latching block of the CADN. The duration of the control signal to the mechanical latching block and the CADN should be ≥ 100 ms
- (5) Standard control circuit voltages (for other voltages, please consult your Regional Sales Office):

Volts \sim and $□$	24	32/36	42/48	60/72	100	110/127	220/240	256/277	380/415
Code	В	С	E	EN	K	F	M	U	Q

- (6) Not compatible with low consumption control relays.
- (7) CAD. and low consumption control relays are fitted with a built-in bi-directional peak limiting diode suppressor as standard. On control relays produced after 15th July 2004, this diode is removable. It can therefore be replaced by the user (see references LAD4T●●● above). It can also be replaced by a freewheel diode LAD4DDL.

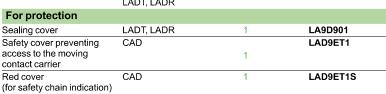
Characteristics:	Illustrations:	Curves:	Dimensions:	Schemes:	
pages B7/22 to B7/24	page B7/8	page B7/25	page B7/26	page B7/27	



TeSys Control Deca Accessories, spare coils

Product references

Accessories (to be	ordered separately)		
Description	For mounting on	Sold in lots of	Unit reference
For marking			
Sheet of 64 blank legends, self-adhesive, 8 x 33 mm	CAD, LAD (4 contacts)	10	LAD21
Sheet of 112 blank legends, self-adhesive, 8 x 12 mm	LAD (2 contacts), LADT		LAD22
"SIS Label" labelling software for legends LAD21 and LAD22, supplied on CD-Rom	Multi-language version: English, French, German, Italian, Spanish	1	XBY2U
Legend holder, snap-in, 8 x 18 mm	LC1D0938 LC1DT2040 LADN (4 contacts) LADT, LADR	100	LAD90
For protection			





Specifications

- Average consumption at 20 °C:
- inrush (cos φ = 0.75) 50/60 Hz: 70 VA at 50 Hz, sealed (cos φ = 0.3) 50/60 Hz: 8 VA at 60 Hz, Operating range (θ < 60 °C): 0.85 to 1.1 Uc

Control circuit voltage Uc	Average resistance at 20 °C ±10 %	Inductance of closed circuit	Reference (1)
V	Ω	Н	
			50/60 Hz
12	1.33	0.05	LXD1J7
24	5.37	0.22	LXD1B7
32	10.1	0.39	LXD1C7
42	17	0.67	LXD1D7
48	21.7	0.87	LXD1E7
110	124.1	4.6	LXD1F7
115	129.8	5	LXD1FE7
120	150.6	5.4	LXD1G7 (2)
200	410.7	15	LXD1L7
208	430.4	16	LXD1LE7 (2)
220	515.4	18	LXD1M7 (3)
230	538.6	20	LXD1P7
240	562.3	22	LXD1U7
277	800.7	29	LXD1W7 (2)
380	1551	55	LXD1Q7 (4)
400	1633	60	LXD1V7
415	1694	65	LXD1N7
440	1993	73	LXD1R7
480	2398	87	LXD1T7 (2)
500	2499	95	LXD1S7
575	3294	125	LXD1SC7
600	3810	136	LXD1X7
660	4656	165	LXD1YC7
690	5020	180	LXD1Y7

- (1) The last 2 digits in the reference represent the voltage code.
- (2) Coil for use only on 60 Hz.
 (3) Suitable for use on 230 V /50 Hz. In this case, apply a coefficient of 0.6 to the mechanical durability of the contactor (see pages B8/86 and B8/88).
 (4) Suitable for use on 400 V /50 Hz. In this case, apply a coefficient of 0.6 to the mechanical durability of the contactor
- (see pages B8/86 and B8/88).





LAD9ET1S

TeSys Control SK, K, Deca Control relays

Product references

CA2KN223B7	CA2SK20E7	CA3SK20BD	CAD32JL
CA2KN223F7	CA2SK20F7	CA3SK20JD	CAD32L7
CA2KN223P7	CA2SK20G7	CA4KN223BW3	CAD32M7
CA2KN223P72	CA2SK20M7	CA4KN22BW3	CAD32MD
CA2KN22B7	CA2SK20P7	CA4KN22EW3	CAD32N7
CA2KN22B72	CA2SK20Q7	CA4KN22FW3	CAD32P7
CA2KN22D7	CA2SK20T7	CA4KN22SW3	CAD32Q7
CA2KN22E7	CA2SK20U7	CA4KN313BW3	CAD32R7
CA2KN22F7	CA2SK20UE7	CA4KN31BW3	CAD32SD
CA2KN22F72	CA2SKE20B7	CA4KN31FW3	CAD32T7
CA2KN22FC7	CA2SKE20G7	CA4KN31SW3	CAD32U7
CA2KN22FE7	CA2SKE20M7	CA4KN403BW3	CAD32UD
CA2KN22G7	CA2SKE20P7	CA4KN40BW3	CAD32V7
CA2KN22G72	CA2SKE20Q7	CA4KN40EW3	CAD32X7
CA2KN22L7	CA2SKE20T7	CA4KN40FW3	CAD32XD
CA2KN22M7	CA2SKE20U7	CAD323B7	CAD32Y7
CA2KN22M72	CA3KN223BD	CAD323BD	CAD503BD
CA2KN22N7	CA3KN223BD3	CAD323BL	CAD503BL
CA2KN22P7	CA3KN22BD	CAD323E7	CAD503FD
CA2KN22P72	CA3KN22BD3	CAD323F7	CAD503FE7
CA2KN22Q7	CA3KN22ED	CAD323FE7	CAD503P7
CA2KN22R7	CA3KN22ED3	CAD323G7	CAD506B7
CA2KN22T7	CA3KN22FD	CAD323JD	CAD506BD
CA2KN22U7	CA3KN22FD3	CAD323P7	CAD506ED
CA2KN22V7	CA3KN22GD	CAD326B7	CAD506F7
CA2KN313P72	CA3KN22GD3	CAD326BD	CAD506FD
CA2KN315F7	CA3KN22JD	CAD326BL	CAD506KD
CA2KN31B7	CA3KN22MD	CAD326CD	CAD506M7
CA2KN31D7	CA3KN22MD3	CAD326E7	CAD506MD
CA2KN31E7	CA3KN22ND	CAD326F7	CAD506P7
CA2KN31F7	CA3KN22SD	CAD326FD	CAD506R7
CA2KN31G7	CA3KN313BD	CAD326G7	CAD50B7
CA2KN31K7	CA3KN313BD3	CAD326GD	CAD50BD
CA2KN31M7	CA3KN315BD	CAD326K7	CAD50BL
CA2KN31M72	CA3KN317SD	CAD326KD	CAD50D7
CA2KN31P7	CA3KN31BD	CAD326L7	CAD50E7
CA2KN31P72	CA3KN31BD3	CAD326M7	CAD50ED
CA2KN31U7	CA3KN31ED	CAD326MD	CAD50F7
CA2KN31V7	CA3KN31ED3	CAD326P7	CAD50FD
CA2KN40B7	CA3KN31FD	CAD326Q7	CAD50FE7
CA2KN40B72	CA3KN31FD3	CAD326R7	CAD50G7
CA2KN40E7	CA3KN31GD	CAD326SD	CAD50GD
CA2KN40F7	CA3KN31GD3	CAD326SL	CAD50K7
CA2KN40FC72	CA3KN31JD	CAD326U7	CAD50L7
CA2KN40G7	CA3KN31MD	CAD326V7	CAD50M7
CA2KN40M7	CA3KN31MD3	CAD326VD	CAD50MD
CA2KN40N7	CA3KN31ND3	CAD32B7	CAD50N7
CA2KN40P7	CA3KN31UD	CAD32BD	CAD50P7
CA2KN40T7	CA3KN403BD	CAD32BL	CAD50Q7
CA2KN40U7	CA3KN403BD3	CAD32CD	CAD50R7
CA2SK11B7	CA3KN40BD	CAD32D7	CAD50SD
CA2SK11E7	CA3KN40BD3	CAD32E7	CAD50U7
CA2SK11F7	CA3KN40ED	CAD32ED	CAD50UD
CA2SK11G7	CA3KN40ED3	CAD32EL	CAD50Y7
CA2SK11M7	CA3KN40EPD	CAD32F7	
CA2SK11P7	CA3KN40FD	CAD32FC7	
CA2SK11T7	CA3KN40FD3	CAD32FD	
CA2SK11U7	CA3KN40GD	CAD32FE7	
CA2SK11UE7	CA3KN40GD3	CAD32FL	
CA2SK11V7	CA3KN40MD	CAD32G7	
CA2SK20B7	CA3KN40MD3	CAD32GD	
CA2SK20D7	CA3SK11BD	CAD32JD	

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.

FeSys SK, K, Deca Control relays

Technical Data for Designers

Contents	
TeSys SK Mini control relays:	
> characteristics	B7/14 and B7/15
> dimensions	B7/16
> schemes	B7/17
TeSys K Control relays:	
> characteristics	B7/18 and B7/19
> dimensions	B7/20
> schemes	B7/21
Deca Control relays:	
> characteristics	B7/22 to B7/24
> curves	B7/25
> dimensions	B7/26
> schemes	B7/27

Characteristics

Environment							
Rated insulation voltage (Ui)	Conforming to IEC 60947, CSA 22-2 n° 14, UL 508	V	690				
Conforming to standards			IEC/EN 60947-5-1, UL 60947-5-1, CSA C22.2 n° 60947-5-1, GB/T 14048.5				
Approvals			cULus, EAC, UKCA, CB cer	tification			
Degree of protection	Conforming to IEC 60529		Protection against direct fine	ger contact IP2	X		
Ambient air temperature	Storage	°C	-50+70				
around the device	Operation	°C	-20+50				
Maximum operating altitude	Without derating	m	2000				
Operating position		Vertica		Horizontal a	xis		
	22°,5 22°,5 22°,5		180°	000	DESITIOSANDS		
		Without	derating	Without derating			
Connection by connectors			Min.		Max.		
	Solid cable	mm ²	1 x 1.5 or 2 x 1.5		1 x 6 or 2 x 4		
	Flexible cable without cable end	mm ²	1 x 0.5 or 2 x 0.35		1 x 6 or 2 x 2.5		
	Flexible cable with cable end	mm ²	1 x 0.35 or 2 x 0.35		1 x 6 or 2 x 1.5		
		1	I a a				

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Tightening torque

Terminal referencing





Control circuit char	acteristics	-	7			
Control relay			CA2SK	CA2SKE	CA3SK	
Rated control circuit voltage (U	c)	v	∼ 24400		 1272	
Control voltage limits	For operation		0.851.1 Uc		0.851.1 Uc	
(≤ 50 °C)	For drop-out		≤ 0.20 Uc		≤ 0.10 Uc	
Average consumption	Inrush		16 VA	23 VA	2.2 W	
at 20 °C and at Uc	Sealed		4.2 VA	4.9 VA	2.2 W	
Heat dissipation	Heat dissipation		1.4	1.5	2.2	
Operating time	Between coil energisation and					
at 20 °C and at Uc	opening of the N/C contacts	ms	816		1018	
	closing of the N/O contacts	ms	714		812	
	Between coil de-energisation and					
	opening of the N/O contacts	ms	68	68		
)	closing of the N/C contacts	ms	810	810		
Maximum operating rate	In operating cycles per hour		1200		1200	
Mechanical durability at Uc	50/60 Hz coil		10		_	
in millions of operating cycles	Standard == coil		-		10	

N.m

0.8

Up to 4 contacts

Pozidriv n° 1 head

Conforming to standards EN 50005 and EN 50011

Control relays

TeSys Control SK, SKE Mini control relays

Characteristics

Rated operational voltage		V	Up to 690			
(Ue)			Ор 10 690			
Rated insulation voltage (Ui)	Conforming to IEC 96047	V	690			
Conventional rated thermal current (Ith)	For ambient temperature ≤ 55 °C	A	10			
Minimum switching capacity	Umin	٧	17			
	Imin	mA	10			
Frequency of the operational c	urrent	Hz	Up to 400			
Short-circuit protection	Conforming to IEC 60947, gl fuse	A	10			
Operational power of contacts conforming to IEC 60947						
a.c. supply, category AC-15 d.c. supply, category DC-13						

	alor supply, satisfier years									.,	. •		
	oper such curre	rating o	ycles/l coil of s φ 0.7	nour) o f an ele i) = 10 i	d for up n an ind ctroma times th	ductive gnet: m	load naking	opera such econo	rical dura ating cyc as the co omy resi asing wit	les/hoù oil of an stor, the	r) on an electro e time c	inducti magnet	ve load , without
	٧	24	48	110/ 127	220/ 230	380/ 400	440	V	24	48	110	220	440
1 million operating cycles	VA	48	96	240	440	800	880	w	120	80	60	52	51
3 million operating cycles	VA	17	34	86	158	288	317	w	55	38	30	28	26
10 million operating cycles	VA	7	14	36	66	120	132	w	15	11	9	8	7
Occasional making capacity	VA	1000	2050	5000	10000	14000	13 000	W	720	600	400	300	230

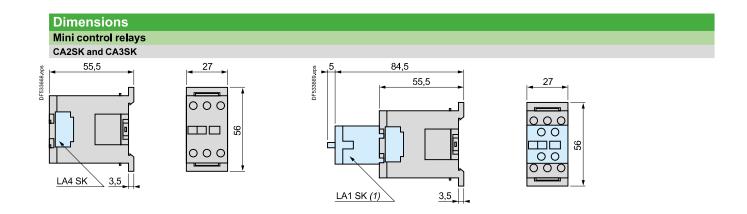






TeSys Control SK, SKE Mini control relays

Dimensions and mounting



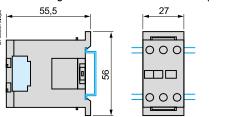
(1) Only on CA2SK20.

Mounting

Mini control relays

CA2SK and CA3SK

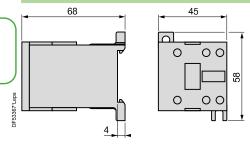
On mounting rail NSYDR200BD or NSYDR200 (-- 35 mm)

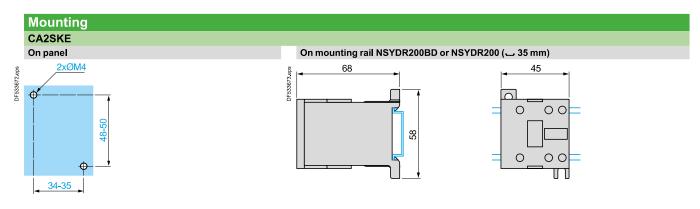




Dimensions

CA2SKE





TeSys Control SK, SKE Mini control relays

Schemes

Schemes	
CA2SK20, CA3SK20	CA2SK11, CA3SK11
2 N/O	1 N/O + 1 N/C
OF 233674,eps A2 A1 14 7 13/NO 24 7 23/NO	AZ A1
CA2SKE	CA2SKE
2 N/O	Function diagram
053336,6eps A1 A1 A3NO 7 23NO	A1 A2 Energised De-energised De-energised
24 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	13 14 Close Open
	23 Close
	Open

2 N/O LA1SK20

Instantaneous auxiliary contacts



2 N/C LA1SK02



1 N/O + 1 N/C LA1SK11





Conforming to standards			IEC/EN 60947-5-1, UL 60	947-5-1, CSA C22.2 n° 6094	7-5-1, GB/T 14048.5			
Product certifications			UL, CSA, CCC, EAC, UK		,			
Operating positions			Vertical axis	/ertical axis Horizontal axis				
			DF55396294eps	18. DF 5539630.eps	DISTINGS was			
			Without derating	Without derating	Possible positions for CA2 only, with derating, please consult your Regional Sale Office.			
Connection			Min.	Max.	Max. to IEC 60947			
Screw clamp connections	Solid cable	mm²	1 x 1.5	2 x 4	1 x 4 + 1 x 2.5			
	Flexible cable without cable end	mm²	1 x 0.75	2 x 4	2 x 2.5			
	Flexible cable with cable end	mm²	1 x 0.34	1 x 1.5 + 1 x 2.5	1 x 1.5 + 1 x 2.5			
Spring terminals	Solid cable	mm²	1 x 0.75	1 x 1.5	2 x 1.5			
	Flexible cable without cable end	mm²	1 x 0.75	1 x 1.5	2 x 1.5			
Faston connectors	Clip	mm	2 x 2.8 or 1 x 6.35					
Solder pins for printed circuit board	With locating device between power and control circuits		4 mm x 35 microns					
Tightening torque	Philips head n° 2 and Ø6	N.m	0.8					
Terminal referencing	Conforming to standards EN 50005 and EN 50011		Up to 8 contacts					
Degree of protection	Conforming to IEC 60529		Protection against direct finger contact IP2x (devices with screw clamp terminals or pins for printed circuit board)					
Ambient air temperature	Storage	°C	-50+80					
around the device	Operation	°C	-25+50					
Maximum operating altitude	Without derating	m	2000					
Vibration resistance	Control relay open		2 gn					
5300 Hz Conforming to IEC/EN 60068-2-27	Control relay closed		4 gn					
Flame resistance	Conforming to IEC 60695-2-11		850 °C					
Shock resistance	Control relay open		10 gn					
(1/2 sine wave, 11 ms) Conforming to IEC/EN 60068-2-27	Control relay closed		15 gn					
Control circuit chara	icteristics							
Control relay type			CA2K	CA3K	CA4K			
Rated control circuit voltage (Ud	c)	v	∼ 12690	 12250	 12120			
Control voltage limits	For operation		0.81.15 Uc	0.81.15 Uc	0.71.3 Uc			
(y 50 °C) single voltage coil	For drop-out		≤ 0.2 Uc	≤ 0.1 Uc	≤ 0.1 Uc			
Mechanical durability at Uc	50/60 Hz coil		10	-	T-			
In millions of operating cycles	Standard coil		-	20	Ī-			
	Wide range, low consumption coil		-	-	30			
Maximum operating rate	In operating cycles per hour		10 000	10 000	6000			
Average consumption	Inrush		30 VA	3 W	1.8 W			
at 20 °C and at Uc	Sealed		4.5 VA	3 W	1.8 W			
Heat dissipation		w	1.3	3	1.8			
Operating time	Between coil energisation and			1				
at 20 °C and at Uc	opening of the N/C contacts	ms	515	2535	2535			
	. •		1		1			

10...20

10...20

15...25

2

ms

ms

ms

Schemes: page B7/21 30...40

10

15

2

30...40

10...20

15...25

Re	ferences:	
	200 D7/4 to D7/	7

Maximum immunity to microbreaks

Life Is On

closing of the N/O contacts Between coil de-energisation and

opening of the N/O contacts

closing of the N/C contacts

Control relays

TeSys Control

K Control relays & contact blocks

Characteristics

Number of auxiliary contacts	On CA ●K		4
	On LA1K		2 or 4 for CA2K and CA3K, 2 for CA4K
Rated operational voltage (Ue)	Up to	٧	690
Rated insulation voltage (Ui)	Conforming to IEC 60947	٧	690
	Conforming to UL 60947-5-1, CSA C22.2 n° 60947-5-1	٧	600
Conventional thermal current (Ith)	For ambient temperature ≤ 50 °C	Α	10
Frequency of the operational cu	rrent	Hz	Up to 400
Minimum switching capacity	U min	٧	17
	l min	mA	5
Short-circuit protection	Conforming to IEC 60947, gG fuse	Α	10
Rated making capacity	Conforming to IEC 60947		
	l rms	Α	110
Short-time rating	Permissible for		
	1 s	Α	80
	500 ms	Α	90
	100 ms	Α	110
Insulation resistance		MΩ	> 10
Non-overlap distance	CA K and LA1K: linked contacts conforming to INRS, BIA and CNA specifications	mm	0.5 (see schemes page B7/21)

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 φ 0.4)

d.c. supply, category DC-13

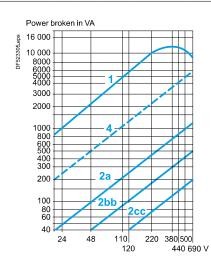
Electrical durability (valid for up to 1200 operating cycles/hour) on an inductive load such as the coil of an electromagnet, without economy resistor, the time constant increasing with the load.

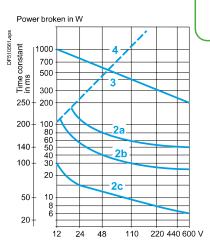
	_	*
	_	Ы
-i	3	-
		31

Ref.

	V	24	48	110/ 127	220/ 230	380/ 400	440	600/ 690	٧	24	48	110	220	440	600
1 million operating cycles	VA	48	96	240	440	800	880	1200	W	120	80	60	52	51	50
3 million operating cycles	VA	17	34	86	158	288	317	500	W	55	38	30	28	26	25
10 million operating cycles	VA	7	14	36	66	120	132	200	W	15	11	9	8	7	6
Occasional making capacity	VA	1000	2050	5000	10000	14000	13000	9000	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 $\cos \varphi$ 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

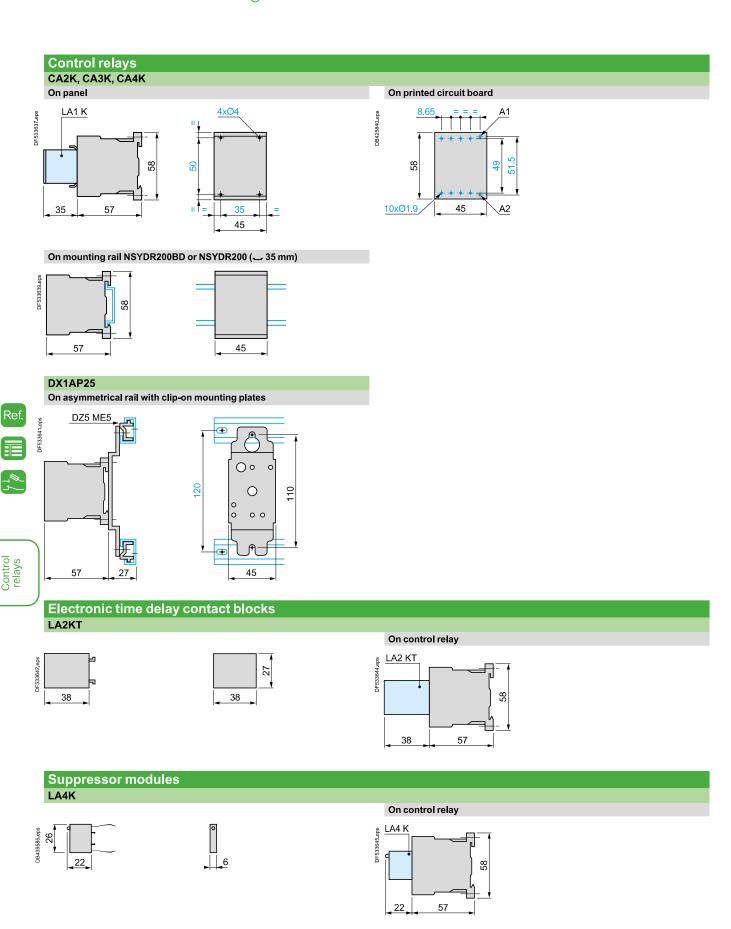




TeSys Control

K Control relays

Dimensions and mounting



References: pages B7/4 to B7/7

Characteristics: pages B7/18 and B7/19 Schemes: page B7/21

TeSys Control K Control relays

Schemes

Control relays			With integral su	ppression device	
CA2K, CA3K, CA4I			CA3K	CA4K	
DF533646,eps AZ	A 43/NO + 1 N/C	2 Z 1/O +5 N/C 2 Z 1/O C 2 Z 1/O C	DF535649,475	setr /LCCCPHOID A A A A A A A A A A A A A A A A A A A	
	auxiliary contact b	locks LA1K			
For CA2K, CA3K, C	2 N/C	1 N/O + 1 N/C	For CA2K, CA3K 4 N/O	3 N/O + 1 N/C	2 N/O + 2 N/C
LA1KN20, LA1 KN207		LA1KN11, LA1 KN117	LA1KN40, LA1 KN407	LA1KN31, LA1 KN317	LA1KN22
54 7 53/NO 64 1 63/NO	52 51/NC 62 61/NC	54 53/NO 62 61/NC	DF533064-eps 54 53/NO 64 63/NO 74 73/NO 84 83/NO	54 53/NO 62 61/NC 74 73/NO 84 83/NO	54 53/NO 62 61/NC 72 71/NC 84 83/NO
			1 N/O + 3 N/C LA1KN13	4 N/C LA1KN04	
			54 53/NO 62 61/NC 72 71/NC 82 81/NC	DF5308058.eps 52 51/NC 62 61/NC 72 71/NC 82 81/NC	
	e delay contact blo	cks LA2KT	Suppressor mo	_	
For CA2K, CA3K, C	JA4N		LA4KC	LA4KE	
LA2KT2			DF533660.eps	DF533661.eps	
A2 M A1				06.533	

Ref.

Characteristics

Environment					
Control relay type			CAD \sim	CAD	CAD :
	0 ('	1,,	000	200	low consumption
Rated insulation voltage (Ui)	Conforming to IEC 60947-5-1 Overvoltage category III and degree of pollution 3	V	690	690	690
	Conforming to UL, CSA	V	600	600	600
Rated impulse withstand voltage (Uimp)	Conforming to IEC 60947	kV	6	6	6
Separation of electrical circuits	Conforming to IEC 60536		Reinforced insulation up to	400 V	
Conforming to standards			IEC/EN 60947-5-1, UL 609	47-5-1, CSA C22.2 n° 60947-	5-1, GB/T 14048.5
Product certifications			UL, CSA, CCC, EAC, UKC	A, CB certification, EU-RO-MI	R by DNV-GL
Degree of protection	Conforming to IEC 60529		Front face protected agains	st direct finger contact IP 2X	Protection against direct finger contact IP 2X
Ambient air temperature around the device	Storage	°C	-60+80		
	Operation (1)	°C	-40+60		
	Allowed (1)	°C	+60+70 at Uc to 1,●● x	Uc	
Maximum operating altitude	Without derating	m	3000	3000	3000
Operating positions	Without derating in the following positions				
	OF510764 egs		000 000 000 000 000 000 000 000 000 00	180°	
	Positions that are not allowed			P. P. S. R. H. A. S. R. H. A. S. R.	Section 2
Shock resistance (2) half sine wave for 11ms	Control relay open		10 gn	10 gn	10 gn
	Control relay closed		15 gn	15 gn	15 gn
Vibration resistance (2) 5300 Hz	Control relay open		2 gn	2 gn	2 gn
	Control relay closed		4 gn	4 gn	4 gn
Screw clamp connections	Flexible 1 conductor conductor	mm ²	14	14	14
	without cable 2 conductors end	mm ²	14	14	14
	Flexible 1 conductor conductor with	mm ²	14	14	14
	cable end 2 conductors	mm ²	12.5	12.5	12.5
	Solid conductor 1 conductor without cable	mm ²	14	14	14
	end 2 conductors	mm ²	14	14	14
	Tightening torque	N.m	1.7	1.7	1.7
Spring terminal connections	1 or 2 flexible or rigid conductors	mm ²	12.5	12.5	12.5

(1) As per IEC60947-1, operating time and drop out voltage given and tested for -5...+40 °C. (2) In the least favourable direction, without change of contact state, with coil supplied at Uc.

References: pages B7/9 to B7/11

Curves: page B7/25

without cable end

Dimensions: page B7/26



TeSys Control Deca Control relays

Characteristics

Control relay type			CAD ∼	CAD	CAD low consumption
Rated control circuit voltage (Uc)		V	12690	12440	 572
Control voltage limits					
Operation	With coil 50/60 Hz		0.81.1 Uc at 50 Hz	_	_
			0.851.1 Uc at 60 Hz	_	_
	With standard coil, wide range		-	0.71.25 Uc	0.71.25 Uc
Drop-out			0.30.6 Uc	0.10.25 Uc	0.10.25 Uc
Average consumption	∼ 50/60 Hz (at 50 Hz)	VA	Inrush: 70	-	-
at 20 °C and at Uc			sealed: 8	-	-
	With standard coil	w	-	Inrush or sealed: 5.4	Inrush or sealed: 2.4
Operating time (at rated control circuit voltage and at 20 °C)	Between coil energisation and - opening of the N/C contacts	ms	419	55 ± 15 %	67 ± 15 %
·	- closing of the N/O contacts	ms	1222	63 ± 15 %	77 ± 15 %
	Between coil de-energisation and - opening of the N/O contacts	ms	412	20 ± 20 %	27 ± 20 %
	- closing of the N/C contacts	ms	617	25 ± 20 %	35 ± 20 %
Short supply failure	Maximum duration without affecting hold-in of the device	ms	2	2	2
Maximum operating rate	In operating cycles per second		3	3	3
Mechanical durability n millions of operating cycles	With coil 50/60 Hz (at 50 Hz)		30	-	-
	With standard coil wide range		-	30	30
Time constant L/R		ms	 -	28	40









TeSys Control Deca Control relays

Characteristics

Characteristics of i	nstantaneous	s contacts	incor	porated in the control relay
Number of contacts	<u> </u>			5
Rated operational voltage (Ue)	Up to	Up to		690
Rated insulation voltage	Conforming to IEC	60947-5-1	٧	690
(Ui)	Conforming to UL, CSA		V	600
Conventional thermal current (Ith)	For ambient tempe	rature ≤ 60 °C	Α	10
Frequency of the operational current			Hz	25400
Minimum switching capacity	U min		ν	17
	l min		mA	5
Short-circuit protection	Conforming to IEC	60947-5-1		gG fuse: 10 A
Rated making capacity	Conforming to IEC 60947-5-1	I rms		∼ 140, 250
Short-time rating	Permissible for	1 s	Α	100
		500 ms	Α	120
		100 ms	Α	140
Insulation resistance			MΩ	>10
Non-overlap time	Guaranteed between N/C and N/O conta		ms	1.5 (on energisation and on de-energisation)
Tightening torque	Philips head n° 2 a	nd Ø6	N.m	1.7
Non-overlap distance				Linked contacts in association with auxiliary contacts LADN
Mechanically linked contacts	Conforming to IEC	60947-5-1		The 3 N/O contacts and the 2 N/C contacts of CAD N32 are linked mechanically by one mobile contact carrier.







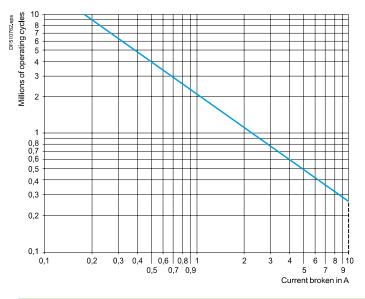


Rated operational power of contacts (conforming to IEC 60947-5-1)

a.c. supply, categories AC-14 and 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 ($\cos \phi$ 0.7) = 10 times the power broken ($\cos \phi$ 0.4).

	٧	24	48	115	230	400	440	600
1 million operating cycles	VA	60	120	280	560	960	1050	1440
3 million operating cycles	VA	16	32	80	160	280	300	420
10 million operating cycles	VA	4	8	20	40	70	80	100



Ref.

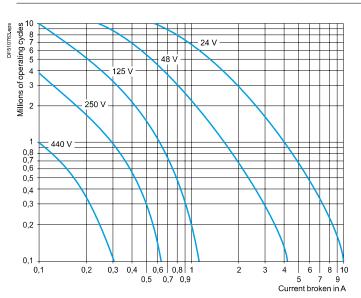




d.c. supply, category DC-13

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 power.

Operating cycles	V	24	48	125	250	440
1 million	W	96	76	76	76	44
3 million	w	48	38	38	32	-
10 million	W	14	12	12	_	_





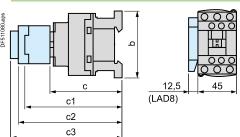
Control relays

TeSys Control Deca Control relays

Dimensions and mounting

Dimensions

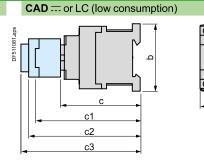
${ m CAD}\,{\sim}$



W

W

W



С	AD	32	323	
		50	503	
b		77	99	
С	without cover or add-on blocks	84	84	
	with cover, without add-on blocks	86	86	
c1	with LADN or C (2 or 4 contacts)	117	117	
c2	with LAD6K10	129	129	
сЗ	with LADT, R, S	137	137	
	with LADT R S and sealing cover	141	141	

24

120

70

25

48

90

50

18

125

75

38

14

250

68

33

12

440

61

28

10

CAD	32 50	323 503	
b	77	99	
c without cover or add-on blocks	93	93	
with cover, without add-on blocks	95	95	
c1 with LADN or C (2 or 4 contacts)	126	126	
c2 with LAD6K10	138	138	
c3 with LADT, R, S	146	146	
with LADT, R, S and sealing cover	150	150	





Mounting

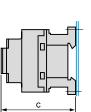
1 million

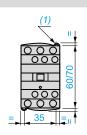
Operating cycles

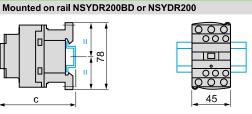










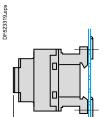


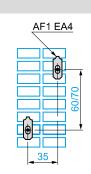
		CAD \sim	CAD === or LC
С	with cover	86	95

		CAD \sim	CAD or LC	
С	(NSYDR200BD) (2)	88	97	
С	(NSYDR200BD) (2)	96	105	

(2) With cover.

(1) 2 elongated holes 4.5×9 . Mounted on plate AM1P





		${\rm CAD}{\sim}$	CAD === or LC
С	with cover	86	95

References: pages B7/9 to B7/11 Illustration: Characteristics: Curves: Schemes: pages B7/22 to B7/24 page B7/25 page B7/27 page B7/8

TeSys Control Deca Control relays

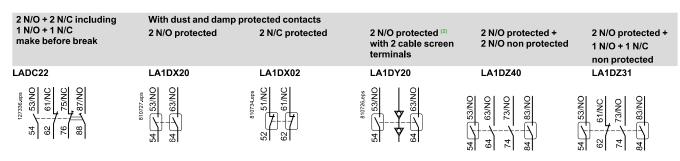
Schemes

| Instantaneous auxiliary contacts | 5 N/O | 3 N/O + 2 N/C | CAD50 | CAD32 | ONEE | ON

Instantaneous au	xiliary contact blocks				
1 N/O + 1 N/C		2 N/O		2 N/C	
LADN11	LAD8N11 (1)	LADN20	LAD8N20 (1)	LAD8N02	LADN02
54 53/NO 62 61/NC	154 153/NO (183) (184) 162 161/NC (171) (172)	54 53/NO 64 63/NO	DD435746.eps 154 153/NO (183) (184) 164 163/NO (173) (174)	DD455753.eps 252 251/NC (271) (272) 262 261/NC (281) (282)	DD425743.eps 52 51/NC 62 61/NC

(1) The figures in brackets are for the device mounted on the RH side of the control relay.

2 N/O + 2F N/C	1 N/O + 3 N/C	4 N/O	4 N/C	3 N/O + 1 N/C
LADN22	LADN13	LADN40	LADN04	LADN31
54 53/NO 62 61/NC 72 71/NC 84 83/NO	54 53/NO 62 61/NC 72 71/NC 82 81/NC	DD425750.eps 54 53/NO 64 63/NO 74 73/NO 84 83/NO	D0425751.eps 52 51/NC 62 61/NC 72 71/NC 82 81/NC	DD425752.eps 54 53/NO 62 61/NC 74 73/NO 84 83/NO



(2) Product fitted with 4 earth screen continuity terminals.

Time delay au	uxiliary contact blocks		Mechanical latch blocks
On-delay 1 N/O	+ 1 N/C	Off-delay 1 N/O + 1 N/C	
LADT	LADS	LADR	LAD6K10
810716.eps 56 55/NC 68 67/NO	810719.eps 56	810721.eps 58 57/NO 66 65/NC	810732-eps









TeSys Control SK, K, SKGC, Deca, Modular Contactors

TeSys SK, K contactors			
Type of product	Range		Pages
Contactors 27 and 45 mm width for use in modular panels TeSys SK	From 12 to 20 A	্ৰিন্ত জন্মন্ত্ৰ	B8/2
Contactors TeSys K	From 6 to 16 A		B8/4
Reversing pre-assembled contactors TeSys K	From 6 to 16 A	\$ 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	B8/8
Auxiliary contact blocks - accessories			B8/13



TeSys K, Deca, Giga S207 series Contactors for railway applications. Click on image to download.



TeSys S335 series contactors for electrodomestic application. Click on image to download.

TeSys Deca contactors			
AC-3/AC-3e, AC-1, UL CSA applications- TeSys Deca Advanced contactors (with AC/DC compatible coil)	From 9 to 80 A		B8/17
AC-3/AC-3e applications - 3-pole, 4-pole TeSys Deca contactors	From 9 to 150 A		B8/22
AC-1 applications - 3-pole, 4-pole TeSys Deca contactors	From 25 to 200 A		B8/23
UL CSA application - 3-pole TeSys Deca contactors	From 25 to 200 A		B8/28
Reversing, changeover pre-assembled	From 9 to 150 A		
TeSys Deca contactors	FIOIII 9 to 150 A	10 10 10 10 10 10 10 10 10 10 10 10 10 1	B8/29
Reversing contactors TeSys Deca Advanced contactors (with AC/DC compatible coil)	From 9 to 80 A		B8/29 B8/34
Reversing contactors TeSys Deca Advanced contactors	المركزين ا		

Modular contactors		
Modular contactors	From 16 to 100 A	B8/54
Modular Dual tariff contactors	16, 25, 40 or 100 A	 B8/55
Modular Impulse relay	Up to 16 A	B8/56
Auxiliary contact blocks - accessories		B8/57

Technical Data for Designers

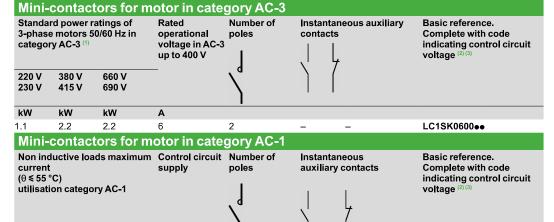
B8/65



- Width of contactor 27 mm.
- Mounting on 35 mm rail.
- Screw clamp terminals.

Α 12

LC1SK contactors can be fitted with an add-on block or auxiliary contact block, LP1SK and LC1SKGC contactors can't.





(2) Standard control circuit voltages (variable delivery times, please consult your Regional Sales Office):

2

2

a.c.

d.c.

Mini-contactors LC15	SK								
Volts ∼ 50/60 Hz	24	48	110	120	220	230	240	380	400
Code	В7	E7	F7	G7	M7	P7	U7	Q7	V7
Mini-contactors LP19	SK .								
Volts	12	24	36	48	72				
Code	JD	BD	CD	ED	SD				

(3) Please check the availability of your variant in the index page B8/58. The SEARCH function of your viewer can be used.

Add-on power pole (for 3-phase circuits) with aux. contact				
For use on contactor LC1SK0600●● with 1 NO power pole (6 A AC-3, 10 A AC-1) and with 1 NC aux. contact (Ith 10 A). Ue 690 V AC 50/60 Hz for both contacts	Number of poles	Instantaneous auxiliary contacts	Reference	
Clip-on front mounting	1	- 1	LA1SK01	

Instantaneous a	uxiliary c	ontact blocks	
For use on contactor LC1SK0600. Aux. contacts: Ith 10 A. Ue: 690 V AC 50/60 Hz	Maximum number of blocks per contactor	Composition	Reference
Clip-on front mounting	1	2 –	LA1SK20
		_ 2	LA1SK02
		1 1	LA1SK11

Coil suppressor	rmodules								
Clip-on fixing and electrical connection on right-hand side, without use of tools									
For use on contactors	Туре	For voltages	Sold in lots of	Unit reference					
LC1SK0600●●	Varistor (1)	\sim and == 24 V48 V	10	LA4SKE1E					
LP1SK0600●●,		~ and == 110 V250 V	10	LA4SKE1U					
LC1SKGC●●●	Diode (2)	24 V250 V	10	LA4SKC1U					

⁽¹⁾ Protection provided by limiting the transient voltage to 2 Uc max. Maximum reduction of transient voltage peaks. Slight increase in drop-out time (1.1 to 1.5 times the normal time). (2) No overvoltage or oscillating frequency.

Slight increase in drop-out time (1.1 to 1.5 times the normal time).



LAISK

Characteristics:

Dimensions, schemes: page B8/70

LC1SK0600●●

LP1SK0600





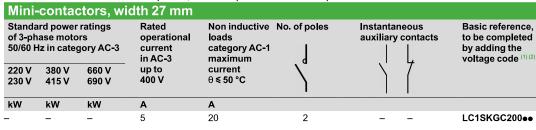
LA1SK01

TeSys Control SKGC Contactors

Product references

Mini-contactors 25 and 47 mm pitch for use in modular panels.

- Mounting on 35 mm rail or fixing by four Ø4 screws, except for LC1SKGC200.
- Connection by connectors.
- Mini-contactor fitted with transparent, sealable protective cover to prevent front face access.





LC1SKGC200



LC1SKGC300

Standard power ratings of 3-phase motors 50/60 Hz in category AC-3		Rated operational current in AC-3	Non inductive loads category AC-1 maximum	No. of poles	Instantaneo auxiliary co		Basic reference, to be completed by adding the voltage code (1)(2)	
220 V 230 V	380 V 415 V	660 V 690 V	up to 400 V	current θ ≤ 50 °C	1	\ \ \ \ \	+	
kW	kW	kW	Α	A				
1.1	4	4	9	20	3	1 –		LC1SKGC310●●
					3	- 1		LC1SKGC301ee



(1) Standard control circuit voltages (for other voltages, please consult your Regional Sales Office):

Volts ∼ 50/60 Hz	24	48	110	120	220	230	240	380	400
Code	B7	E7	F7	G7	M7	P7	U7	Q7	V7

(2) Please check the availability of your variant in the index page B8/58. The SEARCH function of your viewer can be used.







Life Is On

Click HERE for access



LC1K0910 ..













Contactors





LC1K09105●●

LC1K09107 • •



LC7K0910●●

Mounting on 35 mm — rail or Ø4 screw fixing. Screws in the open "ready-to-tighten" position.

Add-on auxiliary contact blocks and accessories, see pages B8/13 to B8/15.

3-ро	le cont	actors - I	Motor control 6 t	o 16	A in cate	gories AC-3, AC-3e, AC-4 - a.c. coil
Standard power ratings of 3-phase motors 50-60 Hz in category AC-3/AC-3e			Rated operational current in category AC-3/AC-3e 440 V up to		antaneous lliary contact	Basic reference, s to be completed by adding the voltage code (1) (2)
220 V 230 V	380 V 415 V	440 V 690 V	_	1 1		
kW	kW	kW	Α			
Screv	v clamp o	connection	s			
1.5	2.2	3	6	1	-	LC1K0610●●
				-	1	LC1K0601●●
2.2	4	4	9	1	-	LC1K0910●●
				-	1	LC1K0901●●
3	5.5	4 (> 440)	12	1	-	LC1K1210●●
		5.5 (440)		-	1	LC1K1201●●
4	7.5	4 (> 440)	16	1	-	LC1K1610••
		5.5 (440)		-	1	LC1K1601●●

Spring terminal connections (3)

For 6 to 12 A ratings only, in the references selected above, insert a figure 3 before the voltage code. Example: LC1K0610● becomes LC1K06103●●.

Faston connectors, 1 x 6.35 or 2 x 2.8

For 6 to 16 A ratings, in the references selected above, insert a figure 7 before the voltage code.

Example: LC1K0610 • becomes LC1K06107 • •.

Solder pins for printed circuit boards

For 6 to 16 A ratings, in the references selected above, insert a figure 5 before the voltage code.

Example: LC1K0610•• becomes LC1K06105••.

3-pole silent contactors

Recommended for use in areas sensitive to noise, high interference mains supplies, etc.

Coil with rectifier incorporated, suppressor fitted as standard.

Scre	w clamp	connection	ıs				
1.5	2.2	3	6	1	-	LC7K0610●●	
				-	1	LC7K0601●●	
2.2	4	4	9	1	-	LC7K0910●●	
				-	1	LC7K0901●●	
3	5.5	4 (> 440)	12	1	_	LC7K1210●●	
		5 5 (440)			1	LC7K1201	

Faston connectors, 1 x 6.35 or 2 x 2.8

In the references selected above, insert a figure 7 before the voltage code.

Example: LC7K0610 becomes LC7K06107 ...

Solder pins for printed circuit boards

In the references selected above, insert a figure 5 before the voltage code.

Example: LC7K0610 • becomes LC7K06105 • •.

Standard control circuit voltages (for other voltages, please consult your Regional Sales office)

Coll voltage codes	- a.c. (*)	
Contactors I C1K (0.8	1 15 Uc) (0.85	1 1 LIC)

Contactors	LOTINGO	.0 1. 1	0 00) (0.	00	. 1 00)										
Volts	12	20	24 ⁽¹⁾	36	42	48	110	115	120	127	200/208	3	220/230	230	230/240
50 Hz (5)			B5		D5	E5								P5	
50/60 Hz	J7	Z 7	B7	C7	D7	E7	F7	FE7	G7	FC7	L7		M7	P7	U7
Volts	256	277	380/400)	400	400/	415	440	480	500	575	600	660/690		
50/60 Hz	W7	UE7	Q7	_	V7	N7		R7	T7	S7	SC7	X7	Y 7	_	_

Up to and including 240 V, coil with integral suppression device available: add 2 to the code required. Example: J72.

Contactors	I CZK	/n os	1 1 1 1 1 1 1 1	
Contactors	LC/N	(U.85	. I. I UC)	

Contactor	5 LC/ K (0.0	551.1 (00)						
Volts	24	42	48	110	115	220	230/240	
50/60 Hz	B7	D7	E7	F7	FE7	M7	U7	

⁽¹⁾ For mains supplies with a high level of interference (voltage surge > 800 V), use a suppressor module **LA4KE1FC** (50...129 V) or **LA4KE1UG** (130...250 V), see page B8/14.

- or LA4KE1UG (130...250 V), see page B8/14. (2) Please check the availability of your variant in the index page B8/58. The SEARCH function of your viewer can be used.
- (3) For LC•K••••3 / LP•K••••3 with spring terminal, Ith max = 16 A.
- (4) (0.8...1.15 Uc) for single voltage coil; (0.85...1.1 Uc) for dual voltage coil, example 200/208 V AC.
- (5) Only available for 'screw clamp terminals' versions.

Characteristics: pages B8/76 to B8/78 Dimensions page B8/80

Schemes: page B8/81



TeSys Control K Contactors

Product references



LP1K0910 • •



LP1K09103 • •

Contactor selection according to utilisation category, see pages A5/106 to A5/111 and A5/114 to A5/117.

Mounting on 35 mm - rail or Ø4 screw fixing.

Screws in the open "ready-to-tighten" position.

Add-on auxiliary contact blocks and accessories, see pages B8/13 to B8/15.

3-pol	e cont	actors - N	Motor control 6 to	o 12	A in c	categories AC-3, AC-3e, AC-4 - d.c. coil
Standard power ratings of 3-phase motors 50-60 Hz in category AC-3/AC-3e		Rated operational current in category AC-3/AC-3e 440 V up to			Basic reference, to be completed by adding the voltage code	
220 V 230 V	380 V 415 V	440 V 690 V	-	1 7		
kW	kW	kW	Α			
Screw	clamp o	connection	s			
1.5	2.2	3	6	1	_	LP1K0610●●
				_	1	LP1K0601●●
2.2	4	4	9	1	_	LP1K0910●●
				_	1	LP1K0901●●
3	5.5	4 (> 440)	12	1	_	LP1K1210●●
		5.5 (440)		_	1	LP1K1201●●

Spring terminal connections (3)

In the references selected above, insert a figure 3 before the voltage code.

Example: LP1K0610 • becomes LP1K06103 • •.

Faston connectors, 1 x 6.35 or 2 x 2.8

In the references selected above, insert a figure 7 before the voltage code.

Example: LP1K0610 • becomes LP1K06107 • •.

Solder pins for printed circuit boards

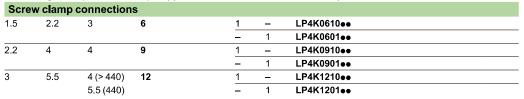
In the references selected above, insert a figure 5 before the voltage code.

Example: LP1K0610 • becomes LP1K06105 • .

3-pole low consumption contactors

Compatible with programmable controller outputs.

Wide range coil (0.7...1.30 Uc), suppressor fitted as standard, consumption 1.8 W.



LP1K09105.



LP4K0910.

Spring terminal connections

In the references selected above, insert a figure 3 before the voltage code.

Example: LP4K0610 • becomes LP4K06103 • •.

Faston connectors, 1 x 6.35 or 2 x 2.8

In the references selected above, insert a figure 7 before the voltage code.

Example: LP4K0610 • becomes LP4K06107 • •.

Solder pins for printed circuit boards

In the references selected above, insert a figure 5 before the voltage code.

Example: LP4K0610 • becomes LP4K06105 • •.

Standard control circuit voltages (for other voltages, please consult your Regional Sales office) d.c. supply (contactors LP1K: 0.8...1.15 Uc)

24 ⁽¹⁾ 36 Volts 12 48 60 100 110 125 155 220 230 240 250 ND KD MPD MUD UD Code ED SD FD GD

Coil with integral suppression device available: add 3 to the code required. Example: JD3

Low cons	Low consumption (contactors LP4K: 0.71.3 Uc)									
Volts	12	20	24	48	72	110	120			
Code	JW3	ZW3	BW3	EW3	SW3	FW3	GW3			

Coil with integral suppression device fitted as standard, by bi-directional peak limiting diode.

- (1) For LP1K only, when connecting an electronic sensor or timer in series with the contactor coil, select a 20 V coil (\sim control circuit voltage code Z7, extstyle = control circuit voltage code ZD) so as to compensate for the incurred voltage drop.
- (2) Please check the availability of your variant in the index page B8/58. The SEARCH function of your viewer can be used.
- (3) For LC•K••••3 / LP•K••••3 with spring terminal), Ith max = 16 A.

Schneider



LC1K09004.



LC1K09103..





Contactors







LC7K0910 • •

Contactor selection according to utilisation category, see pages A5/112 and A5/113.

Mounting on 35 mm - rail or Ø4 screw fixing.

Screws in the open "ready-to-tighten" position.

Add-on auxiliary contact blocks and accessories, see pages B8/13 to B8/15.

3 or 4-pole contac	tors	s - Load	cont	rol up to 2	ੴ A in category AC-1 - a.c. coil ^⑴
Non-inductive loads Category AC-1 Maximum current at θ ≤ 50 °C Number of poles				ntaneous iary contacts	Basic reference, to be completed by adding the voltage code ^{(2) (3)}
Α					
Screw clamp connection	ons				
20	3	-	1	_	LC1K0910●●
				0	LC1K1210●●
	3	-	-	1	LC1K0901●●
				0	LC1K1201●●
		4 –		_	LC1K09004●●
				0	LC1K12004••

LC1K09008

Spring terminal connections (4)

In the references selected above, insert a figure 3 before the voltage code.

Example: LC1K0910 • becomes LC1K09103 • •.

Faston connectors, 1 x 6.35 or 2 x 2.8

In the references selected above, insert a figure 7 before the voltage code.

Example: LC1K0910 • becomes LC1K09107 • •.

Solder pins for printed circuit boards

In the references selected above, insert a figure 5 before the voltage code.

Example: LC1K0910 • becomes LC1K09105 • .

3 or 4-pole silent contactors (1)

Recommended for use in areas sensitive to noise, high interference mains supplies, etc.

Coil with rectifier incorporated, suppressor fitted as standard.

Screw clamp connec	tions				
20	3	_	1	-	LC7K0910●●
					or LC7K1210●●
	3	-	_	1	LC7K0901●●
					or LC7K1201●●
	4	-	_	-	LC7K09004●●
					or LC7K12004●●
	2	2	_	_	LC7K09008●●

Faston connectors, 1 x 6,35 or 2 x 2,8

In the references selected above, insert a figure 7 before the voltage code.

Example: LC7K0910 • becomes LC7K09107 • •

Solder pins for printed circuit boards

In the references selected above, insert a figure 5 before the voltage code.

Example: LC7K0910 • becomes LC7K09105 • •

(1) Coordination tables between 9 and 12 A ratings according to number of operating cycles, see AC-1 curve on page A5/112.

Standard control circuit voltages (for other voltages, please consult your Regional Sales office) Coil voltage codes - a.c. (5)

Contactors	s LC1K ((0.81.1	15 Uc) <i>(0</i> .	.851	'.1 Uc)										
Volts	12	20	24 ⁽²⁾	36	42	48	110	115	120	127	200/20	8	220/230	230	230/240
50 Hz (6)			B5		D5	E5								P5	
50/60 Hz	J7	Z 7	B7	C7	D7	E7	F7	FE7	G7	FC7	L7		M7	P7	U7
Volts	256	277	380/40	0	400	400/	415	440	480	500	575	600	660/690		
50/60 Hz	W7	UE7	Q7		V7	N7		R7	T7	S7	SC7	X7	Y 7		
11 (12	1 11 /	1011	91 90 1												

Up to and including 240 V, coil with integral suppression device available: add 2 to the code required. Example: J72.

Contactor	s LC7K (0	.81.1 Uc)						
Volts	24	42	48	110	115	220	230/240	
50/60 Hz	В7	D7	E7	F7	FE7	M7	U7	

- (2) For mains supplies with a high level of interference (voltage surge > 800 V), use a suppressor module LA4KE1FC (50...129 V) or LA4KE1UG (130...250 V), see page B8/14.
 (3) Please check the availability of your variant in the index page B8/58. The SEARCH function of your viewer can be used.
- (4) For LC. K. 6. 3 / LP. K. 6. 3 with spring terminal, Ith max = 16 A.
- (5) (0.8...1.15 Uc) for single voltage coil; (0.85...1.1 Uc) for dual voltage coil, example 200/208 V AC.
- (6) Only available for 'screw clamp terminals' versions.





Dimensions page B8/80

Schneider Belectric

Schemes page B8/81

B8/6

Contactors

TeSys Control K Contactors

Product references

Sdr 98/22518d

LP1K09004.



LP1K09103 • •



LP1K09105.



LP4K0910•••

Contactor selection according to utilisation category, see pages A5/112 and A5/113. Mounting on 35 mm — rail or Ø4 screw fixing.

Screws in the open "ready-to-tighten" position.

Add-on auxiliary contact blocks and accessories, see pages B8/13 to B8/15.

3 and 4-pole contactors - Load control - 20 A in category AC-1 - d.c. coil (1)

Non-inductive loads Category AC-1 Maximum current at $\theta \le 50$ °C

Number of poles Instantaneous auxiliary contacts Basic reference, to be completed by adding the voltage code ^{(2) (3)}

A Screw clamp connections

3	_	1	_	LP1K0910●●
			or	LP1K1210••
3	-	_	1	LP1K0901●●
			or	LP1K1201••
4	-	_	_	LP1K09004●●
			or	LP1K12004••
2	2	_	_	LP1K09008●●

Spring terminal connections (4)

In the references selected above, insert a figure 3 before the voltage code.

Example: LP1K0910 • becomes LP1K09103 • •.

Faston connectors, 1 x 6.35 or 2 x 2.8

In the references selected above, insert a figure 7 before the voltage code.

Example: LP1K0910 • becomes LP1K09107 • •.

Solder pins for printed circuit boards

In the references selected above, insert a figure 5 before the voltage code.

Example: LP1K0910•• becomes LP1K09105••.

3 or 4-pole 20 A / AC-1 - d.c. low consumption coil (1)

Compatible with programmable controller outputs.

Wide range coil (0.7...1.30 Uc), suppressor fitted as standard, consumption 1.8 W.

Screw clamp connections

20

3	_	1	_	LP4K0910•••
				or LP4K1210•••
3	_	_	1	LP4K0901•••
				or LP4K1201•••
4	-	-	-	LP4K09004●●●
				or LP4K12004•••
2	2	_	_	LP4K09008•••

Spring terminal connections

In the references selected above, insert a figure 3 before the voltage code.

Example: LP4K0910 • becomes LP4K09103 • .

Faston connectors, 1 x 6.35 or 2 x 2.8

In the references selected above, insert a figure 7 before the voltage code.

Example: LP4K0910 • becomes LP4K09107 • •.

Solder pins for printed circuit boards

In the references selected above, insert a figure 5 before the voltage code.

Example: LP4K0910 • becomes LP4K09105 • •.

(1) Coordination tables between 9 and 12 A ratings according to number of operating cycles, see AC-1 curve on page A5/112.

Standard control circuit voltages (for other voltages, please consult your Regional Sales office)

Coil voltage codes - d.c. (contactors LP1K: 0.8...1.15 Uc)

Volts	12	20	24 ⁽²⁾	36	48	60	72	100	110	125	155	174	200	220	230	240	250
Code	JD	ZD	BD	CD	ED	ND	SD	KD	FD	GD	PD	QD	LD	MD	MPD	MUD	UD

Coil with integral suppression device available: add 3 to the code required. Example: JD3.

Coil vol	tage cod	es - low con	sumption o	l.c. (contac	tors LP4K: 0).71.3 Uc)	
Volts	12	20	24	48	72	110	120
Code	JW3	ZW3	BW3	EW3	SW3	FW3	GW3

Coil with integral suppression device fitted as standard, by bi-directional peak limiting diode.

- (2) For LP1K only, when connecting an electronic sensor or timer in series with the contactor coil, select a 20 V coil (∼ control circuit voltage code Z7, control circuit voltage code ZD) so as to compensate for the incurred voltage drop.
- (3) Please check the availability of your variant in the index page B8/58. The SEARCH function of your viewer can be used.
- (4) For LCoKoooo3 / LPoKoooo3 with spring terminal, Ith max = 16 A.



Schneider

Reversing contactor selection according to utilisation category, see pages A5/106 to A5/111 and A5/114 to A5/117. Integral mechanical interlock.

It is essential to link the contacts of the electrical interlock.

Pre-wired power circuit connections as standard on screw clamp versions.

Mounting on 35 mm — rail or Ø4 screw fixing. Screws in the open "ready-to-tighten" position.

Add-on auxiliary contact blocks and accessories, see pages B8/13 to B8/15.

3-pole reversing contactors - Motor control 6 to 16 A in categories AC-3, AC-3e, AC-4 - a.c. coil

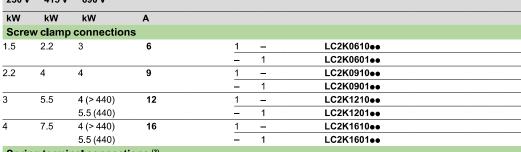
Standard power ratings of 3-phase motors 50/60 Hz in category AC-3/AC-3e

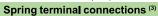
Rated operational AC-3/AC-3e 440 V up to

Instantaneous auxiliary contacts per contactor

Basic reference, to be completed by adding the voltage code

220 V	380 V	440 V
230 V	415 V	690 V





For 6 to 12 A ratings only, in the references selected above, insert a figure 3 before the voltage code.

Example: LC2K0610 • becomes LC2K06103 • •.

Faston connectors, 1 x 6.35 or 2 x 2.8

For 6 to 16 A ratings, in the references selected above, insert a figure 7 before the voltage code.

Example: LC2K0610 • becomes LC2K06107 • •.

Solder pins for printed circuit boards

For 6 to 16 A ratings, in the references selected above, insert a figure 5 before the voltage code.

Example: LC2K0610 • becomes LC2K06105 • .

Standard control circuit voltages (for other voltages, please consult your Regional Sales office) Coil voltage codes - a.c. (4)

Reversing contactors LC2K (0.8...1.15 Uc) (0.85...1.1 Uc)

Volts	12	20	24 ⁽¹⁾	36	42	48	110	115	120	127	200/2	08	220/230	230	230/240
50/60 Hz	J7	Z 7	B7	C7	D7	E7	F7	FE7	G7	FC7	L7		M7	P7	U7
Volts	256	277	380/40	00	400	400/	415	440	480	500	575	600	660/690)	
50/60 Hz	W7	UE7	Q7		V7	N7		R7	T7	S7	SC7	X7	Y7		

Up to and including 240 V, coil with integral suppression device available: add 2 to the code required. Example: J72.

- (1) For mains supplies with a high level of interference (voltage surge > 800 V), use a suppressor module LA4KE1FC (50...129 V) or LA4KE1UG (130...250 V), see page B8/14.
- (2) Please check the availability of your variant in the index page B8/58. The SEARCH function of your viewer can be used.
- (3) For $LC \bullet K \bullet \bullet \bullet \bullet 3 / LP \bullet K \bullet \bullet \bullet \bullet 3$ with spring terminal, Ith max = 16 A.
- (4) (0.8...1.15 Uc) for single voltage coil; (0.85...1.1 Uc) for dual voltage coil, example 200/208 V AC.



LC2K0910 • •



LC2K09105 ...







TeSys Control K Reversing contactors

Product references

Reversing contactor selection according to utilisation category, see pages A5/106 to A5/111 and A5/114 to A5/117. Integral mechanical interlock.

It is essential to link the contacts of the electrical interlock.

Pre-wired power circuit connections as standard on screw clamp versions.

Mounting on 35 mm - rail or Ø4 screw fixing.

Screws in the open "ready-to-tighten" position.

Add-on auxiliary contact blocks and accessories, see pages B8/13 to B8/15.

3-pole reversing contactors - Motor control 6 to 12 A in categories

,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,,,,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
of 3-ph		r ratings ors 50-60 Hz -3/AC-3e	Rated operational current in category AC-3/AC-3e 440 V up to	taned auxil	ous iary acts per	Basic reference, to be completed by adding the voltage code (1) (2)
220 V	380 V	440 V			Ļ	
230 V	415 V	690 V			(
kW	kW	kW	Α			
Screv	v clamp	connections				
1.5	2.2	3	6	1	_	LP2K0610●●
				_	1	LP2K0601●●
2.2	4	4	9	1	_	LP2K0910●●
				_	1	LP2K0901●●
3	5.5	4 (> 440)	12	1	_	LP2K1210••
		5.5 (440)		_	1	LP2K1201●●

Spring terminal connections (3)

In the references selected above, insert a figure 3 before the voltage code.

Example: LP2K0610 • becomes LP2K06103 • •.

Faston connectors, 1 x 6.35 or 2 x 2.8

In the references selected above, insert a figure 7 before the voltage code.

Example: LC2K0610 • becomes LC2K06107 • • .

Solder pins for printed circuit boards

For 6 to 16 A ratings, in the references selected above, insert a figure ${\bf 5}$ before the voltage code.

Example: LC2K0610 • becomes LC2K06105 • •.

3-pole low consumption reversing contactors

Compatible with programmable controller outputs.

Wide range coil (0.7...1.30 Uc), suppressor fitted as standard, consumption 1.8 W.

Screw clamp connections 1.5 2.2 3 6

1.5	2.2	3	6	1	-	LP5K0610••
				_	1	LP5K0601●●
2.2	4	4	9	1	_	LP5K0910●●
				_	1	LP5K0901●●
3	5.5	4 (> 440)	12	1	_	LP5K1210●●
		5.5 (440)		_	1	LP5K1201●●

Spring terminal connections

In the references selected above, insert a figure 3 before the voltage code.

Example: LP5K0610 • becomes LP5K06103 • •.

Faston connectors, 1 x 6.35 or 2 x 2.8

In the references selected above, insert a figure 7 before the voltage code.

Example: LP5K0610 • becomes LP5K06107 • •.

Solder pins for printed circuit boards

In the references selected above, insert a figure 5 before the voltage code.

Example: LP5K0610•• becomes LP5K06105••.

Standard control circuit voltages (for other voltages, please consult your Regional Sales office)

Coil voltage codes - d.c.

Reversing contactors LP2K (0.8...1.15 Uc)

Volts 20 24 (1) 36 100 110 125 155 174 230 240 250 KD MPD MUD UD Code ZD BD CD ED ND SD FD GD PD QD ΙD MD

Coil with integral suppression device available: add 3 to the code required. Example: JD3.

Coil voltage codes - low consumption d.c.

Reversing contactors LP5K (0.7...1.3 Uc)

Reversing	contactors	LPSK (U.7	1.3 00)				
Volts	12	20	24	48	72	110	120
Code	JW3	ZW3	BW3	EW3	SW3	FW3	GW3

Coil with integral suppression device fitted as standard, by bi-directional peak limiting diode.

- (1) For **LP2K** only, when connecting an electronic sensor or timer in series with the contactor coil, select a 20 V coil (∼ control circuit voltage code Z7, control circuit voltage code ZD) so as to compensate for the incurred voltage drop.
- (2) Please check the availability of your variant in the index page B8/58. The SEARCH function of your viewer can be used.
- (3) For $LC \bullet K \bullet \bullet \bullet \bullet 3 / LP \bullet K \bullet \bullet \bullet \bullet 3$ with spring terminal, Ith max = 16 A.

page B8/83

Schen

to online contactor selector

to online contactor selector

Schneider

Belegger

Click HERE for access

B8/9

LC2K0910 • •



2 1

LC2K09105.





Contactors

Warning: reversing contactors LC2K0910●● and LC2K0901●● are pre-wired for reverse motor operation as standard.

Reversing contactor selection according to utilisation category, see pages A5/112 and A5/113. Integral mechanical interlock.

It is essential to link the contacts of the electrical interlock.

Mounting on 35 mm _ rail or Ø4 screw fixing.

Screws in the open "ready-to-tighten" position.

Add-on auxiliary contact blocks and accessories, see pages B8/13 to B8/15.

3 or 4-pole reversing contactors - Load control - 20 A in category AC-1 - a.c. coil (1) Basic reference, to be completed by adding Non-inductive loads Number Instantaneous Category AC-1 of poles auxiliary Maximum current contacts per the voltage code at θ ≤ 50 °C contactor Α Screw clamp connections LC2K0910 20 LC2K1210 • • LC2K0901 ..

LC2K1201 • • LC2K09004 • • LC2K12004 • •

Spring terminal connections (4)

In the references selected above, insert a figure 3 before the voltage code.

Example: LC2K0910 • becomes LC2K09103 • •.

Faston connectors, 1 x 6.35 or 2 x 2.8

In the references selected above, insert a figure 7 before the voltage code.

Example: LC2K0910•• becomes LC2K09107••.

Solder pins for printed circuit boards

In the references selected above, insert a figure 5 before the voltage code.

Example: LC2K0910 • becomes LC2K09105 • •.

(1) Coordination tables between 9 and 12 A ratings according to number of operating cycles, see AC-1 curve on page A5/112.

Standard control circuit voltages (for other voltages, please consult your Regional Sales office) Coil voltage codes - a.c. (5)

Reversing contactors LC2K (0.8...1.15 Uc) (0.85...1.1 Uc)

					. 0, (0.0	· · · · · ·	- 0,									
Volts	12	20	24 ⁽²⁾	36	42	48	110	115	120	127	200/208	1	220/230	230	230/240	
50/60 Hz	J7	Z 7	B7	C7	D7	E7	F7	FE7	G7	FC7	L7		M7	P 7	U7	
Volts	256	277	380/40	0	400	400/	415	440	480	500	575	600	660/690			
50/60 Hz	W7	UE7	Q7		V7	N7		R7	T7	S7	SC7	X7	Y7			

Up to and including 240 V, coil with integral suppression device available: add 2 to the code required. Example: J72.

- (2) For mains supplies with a high level of interference (voltage surge > 800 V), use a suppressor module **LA4KE1FC** (50...129 V) or **LA4KE1UG** (130...250 V), see page B8/14.
- (3) Please check the availability of your variant in the index page B8/58. The SEARCH function of your viewer can be used.
- (4) For LCoKooo3/LPoKooo3 with spring terminal, Ith max = 16 A.
- (5) (0.8...1.15 Uc) for single voltage coil; (0.85...1.1 Uc) for dual voltage coil, example 200/208 V AC.



Contactors

TeSys Control K Reversing contactors

Product references

Warning: reversing contactors LP2K0910●● and LP2K0901●● are pre-wired for reverse motor operation as standard.

Reversing contactor selection according to utilisation category, see pages A5/112 and A5/113. Integral mechanical interlock.

It is essential to link the contacts of the electrical interlock.

Mounting on 35 mm - rail or Ø4 screw fixing.

Screws in the open "ready-to-tighten" position.

Add-on auxiliary contact blocks and accessories, see pages B8/13 to B8/15.

3 or 4-pole reversing contactors - Load control - 20 A in category AC-1 - d.c. coil (1) Non-inductive loads Number Instantaneous Basic reference to be completed by adding Category AC-1 of poles auxiliary Maximum current contacts per the voltage code at θ ≤ 50 °C contactor Screw clamp connections LP2K0910 20 3 LP2K1210 • • 3 1 LP2K0901 ... LP2K1201 •• 4 LP2K09004 • • LP2K12004

Spring terminal connections (4)

In the references selected above, insert a figure 3 before the voltage code.

Example: LP2K0910 • becomes LP2K09103 • •.

Faston connectors, 1 x 6.35 or 2 x 2.8

In the references selected above, insert a figure 7 before the voltage code.

Example: LP2K0910 • becomes LP2K09107 • •.

Solder pins for printed circuit boards

In the references selected above, insert a figure 5 before the voltage code.

Example: LP2K0910•• becomes LP2K09105••.

3 or 4-pole reversing contactors - 20 A / AC-1 - d.c. low consumption coil (1)

Compatible with programmable controller outputs.

Wide range coil (0.7...1.30 Uc), suppressor fitted as standard, consumption 1.8 W.

						•
Screw clamp connections						
20	3	_	1	_		LP5K0910•••
					or	LP5K1210●●●
	3	_	-	1		LP5K0901•••
					or	LP5K1201●●●
	4	_	-	_		LP5K09004●●●
					or	LP5K12004•••

Spring terminal connections

In the references selected above, insert a figure 3 before the voltage code.

Example: LP5K0910 • becomes LP5K09103 • .

Faston connectors, 1 x 6.35 or 2 x 2.8

In the references selected above, insert a figure 7 before the voltage code.

Example: LP5K0910 • becomes LP5K09107 • •.

Solder pins for printed circuit boards

In the references selected above, insert a figure 5 before the voltage code.

Example: LP5K0910 • becomes LP5K09105 • •.

(1) Coordination tables between 9 and 12 A ratings according to number of operating cycles, see AC-1 curve on page A5/112.

Standard	cont	rol c	ircui	t vo	ltage	S (foi	othe	r vo l ta	ages,	pleas	e con	sult y	our R	egion	al Sale	s offi	ce)
Coil voltage	code	s - d.	c. (rev	ersing	g cont	actors	LP2k	(: 0 . 8.	1 . 15	Uc)							
Volts	12	20	24 ⁽²⁾	36	48	60	72	100	110	125	155	174	200	220	230	240	250
Code	JD	ZD	BD	CD	ED	ND	SD	KD	FD	GD	PD	QD	LD	MD	MPD	MUD	UD

Coil with integral suppression device available: add 3 to the code required. Example: JD3.

Coil voltage codes - low consumption d.c. (reversing contactors LP5K: 0.71.3 Uc)									
Volts	12	20	24	48	72	110	120		
Code	JW3	ZW3	BW3	EW3	SW3	FW3	GW3		

Coil with integral suppression device fitted as standard, by bi-directional peak limiting diode.

- (2) For **LP2K** only, when connecting an electronic sensor or timer in series with the contactor coil, select a 20 V coil (*∼* control circuit voltage code Z7, control circuit voltage code ZD) so as to compensate for the incurred voltage drop.
- (3) Please check the availability of your variant in the index page B8/58. The SEARCH function of your viewer can be used.
- (4) For LCeKeeee3 / LPeKeeee3 with spring terminal, Ith max = 16 A.

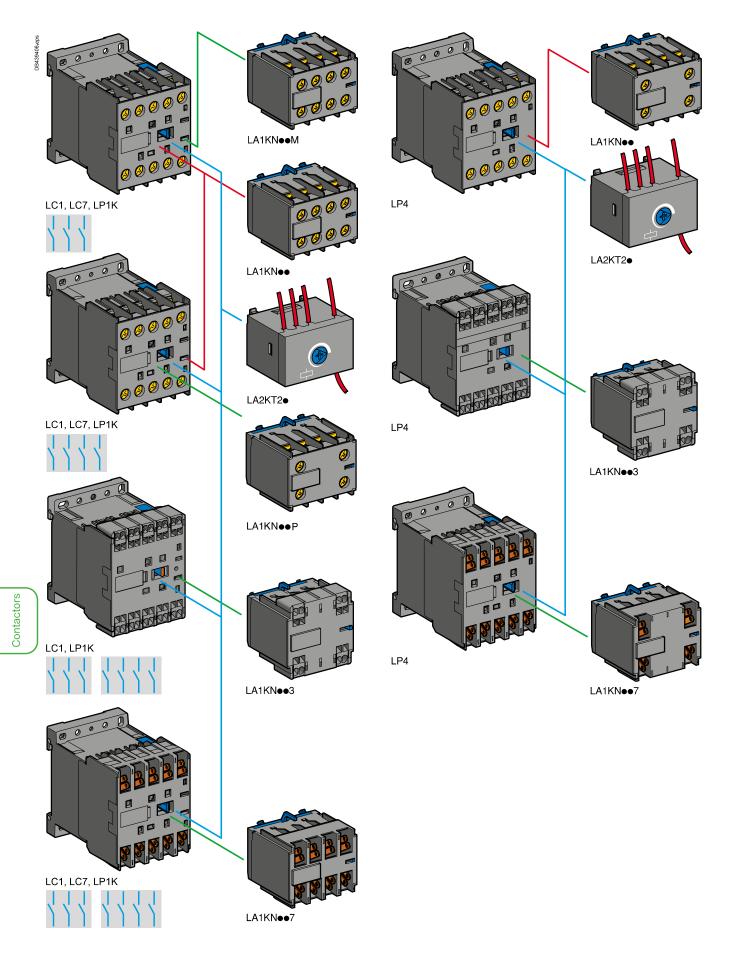
Click HERE for access to online contactor selector

Life Is On

Characteristics: pages B8/76 to B8/79

page B8/82

Schemes: page B8/83





LA1KN22



LA1KN223



LA1KN407

Instantaneou	ıs auxiliary contact bl	locks	5	
	for standard applications.			nounting, 1 block per
Connection	For use on contactors	Comp	position	Reference
Screw clamp	All products with screw clamp	2	_	LA1KN20
erminals	terminals	_	2	LA1KN02
		1	1	LA1KN11
	All products with screw clamp	4	_	LA1KN40
	terminals except low consumption	3	1	LA1KN31
		2	2	LA1KN22
		1	3	LA1KN13
		_	4	LA1KN04
Spring terminals	All products with spring	2	_	LA1KN203
	terminals	_	2	LA1KN023
		1	1	LA1KN113
	All products with spring	4	_	LA1KN403
	terminals except low	3	1	LA1KN313
	consumption	2	2	LA1KN223
		1	3	LA1KN133
		_	4	LA1KN043
aston connectors, x 6.35 or 2 x 2.8	All products with Faston connectors	2	-	LA1KN207
	All products with Faston	4	_	LA1KN407
	connectors except low consumption	3	1	LA1KN317
With terminal ref 1 block per cont	ferencing to standard EN 5 actor	0012.	Clip-on	front mounting,
Screw clamp	All 3-pole + N/O products with		2	LA1KN02M
· · · · · · · · ·				

screw clamp terminals except 2 LP4 or LP5K06, K09 and K12 Electronic time delay auxiliary contact blocks

All 3-pole + N/O products with 3

screw clamp terminals except LP4 and LP5K12

Relay output with common point changeover contact, \sim or == 240 V, 2 A maximum.

Control voltage 0.85...1.1 Uc.

terminals with

standard EN 50012

referencing conforming to

Maximum switching capacity 250 VA or 150 W.

Operating temperature -10...+60 °C.

Reset time: 1.5 s during the time delay period, 0.5 s after the time delay period.

		g are arrive areas, person	,						
Clip-on fro	Clip-on front mounting, 1 block per contactor								
Voltage	Туре	Timing range	Composition	Reference					
V		S							
∼ or 24…48	On-delay	130	1	LA2KT2E					
∼ 110240	On-delay	130	1	LA2KT2U					





LA1KN11M

LA1KN31M

LA1KN22M

1

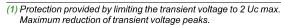
1

2





References				
Mounting and connection	Туре	For voltages	Sold in lots of	Unit reference
Clip-on fixing on the front of contactors LC1 and LP1, with	Varistor (1)	\sim and $=$ 1224 V	5	LA4KE1B
locating device. No tools required.		~ and == 3248 V	5	LA4KE1E
		~ and 50129 V	5	LA4KE1FC
		~ and == 130250 V	5	LA4KE1UG
	Diode + Zener diode (2)	1224 V	5	LA4KC1B
		3248 V	5	LA4KC1E
	RC (3)	\sim 110250 V	5	LA4KA1U



Slight increase in drop-out time (1.2 to 2 times the normal time).







B8/14

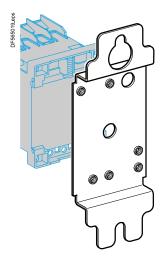
Slight increase in drop-out time (1.1 to 1.5 times the normal time).

(2) No overvoltage or oscillating frequency.
Polarised component.
Slight increase in drop-out time (1.1 to 1.5 times the normal time).

(3) Protection by limiting the transient voltage to 3 Uc max. and limitation of the oscillating

TeSys Control K Contactors - Accessories

Product references

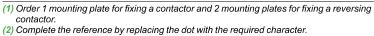


DX1AP25



Mounting and marking accessories										
Description	Application		Sold in lots of	Unit reference						
Mounting plates (1)	For fixing on 2 ∟ rails	110/120 mm fixing centres	10	DX1AP25						
Marker holder	Clip-on	Onto front of contactor	100	LA9D90						

Connection a	accessories			
Description	Application		Sold in lots of	Unit preference
Paralleling links	For 2 poles	With screw clamps	4	LA9E01
	For 4 poles	With screw clamps	2	LA9E02
Set of 6 power connections	For 3-pole reversing contactors for motor control	For contactors with screw clamp terminals	100	LA9K0969





Control Panel Technical Guide:

Mounting and wiring accessories for TeSys K, Deca, F contactors. Star-delta, reverser, low-high speed control motor starters and changeover applications -Product references and details on all kits and wiring accessories.







> Click on QR code to download

TeSys Control **Deca Contactors**

Introduction

Deca Advanced, enriching Deca family

Deca conventional contactors 9 to 150 A, for motor control and other applications.

Deca Advanced delivers a consistent low consumption range of contactors from 9 A to 80 A, covering control voltage from 24 to 250 V, with same coils for AC and DC.





When implemented with other Schneider Electric products*, Deca Advanced contactors are part of a comprehensive solution that is ideal for all types of industrial machines and processes.



Deca Overload relay

By combining a Deca Advanced contactor with our new Deca electronic overload relay, you will have less heat generation, and further reduce energy consumption.





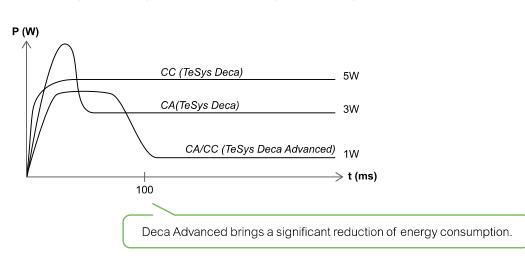
Highly competitive coil consumption

Small changes can generate big savings. The new Deca Advanced contactor is equipped with an innovative electronic coil. These electronic-coil contactors require **up to 80 % less energy** than electro-mechanical contactors. This innovation results in concrete values: for example, large plants can noticeably reduce their energy bills and heat dissipation in cabinet.

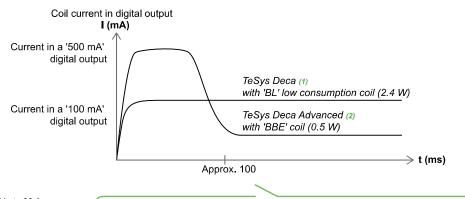
09-12-18 A 25-32-38 A 40-50-65-80 A

Coil currents comparison

Deca Advanced contactors (AC/DC coil) vs Deca contactors (AC, DC coils)



Deca Advanced contactors ("BBE" coil) vs Deca contactors (low consumption "BL" coil)



(1) Up to 38 A. (2) 40 to 80 A.

Deca Advanced contactor is well adapted to direct control by PLC static outputs, even in its high ratings.

Contactors

TeSys Control Deca Advanced Contactors

Product references



LC1D09•••



LC1D40A•••

Deca Advanced contactors have a dark grey casing and a 3-character code voltage

Decar	duvance	eu coma	actors in	ave a u	aik gie	y casing and a	3-chai	acter code	voltage.	
3-pc	le coi	ntacto	ors - N	lotor (contr	ol up to 37	kW/	400 V -	Category AC-3/AC-3e	
	lard power ratings of 3-phase mo Hz in category AC-3/AC-3e		tors	Rated operational current in AC-3/AC-3e 440 V	Instantaneous auxiliary contacts		Basic reference, to be completed by adding the control voltage code (1)	Weight -		
220 V 230 V	380 V 400 V	415 V	440 V	500 V	660 V 690 V	– up to			_	
kW	kW	kW	kW	kW	kW	Α				kg
Conn	ection	by scre	ew clan	np term	inals					
2.2	4	4	4	5.5	5.5	9	1	1	LC1D09•••	0.368
3	5.5	5.5	5.5	7.5	7.5	12	1	1	LC1D12•••	0.373
4	7.5	9	9	10	10	18	1	1	LC1D18•••	0.378
5.5	11	11	11	15	15	25	1	1	LC1D25●●●	0.433
7.5	15	15	15	18.5	18.5	32	1	1	LC1D32eee	0.438
9	18.5	18.5	18.5	18.5	18.5	38	1	1	LC1D38eee	0.442
Powe	r conn	ections	by Eve	erLink®	BTR (3	screw conn	ectors	and conti	ol by screw clamp terminal	
11	18.5	22	22	22	30	40	1	1	LC1D40A●●●	0.992
15	22	25	30	30	33	50	1	1	LC1D50A●●●	0.997
18.5	30	37	37	37	37	65	1	1	LC1D65A●●●	1.002
22	37	37	37	37	37	66	1	1	LC1D80A●●●	1.002

Connection for lugs or bars

For LC1D40A to LC1D80A, insert a figure 6 before the voltage code.

Example: LC1D40A • • becomes LC1D40A6 • •

Auxiliary contact blocks and add-on modules

See pages B8/37 to B8/45

See pages Bo/3	07 to B6/45.			
Control vol	tage codes			
AC/DC or 24 V	DC supply			
Volts	24 (DC only)	24-60	48-130	100-250
LC1D09D38, LC1D40A D80A	\			
U 0.851.1 Uc		BNE	EHE	KUE
LC1D09 D38				
U 0.8 1.2 Uc	BNE		·	·
LC1D40A D80A	\			
U 0.81.2 Uc	BBE			

- (1) Please check the availability of your variant in the index page B8/57. The SEARCH function of your viewer can be used.
 (2) LC1D09 to D80A: clip-on mounting on 35 mm ur rail NSYSDR or screw fixing.
 (3) BTR screws: hexagon socket head. In accordance with local electrical wiring regulations, a size 4 insulated Allen key must be used (reference LADALLEN4, see B8/45).





TeSys Control **Deca Advanced Contactors**

Product references



LC1D09•••



LC1D40A•••













LC1DT60A•●●

Deca Advanced contactors have a dark grey casing and a 3-character code voltage.

3-pole contactors - Load control from 25 to 80 A - Category AC-1 Non inductive loads Number

maximum current (θ ≤ 60 °C) utilisation category AC-1

of poles

Instantaneous auxiliary contacts Partial reference, to be completed by adding the control voltage code ⁽¹⁾

Fixing (2)

Α					kg
Connection	on by screw cla	mp term	ninals		
25	3	1	1	LC1D09	0.368
				or LC1D12•••	0.373
32	3	1	1	LC1D18●●●	0.378
40	3	1	1	LC1D25	0.433
50	3	1	1	LC1D32•••	0.438
				or LC1D38•••	0.442

Connection by EverLink®, BTR screw connectors (3)							
60	3	1	1	LC1D40A●●●	0.992		
80	3	1	1	LC1D50A●●●	0.997		
				or LC1D65A ••• (4)	1.002		
				or LC1D80A ••• (4)	1.002		

Connection for lugs or bars

For LC1D40A to LC1D80A, insert a figure 6 before the voltage code.

Example: LC1D40A • • becomes LC1D40A6 • •

4-pole contactors								
Connection by EverLink®, BTR (3) screw connectors								
60	4	1	1	LC1DT60A●●●	1.230			
80	4	1	1	LC1DT80A	1.290			
Connection	Connection for lugs or bars							

For LC1DT60A to LC1DT80A, insert a figure 6 before the voltage code.

Example: LC1DT60A • • becomes LC1DT60A6 • •

4-pole cl	4-pole changeover contactors									
Connection by EverLink®, BTR (3) screw connectors										
60	4	1	1	LC2DT60A●●●	2.460					
80	4	1	1	LC2DT80A●●●	2.580					

00	-		LOZDIOOMOGO		2.100
80	4	1 1	LC2DT80A●●●		2.580
Control	voltage codes	5			
AC/DC or 2	24 V DC supply				
Volts	24 (DC only)	24-60	48-130	100-250	
LC1D09D8	0A and LC●DT60A.	DT80A			
U 0.85 1.1	Uc	BNE	EHE	KUE	
LC1D09 D	38				
U 0.8 1.2 U	Jc BNE				
LC1D40 to LC	C1D80A, LC●DT60A	to LC●DT80A			

U 0.8...1.2 Uc

- (1) Please check the availability of your variant in the index page B8/57 The SEARCH function of
- your viewer can be used.
 (2) LC1D09 to D80A, LC●DT60A and LC●DT80A: clip-on mounting on 35 mm ⊥r rail NSYSDR or screw fixing.
- (3) BTR screws: hexagon socket head. In accordance with local electrical wiring regulations, a size 4 insulated Allen key must be used (reference LADALLEN4, see page B8/45).
- (4) Coordination tables according to the number of operation cycles, consult online datasheets for values.

Contactors

TeSys Control Deca Advanced Contactors

Product references



LC1D09•••



LC1D40A•••

Deca Advanced contactors have a dark grey casing and a 3-character code voltage.

3-pole contactors conforming to UL and CSA standards (North American market) -

25 to	80 A							
Standa	ard power	ratings o	f motors	50/60 Hz		Associated cable	Continuous	Type of contactor required
Single 1 Ø	ngle-phase 3-phase Ø 3 Ø 		type 75 °C-Cu	current	Partial reference, to be completed by adding the control voltage code (1)			
115 V	230 V 240 V	200 V 208 V	230 V 240 V	460 V 480 V	575 V 600 V			Fixing, connection (2)
HP	HP	HP	HP	HP	HP		Α	
Conn	ection by	y screw	clamp t	ermina l	s			
1/3	1	2	2	5	7.5	AWG 18 - 10	25	LC1D09•••
0.5	2	3	3	7.5	10	AWG 18 - 10	25	LC1D12eee
1	3	5	5	10	15	AWG 18 - 8	32	LC1D18•••
2	3	7.5	7.5	15	20	AWG 14 - 6	40	LC1D25•••
2	5	10	10	20	25	AWG 14 - 6	50	LC1D32•••

Pov	wer conn	ections l	by Ever	Link® B	TR ⁽³⁾ scr	ew connectors and	control by	spring terminals
3	5	10	10	30	30	AWG 16 - 2	60	LC1D40A●●●
3	7.5	15	15	40	40	AWG 16 - 2	70	LC1D50A●●●
5	10	20	20	40	50	AWG 16 - 2	80	LC1D65A●●●
5	10	20	20	40	50	AWG 16 - 2	80	LC1D80A•••

Connection for lugs or bars

For LC1D40A to LC1D80A, insert a figure 6 before the voltage code.

Example: LC1D40A • • becomes LC1D40A6 • •

Applications with High-Fault Short-Circuit Current ratings

High-fault short-circuit current ratings are: 100 kA at 600 V with Class J fuses and 85 kA (D09-38), 100 kA (D40A-65A) at 480 V and 50 kA at 600 V with circuit breakers.

Control voltage codes									
AC/DC or 24 V DC supply									
Volts	24 (DC only)	24-60	48-130	100-250					
LC1D09 D32, LC1D40A D80A									
U 0.85 1.1 Uc		BNE	EHE	KUE					
LC1D09 D38									
U 0.8 1.2 Uc	BNE								
LC1D40A D80A									
U 0.81.2 Uc	BBE								

- (1) Please check the availability of your variant in the index page B8/57. The SEARCH function of your viewer can be used. (2) **LC1D09** to **D80**: clip-on mounting on 35 mm urail **NSYSDR** or screw fixing.
- (3) BTR screws: hexagon socket head. In accordance with local electrical wiring regulations, a size 4 insulated Allen key must be used (reference LADALLEN4, see page B8/45).





Life Is On

TeSys Control Deca Advanced Contactors

Product references

Deca Advanced contactors - Coordination with PLC output modules (static/relay/triac)

Selection of PLC coordinated contactors

Laboratory tests have been carried out in order to validate trouble free contactor closings and openings with different PLC output modules.

The coil must be defined according to the contactor rating range and output module. See selection table below.

The PLC	your are using				Compatible	Coil code	
PLC type	Output type	Output I (A)	Output module commercial reference	>>>	contactors ⁽¹⁾		
M221 /	Static output:	0.5	TM3DQ8●●● and Q16●●●		LC1D09●● to LC1D38●●,	BL, BNE	
M241 / M251	24 V DC		(T, TG, U, UG)	>>>	LC1D40A••• to LC1D80A, LC1DT60A••• to LC1DT80A•••	BBE	
		0.3 (sealed) 0.8 (inrush)	TM3XTYS4	>>>	LC1D40A••• to LC1D80A, LC1DT60A••• to LC1DT80A•••	BBE, BD, BNE	
		0.1	TM3DQ16●● and Q32●● (TK, UK)	>>>	LC1D09●● to LC1D38●●	BL	
	Relay output: 24 V DC / 230 V AC	2	TM3DQ8 and DQ16 (R,RG), TM3DM8 and DM24 (R,RG)	>>>	LC1D09ee to LC1D38ee, LC1D40Aeee to LC1D80A, LC1DT60Aeee to LC1DT80Aeee	Code of any DC coil up to 24 V or any AC coil up to 230 V	
M340 /	Static output:	0.5	BMXDDO1602 and DM16022		LC1D09●● to LC1D38●●	BL, BNE	
M580	24 V DC			>>>	LC1D40A••• to LC1D80A, LC1DT60A••• to LC1DT80A•••	BBE	
		0.1	BMXDDO3202, BMXDDM3202K, BMXDDO6402K	>>>	LC1D09•• to LC1D38••	BL	
	Relay output: 24 V DC / 230 V AC	2	BMXDRA0805 and DM16025	>>>	LC1D09ee to LC1D38ee, LC1D40Aeee to LC1D80A, LC1DT60Aeee to LC1DT80Aeee	Code of any DC coil up to 24 V or any AC coil up to 230 V	
	Triac output: 230 V AC	0.6	BMXDAO1605	>>>	LC1D09ee to LC1D38ee, LC1D40eee to LC1D80Aeee, LC1DT60Aeee to LC1DT80Aeee	Code of any AC coil up to 230 V (P7 code = 230 V)	
ADVANTYS	Static output: 24 V DC	0.5	STBDDO3200		LC1D09•• to LC1D38••	BL, BNE	
				>>>	LC1D40A••• to LC1D80A, LC1DT60A••• to LC1DT80A•••	BBE	
	Triac output: 230 V AC	2	STBDAO8210	>>>	LC1D09ee to LC1D38ee, LC1D40Aeee to LC1D80A, LC1DT60Aeee to LC1DT80Aeee	Code of any AC coil up to 230 V (P7 code = 230 V AC)	

Coils consumption characteristics

Coil type	Uc DC - min -max	Average consumption at UC DC / 20 °C		
		Inrush	Sealed	
BL	24 V - 0.8 Uc to 1.1 Uc	2.4 W - 2.4 VA	2.4 W - 2.4 VA	
BNE		14 W - 14 VA	0.7 W - 0.7 VA	
BBE		11 W - 11 VA	0.5 W - 0.5 VA	

(1) Replace dot by coil code. Ex LC1D09 • becomes LC1D09BL.

Contactors

2.500

TeSys Control **Deca Contactors**

Product references



LC1D09.



LC1D25••



LC1D80A●●



LC1D95●●



LC1D115●●

3-pc	ole co	ontac	ctors	- Mc	otor o	contro	l up to 75 k	W at	400 V,	in category AC-3/AC-3	3e
Stand 50-60 (θ ≤ 6	lard po Hz in c 0 °C)	wer ra	tings o ry AC-3	of 3-pha B/AC-3	ase mo e		Rated operational current in AC-3/AC-3e 440 V up to		ntaneous ary	Basic reference, to be completed by adding the control voltage code (1)	Weight (3)
kW	kW	kW	kW	kW	kW	kW	A				kg
Coni	nectio	n by s	crew	clamp	term	inals					
2.2	4	4	4	5.5	5.5	_	9	1	1	LC1D09●●	0.320
3	5.5	5.5	5.5	7.5	7.5	_	12	1	1	LC1D12••	0.325
4	7.5	9	9	10	10	_	18	1	1	LC1D18●●	0.330
5.5	11	11	11	15	15	_	25	1	1	LC1D25●●	0.370
7.5	15	15	15	18.5	18.5	_	32	1	1	LC1D32●●	0.375
9	18.5	18.5	18.5	18.5	18.5	_	38	1	1	LC1D38●●	0.380
Pow	er con	nectio	ons by	/ Evei	Link®	BTR sc	rew connecto	rs (4) a	nd contro	ol by screw clamp terminal	
11	18.5	22	22	22	30	_	40	1	1	LC1D40A●●	0.850
15	22	25	30	30	33	_	50	1	1	LC1D50A●●	0.855
18.5	30	37	37	37	37	_	65	1	1	LC1D65A●●	0.860
22	37	37	37	37	37	_	66	1	1	LC1D80A●●	0.860
Coni	nectio	n by s	crew	clamp	term	ina l s or	connectors				
22	37	45	45	55	45	45	80	1	1	LC1D80●●	1.590
25	45	45	45	55	45	45	95	1	1	LC1D95●●	1.610
30	55	59	59	75	80	65	115	1	1	LC1D115••	2.500

Connection by lugs or bars

80

80

40

75

In the references selected above, insert a figure 6 before the voltage code.

100 75

Example: LC1D09 • becomes LC1D096 • .

90

Separate components

Auxiliary contact blocks and add-on modules: see pages B8/37 to B8/45.

150

Addition y contact blocks	J una a	au-011		C3 . 50	c page	3 20/0	,, 10 0	0,40.					
Standard control c	ircuit	volta	ges (for oth	ner vol	tages,	pleas	e cons	sult yo	ur Re	gional	Sales	Office
a.c. supply													
Volts	24	42	48	110	115	220	230	240	380	400	415	440	500
LC1D09D150 (D115 and D	150 coils	with bu	ilt-in su _l	opressio	on as sta	andard	, by bi-d	irection	al peak	limiting	diode).		
50/60 Hz	B7	D7	E7	F7	FE7	M7	P7	U7	Q7	V7	N7	R7	S7
LC1D09D65 (not available	with "cor	nection	for lugs	or bars	s")								
50 Hz	B5	D5	E5				P5						
LC1D80D115													
50 Hz	B5	D5	E5	F5	FE5	M5	P5	U5	Q5	V5	N5	R5	S5
60 Hz	В6	_	E6	F6	_	M6	_	U6	Q6	_	_	R6	_
d.c. supply													
Volts	12	24	36	48	60	72	110	125	220	250	440		
LC1D09D38 (coils with inte	gral supp	ressior	device	fitted a	s standa	ard, by	bi-direct	tional pe	eak limit	ting dio	de)		
U 0.71.25 Uc	JD	BD	CD	ED	ND	SD	FD	GD	MD	UD	RD		
LC1D40AD65A (coils with	integral s	suppres	sion de	vice fitte	ed as sta	andard,	by bi-di	rectiona	al peak	limiting	diode)		
U 0.751.25 Uc	JD	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	RD		
LC1D80D95													
U 0.851.1 Uc	JD	BD	CD	ED	ND	SD	FD	GD	MD	UD	RD		
U 0.751.2 Uc	JW	BW	CW	EW	_	SW	FW	_	MW	_	_		
LC1D115 and D150 (coil with	built-in s	uppres	sion dev	ice as s	standard	d)							
110.75 1.211c		BD		ED	ND	SD	ED	GD	MD	LID	BD		

110 LC1D09...D38 (coils with integral suppression device fitted as standard, by bi-directional peak limiting diode)

20

12 U 0.8...1.25 Uc ΑL JL ZL BL EL FL ML

For other voltages between 5 and 690 V, see pages B8/48 to B8/51. (1) Please check the availability of your variant in the index page B8/57. The SEARCH function of your viewer can be used.

Low consumption DC (for low consumption AC/DC: Deca Advanced contactors, page B8/19)

24

(2) LC1D09 to D80A: clip-on mounting on 35 mm ur rail NSYSDR or screw fixing.

5

LC1D80 to D95 \(\sigma\): clip-on mounting on 35 mm \(\sigma\) rail NSYSDR or 75 mm \(\sigma\) rail AM1DL or screw fixing.

LC1D80 to D95 \(\sigma\): clip-on mounting on 75 mm \(\sigma\) rail AM1DL or screw fixing.

LC1D80 to D95 \(\sigma\): clip-on mounting on 75 mm \(\sigma\) rails NSYSDR or screw fixing.

LC1D115 and D150: clip-on mounting on 2 x 35 mm \(\sigma\) rails NSYSDR or screw fixing.

(3) The weights indicated are for contactors with a.c. control circuit. For d.c. or low consumption control circuit, add 0.160 kg from LC1D09 to D38, 0.075 kg from LC1D40A to D80A and 1 kg for LC1D80 and D95.

48

220

UL

(4) BTR screws: hexagon socket head. In accordance with local electrical wiring regulations, a size 4 insulated Allen key must be used (reference LADALLEN4, see page B8/45).
 (5) For these coil voltages, choose from Deca Advanced contactors. Same product ref. radical, just add BBE coil voltage code for

24 V DC, BNE for 24-60V AC/DC, EHE for 48-130 V AC/DC, KUE for 100-250 V AC/DC. Example: LC1D40ABBE.

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Schneider

LC1D150●●

LC1D123●●



LC1D80A3●●





3 - pc	ole co	ontac	ctors	- Mo	otor o	ontro	l up to 30 k	ιW a	t 400 V,	in category AC-3/AC-3e			
50-60	Standard power ratings of 3-phase motors 50-60 Hz in category AC-3/AC-3e $(\theta \le 60 ^{\circ}\text{C})$				tors	Rated operational current in AC-3/AC-3e -440 V	Instar auxili conta	-	Basic reference, to be completed by adding the control voltage code (1) Fixing (2)				
220 V 230 V		415 V	440 V	500 V	660 V 690 V	1000 V	up to		7				
kW	kW	kW	kW	kW	kW	kW	Α						
Powe	Power and control connections by spring terminals												
2.2	4	4	4	5.5	5.5		9	1	1	LC1D093●●			
3	5.5	5.5	5.5	7.5	7.5		12	1	1	LC1D123●●			
4	7.5	9	9	10	10		18	1	1	LC1D183●●			
5.5	11	11	11	15	15		25	1	1	LC1D253●●			
7.5	11	11	11	15	15		32 (3)	1	1	LC1D323●●			
Powe	er con	nectio	ons by	/ Ever	Link®	BTR so	rew connecto	ors (4) a	and contr	ol by spring terminals			
11	18.5	22	22	22	30		40	1	1	LC1D40A3●●			
15	22	25	30	30	33		50	1	1	LC1D50A3●●			
18.5	30	37	37	37	37		65	1	1	LC1D65A3●●			
22	37	37	37	37	37		66	1	1	LC1D80A3●●			
Conn	ectio	n by F	aston	conn	ectors	;							

These contactors are fitted with Faston connectors: 2 x 6.35 mm on the power poles and 1 x 6.35 mm on the coil and auxiliary terminals.

For contactors LC1D09 and LC1D12 only, replace the figure 3 with a 9 in the references selected above. Example: LC1D093 • becomes LC1D099 • •.

Separate components

Auxiliary contact blocks and add-on modules: see pages B8/37 to B8/45.

Standard control cit	rcuit	voltaç	ges (fo	or othe	r vo lt a	ges, pl	lease c	onsult	your F	Regiona	al Sales	Office)
a.c. supply												
Volts	24	42	48	110	115	220	230	240	380	400	415	440
LC1D09D80A												
50/60 Hz	В7	D7	E7	F7	FE7	M7	P7	U7	Q7	V7	N7	R7
d.c. supply												
Volts	12	24	36	48	60	72	110	125	220	250	440	
LC1D09D32 (coils with integral suppression device fitted as standard, by bi-directional peak limiting diode)												
U 0.71.25 Uc	JD	BD	CD	ED	ND	SD	FD	GD	MD	UD	RD	
LC1D40AD65A (coils with in	ntegral s	uppress	ion devi	ce fitted	as stan	dard, by	bi-direc	tional pe	eak limit	ng diode	:)	
U 0.751.25 Uc	JD	BD	CD	ED	ND	SD	FD	GD	MD	UD	RD	
Low consumption												
Volts	5	12	20	24	48	110	220	250				
LC1D09D32 (coils with integral suppression device fitted as standard, by bi-directional peak limiting diode)												
U 0.81.25 Uc	AL	JL	ZL	BL	EL	FL	ML	UL				

For other voltages between 5 and 690 V, see pages B8/48 to B8/51.

- (1) Please check the availability of your variant in the index page B8/57. The SEARCH function of your viewer can be used.
 (2) LC1D09 to D32: clip-on mounting on 35 mm rail NSYSDR or screw fixing.
 (3) Must be wired with 2 x 4 mm² cables in parallel on the upstream side. On the downstream side, outgoing terminal block LAD331 may be used (Quickfit technology, see page B1/18). When wired with a single cable, the product is limited to 25 A
- (4) BTR screws: hexagon socket head. In accordance with local electrical wiring regulations, a size 4 insulated Allen key must be used (reference LADALLEN4, see page B8/45).

Schneider Electric

Contactors

TeSys Control Deca Contactors

Product references





For other voltages between 5 and 690 V, see pages B8/48 to

- B8/51.
 (1) Please check the availability of your variant in the index page B8/58. The SEARCH function of your viewer can be
- (2) LC1D09 to D80A: clip-on mounting on 35 mm \rac{1}{2} rail

 NSYSDR or screw fixing.

LC1D80 and D95 ~: clip-on mounting on 35 mm urail NSYSDR or 75 mm urail AM1DL or screw fixing. LC1 or LP1D80 to D95 ...; clip-on mounting on 75 mm urail AM1DL or screw fixing.

LC1D115 and D150: clip-on mounting on 2 x 35 mm urails NSYSDR or screw fixing.

(3) The weights indicated are for contactors with a.c. control

- (3) The weights indicated are for contactors with a.c. control circuit. For d.c. or low consumption control circuit, add 0.160 kg from LC1D09 to D38, 0.075 kg from LC1D40A to D80A and 1 kg for LC1D80 and D95.
 (4) BTR screws: hexagon socket head. In accordance with
- (4) BTR screws: hexagon socket head. In accordance with local electrical wiring regulations, a size 4 insulated Allen key must be used (reference LADALLEN4, see page B8/45).
- (5) Coordination tables according to the number of operating cycles see AC-1 curve, page page A5/112
- cycles, see AC-1 curve, page page A5/112.
 (6) 32 A with 2 x 4 mm² cables connected in parallel.
 (7) For these coil voltages, choose from Deca Advanced
- (7) For these coil voltages, choose from Deca Advanced contactors. Same product ref. radical, just add BBE coil voltage code for 24 V DC, BNE for 24-60 V AC/DC, EHE for 48-130 V AC/DC, KUE for 100-250 V AC/DC. Example: LC1D40ABBE.

3-pole contactin category A		oad c	ontro	ol fı	rom 25 to 200 A	
Non inductive loads maximum current (0 ≤ 60 °C) utilisation category AC-1	Number of poles	auxi	an- eous iliary tacts		Basic reference, to be completed by adding the control voltage code (1) Fixing (2)	Weight (3)
Α						kg
Connection by s	crew clam	p term	ninals			
25	3	1	1		LC1D09●●	0.320
				or	LC1D12••	0.325
32	3	1	1		LC1D18••	0.330
40	3	1	1		LC1D25••	0.370
50	3	1	1		LC1D32••	0.375
				or	LC1D38••	0.380
Connection by E	verLink®,	BTR so	crew c	onn	ectors (4)	
60	3	1	1		LC1D40A●●	0.850
80	3	1	1		LC1D50A●●	0.855
				or	LC1D65A•• (5)	0.860
				or	LC1D80A●● (5)	0.860
Connection by s	crew clam	p term	ninals	or c	onnectors	
125	3	1	1		LC1D80●●	1.590
				or	LC1D95ee (5)	1.610
200	3	1	1		LC1D115●●	2.500
				or	LC1D150●● (6)	2.500
			-	-		

in the references selected above, insert a lighte o before the voltage code.
Example: LC1D09●● becomes LC1D096●●.

3-pole contactors for connection by lugs

Standard control circuit voltages													
(for other voltages	, ple	ase c	ons	ult ye	our R	egic	nal S	Sales	Offi	ce)			
a.c. supply													
Volts	24	42	48	110	115	220	230	240	380	400	415	440	500
LC1D09D150 (LC1D	115 a	nd D1	50 co	ils wit	h buil	-in su	ippres	ssion	devic	e as s	tanda	rd)	
50/60 Hz	B7	D7	E7	F7	FE7		P7	U7	Q7	V7	N7	R7	S7
LC1D09D65 (not ava	ilable	with "	conne	ection	for lu	gs or	bars")					
50 Hz	B5	D5	E5				P5						
LC1D80D150													
50 Hz	B5	D5	E5	F5	FE5	M5	P5	U5	Q5	V5	N5	R5	S5
60 Hz	В6	_	E6	F6	_	М6	_	U6	Q6	_	_	R6	_
d.c. supply													
Volts	12	24	36	48	60	72	110	125	220	250	440		
LC1D09D38 (coils will limiting diode)	th inte	egral s	suppre	essior	devi	e fitte	ed as	stand	ard, b	y bi-d	lirection	onal p	eak
U 0.71.25 Uc	JD	BD	CD	ED	ND	SD	FD	GD	MD	UD	RD		
LC1D40AD65A (coil peak limiting diode)	s with	integ	ral su	ppres	sion d	evice	fitted	as st	andaı	d, by	bi-dire	ection	ıal
U 0.751.25 Uc	JD	(7)	(7)	(7)	(7)	(7)	(7)	(7)	(7)	(7)	RD		
LC1 or LP1D80 and D9)5												
U 0.851.1 Uc	JD	BD	CD	ED	ND	SD	FD	GD	MD	UD	RD		
U 0.751.2 Uc	JW	BW	CW	EW	_	SW	FW	_	MW	_	_		
LC1D115 and D150 (cc	ils wit	th buil	t-in su	ppres	sion (device	e fitted	d as s	tanda	rd)			
U 0.751.2 Uc	_	BD	_	ED	ND	SD	FD	GD	MD	UD	RD		
Low consumption													
Volts	5	12	20	24	48	110	220	250					
LC1D09D38 (coils with integral suppression device fitted as standard, by bi-directional peak limiting diode)													

AL JL ZL BL EL FL ML UL



Life Is On

Characteristics: pages B8/84 to B8/91 Dimensions: pages B8/99 to B8/105 Schemes: pages B8/106 and B8/107

U 0.8...1.25 Úc

LC1D123..



LC1D80A3••









AC-1 Non inductive Number Instantaneous Basic reference. Weight to be completed by adding loads maximum of poles auxiliary contacts the control voltage code current (θ ≤ 60 °C) utilisation category AC-1 Α kg Connection by spring terminals LC1D093 • (4) 0.320 or LC1D123 • (4) 0.325

3-pole contactors - Load control from 16 to 80 A in category

				or LC1D323•• (6)	0.325
Power co		by Eve	erLink	® BTR screw connectors ⁽⁷⁾ and cor	itrol by
60	3	1	1	LC1D40A3●●	0.850
80	3	1	1	LC1D50A3●● ⁽⁸⁾	0.855
				or LC1D65A3 ●● ⁽⁸⁾	0.860
				or LC1D80A3●● ⁽⁸⁾	0.860

LC1D183 • (5)

or LC1D253 • (6)

0.335

0.325

3-pole contactors for connection by Faston connectors

These contactors are fitted with Faston connectors: 2 x 6.35 mm on the power poles and 1 x 6.35 mm on the coil terminals. For contactors LC1D09 and LC1D12 only, in the references selected from the previous page, insert a figure 9 before the voltage code. Example: LC1D09●● becomes LC1D099●●.

Separate components

3

25

Auxiliary contact blocks and add-on modules: see pages B8/37 to B8/45.

Standard control circuit voltages (for other voltages, please consult your Regional Sales Office)													
a.c. supply													
Volts	24	42	48	110	115	220	230	240	380	400	415	440	500
LC1D09D80A													
50/60 Hz	В7	D7	E7	F7	FE7	M7	P7	U7	Q7	V7	N7	R7	S7
d.c. supply													
Volts	12	24	36	48	60	72	110	125	220	250	440		
LC1D09D32 (coils with integral suppression device fitted as standard, by bi-directional peak limiting diode)													
U 0.71.25 Uc	JD	BD	CD	ED	ND	SD	FD	GD	MD	UD	RD		
LC1D40AD65A (coils peak limiting diode)	with	integr	al sup	opres	sion d	evice	fitted	as sta	andar	d, by	bi-dire	ection	al
U 0.751.25 Uc	JD	BD	CD	ED	ND	SD	FD	GD	MD	UD	RD		
Low consumption													
Volts	5	12	20	24	48	110	220	250					
LC1D09D32 (coils w limiting diode)	ith inte	egral	suppr	essio	n devi	ce fitt	ed as	stanc	lard, l	oy bi-	directi	onal p	eak
U 0.81.25 Uc	AL	JL	ZL	BL	EL	FL	ML	UL					

For other voltages between 5 and 690 V, see pages B8/48 to B8/51.

- (1) Please check the availability of your variant in the index page B8/59. The SEARCH function of vour viewer can be used.
- (2) LC1D09 to D80A: clip-on mounting on 35 mm \(\sigma \) rail NSYSDR or screw fixing.
- (3) The weights indicated are for contactors with a.c. control circuit. For d.c. or low consumption control circuit, add 0.160 kg from LC1D09 to D38 and 0.075 kg from LC1D40A to D80A.
- (4) 20 A with 2 x 2.5 mm² cables connected in parallel.
- (5) 32 A with 2 x 4 mm² cables connected in parallel.
 (6) 40 A with 2 x 4 mm² cables connected in parallel.
- (7) BTR screws: hexagon socket head. In accordance with local electrical wiring regulations, a size 4 insulated Allen key must be used (reference LADALLEN4, see page B8/45).
- (8) Coordination tables according to the number of operating cycles, see AC-1 curve, page A5/112.



Weight

TeSys Control **Deca Contactors**

Product references



LC1DT20

PB121715.tif		0	9	9 5 p	9
	- 9 -	LOID	TeSys	Sch	ni Acroc
	P) 2	40	613	874

LC1DT80A●●



LC1D65008 • •

maximum current (θ ≤ 60 °C)	of p	oles	auxiliary contacts			to be completed by adding the control voltage code (1)	(3)	
utilisation category AC-1	1	7				Fixing (2)		
Α							kg	
Connection by scr	ew cla	mp te	rmina	ıls				
20	4	_	1	1		LC1DT20●●	0.365	
	2	2	1	1		LC1D098●●	0.365	
25	4	-	1	1		LC1DT25●●	0.365	
	2	2	1	1		LC1D128●●	0.365	
32	4	_	1	1		LC1DT32●●	0.425	
	2	2	1	1		LC1D188●●	0.425	
40	4	_	1	1		LC1DT40●●	0.425	
	2	2	1	1		LC1D258●●	0.425	
Connection by Eve	erLink®	, BTR	screv	w conne	cto	's		
60	4	_	1	1		LC1DT60A●●	1.090	
80	4	_	1	1		LC1DT80A●●	1.150	
Connection by scr	ew cla	mp te	rmina	ls or co	nne	ctors		
60	2	2	-	-		LC1D40008●●	1.440	
					or	LP1D40008●●	2.210	
80	2	2	_	_		LC1D65008●●	1.450	
					or	LP1D65008●●	2.220	
125	4	_	_	_		LC1D80004●●	1.760	
					or	LP1D80004●●	2.685	
	2	2	_	_		LC1D80008●●	1.840	
					or	LP1D80008●●	2.910	
200	4	_	_	_		LC1D115004●●	2.860	

4-pole contactors for connection by lugs or bars

In the references selected above, insert a figure 6 before the voltage code.

4-pole contactors - Load control, 20 to 200 A in category AC-1

Instantaneous

Number

Example: LC1DT20 • becomes LC1DT206 • •.

				-									
Standard control of	circuit	volta	ges (for oth	er vol	tages,	pleas	e cons	ult yo	ur Reg	gional	Sales	Office)
a.c. supply													
Volts	24	42	48	110	115	220	230	240	380	400	415	440	500
LC1D09D150 and LC1DT	20DT80	A (LC1)	D115 an	d D150	coils w	ith built	in supp	ression	device	as stan	dard)		
50/60 Hz	B7	D7	E7	F7	FE7	M7	P7	U7	Q7	V7	N7	R7	_
LC1D80D115													
50 Hz	B5	D5	E5	F5	FE5	M5	P5	U5	Q5	V5	N5	R5	S5
60 Hz	В6	_	E6	F6	_	M6	_	U6	Q6	_	_	R6	_
d.c. supply													
Volts	12	24	36	48	60	72	110	125	220	250	440		
LC1D09D25 and LC1DT2	0DT40 (coils wit	h integra	al suppr	ession o	device fi	tted as	standar	d, by bi-	directio	nal peal	k limiting	g diode)
U 0.751.25 Uc	JD	BD	CD	ED	ND	SD	FD	GD	MD	UD	RD		
LC1DT60ADT80A (coils v	vith integra	al suppi	ession	device f	itted as	standa	rd, by bi	-directi	onal pe	ak limiti	ng diod	e)	
U 0.751.25 Uc	JD	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	RD		
LP1D40D80													
U 0.851.1 Uc	JD	BD	CD	ED	ND	SD	FD	GD	MD	UD	RD		
U 0.751.2 Uc	JW	BW	CW	EW	_	SW	FW	_	MW	-	_		
LC1D115 (coil with built-in s	uppressio	n devic	e as stai	ndard)									
U 0.751.2 Uc	_	BD	_	ED	ND	SD	FD	GD	MD	UD	RD		
Low consumption													
Volts	5	12	20	24	48	110	220	250					
LC1D09D25 and LC1DT20)DT40 (c	oils with	n integra	l suppr	ession d	levice fi	tted as s	standard	d, by bi-	direction	nal peak	limiting	g diode)
U 0.81.25 Uc	AL	JL	ZL	BL	EL	FL	ML	UL					

For other voltages between 5 and 690 V, see pages B8/48 to B8/51.

- (1) Please check the availability of your variant in the index page B8/59. The SEARCH function of your viewer can be used.
- (1) LC1D09 to D38 and LC1DT20 to DT80A; clip-on mounting on 35 mm ∟ rail NSYSDR or screw fixing.

 LC1D80 ∼: clip-on mounting on 35 mm ∟ rail NSYSDR or 75 mm ∟ rail AM1DL or screw fixing.

 LC1 or LP1D80 ः:: clip-on mounting on 75 mm ∟ rail AM1DL or screw fixing.

 LC1D115 and D150: clip-on mounting on 2 x 35 mm ∟ rails NSYSDR or screw fixing.

- (3) The weights indicated are for contactors with a.c. control circuit. For d.c. or low consumption control circuit, add 0.160 kg from LC1D09 to D38, 0.075 kg from LC1DT60A and D80A and 1 kg for LC1D80.
 (4) For these coil voltages, choose from Deca Advanced contactors. Same product ref. radical, just add BBE coil voltage code for 24 V DC, BNE for 24-60 V AC/DC, EHE for 48-130 V AC/DC, KUE for 100-250 V AC/DC. Example: LC1DT60ABBE.



TeSys Control **Deca Contactors**

Product references



LC1DT253●●



LC1DT80A3••







4-pole conta	ctor	s - l	Load	l control	20 to 80 A in category	4C-1
Non inductive loads maximum current	Num of po			intaneous liary contacts		Weight
(θ ≤ 60 °C) utilisation category AC-1	1	ŀ. 7		<u> </u>	Fixing (2)	
Α						kg
Connection by	sprin	g ter	mina	ls		
20	4	_	1	1	LC1DT203●●	0,380
	2	2	1	1	LC1D0983●●	0.380
25	4	_	1	1	LC1DT253●●	0.380
	2	2	1	1	LC1D1283●●	0.380
32	4	_	1	1	LC1DT323●●	0.425
	2	2	1	1	LC1D1883●●	0.425
40	4		1	1	LC1DT403●●	0.425
	2	2	1	1	LC1D2583●●	0.425
Connection by I spring terminals		.ink®	, BTF	₹ screw cor	nnectors and control circuit by	у
60	4	_	1	1	LC1DT60A3●●	1.090
80	4	_	1	1	LC1DT80A3●●	1.150
Separate cor	oam	nen	ts			

(for other voic	ages, pie	ise i	cons	uit ye	our r	regic	mai (Sales	S UIII	ice)			
a.c. supply													
Volts	24	42	48	110	115	220	230	240	380	400	415	440	500

Auxiliary contact blocks and add-on modules: see pages B8/37 to B8/45.

standard, by bi-direction						al sup	oressi	on de	vice f	itted a	is	
50/60 Hz	В7	D7	E7	F7	FE7 M7	P7	U7	Q7	V7	N7	R7	_

	d.c.	supp	ly
--	------	------	----

U 0.7...1.25 Uc

12 24 36 48 60 72 110 125 220 250 440

LC1D09...D25 and LC1DT20... DT40 (coils with integral suppression device fitted as standard, by bi-directional peak limiting diode)

JD BD CD ED ND SD FD GD MD UD RD LC1DT60A...80A (coils with integral suppression device fitted as standard, by bi-directional

peak limiting diode)

U 0.75...1.25 Uc JD BD CD ED ND SD FD GD MD UD RD

Low consumption

5 12 20 24 48 110 220 250

Standard control circuit voltages

 $\textbf{LC1D09}...\textbf{D25} \ \textbf{and} \ \textbf{LC1DT20}...\textbf{DT40} \ (\text{coils with integral suppression device fitted as standard}, \\$ by bi-directional peak limiting diode)

ΑL JL ZL BL EL FL ML UL

For other voltages between 5 and 690 V, see pages B8/48 to B8/51.

- (1) Please check the availability of your variant in the index page B8/59. The SEARCH function of
- (2) LC1D09 to D38 and LC1DT20 to DT80A: clip-on mounting on 35 mm ur rail NSYSDR or
- (3) The weights indicated are for contactors with a.c. control circuit. For d.c. or low consumption control circuit, add 0.160 kg from LC1D09 to D38, 0.075 kg for LC1DT60A and DT80A.

Click HERE for access

to online contactor selector

TeSys Control **Deca Contactors**

Product references



LC1D09.



LC1D25●●



LC1D80A●●



LC1D95●●

Con	tactors	confo	rming	to UL	and CS	SA standards (No	orth Ameri	can market) -
25 to	160 A							
Stand	ard power	ratings o	of motors	50/60 Hz	2	Associated cable	UL	Type of contactor required
Single 1 Ø	-phase	3-phas 3 Ø	е			type 75 °C-Cu	continuous current	Basic reference, to be completed by adding the control voltage code (1)
120 V	240 V	208 V	240 V	480 V	600 V	•		Fixing, connection (2)
HP	HP	HP	HP	HP	HP		Α	
Conn	ection by	screw	clamp t	erminal	s			
1/3	1	2	2	5	7.5	AWG 18 - 10	25	LC1D09●●
0.5	2	3	3	7.5	10	AWG 18 - 10	25	LC1D12●●
1	3	5	5	10	15	AWG 18 - 8	32	LC1D18••
2	3	7.5	7.5	15	20	AWG 14 - 6	40	LC1D25●●
2	5	10	10	20	25	AWG 14 - 6	50	LC1D32●● (3)
2	5	10	10	20	25	AWG 14 - 6	50	LC1D38●● (3)
Powe	r connec	tions by	y EverL	ink® BT	R screw o	connectors and cont	rol by spring	terminals
3	5	10	10	30	30	AWG 16 - 2	60	LC1D40A●●
3	7.5	15	15	40	40	AWG 16 - 2	70	LC1D50A●●
5	10	20	20	40	50	AWG 16 - 2	80	LC1D65A●●
5	10	20	20	40	50	AWG 16 - 2	80	LC1D80A●●
Conn	ection by	screw	clamp t	erminal	s or con	nectors		
7.5	15	25	30	60	60	AWG 10 - 2	110	LC1D80●●
7.5	15	25	30	60	60	AWG 10 - 2	110	LC1D95●●
_	_	30	40	75	100	AWG 8-1/0	160	LC1D115••
_	_	40	50	100	125	AWG 8-1/0	160	LC1D150●●

Applications with High-Fault Short-Circuit ratings

High-fault short-circuit current ratings are: 100 kA (D09-80, D115-150) at 600 V with Class J fuses and 85 kA (D09-38), 100 kA (D40A-80, D115-150) at 480 V and 50 kA (D09-80, D115-150) at 600 V with circuit breakers.

Application example

For a 15 HP-230 V motor

Select a contactor type LC1D50A.

Information: the contactor rating selected corresponds to "size 2", the associated cable is type AWG3 75 °C-Cu.

imormation, the									•							
Standard o	ontr	ol ci	rcuit	volta	ages	(for o	ther v	oltage	es, ple	ease c	onsul	t you	Regi	onal S	Sales C	Office
a.c. supply																
Volts	24	42	48	110	115	120	208	220	230	240	380	400	415	440	480	500
LC1D09D150	(D115 a	and D1	50 coil	s with b	uilt-in	suppres	ssion d	evice a	s stand	dard)						
50/60 Hz	B7	D7	E7	F7	FE7	G7 ⁽⁴⁾	LE7	⁴⁾ M7	P7	U7	Q7	V7	N7	R7	T7 (4)	S7
LC1D09D65 (r	not avai	ilable w	ith "cor	nectio	n for lu	gs or ba	ırs")									
50 Hz	B5	D5	E5						P5							
LC1D80D115																
50 Hz	B5	D5	E5	F5	FE5	G5	_	M5	P5	U5	Q5	V5	N5	R5	_	S5
60 Hz	В6	_	E6	F6	_	G6	L6	M6	-	U6	Q6	-	-	R6	Т6	_
d.c. supply																
Volts	12	24	36	48	60	72	110	125	220	250	440					
LC1D09D32 (d	coils wi	th integ	ıral sup	pressi	on devi	ce fitted	d as sta	andard,	by bi-	directio	nal pea	k limiti	ng dioc	le)		
U 0.71.25 Uc	JD	BD	CD	ED	ND	SD	FD	GD	MD	UD	RD					
LC1D40AD65	A (coils	with ir	ntegral	suppre	ssion d	evice fi	tted as	standa	ard, by	bi-dire	ctional	peak li	miting o	diode)		
U 0.751.25 Uc	JD	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	RD					
LC1D80 and D9	5															
U 0.851.1 Uc	JD	BD	CD	ED	ND	SD	FD	GD	MD	UD	RD					
U 0.751.2 Uc	JW	BW	CW	EW	_	SW	FW	_	MW	-	_					
LC1D115 and D	150 (cc	ils with	built-ir	suppr	ession	device	as sta	ndard)								
U 0.751.2 Uc	-	BD	-	ED	ND	SD	FD	GD	MD	UD	RD					
Low consum	ption															
Volts 	5	12	20	24	48	72	110	220	250							
LC1D09D38 (d	coils wi	th integ	ral sup	pressi	on devi	ce fitted	d as sta	andard,	by bi-	directio	nal pea	k limiti	ng dioc	le)		
U 0.81.25 Uc	AL	JL	ZL	BL	EL	SL	FL	ML	UL							

- (1) Please check the availability of your variant in the index page B8/59. The SEARCH function of your viewer can be used.
- (2) LC1D09 to D65A: clip-on mounting on 35 mm ☐ rail NSYSDR or screw fixing.
- LC1D80 and LC1D95: clip-on mounting on 35 mm ⊥ rail NSYSDR or 75 mm ⊥ rail AM1DL or screw fixing. LC1D115 and D150: clip-on mounting on 2 x 35 mm ⊥ rails NSYSDR or screw fixing.

 (3) Versions with spring terminals LC1D323 and LC1D383 are not certified UL/CSA.
- (4) Contactors LC1D40A, 50A, 65A, 80A: for this coil voltage use is only on 60 Hz.
- (5) For these coil voltages, choose from Deca Advanced contactors. Same product ref. radical, just add BBE coil voltage code for 24 V DC, BNE for 24-60 V AC/DC, EHE for 48-130 V AC/DC, KUE for 100-250 V AC/DC. Example: LC1D40ABBE.



Product references



LC2D12••



LC2D65A••







3-pole reversing contactors - Motors up to 75 kW / 400 V in category AC-3/AC-3e

Horizontally mounted - Pre-wired power connections.

Standard power ratings of 3-phase motors 50-60 Hz in category AC-3/AC-3e (θ ≤ 60 °C)

220 V 380 V 415 V 440 V 500 V 660 V 1000 230 V 400 V 690 V V

Rated operational current in AC-3/AC-3e 440 V up to

Instantaneous auxiliary contacts contactor

Contactors supplied with coil Basic reference, to be completed by adding the control voltage

Weight

kg

Fixing (2)

2.2	4	4	4	5.5	5.5	_	9	1	1	LC2D09●● (4)
	mec onnec		al inte	rlock,	witho	ut ele	ctrica	l interlocking	յ, for c	onnection by screw clamp terminals
KVV	KVV	KVV	KVV	KVV	KVV	KVV	А			

2.2	4	4	4	5.5	5.5	_	9	1	1	LC2D09●● (4)	0.687
3	5.5	5.5	5.5	7.5	7.5	_	12	1	1	LC2D12●● (4)	0.697
4	7.5	9	9	10	10	_	18	1	1	LC2D18●● (4)	0.707
5.5	11	11	11	15	15	_	25	1	1	LC2D25●● (4)	0.787
7.5	15	15	15	18.5	18.5	_	32	1	1	LC2D32●● ⁽⁴⁾	0.797
9	18.5	18.5	18.5	18.5	18.5	_	38	1	1	LC2D38●● (4)	0.807
11	18.5	22	22	22	30	_	40	1	1	LC2D40A●●	1.870
15	22	25	30	30	33	_	50	1	1	LC2D50A●●	1.880
18.5	30	37	37	37	37	_	65	1	1	LC2D65A••	1.890
22	37	45	45	55	45	_	80	1	1	LC2D80●●	3.200
25	45	45	45	55	45	_	95	1	1	LC2D95●●	3.200
VACCE								 		C I	

With	n mecl	nanica	ıl inter	łock a	nd ele	ctrica	l inter i c	cking, fo	r co	onnect	ion by screw clamp termin	als or connectors
30	55	59	59	75	80	65	115		1	1	LC2D115●●	6.350
40	75	80	80	90	100	75	150		1	1	LC2D150●●	6.400

Connection by lugs or bars

For reversing contactors LC2D09 to LC2D38, LC2D115 and LC2D150, in the references selected above, insert a figure 6 before the voltage code. Example: LC2D09. becomes LC2D096.

To build a 40 to 65 A reversing contactor, for connection by lugs, order 2 contactors LC1D •• A6 and mechanical interlock LAD4CM (see page B8/46).

Component parts

Auxiliary contact blocks and add-on modules: see pages B8/37 to B8/45.

Standard control	circuit	volta	ges (for oth	er vol	tages,	pleas	e cons	sult yo	ur Reç	gional	Sales	Office)
a.c. supply													
Volts	24	42	48	110	115	220	230	240	380	400	415	440	500
LC2D09D150 (D115 and [0150 coils	with bu	ilt-in su	ppressio	on devic	e as sta	andard)						
50/60 Hz	B7	D7	E7	F7	FE7	М7	P7	U7	Q7	V7	N7	R7	S7
LC2D80D115													
50 Hz	B5	D5	E5	F5	FE5	M5	P5	U5	Q5	V5	N5	R5	S5
60 Hz	B6	_	E6	F6	-	M6	-	U6	Q6	-	-	R6	_
d.c.supply													
Volts	12	24	36	48	60	72	110	125	220	250	440		
LC2D09D38 (coils with int	egral supp	ressior	device	fitted a	s standa	ard, by l	oi-direct	ional pe	eak limit	ing dio	de)		
U 0.71.25 Uc	JD	BD	CD	ED	ND	SD	FD	GD	MD	UD	RD		
LC2D40AD65A (coils with	n integral s	uppres	sion de	vice fitte	ed as sta	andard,	by bi - di	rection	al peak	limiting	diode)		
U 0.751.25 Uc	JD	BD	CD	ED	ND	SD	FD	GD	MD	UD	RD		
Low consumption													
Volts	5	12	20	24	48	110	220	250					
LC2D09D38 (coils with int	egral supp	ressior	n device	fitted a	s standa	ard, by l	oi-direct	ional pe	eak limit	ting dio	de)		
U 0.81.25 Uc	AL	JL	ZL	BL	EL	FL	ML	UL					

For other voltages between 5 and 690 V, see pages B8/48 to B8/51.

- (1) Please check the availability of your variant in the index page B8/59. The SEARCH function of your viewer can be used.
- (2) LC2D09 to D65A: clip-on mounting on 35 mm _rail NSYSDR or screw fixing.
 - LC2D80 and D95: clip-on mounting on 35 mm ir rail NSYSDR or 75 mm ir rail AM1DL or screw fixing.
- LC2D115 and D150: clip-on mounting on 35 mm ur rail **NSYSDR** or screw fixing.

 (3) The weights indicated are for contactors with a.c. control circuit. For d.c. or low consumption control circuit, add 0.330 kg for LC2D09 to D38, 0.150 kg for LC1D40A to D65A.
- (4) For reversing contactors with electrical interlocking pre-wired at the factory, add suffix V to the references selected above. Example: LC2D09B7 becomes LC2D09B7V.

Note: when assembling a reversing contactor, it is good practice to incorporate a 50 ms time delay.

Characteristics pages B8/84 to B8/91

pages B8/108 to B8/109

Schneider GElectric

pages B8/110 and B8/111



Weight

TeSys Control Deca Reversing contactors

Product references



LC2D123

3-pole reversing contactors - Motors up to 15 kW / 400 V in category AC-3/AC-3e

Pre-wired power connections,

Mechanical interlock without electrical interlocking.

Standard power ratings of 3-phase motors 50-60 Hz in category AC-3/AC-3e $(\theta \le 60 ^{\circ}\text{C})$	operational current in AC-3/AC-3e 440 V up to	taneous auxiliary contacts per contactor
--	---	--

Contactors supplied with coil Basic reference, to be completed by adding the voltage code (1)

Fixing (2)

		415 V	440 V	500 V	
230 V	400 V				690 V

230 \	/ 400 V	/			690 V					
kW	kW	kW	kW	kW	kW	Α				kg
For	conne	ction	by sp	ring te	ermina	ls				
2.2	4	4	4	5.5	5.5	9	1	1	LC2D093●●	0.687
3	5.5	5.5	5.5	7.5	7.5	12	1	1	LC2D123●●	0.697
4	7.5	9	9	10	10	18	1	1	LC2D183●●	0.707
5.5	11	11	11	15	15	25	1	1	LC2D253●●	0.787
7.5	15	15	15	18.5	18.5	32 (4)	1	1	LC2D323●●	0.797
Pow	er cor	necti	on by	EverL	_ink®, E	BTR scre	w connecto	ors (5) and control by spring terminals	
11	18.5	22	22	22	30	40	1	1	LC2D40A3●●	1.870
15	22	25	30	30	33	50	1	1	LC2D50A3●●	1.880
18.5	30	37	37	37	37	65	1	1	LC2D65A3●●	1.890

For connection by Faston connectors

All power connections are to be made by the customer.

These contactors are fitted with Faston connectors: 2 x 6.35 mm on the power poles and 1 x 6.35 mm on the coil terminals.

For reversing contactors LC2D09 and LC2D12 only, in the references selected above, replace the figure 3 before the voltage code with a figure 9.

Example: LC2D093 • becomes LC2D099 • •.

Component parts

Auxiliary contact blocks and add-on modules: see pages B8/37 to B8/45.

a.c. supply													
Volts	24	42	48	110	115	220	230	240	380	400	415	440	500
LC2D09D65A													
50/60 Hz	В7	D7	E7	F7	FE7	M7	P7	U7	Q7	V7	N7	R7	S7
d.c. supply													
Volts	12	24	36	48	60	72	110	125	220	250	440		
LC2D09D32 (coils with int	egral supp	oression	n device	fitted a	s standa	ard, by b	oi-direct	ional pe	eak limit	ting diod	de)		
U 0.71.25 Uc	JD	BD	CD	ED	ND	SD	FD	GD	MD	UD	RD		
LC2D40AD65A (coils with	n integral s	suppres	sion de	vice fitte	ed as sta	andard,	by bi-di	rectiona	al peak	limiting	diode)		
U 0.751.25 Uc	JD	BD	CD	ED	ND	SD	FD	GD	MD	UD	RD		
Low consumption													
Volts	5	12	20	24	48	110	220	250					
LC2D09D32 (coils with inte	egral supr	ression	device	fitted as	standa	rd, by b	i-direct	onal pe	ak limit	ing dioc	le)		
LCZDOSD3Z (COIIS WITH ITHE	- 3. c., c., b.												

- (1) Please check the availability of your variant in the index page B8/59. The SEARCH function of your viewer can be used.
 (2) LC2D09 to D32: clip-on mounting on 35 mm \(\text{r rid}\) rail **NSYSDR** or screw fixing.
 (3) The weights indicated are for reversing contactors with a.c. control circuit. For d.c. or low consumption control circuit, add 0.330 kg for LC2D09 to D38, 0.150 kg for LC1D40A to D65A.
- (4) Must be wired with 2 x 4 mm² cables in parallel on the upstream side. On the downstream side, outgoing terminal block LAD331 may be used (Quickfit technology, see page B1/18). When wired with a single cable, the product is limited to 25 A (11 kW/400 V motors).
- (5) BTR screws: hexagon socket head. In accordance with local electrical wiring regulations, a size 4 insulated Allen key must be used (reference LADALLEN4, see page B8/45).



Life Is On

TeSys Control Deca Changeover contactors

Product references



LC2DT20●●



LC2D115004●●





Contactors

4-pole changeover contactor pairs - 20 to 200 A in category AC-1

Pre-assembled. Pre-wired power connections

LC2DT20 to LC2DT40: mechanical interlock without electrical interlocking. LC2D80004: order separately 2 auxiliary contact blocks LADN●1 to obtain electrical interlocking between the 2 contactors (see page B8/37).

For electrical interlocking incorporated in the mechanical interlock, please consult your Regional Sales Office.

LC2D115004: mechanical interlock with integral, pre-wired electrical interlocking.

		0 / 1		U
For connection by	screw cl	amp terminals or c	onnectors	
Utilisation category A Non-inductive loads		antaneous auxiliary tacts per contactor	Contactors supplied with coil	Weight
Maximum rated operational current (θ ≤ 60 °C)		<u> </u>	Basic reference, to be completed by adding the voltage code (1)(2)	
			Fixing (3)	
Α				kg
20	1	1	LC2DT20●●	0.730
25	1	1	LC2DT25●●	0.730
32	1	1	LC2DT32●●	0.850
40	1	1	LC2DT40●●	0.850
125		_	LC2D80004●●	3.200
200	_	_	LC2D115004●●	7.400
For connection by	lugs or b	pars		
20	1	1	LC2DT206●●	0.730
25	1	1	LC2DT256●●	0.730
32	1	1	LC2DT326●●	0.850
40	1	1	LC2DT406●●	0.850
For customer a				
For connection by	screw cl	amp terminals or c	onnectors	
60	1	1	LC1DT60A●● (4)	_
80	1	1	LC1DT80A●● (4)	_
For connection by	lugs or b	ars		
60	1	1	LC1DT60A6●● (4)	_
80	1	1	LC1DT80A6●● (4)	_

Auxiliary contact blocks and add-on modules: see pages B8/37 to B8/45.

Note: when assembling changeover contactor pairs, it is good practice to incorporate a 50 ms time delay.

- (1) See note (2) on next page.
- (2) Please check the availability of your variant in the index page B8/59. The SEARCH function of your viewer can be used.
 (3) LC2DT20 to LC2DT80: clip-on mounting on 35 mm rail NSYSDR or screw fixing.
- (3) LC2DT20 to LC2DT80: clip-on mounting on 35 mm \(\to \) rail NSYSDR or screw fixing.

 LC2D80: clip-on mounting on 35 mm \(\to \) rail NSYSDR or 75 mm \(\to \) rail AM1DL or screw fixing.
 - LC2D115: clip-on mounting on 2 x 35 mm \(\triangle \) rails NSYSDR or screw fixing.
- (4) For these operational currents, order 2 identical contactors and a mechanical interlock **LAD4CM** (see page B8/46).



TeSys Control Deca Changeover contactors

Product references



Example of necessary components for customer assembly: 2 x LC1DT80A3. contactors + LAD4CM mechanical interlock

4-pole changeover contactor pairs for 20 to 80 A control in category AC-1

control in catego	'iy	AC-I					
Pre-assembled, for	cus	tomer assembly					
Pre-wired power connec	tions	, for connection by s	pring terminals.				
Utilisation category AC-1 Non-inductive loads		tantaneous auxiliary ntacts per contactor	Contactors supplied with coil				
Maximum rated operational current $(\theta \le 60 ^{\circ}\text{C})$		<u> </u>	Basic reference, to be completed by adding the control voltage code (1) Fixing (2)				
Α							
20	1	1	LC2DT203●●				
Power connection by Eve by spring terminals	erLin	k [®] , BTR screw connec	ctors ⁽³⁾ and control				
60	1	1	LC1DT60A3●● (4)				
80	1	1	LC1DT80A3●● (4)				
Separate componer	nts						
Auxiliary contact blocks	and a	add-on modules: see	pages B8/19 to B8/19.				
Standard control circuit voltages							

Standard control circuit voltages (for other voltages, please consult your Regional Sales Office)													
a.c. supply													
Volts	24	42	48	110	115	220	230	240	380	400	415	440	500
LC2DT20DT40, LC	2DT60	AD	T80A										
50/60 Hz	В7	D7	E7	F7	FE7	М7	P7	U7	Q7	V7	N7	R7	_
LC2D80004D11500)4												
50 Hz	B5	D5	E5	F5	FE5	M5	P5	U5	Q5	V5	N5	R5	S5
60 Hz	В6	_	E6	F6	_	M6	_	U6	Q6	_	-	R6	_
d.c. supply													
Volts	12	24	36	48	60	72	110	125	220	250	440		
LC2DT20DT40, LC1DT60DT80 (coils with integral suppression device fitted as standard.													

by bi-directional peak limiting diode)

U 0.7...1.25 Uc JD BD CD ED ND SD FD GD MD UD RD

> BL EL

0 0.71.23 00	טט	טט	CD	LD	ND	30	יו	GD	IVID	OD	ND	
Low consumption												
Volts	5	12	20	24	48	110	220	250				
LC2DT20DT40 (coils with integral suppression device fitted as standard, by bi-directional peak limiting diode)												

For other voltages between 5 and 690 V, see pages B8/19 to B8/19.

ZL

(1) Please check the availability of your variant in the index page B8/59. The SEARCH function of

FL

UL

ML

- your viewer can be used.

 (2) Clip-on mounting on 35 mm □ rail NSYSDR or screw fixing.

 (3) BTR screws: hexagon socket head. In accordance with local electrical wiring regulations, a size 4 insulated Allen key must be used (reference LADALLEN4, see page B8/19).

 (4) For these operational currents, order 2 identical contactors and a mechanical interlock
- LAD4CM (see page B8/19).



U 0.8...1.25 Uc

TeSys Control Deca Advanced Reversing contactors

Product references



LC2D09•••



LC2D40A●●●











Deca Advanced contactors have a dark grey casing and a 3-character code voltage.

3-pole reversing contactors - Motors up to 37 kW / 400 V in category AC-3/AC-3e

Pre-wired power connections

kW

Standard power ratings of 3-phase motors 50-60 Hz in category AC-3/AC-3e $(\theta \leqslant 60~^{\circ}\text{C})$	Rated operational current in AC-3/AC-3e 440 V up to	Instan- taneous auxiliary contacts per contactor	Contactors supplied with coil Partial reference, to be completed by adding the control voltage code (1)	Weight
220 V 380 V 415 V 440 V 500 V 660 V 230 V 400 V 690 V			Fixing (2)	

	With mechanical interlock, without electrical interlocking, for connection by screw clamp terminals or Everlink BTR screw connectors (3) (4)											
2.2	4	4	4	5.5	5.5	9	1	1	LC2D09•••	0.783		
3	5.5	5.5	5.5	7.5	7.5	12	1	1	LC2D12•••	0.793		
4	7.5	9	9	10	10	18	1	1	LC2D18•••	0.803		
5.5	11	11	11	15	15	25	1	1	LC2D25●●●	0.913		
7.5	15	15	15	18.5	18.5	32	1	1	LC2D32•••	0.923		
9	18.5	18.5	18.5	18.5	18.5	38	1	1	LC2D38•••	0.933		
11	18.5	22	22	22	30	40	1	1	LC2D40A●●● (3)	2.154		
15	22	25	30	30	33	50	1	1	LC2D50A●●● (3)	2.164		
18.5	30	37	37	37	37	65	1	1	LC2D65A••• (3)	2,174		
22	37	37	37	37	37	66	1	1	LC2D80A••• (3)	2.174		

Auxiliary contact blocks and add-on modules

kW

kW

See pages B8/37 to B8/45.

See pages Doror	to Do/45.				
Coil voltage	codes				
AC/DC 24 V DC	supply				
Volts	24 (DC only)	24-60	48-130	100-250	
LC2D09D32, LC2D40A D80A					
U 0.851.1 Uc		BNE	EHE	KUE	
LC2D09D38					
U 0.81.2 Uc	BNE				
LC2D40AD80A					
U 0.81.2 Uc	BBE				

- (1) Please check the availability of your variant in the index page B8/59. The SEARCH function of your viewer can be used.
- (2) **LC2D09** to **D80A**: clip-on mounting on 35 mm □ rail **NSYSDR** or screw fixing.
- (3) BTR screws: hexagon socket head. In accordance with local electrical wiring regulations, a size 4 insulated Allen key must be used (reference LADALLEN4, see page B8/45).
- (4) Electrical interlocking is recommended when 2 orders (direct and reverse) could appeared in the same time.

Schneider Electric kg

TeSys Control

Deca Contactors for switching capacitors banks

Product references



LC1DGK●●, LC1DLK●●, LC1DMK●●



LC1DWK12

Contactors for switching 3-phase capacitor banks (power factor correction)

Special contactors LC1D●K are designed for switching 3-phase, single or multiple-step capacitor banks (up to 6 steps). Over 6 steps, it is recommanded to use chokes in order to limit the inrush current and thus improve the lifetime of the installation. The contactors are conform to standards IEC 60070 and 60831, UL and CSA.

Contactor applications

Specification

Contactors fitted with a block of early make poles and damping resistors, limiting the value of the current on closing to 60 In max.

This current limitation increases the life of all the components of the installation, in particular that of the fuses and capacitors.

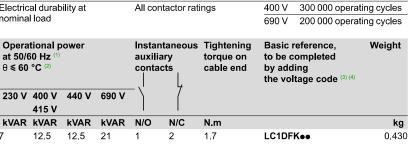
Operating conditions

Short-circuit protection must be provided by gl type fuses rated at 1.7...2 In. It will ensure the service continuity of the whole installation in case of a capacitor contactor end of life.

Maximum operational power

The power values given in the selection table below are for the following operating conditions:

Prospective peak current at switch-on	LC1D ● K		200 In
Maximum operating rate	LC1DFK, DGK, DLK, DMK		240 operating cycles/hour
	LC1DPK, DTK, DWK		100 operating cycles/hour
Electrical durability at	All contactor ratings	400 V	300 000 operating cycles
nominal load		600 \/	200 000 operating cycles



					L,		the voltage code	
230 V	400 V	440 V	690 V	_ \	(
	415 V							
kVAR	kVAR	kVAR	kVAR	N/O	N/C	N.m		kg
7	12.5	12.5	21	1	2	1.7	LC1DFK●●	0.430
9.5	16.7	16.7	28.5	1	2	2.5	LC1DGK●●	0.450
11	20	21	33	1	2	2.5	LC1DLK.	0.600
14	25	27	42	1	2	2.5	LC1DMK●●	0.630
17	30	32	50	1	2	5	LC1DPK●●	1.300
22	40	43	67	1	2	5	LC1DTK••	1.300
35	63	67	104	1	2	12	LC1DWK12●●	1.650

Switching of multiple-step capacitor banks (with equal or different power ratings)

The correct contactor for each step is selected from the above table, according to the power rating of the step to be switched.

Example: 50 kVAR 3-step capacitor bank. Temperature: 50 °C and U = 400 V or 440 V. One 25 kVAR step: contactor LC1DMK, one 15 kVAR step: contactor LC1DGK, and one 10 kVAR step: contactor LC1DFK.

- (1) Operational power of the contactor according to the scheme on the page opposite.
- (2) The average temperature over a 24-hour period, in accordance with standards IEC 60070 and 60831 is 45 °C
- (3) Standard control circuit voltages (the delivery time is variable, please consult your Regional Sales

Volts	24	48	110	120	220	230	240	380	400	415	440	
50/60 Hz	B7	E7	F7	G7 (5)	M7	P7	U7	Ω7	V7	N7	R7	

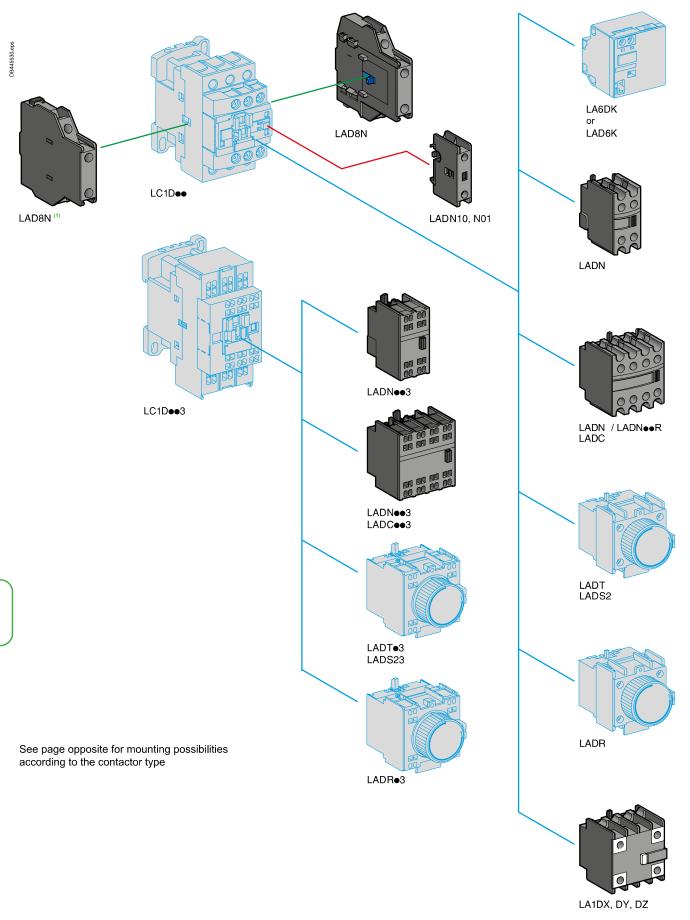
- (4) Please check the availability of your variant in the index page B8/58. The SEARCH function of your viewer can be used.
- (5) For PK/TK, G7 can only be used at 60 Hz.











(1) No left side mounting on Deca Advanced contactors.

TeSys Control

Deca Contactors - Auxiliary contact blocks

Product references



LADN22



LAD8N11



LADN22R



LA1DX●●, LA1DZ●●

Instantaneous auxiliary contact blocks for connection by screw clamp terminals

	Number of	Composition					Reference	Reference		
Clip-on mounting	contacts per block	4	\$	+	 	<u></u>				
Front	1		_	_	1	_	LADN10			
		_	_	_	_	1	LADN01			
	2				1	1	LADN11			
			_	_	2	-	LADN20			
		_	_	_	_	2	LADN02			
	4	_	_	-	2	2	LADN22	LADN22S (1)		
			_		1	3	LADN13			
					4	_	LADN40			
		_			_	4	LADN04			
					3	1	LADN31			
	4 incl. 1 N/O & 1 N/C make before break	-	_	_	2	2	LADC22			
Side	2	_	_	_	1	1	LAD8N11			
(contact blocks compatible with	า		_	_	2	_	LAD8N20			
AC coil and AC/DC Deca Advanced contactors)		-	-	-	-	2	LAD8N02			
For use in harsh industr	rial environment (6)									
Front	2	_	_	_	1	1	LADN11R			
		_	_	_	2	_	LADN20R			
	4	_	_	_	2	2	LADN22R			
		_		_	4	_	LADN40R			
		_			3	1	LADN31R			
For terminal referencing	conforming to EN 50012				ŭ	•				
Front on 3P contactors and	2				1	1	LADN11G			
4P contactors 20 to 80 A	4	_			2	2	LADN11G			
11 0011(00101020100071	2	_	=	_	1	1	LADN11P			
Front on 4P contactors					2	2	LADN11P			
Front on 4P contactors 125 to 200 A		_	_							
125 to 200 A	4	– ndu	- etri	al or		onmor	1			
125 to 200 A With dust and damp pro	4 stected contacts, for use in harsh in				vir					
125 to 200 A With dust and damp pro	4	_	2	_	vir	-	LA1DX20			
125 to 200 A With dust and damp pro	4 stected contacts, for use in harsh in	1	2	_	vir		LA1DX20 LA1DX11			
125 to 200 A With dust and damp pro	4 stected contacts, for use in harsh in	1 2	2 1 -	-	- - - -	- - -	LA1DX20 LA1DX11 LA1DX02			
125 to 200 A	4 stected contacts, for use in harsh in	1	2	_	vir		LA1DX20 LA1DX11			

Instantaneous auxiliary contact blocks for connection by lugs

This type of connection is not possible for blocks with 1 contact or blocks with dust and damp protected contacts. For all other instantaneous auxiliary contact blocks, add the figure 6 to the end of the references selected above. Example: LADN11 becomes LADN116.

Instantaneous auxiliary contact blocks for connection by spring terminals

This type of connection is not possible for LAD8, LADN with 1 contact or blocks with dust and damp protected contacts. For all other contact blocks, add the figure 3 to the end of the references selected above. Example: LADN11 becomes LADN113.

Maximum number of auxiliary contacts that can be fitted:

Contac	ctors	Instantaneous auxiliary	conta	acts				Time delay
Type	Number of poles and size	Side mounted		Front mo				
				1 contact		2 contacts	4 contacts	1 block
AC	3P LC1D09D38	1 on LH or 1 on RH side(3)	and	_		1	or 1	or 1
AC/DC	LC1D40AD80A	1 on LH or 1 on RH side	and	_		1	or 1	or 1
	LC1D80 and D95 (50/60 Hz)	1 on each side	or	2	and	1	or 1	or 1
	LC1D80 and D95 (50 or 60 Hz)	1 on each side	and	2	and	1	or 1	or 1
	LC1D115 and D150	1 on LH side	and	_		1	or 1	or 1
	4P LC1DT20DT40	1 on LH side	and	_		1	or 1	or 1
	LC1DT60A and DT80A	1 on LH or 1 on RH side	and	_		1	or 1	or 1
	LC1D40008, D65008 and D80	1 on each side	or	1	or	1	or 1	or 1
	LC1D115	1 on each side	and	1	or	1	or 1	or 1
DC	3P LC1D09D38	_		-		1	or 1	or 1
	LC1D40AD80A	_		-		1	or 1	or 1
	LC1D80 and D95	_		1	or	1	or 1	or 1
	LC1D115 and D150	1 on LH side	and	_		1	or 1	or 1
	4P LC1DT20DT40	_		_		1	or 1	or 1
	LC1DT60A and DT80A	_		-		1	or 1	or 1
	LC1D40008, D65008 and D80	=		2	and	1	or 1	or 1
	LC1D115	1 on each side		-	and	1	or 1	or 1
LC (4) (5)	³⁾ 3P LC1D09D38	-		-		1	_	_
	4P LC1DT20DT40	_		_		1	_	_

- (1) With red front face for safety chain indication.
- (2) Device fitted with 4 earth screen continuity terminals.
- (4) LC: low consumption.
- (5) LA1D••• dust & damp proof auxiliary contact blocks not allowed.
- (3) 1 on LH side for AC coils 1 on RH side for AC/DC coils. (6) Available only with screw clamp terminals and can be used on contactors with standard power consumption.

 Characteristics:
 Curves:
 Dimensions:
 Schemes:

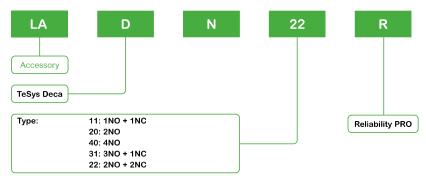
 pages B8/92 and B8/93
 page B8/94
 pages B8/99 and B8/100
 pages B8/106 and B8/107



TeSys Deca auxiliary contact blocks for use in harsh industrial environment

Product references: coding principle





Note: There are differences in NO/NC position between LADN•R and LADN•. Please refer to page B8/106 for wiring diagram details. This auxiliary module only supports the installation on contactors with standard power consumption.

Product core values

Dustproof, Ultra-fine grain silver contacts, Improved Reliability, 17 V/1 mA

New upgrade, with innovative design











20% stability increased on contacts Ensure contact reliability between mobile and static contacts







Fully sealed design benefits on reduced dust access Comprehensive blocking of dust and external pollution

5X granularity refinement on silver alloy Innovative binary alloy refinement process ensures precise conduction for each operation

10⁻⁸ level on reliability Capacity 17 V/1 mA



Target industries and applications

- For elevator, textile machinery and other harsh industrial applications
- For low voltage and low current high sensitive applications

Product variants:











Guideline for product upgrading

Existing products						
LADN•• Standard applications 17 V/5 mA						
Product type	Product description					
LADN11	Auxiliary module 1NO+1NC, screw terminals					
LADN20	Auxiliary module 2NO, screw terminals					
LADN22	Auxiliary module 2NO + 2NC, screw terminals					
LADN31	Auxiliary module 3NO + 1NC, screw terminals					
LADN40	Auxiliary module 4NO, screw terminals					

LADN20R

		New products									
		LADN••R for harsh environment 17 V/1 mA									
		Product type	Product description								
		LADN11R	Auxiliary module 1NO +1NC, screw terminals								
		LADN20R	Auxiliary module 2NO, screw terminals								
		LADN22R	Auxiliary module 2NO + 2NC, screw terminals								
	LADN31R	Auxiliary module 3NO + 1NC, screw terminals									
		LADN40R	Auxiliary module 4NO, screw terminals								

Characteristics: Dimensions Schemes pages B8/84 to B8/91 pages B8/103 to B8/104 pages B8/110 and B8/111