

TeSys Control SK, SKE Mini control relays Product references



CA2SK11.

Mini control relays

- Width of mini control relays 27 mm.
- Mounting on 35 mm rail.
- Connection by connectors.

Control circuit supply	Auxiliary cont	acts L	Basic reference, to be completed by adding the voltage code ⁽¹⁾
a.c. supply	2	_	CA2SK20
	1	1	CA2SK11
d.c. supply	2	_	CA3SK20
	1	1	CA3SK11ee

Mini control relay with alternating contacts

This mini control relay with alternating contacts (see function diagram page B7/17) makes it possible to automatically split the operating time between 2 circuits of a redundant system.

By regularly energising the "safety circuits", this device makes it possible to ensure that they are operating correctly.

- Width of mini control relay 45 mm.
- Fixing by Ø4 screws.
- Connection by connectors.
- Cannot be fitted with front-mounted auxiliary contact block.
- Cannot be fitted with coil suppressor module.

Control circuit supply	Mart and the second	Auxiliary co	ontacts L	Basic reference, to be completed by adding the voltage code ⁽¹⁾
a.c. supply		2	-	CA2SKE20

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

Mini control relays CA2SK a	and CA2S	(E							
Volts \sim 50/60 Hz	24	48	110	120	220	230	240	380	400
Code	B7	E7	F7	G7	M7	P7	U7	Q7	V7
Mini control relays CA3SK									
Volts	12	24	36	48	72				
Code	JD	BD	CD	ED	SD				





Characteristics:	Dimensions:	Schemes:	
pages B7/14 and B7/15	page B7/16	page B7/17	
B7/2 Life Is	On Schneider		

TeSys Control SK, SKE Mini control relays - Contact block - Suppressor Product references



LA1SK••



LA4SK•1•

Instantaneous auxil	iary contact blocks			
Clip-on front mounting				
For use on control relays	Maximum number of blocks per contactor	Composition	7	Reference
CA2SK20	1	2	_	LA1SK20
		_	2	LA1SK02
		1	1	LA1SK11

Suppressor modu	ıles				
Connection without ne	eed for tools by cl	ipping onto right-hand side	of contact	or	
For use on control relays	Туре	For voltages	Sold in lots of	Unit reference	
CA2SK and CA3SK	Varistor	\sim and 24 V…48 V	10	LA4SKE1E	
		\sim and $=$ 110 V…250 V	10	LA4SKE1U	
	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.



Characteristics:	Dimensions:	Schemes:	
page B7/15	page B7/16	page B7/17	



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



CA2KN22.





CA3KN••3••

Control relays for a.c. control circuit

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

Control circuit Consumption	Auxiliary contacts	Basic reference, to be completed by adding the voltage code ⁽¹⁾
Screw clamp connections		
4.5 VA	4 –	CA2KN40●●
	3 1	CA2KN31ee
	2 2	CA2KN22••
Spring terminal connections		
4.5 VA	4 –	CA2KN403••
	3 1	CA2KN313
	2 2	CA2KN223••
Faston connectors, 1 x 6.35 or 2 x 2.8		
4.5 VA	4 –	CA2KN407.
	3 1	CA2KN317••
	2 2	CA2KN227.
Solder pins for printed circuit boards		
4.5 VA	4 –	CA2KN405.
	3 1	CA2KN315
	2 2	CA2KN225
Control relays for d.c. control circu	iit	

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

Screw clamp con	nections				
3 W		4	_	CA3KN40	
		3	1	CA3KN31	
		2	2	CA3KN22.	
Spring terminal co	onnections				
3 W		4	—	CA3KN403.	
		3	1	CA3KN313.	
		2	2	CA3KN223.	
Solder pins for pr	inted circuit boards				
3 W		4	_	CA3KN405ee	
		3	1	CA3KN315ee	
		2	2	CA3KN225ee	

(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): Control relays CA2K (0.8...1.15 Uc) (0.85...1.1 Uc)

Volts \sim	12	20	24 ⁽²⁾	36	42	48	110	115	127	220/	230	230/	380/	400	400/	440	500	660/
50/60 Hz										230		240	400		415			690
Code	J7	Z7	B7	C7	D7	E7	F7	FE7	FC7	M7	P7	U7	Q7	V7	N7	R7	S7	Y7
Up to and i		0			· · ·	Isupp	ressio	n devi	ce ava	ilable:	add 2 t	o the co	ode req	uired.	Examp	e: J72		
Control re	ays (CA3K	(0.81	.15 Uc	;)													
Control re Volts 		20 CA3K	(0.81 24 ⁽²⁾	.15 Uc 36	:) 48	60	72	100	110	125	200	220	230	240	250			

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

(2) When connecting an electronic sensor or timer in series with the coil of the control relay, select a 20 V coil (\sim code Z7, ---- code ZD) so as to compensate for the incurred voltage drop.

Characteristics:	Dimensions:	Schemes:	
pages B7/18 and B7/19	page B7/20	page B7/21	
B7/4 Life Is C	n Schneider Electric		

CA4KN40 •••

Control circuit Consumption	Auxiliary contacts 		Basic reference, to be completed by adding the voltage code ⁽¹⁾
Screw clamp connections			
1.8 W	4	_	CA4KN40●●
	3	1	CA4KN31.
	2	2	CA4KN22ee
Spring terminal connections			
1.8 W	4	_	CA4KN403.
	3	1	CA4KN313.
	2	2	CA4KN223ee
Faston connectors, 1 x 6.35 or 2 x 2.8			
1.8 W	4	_	CA4KN407.
	3	1	CA4KN317.
	2	2	CA4KN227
Solder pins for printed circuit boards	6		
1.8 W	4	_	CA4KN405●●
	3	9	CA4KN31500
	2	2	CA4KN22500
	A St.	£	

(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): Control relays CA4K (Wide range coil: 0.7...1.3 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.

Low consumption control relays d.c. control circuit

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

Characteristics:	Dimensions:	Schemes:	
pages B7/18 and B7/19	page B7/20	page B7/21	



TeSys Control K Contact blocks - Time delays Product references



LA1KN22



LA1KN••3



LA1KN••7



Control relays



Clip-on front mounting, 1 per control	olrelav			
Connection	Unelay	Corre	acition	Deference
Connection		Comp	osition	Reference
			ł	
Screw clamp terminals		2	_	LA1KN20
		_	2	LA1KN02
		1	1	LA1KN11
		4	_	LA1KN40 ⁽¹⁾
		3	1	LA1KN31 ⁽¹⁾
		2	2	LA1KN22 ⁽¹⁾
		1	3	LA1KN13 ⁽¹⁾
		_	4	LA1KN04 ⁽¹⁾
Spring terminals		2	_	LA1KN203
		_	2	LA1KN023
		1	1	LA1KN113
		4	_	LA1KN403 ⁽¹⁾
		3	1	LA1KN313 ⁽¹⁾
		2	2	LA1KN223 ⁽¹⁾
		1	3	LA1KN133 ⁽¹⁾
		_	4	LA1KN043 ⁽¹⁾
aston connectors		2	_	LA1KN207
l x 6.35 or 2 x 2.8		4	_	LA1KN407 ⁽¹⁾
	C ALL S	3	1	LA1KN317 ⁽¹⁾

Electronic time delay contact blocks

- Relay output with common point changeover contact, \sim or = 240 V, 2 A maximum
- Control voltage 0.85...1.1 Uc
- 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

Clip-on front mounting, 1 per control relay

onp-on none mount	ing, i per control le	ay					
Voltage	Туре	Timing range	Composition	Reference			
V		S					
\sim or $= 2448$	On-delay	130	1	LA2KT2E			
~ 110240	On-delay	130	1	LA2KT2U			
Other versions	ions Electronic timers type RE4. Please consult your Regional Sales Office.						

Characteristics:		Dimensions:	Schemes:
page B7/19		page B7/20	page B7/21
B7/6	Life Is On	Schneider	
		Schneider Blectric	

Suppressor mo	odules incorporating L	ED indicator		
Mounting and connection	Туре	For voltages	Sold in lots of	Unit reference
Clips onto front of relay with locating device. No tools required.	Varistor ⁽¹⁾	\sim and 1224 V	5	LA4KE1B
		\sim and $$ 3248 V	5	LA4KE1E
		\sim and 50129 V	5	LA4KE1FC
		\sim and $=$ 130250 V	5	LA4KE1UG
	Diode + Zener diode ⁽²⁾	 1224 V	5	LA4KC1B
		3248 V	5	LA4KC1E
	RC ⁽³⁾	∼ 110250 V	5	LA4KA1U
Mounting acce	ssories	~		
Description	Application		Sold in lots of	Unit reference
Mounting plates	On 2 ∟ rails	110/120 mm	10	DX1AP25



AB1R9

PB123798.ep

DB439372.

LA4KC1B

Description Mounting plates	Application On 2 ∟ rails		Sold in lots of	Unit reference
Mounting plates	On 2 ∟ rails	440/400		
		110/120 mm fixing centres	10	DX1AP25
Marking accessorie	es 🔰			
Description	Application		Sold in lots of	Unit reference
Marker holder	Clip-on fixing on front face	_	100	LA9D90
Clip-in markers	4 maximum per relay	Strips of 10 identical numbers 0 to 9	25	AB1R ● ⁽⁴⁾
		Strips of 10 identical capital letters A to Z	25	AB1G • ⁽⁴⁾

- 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 frequency.
- Slight increase in drop-out time (1.2 to 2 times the normal time).(4) Complete the reference by replacing the dot with the required character.

Dimensions:	Schemes:		
page B7/20	page B7/21		
			B7/7
		Life Is On Schneider	DITT



Control relays



See page opposite for mounting possibilities according to control relay type and rating



TeSys Control **Deca Control relays** Product references





CAD50.



CAD503••



LADN22



LA1DY20

Control relays for connection by screw clamp terminals							
Туре	Number of contacts	Composition	Basic reference, to be completed by adding the control voltage code ⁽¹⁾				
Instantaneous	5	5 –					
		3 2					

Control relays for connection by spring terminals						
Instantaneous	5	5	_	CAD503●●		
		3	2	CAD323.		

Instantaneous auxiliary contact blocks for connection by screw clamp terminals

Number of	Maximum	number per relay	Com	position	Reference	
contacts	Clip-on m	ounting		1		
	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	1 -	2	LAD8N02 ⁽⁶⁾	
(4)	1		2	2	LADN22	LADN22S (7)
			1	3	LADN13	
			4	_	LADN40	
			- 4°-	4	LADN04	
			3	1	LADN31	
(4)	1		2	2	LADC22	

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

interacting interaction		0 001010	o brount.			
With dust a	nd damp prot	ected	contacts,	for use in pa	rticularly	harsh industrial environments
Number of contacts	Maximum number per relay Front mounting	-5	position		Ļ	Reference
		prote	ected ⁽⁵⁾	not p	protected	
2	1	2 -		—	_	LA1DX20
		- 2	2 –	—	—	LA1DX02
		2 -	- 2	—	—	LA1DY20 ⁽⁸⁾
4 (4)	1	2 -		2	—	LA1DZ40
		2 -		1	1	LA1DZ31

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 \sim	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 w	ith integ	gral supp	ression d	evice fitte	d as stan	dard)						
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	(coils w	vith integr	al suppre	ession dev	vice fitted	as stand	ard)					
Volts	5	12	20	24	48	110	220	250				
Code	AL	JL	ZL	BL	EL	FL	ML	UL				
(2) LC: low consump		•••							6			
(3) To order control re					ine aigit b	to the en	d of the s	selected r	eterence.			
Example: CAD50		- $ -$	DEOC									

(5) Product fitted with 4 earth screen continuity terminals.(6) 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



Control relays

TeSys Control **Deca Accessories** Product references



LADT2

PB123772.ep;



LAD6K10M











Time delay auxiliary contact blocks for connection by screw clamp terminals ⁽¹⁾

Number and type of	Maximum number per relay	Time delay		Reference
contacts	Front mounting	Туре	Range	-
1 N/C and 1 N/O	1	On-delay	0.33 s ⁽²⁾	LADT0
			130 s	LADT2
			10180 s	LADT4
			130 s ⁽³⁾	LADS2
		Off-delay	0.33 s ⁽²⁾	LADR0
			130 s	LADR2
(Sealing cover: see	e page B8/42)		10180 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.

Unlatching control	Maximum number per relay Front mounting	Basic reference to be completed (5)
Manual or electr	ric 1	LAD6K10•
Suppresso	or modules	
These modules module is still po		he electrical connection is instantly made. Fitting of an inp
RC circuits (F	Resistor-Capacitor)	
	ection for circuits highly sensitive to "high	
•	ed to 3 Uc maximum and oscillating freque	- 10 N
Ũ	elay on drop-out (1.2 to 2 times the norma	110 10.7
For mounting on	Operational voltage	Reference
CAD \sim	~2448 V	LAD4RCE
	∼ 50…127 V	LAD4RCG
Varistors (pea		LAD4RCU
	ovided by limiting the transient voltage va	alue to 2Uc maximum.
	duction of transient voltage peaks.	
	elay on drop-out (1.1 to 1.5 times the norm	,
CAD \sim	\sim 2448 V \sim 50127 V	LAD4VE LAD4VG
	~ 110250 V	LAD4VG
Freewheel die		
	ge or oscillating frequency.	
	rop-out time (6 to 10 times the normal tim	le).
Polarised con	nponent.	
		LAD4DDL ⁽⁶⁾
 Polarised con CAD Bidirectional 	peak limiting diode ⁽⁷⁾	
 Polarised con CAD Bidirectional Protection pro 	peak limiting diode ⁽⁷⁾ ovided by limiting the transient overvoltage	
 Polarised con CAD Bidirectional Protection pro 	peak limiting diode ⁽⁷⁾	

LAD4DDL

125 V	LAD4TGDL
250 V	LAD4TUDL

LAD4TBDL

LAD4TSDL

(1) These contact blocks cannot be used on low consumption control relays.

(2) With extended scale from 0.1 to 0.6 s.

.... 24 V

.... 72 V

CAD

- (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 \geq 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	Е	EN	K	F	Μ	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	
B7/10 Life Is On	Schneider Electric				

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			
Sealing cover	LADT, LADR	1	LA9D901
Safety cover preventing access to the moving contact carrier	CAD	1	LAD9ET1
Red cover (for safety chain indication)	CAD	1	LAD9ET1S

Spare parts: coils

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</p>

Control circuit voltage Uc	Average resistance at 20 °C ±10 %	Inductance of closed circuit	Reference ⁽¹⁾	
V	Ω	H		
			50/60 Hz	
12	1.33	0.05	LXD1J7	
24	5.37	0.22	LXD1B7	
32	10.1	0.39	LXD1C7	
12	17	0.67	LXD1D7	
18	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		
100	1633	60	LXD1V7	
115	1694	65	LXD1N7	
140	1993	73	LXD1R7	
180	2398	87	LXD1T7 ⁽²⁾	
500	2499	95	LXD1S7	
575	3294	125	LXD1SC7	
500	3810	136	LXD1X7	



-				
6	60	4656	165	LXD1YC7
6	590	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 B8/84 and B8/86).

(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 B8/84 and B8/86).



TeSys Control SK, K, Deca Control relays Product references

CA2KN223B7	CA2SK20E7	CA3SK20BD	CAD32JD
CA2KN223F7	CA2SK20F7	CA3SK20JD	CAD32JL
CA2KN223P7	CA2SK20G7	CA4KN223BW3	CAD32L7
CA2KN223P72	CA2SK20M7	CA4KN225BW3	CAD32M7
CA2KN22B7	CA2SK20P7	CA4KN22BW3	CAD32MD
CA2KN22B72	CA2SK20Q7	CA4KN22EW3	CAD32N7
CA2KN22D7	CA2SK20T7	CA4KN22FW3	CAD32P7
CA2KN22E7	CA2SK20U7	CA4KN22SW3	CAD32Q7
CA2KN22F7	CA2SK20UE7	CA4KN313BW3	CAD32R7
CA2KN22F72	CA2SKE20B7	CA4KN31BW3	CAD32SD
CA2KN22FC7	CA2SKE20G7	CA4KN31FW3	CAD32T7
CA2KN22FE7	CA2SKE20M7	CA4KN31SW3	CAD32U7
CA2KN22G7	CA2SKE20P7	CA4KN403BW3	CAD32UD
CA2KN22G72	CA2SKE20Q7	CA4KN40BW3	CAD32V7
CA2KN22L7	CA2SKE20T7	CA4KN40EW3	CAD32X7
CA2KN22M7	CA2SKE20U7	CA4KN40FW3	CAD32XD
CA2KN22M72	CA3KN223BD	CAD323B7	CAD32Y7
CA2KN22N7	CA3KN223BD3	CAD323BD	CAD503BD
CA2KN22P7	CA3KN225DD5	CAD323BL	CAD503BL
CA2KN22P72	CA3KN22BD3	CAD323E7	CAD503BL CAD503FD
CA2KN22Q7	CA3KN22ED	CAD323E7 CAD323F7	CAD503FD CAD503FE7
	CA3KN22ED3	CAD323FE7	CAD503F27
CA2KN22R7	CA3KN22ED3	CAD323FE7	CAD505P7 CAD506B7
CA2KN22T7			
CA2KN22U7	CA3KN22FD3	CAD323JD	CAD506BD
CA2KN22V7	CA3KN22GD	CAD323P7	CAD506ED
CA2KN313P72	CA3KN22GD3	CAD326B7	CAD506F7
CA2KN315F7	CA3KN22JD	CAD326BD	CAD506FD
CA2KN31B7	CA3KN22MD	CAD326BL	CAD506KD
CA2KN31D7	CA3KN22MD3	CAD326CD	CAD506M7
CA2KN31E7	CA3KN22ND	CAD326E7	CAD506MD
CA2KN31F7	CA3KN22SD	CAD326F7	CAD506P7
CA2KN31G7	CA3KN313BD	CAD326FD	CAD506R7
CA2KN31K7	CA3KN313BD3	CAD326G7	CAD50B7
CA2KN31M7	CA3KN315BD	CAD326GD	CAD50BD
CA2KN31M72	CA3KN317SD	CAD326K7	CAD50BL
CA2KN31P7	CA3KN31BD	CAD326KD	CAD50D7
CA2KN31P72	CA3KN31BD3	CAD326L7	CAD50E7
CA2KN31U7	CA3KN31ED	CAD326M7	CAD50ED
CA2KN31V7	CA3KN31ED3	CAD326MD	CAD50F7
CA2KN40B7	CA3KN31FD	CAD326P7	CAD50FD
CA2KN40B72	CA3KN31FD3	CAD326Q7	CAD50FE7
CA2KN40E7	CA3KN31GD	CAD326R7	CAD50G7
CA2KN40F7	CA3KN31GD3	CAD326SD	CAD50GD
CA2KN40FC72	CA3KN31JD	CAD326SL	CAD50K7
CA2KN40G7	CA3KN31MD	CAD326U7	CAD50L7
CA2KN40M7	CA3KN31MD3	CAD326V7	CAD50M7
CA2KN40N7	CA3KN31ND3	CAD326VD	CAD50MD
CA2KN40P7	CA3KN31UD	CAD32B7	CAD50N7
CA2KN40T7	CA3KN403BD	CAD32BD	CAD50P7
CA2KN40U7	CA3KN403BD3	CAD32BL	CAD50Q7
CA2SK11B7	CA3KN40BD	CAD32CD	CAD50R7
CA2SK11E7	CA3KN40BD3	CAD32D7	CAD50SD
CA2SK11F7	CA3KN40ED	CAD32E7	CAD50U7
CA2SK11G7	CA3KN40ED3	CAD32ED	CAD50UD
CA2SK11M7	CA3KN40EPD	CAD32EL	CAD50Y7
CA2SK11P7	CA3KN40FD	CAD32F7	
CA2SK11T7	CA3KN40FD3	CAD32FC7	
CA2SK11U7	CA3KN40GD	CAD32FD	
CA2SK11UE7	CA3KN40GD3	CAD32FE7	

Control relays

CA2SK11V7	CA3KN40MD	CAD32FL
CA2SK20B7	CA3KN40MD3	CAD32G7
CA2SK20D7	CA3SK11BD	CAD32GD

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



Technical Data for Designers

Contents TeSys SK Mini control relays:

Т

D

> characteristics B7/14 and B7/15

Control relays

S	
S	

>	dimensions	B7/16
>	schemes	B7/17
eSys K	Control relays:	
>	characteristics	B7/18 and B7/19
>	dimensions	B7/20
>	schemes	B7/21
Deca Cor	ntrol relays:	
>	characteristics	B7/22 to B7/24
>	curves	B7/25
>	dimensions	B7/26
>	schemes	B7/27



TeSys Control SK, SKE Mini control relays 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 certification					
Degree of protection	Conforming to IEC 60529		Protection against direct	finger contact IP2	2X			
Ambient air temperature	Storage	°C	-50+70					
around the device	Operation	°C	-20+50					
Maximum operating altitude	Without derating	m	2000					
Operating position		Vertica	al axis	Horizontal a	axis			
			2°,5 2°,5 2°,5 tt derating	Without dera				
Connection by connectors			Min.		Max.			
connection by connectors	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 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			
Tightening torque	Pozidriv n° 1 head	N.m	0.8					
Terminal referencing	Conforming to standards EN 50005 and EN 50011		Up to 4 contacts	The A				
Control circuit char	acteristics			1				
Control relay			CA2SK	CA2SKE	CA3SK			
Rated control circuit voltage (U	c)	V	\sim 24400		1272			
Control voltage limits	For operation		0.851.1 Uc		0.851.1 Uc			
(≤ 50 °C)	For drop-out	(Λ)	≤ 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		W	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		46			
	closing of the N/C contacts	ms	810		68			
Maximum operating rate	In operating cycles per hour		1200		1200			
Mechanical durability at Uc in millions of operating cycles	50/60 Hz coil		10		-			

Ref.

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References: pages B7/2 and B7/3	Dimensions: page B7/16	Schemes: page B7/17	
В7/14 Life Is Фr	Schneider Electric		

TeSys Control SK, SKE Mini control relays Characteristics

Auxiliary contact characteristics of mini control relays and instantaneous contact blocks

Rated operational voltage (Ue)		V	Up to 690
Rated insulation voltage (Ui)	Conforming to IEC 96047	V	690
Conventional rated thermal current (Ith)	For ambient temperature ≤ 55 °C	A	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

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

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.

	V	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



Ref.

References:	Dimensions:	Schemes:	
page B7/3	page B7/16	page B7/17	



TeSys Control SK, SKE Mini control relays Dimensions and mounting



On mounting rail NSYDR200BD or NSYDR200 (ب 35 mm)





27



Dimensions CA2SKE

68



eps



Mounting	
CA2SKE	
On panel	On mounting rail NSYDR200BD or NSYDR200 (35 mm)
2xØM4	



References:	Characteristics:	Schemes:
pages B7/2 and B7/3	pages B7/14 and B7/15	page B7/17
В7/16 Life Is Фл	Schneider Gelectric	

TeSys Control SK, SKE Mini control relays

Schemes

Schemes CA2SK20, CA3SK20 2 N/O	CA2SK11, CA3SK11 1 N/O + 1 N/C $V = \frac{V}{10}$	
CA2SKE 2 N/O	CA2SKE Function diagram	
	$\frac{A1}{13}$ $\frac{A2}{14}$ $\begin{cases} Energised \\ De-energised \\ Open \\ 23 \\ 24 \\ Close \\ Open \\ Open \\ Close \\ Open \\ Close \\ Open \\ Close \\ Open \\ Ope$	
Instantaneous auxiliary contacts 2 N/O	2 N/C	1 N/O + 1 N/C
LA1SK20	LA1SK02	LA1SK11
DF533678.eps 34 33/NO 44 - 43/NO	DF533679.eps	DF533680.eps

Control relays

Ref.

References:	Characteristics:	Dimensions:
bages B7/2 and B7/3	pages B7/14 and B7/15	page B7/16



TeSys Control K Control relays Characteristics

Ref.

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Control relays

Conforming to standards			IEC/EN 60947-5-1 11 6	0947-5-1 CSA C22 2 n° 60	947-5-1 GB/T 14048 5					
Product certifications				IEC/EN 60947-5-1, UL 60947-5-1, CSA C22.2 n° 60947-5-1, GB/T 14048.5 UL, CSA, CCC, EAC, UKCA, CB certification						
				Horizontal axis						
Operating positions			Vertical axis		DF511026.eps					
			Without derating	Without derating	Possible positions for CA only, with derating, please consult your Regional Sal 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	mm ²	1 x 0.75	2 x 4	2 x 2.5					
	Flexible cable with cable end	mm ²	1 x 0.34	1 x 1.5 + 1 x 2.5	1 x 1.5 + 1 x 2.5					
Spring terminals	Solid cable	mm ²	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	1						
Degree of protection	Conforming to IEC 60529		Protection against direct (devices with screw clam	finger contact IP2x ip terminals or pins for print	ed 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	(Λ)	2 gn							
5300 Hz Conforming to IEC/EN 60068-2-27	Control relay closed	IJ.	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	cteristics									
Control relay type			CA2K	САЗК	СА4К					
Rated control circuit voltage (Uc	:)	V	\sim 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	-	_					
In millions of operating cycles	Standard coil		-	20	-					
	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					

neat dissipation		vv	1.3	3	1.0	
Operating time	Between coil energisation and					
at 20 °C and at Uc	opening of the N/C contacts	ms	515	2535	2535	
	closing of the N/O contacts	ms	1020	3040	3040	
	Between coil de-energisation and					
	opening of the N/O contacts	ms	1020	10	1020	
	closing of the N/C contacts	ms	1525	15	1525	
Maximum immunity to micr	obreaks	ms	2	2	2	

References:	Dimensions:	Schemes:	
pages B7/4 to B7/7	page B7/20	page B7/21	
B7/18 Life Is 0	Dn Schneider		
Elic 13 V	Dn Schneider		

TeSys Control K Control relays & contact blocks Characteristics

Number of auxiliary contacts	On CA•K		4												
-	On LA1K		2 or 4	for CA	2K and	d CA3K	, 2 for (CA4K							
Rated operational voltage (Ue)	Up to	V	690												
Rated insulation voltage (Ui)	Conforming to IEC 60947	V	690												
	Conforming to UL 60947-5-1, CSA C22.2 n° 60947-5-1	V	600												
Conventional thermal current (Ith)	For ambient temperature ≤ 50 °C	А	10												
Frequency of the operational cur	rrent	Hz	Up t	o 400											
Minimum switching capacity	Umin	V	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														
	<u>1 s</u>	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 sch	emes p	age B7	7/21)								
Operational power of con	tacts conforming to IEC 6094	47	1.1												
• •	5		upply, c	ategor	AC-1	5			d.c	. supp	oly, ca	tegory	DC-1	3	
			ical dur		_	11 12	to 360	0				bility (o to
			ting cyc		•	1.1.1.						g cycle			
		•	as the c									such		,	
		making current ($\cos \varphi 0.7$) = 10 times the electromagnet, without economy resistor, the time constant increasing the time constant i							nv						
									-						
				and the second					with	the lo	oad.				
		V 2	4 48	110/ 127	220/ 230	380/ 400	440	600/ 690	V	24	48	110	220	440	600
1 million operating cycles		VA 4	8 96	240	440	800	880	1200	w	120	80	60	52	51	50
3 million operating cycles		VA 1		86	158	288	317	500	W	55	38	30	28	26	25
10 million operating cycles		VA 7		36	66	120	132	200	W	15	11	9	8	7	6
Occasional making capacity		VA 1	000 205			14000			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.







Control relays

Ref.

4 Thermal limit

References:	Dimensions:	Schemes:	
page B7/6	page B7/20	page B7/21	



TeSys Control K Control relays Dimensions and mounting





6

22



References:	Characteristics:	Schemes:
pages B7/4 to B7/7	pages B7/18 and B7/19	page B7/21
B7/20 Life Is On	Schneider Belectric	

TeSys Control K Control relays Schemes



Instantaneous	auxiliary contact b	locks LA1K			
For CA2K, CA3K, C	A4K		For CA2K, CA3K		
2 N/O	2 N/C	1 N/O + 1 N/C	4 N/O	3 N/O + 1 N/C	2 N/O + 2 N/C
LA1KN20, LA1 KN207	LA1KN02, LA1 KN027	LA1KN11, LA1 KN117	LA1KN40, LA1 KN407	LA1KN31, LA1 KN317	LA1KN22
DF533651.eps	DF53362.eps 52 51/NC 62 61/NC	54 53/NO 62 61/NC	DF533654.eps 54 53/NO 64 63/NO 74 73/NO 84 83/NO	DD425739.eps 54 53/NO 62 61/NC 74 73/NO 84 83/NO	DD425740.eps 54 53/NO 62 61/NC 72 71/NC 84 83/NO
			1 N/O + 3 N/C	4 N/C	
			LA1KN13	LA1KN04	
			DD425741.eps 54 53/NO 62 61/NC 72 71/NC 82 81/NC	DF533658.eps 52 51/NC 62 61/NC 72 71/NC 82 81/NC	

		C. M.	
Electronic time delay contact block	s LA2KT	Suppressor	modules
For CA2K, CA3K, CA4K		LA4KC	LA4KE
1 C/O	es	N.	sd
	DF533660.e		

References:	Characteristics:	Dimensions:
bages B7/4 to B7/7	pages B7/18 and B7/19	page B7/20



Ref.

Control relays

TeSys Control Deca Control relays Characteristics

Ref.

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Control relays

Control relay type			CAD \sim	CAD	CAD
<i>J J I</i>					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 /oltage (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	947-5-1, CSA C22.2 n° 60947-	5-1, GB/T 14048.5
Product certifications			UL, CSA, CCC, EAC, UKC	A, CB certification, EU-RO-M	R by DNV-GL
Degree of protection	Conforming to IEC 60529		Front face protected again	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
	Positions that are not allowed	າ	DF510765.eps	DE510766.eps	α
	\langle				
Shock resistance ⁽²⁾ nalf sine wave for 11ms	Control relay open		10 gn	10 gn	10 gn
	Control relay closed	1	15 gn	15 gn	15 gn
/ibration resistance ⁽²⁾ 5300 Hz	Control relay open		2 gn	2 gn	2 gn
	-		2 gn 4 gn	2 gn 4 gn	
	Control relay open Control relay closed Flexible 1 conductor conductor	mm ²			2 gn
5300 Hz	Control relay open Control relay closed Flexible 1 conductor	mm ²	4 gn	4 gn	2 gn 4 gn
5300 Hz	Control relay open Control relay closed Flexible 1 conductor conductor without cable 2 conductors		4 gn 14	4 gn 14	2 gn 4 gn 14
5300 Hz	Control relay openControl relay closedFlexible conductor without cable end1 conductor 2 conductorsFlexible1 conductor	mm ²	4 gn 14 14	4 gn 14 14	2 gn 4 gn 14 14
5300 Hz	Control relay open Control relay closed Flexible conductor without cable end Flexible conductors Plexible end 1 conductors Plexible end 1 conductor 1 conductor 2 conductors Plexible end 1 conductor	mm ²	4 gn 14 14 14	4 gn 14 14 14	2 gn 4 gn 14 14 14
5300 Hz	Control relay openControl relay closedFlexible conductor without cable end1 conductor 2 conductorsFlexible conductor with cable end1 conductorFlexible conductor with cable end2 conductorsSolid conductor1 conductor	mm ² mm ²	4 gn 14 14 14 14 12.5	4 gn 14 14 14 14 14 12.5	2 gn 4 gn 14 14 14 14 12.5
5300 Hz	Control relay openControl relay closedFlexible conductor without cable end1 conductor 2 conductorsFlexible conductor with cable end1 conductor 2 conductorFlexible conductor with cable end1 conductor 2 conductorSolid conductor without cable1 conductor	mm ² mm ² mm ²	4 gn 14 14 14 14 12.5 14	4 gn 14 14 14 12.5 14	2 gn 4 gn 14 14 14 14 12.5 14

(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:	Curves:	Dimensions:	Schemes:	
pages B7/9 to B7/11	page B7/25	page B7/26	page B7/27	
B7/22 Life Is Or	Schneider			

TeSys Control Deca Control relays Characteristics

Control relay type			CAD \sim	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	\sim 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 In millions of operating cycles	With coil 50/60 Hz (at 50 Hz)		30	-	-	
	With standard coil wide range	25		30	30	
Time constant L/R	()	ms	- 10 m.	28	40	

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Curves:	Dimensions:	Schemes:			
page B7/25	page B7/26	page B7/27			
			Life Is On	Schneider	B7/23
				page B7/25 page B7/26 page B7/27	

TeSys Control Deca Control relays Characteristics

Number of contacts				5
Rated operational voltage (Ue)	Up to		V	690
Rated insulation voltage	Conforming to IEC	60947-5-1	v	690
(Ui)	Conforming to UL, (V	600
Conventional thermal current (Ith)	For ambient temper	rature ≤ 60 °C	Α	10
Frequency of the operational current			Hz	25400
Minimum switching capacity	U min		V	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	l rms		\sim 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 betwee N/C and N/O contact		ms	1.5 (on energisation and on de-energisation)
Tightening torque	Philips head n° 2 ar	nd Ø6	N.m	1.7
Non-overlap distance				Linked contacts in association with auxiliary contacts LADN
Mechanically linked contacts	Conforming to IEC			The 3 N/O contacts and the 2 N/C contacts of CAD N32 are linked mechanically by one mobile contact carrier.
		4	0	

Control relays

References:	Curves:	Dimensions:	Schemes:	
pages B7/9 to B7/11	page B7/25	page B7/26	page B7/27	
B7/24 Life	els On Schneider			

TeSys Control Deca Control relays

Curves

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 ($\cos \varphi 0.7$) = 10 times the power broken ($\cos \varphi 0.4$).

	V	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



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

Ref.



References:	Characteristics:	Dimensions:	Schemes:			
pages B7/9 to B7/11	pages B7/22 to B7/24	page B7/26	page B7/27			
				Life Is On	Schneider Gelectric	B7/25

TeSys Control Deca Control relays Dimensions and mounting

Dimensions ${\rm CAD}\,{\sim}$



CAD ---- or LC (low consumption)





С	AD	32 50	323 503	
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	
c3	with LADT, R, S	137	137	
	with LADT, R, S and sealing cover	141	141	

Operating cycles	V	24	48	125	250	440
1 million	W	120	90	75	68	61
3 million	W	70	50	38	33	28
10 million	W	25	18	14	12	10

 ${\rm CAD}\,{\sim}$

86

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

Panel mounted

П

С

c with cover

CAD



Ref.





Mounted on rail NSYDR200BD or NSYDR200





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

(1) 2 elongated holes 4.5 x 9.

(2) With cover.

95

CAD ---- or LC



		CAD \sim	CAD or LC
С	with cover	86	95

References:	Illustration:	Characteristics:	Curves:	Schemes:	
pages B7/9 to B7/11	page B7/8	pages B7/22 to B7/24	page B7/25	page B7/27	
B7/26 Lif	fe Is On Schneider				

TeSys Control Deca Control relays Schemes

Instantaneous auxiliary contacts 5 N/O 3 N/O + 2 N/C CAD50 CAD32 A2 A1 14 13/NO 23/NO 44 43/NO 21/NC 31/NC 43/NO , 33/NO 04 03/NO DD425742.eps A2 🗌 A1 1 7 34 24 64 33 32

Instantaneous aux	ciliary contact blocks				
1 N/O + 1 N/C		2 N/O		2 N/C	
LADN11	LAD8N11 ⁽¹⁾	LADN20	LAD8N20 ⁽¹⁾	LAD8N02	LADN02
62 63/NO	Db425744.eps 154 153/NO (183) (184) 162 161/NC (171) (172)	DD425745.eps 54 53/NO 64 63/NO	DD425746.eps 154 153/NO (183) (184) 164 163/NO 163 (174)	252 251/NC (271) (272) 262 261/NC (281) (282)	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
DD425748.eps 54 53/NO 62 61/NC 72 71/NC 84 83/NO	DB433309.eps 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	DD425751.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

Ref.

 \mathbb{N}

Control relays

2 N/O + 2 N/C including	With dust and dam	p protected contacts			
1 N/O + 1 N/C make before break	2 N/O protected	2 N/C protected	2 N/O protected ⁽²⁾ with 2 cable screen terminals	2 N/O protected + 2 N/O non protected	2 N/O protected + 1 N/O + 1 N/C non protected
LADC22	LA1DX20	LA1DX02	LA1DY20	LA1DZ40	LA1DZ31
127336.eps 54 53/NO 62 61/NC 76 75/NC 88 87/NO	810727.eps 54 53/NO 64 63/NO	810734.eps 52 51/NC 62 - 1 61/NC	810726.eps 54 53/NO 64 63/NO	54 53/NO 64 63/NO 74 73/NO 84 83/NO	54 53/NO 62 61/NC 74 73/NO 84 83/NO

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



References:	Illustration:	Characteristics:	Curves:	Dimensions:	
pages B7/9 to B7/11	page B7/8	pages B7/22 to B7/24	page B7/25	page B7/26	
				Life Is On Schneider	B7/27

Control relays





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



Type of product	Range		Pages
ontactors 7 and 45 mm width for use in modular panels eSys SK	From 12 to 20 A	and an and a state	B8/2
ontactors eSys K	From 6 to 16 A		B8/4
eversing pre-assembled contactors eSys K	From 6 to 16 A		B8/8
uxiliary contact blocks - accessories			B8/13
TeSys S207 series contactors for railways applications. Click on image to download.		TeSys S335 series contactors for electrodomestic application. Click on image to download.	
TeSys Deca contactors	\square	0	
C-3, AC-1, UL CSA applications- eSys Deca green contactors vith AC/DC compatible coil)	From 9 to 80 A		B8/16
C-3 applications - -pole, 4-pole TeSys Deca contactors	From 9 to 150 A		B8/22
C-1 applications - -pole, 4-pole TeSys Deca contactors	From 25 to 200 A		B8/23
L CSA application - -pole TeSys Deca contactors	From 25 to 200 A		B8/28
eversing, changeover pre-assembled eSys Deca contactors	From 9 to 150 A		B8/29
eversing contactors eSys Deca green contactors vith AC/DC compatible coil)	From 9 to 80 A		B8/33
ontactors for switching capacitor banks	From 12.5 to 60 kVAR		B8/34

Modular contactors

Modular contactors	From 16 to 100 A		B8/51
Modular Dual tariff contactors	16, 25, 40 or 100 A	The second	B8/52
Modular Impulse relay	Up to 16 A		B8/53
Auxiliary contact blocks - accessories			B8/54

Technical Data for Designers



B8/61

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

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

Mini-	contact	ors for m	otor in cate	gory AC-3		
3-phase	Standard power ratings of 3-phase motors 50/60 Hz in category AC-3 ⁽¹⁾		Rated operational voltage in AC-3 up to 400 V	Number of poles	Instantaneous auxiliary contacts	Basic reference. Complete with code indicating control circuit voltage ^{(2) (3)}
220 V 230 V	380 V 415 V	660 V 690 V	_	\mathbf{n}		
kW	kW	kW	Α			
1.1	2.2	2.2	6	2		LC1SK0600.
Mini-	contact	ors for m	otor in cate	gory AC-1		
current (θ ≤ 55 ° utilisatio			Control circuit supply	Number of poles	Instantaneous auxiliary contacts	Basic reference. Complete with code indicating control circuit voltage ^{(2) (3)}
Α						
12			a.c.	2		LC1SK0600
			d.c.	2		LP1SK0600

(1) For use in AC-3 category and 3-phase circuits, an LA1SK •• auxiliary contact block should be ordered separately for mounting on the contactor.

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

Mini-contactors LC1SK			A Part						
Volts \sim 50/60 Hz	24	48	110	120	220	230	240	380	400
Code	B7	E7	F7	G7	M7	P7	U7	Q7	V7
Mini-contactors LP1SK									
Volts	12	24	36	48	72				
Code	JD	BD	CD	ED	SD				

(3) Please check the availability of your variant in the index page B8/55. The SEARCH function of your viewer can be used.

Add-on power pole (fo	r 3-phase circuits) with a	ux. contact	
For use on contactor LC1SK0600•• with 1 NO power pole (6 AAC-3, 10 A AC-1) and with 1 NC aux. contact (Ith Ue 690 V AC 50/60 Hz for both c		Instantaneous auxiliary contacts	Reference
Clip-on front mounting	1	- 1	LA1SK01
Instantaneous auxilia	ry contact blocks		
For use on contactorMaximuLC1SK0600••numberAux. contacts:blocks	of		Reference



LC1SK0600.





LAISH

Ue: 690 V AC 50/60 Hz				
Clip-on front mounting 1	:	2	_	LA1SK20
	-	_	2	LA1SK02
		1	1	LA1SK11



Coil suppressor modules

Ith 10 A.

contactor

Clip-on fixing and electrical connection on right-hand side, without use of tools

For use on contactors	s Туре	For voltages	Sold in lots of	Unit reference
LC1SK0600.	Varistor (1)	\sim and == 24 V…48 V	10	LA4SKE1E
LP1SK0600.		\sim 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).



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.

Mini-contactors, width 27 mm

	ontao	1010 , 11 0						
of 3-pha	rd power r ase motor z in catego 380 V 415 V	s	Rated operational current in AC-3 up to 400 V	Non inductive loads category AC-1 maximum current θ ≤ 50 °C	No. of po	les	Ļ	Basic reference, to be completed by adding the voltage code ^{(1) (2)}
kW	kW	kW	Α	Α				
_	_	_	5	20	2	_	_	LC1SKGC200

of 3-ph	Standard power ratings of 3-phase motors 50/60 Hz in category AC-3		Rated operational current	perational loads urrent category AC-1			, L	Basic reference, to be completed by adding the
220 V 230 V	380 V 415 V	660 V 690 V	in AC-3 up to 400 V	maximum current θ ≤ 50 °C	$\sum_{i=1}^{n}$		7	voltage code ^{(1) (2)}
kW	kW	kW	Α	A /				
1.1	4	4	9	20	3	1	-	LC1SKGC310
				100	3	_	1	LC1SKGC301

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

Volts \sim 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 B8/55. The SEARCH function of your viewer can be used.



LC1SKGC200



LC1SKGC300





LC1K0910••



LC1K09103.



LC1K09107••

ELEC

Contactors



LC1K09105.

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.

Standard power ratings of 3-phase motors 50-60 Hz in category AC-3		50-60 Hz	Rated operational current in category AC-3 440 V	Insta taneo auxili conta	ous ary	Basic reference, to be completed by adding the voltage code (1) (2)				
220 V 230 V			up to							
kW	kW	kW	Α							
Screw	clamp o	connections	5							
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.

Screw	clamp	conne	ections

Scie	w clamp	connection	15			
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) Coil voltage codes - a.c. ⁽⁴⁾

Contactors LC1K (0.8...1.15 Uc) (0.85...1.1 Uc)





LC7K0910••

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	Z7	B7	C7	D7	E7	F7	FE7	G7	FC7	L7		M7	P7	U7
Volts	256	277	380/400)	400	400/4	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.

Contactors LC7K (0.85...1.1 Uc)

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.

(2) Please check the availability of your variant in the index page B8/55. The SEARCH function of your viewer can be used.

(3) For LCoKooo3 / LPoKooo3 with spring terminal, Ith max = 10 A.

(4) (0.8...1.15 Uc) for single voltage coil; (0.85...1.1 Uc) for dual voltage coil, exemple 200/208 V AC.

(5) Only available for 'screw clamp terminals' versions.





LP1K0910••



LP1K09103.



LP1K09105.

Contactor selection according to utilisation category, see pages A5/34 to A5/39 and A5/42 to A5/45. 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-phas	nase motors 50-60 Hz cu ategory AC-3 ca 44		Rated operational current in category AC-3 440 V	Instai taneo auxili conta	ous ary	Basic reference, to be completed by adding the voltage code (1) (2)
220 V 230 V	380 V 415 V	440/500 V 660/690 V	up to			
kW	kW	kW	А			
Screw	[,] clamp o	connection	S			
1.5	2.2	3	6	1	_	LP1K0610
					1	LP1K0601.
2.2	4	4	9	1	_	LP1K0910
			- 10	_	1	LP1K0901
3	5.5	4 (> 440)	12	1	-	LP1K1210
Spring	tormin	5.5 (440) al connecti	ana (3)		1	LP1K1201.
Examp	eference le: LP1K		above, insert a figure comes LP1K06103		ore the	e voltage code.
Exampl Fastor In the re Exampl Solder In the re Exampl	eference le: LP1K n conne eference le: LP1K r pins fo eference le: LP1K	0610 ● bed ctors, 1 x 6. s selected a 0610 ● bed r printed ci s selected a 0610 ● bed	comes LP1K06103 .35 or 2 x 2.8 above, insert a figure comes LP1K06107 rcuit boards above, insert a figure comes LP1K06105	•. • 7 befo ••. ••. ••.	ore the	e voltage code.
Example Fastor In the re Example Solder In the re Example 3-pol	eference le: LP1K n conne eference le: LP1K r pins fo eference le: LP1K le low	0610 ● bed ctors, 1 x 6. as selected a 0610 ● bed r printed ci as selected a 0610 ● bed consump	comes LP1K06103 .35 or 2 x 2.8 above, insert a figure comes LP1K06107 rcuit boards above, insert a figure comes LP1K06105 otion contactor	••. ••. ••. ••. ••. ••.	ore the	e voltage code.
Example Fastor In the re Example Solder In the re Example 3-pol Compa	eference le: LP1K n conne eference le: LP1K r pins fo eference le: LP1K le low tible with	0610 ● bed ctors, 1 x 6. s selected a 0610 ● bed r printed ci s selected a 0610 ● bed consump n programma	comes LP1K06103 35 or 2 x 2.8 above, insert a figure comes LP1K06107 rcuit boards above, insert a figure comes LP1K06105 bion contactor able controller output	 •. <	ore the	e voltage code.
Example Fastor In the re Example Solder In the re Example 3-pol Compa Wide ra	eference le: LP1K n conne eference le: LP1K r pins fo eference le: LP1K le low tible with ange coil	0610 ● bed ctors, 1 x 6. s selected a 0610 ● bed r printed ci s selected a 0610 ● bed consump n programma	comes LP1K06103 .35 or 2 x 2.8 above, insert a figure comes LP1K06107 rcuit boards above, insert a figure comes LP1K06105 otion contactor able controller output Uc), suppressor fitte	 •. <	ore the	e voltage code. e voltage code.
Example Fastor In the re Example Solder In the re Example 3-pol Compa Wide ra	eference le: LP1K n conne eference le: LP1K r pins fo eference le: LP1K le low tible with ange coil	$(0610 \bullet bed)$ $(0610 \bullet bed)$ $(0610 \bullet bed)$ $(0610 \bullet bed)$ $(0610 \bullet bed)$ $(0610 \bullet bed)$ $(0610 \bullet bed)$ (0.71.30)	comes LP1K06103 .35 or 2 x 2.8 above, insert a figure comes LP1K06107 rcuit boards above, insert a figure comes LP1K06105 otion contactor able controller output Uc), suppressor fitte	 •. <	ore the ore the tanda	e voltage code. e voltage code.
Example Fastor In the re Example Solder In the re Example Compa Wide ra Screw 1.5	eference le: LP1K n conne- eference le: LP1K r pins fo eference le: LP1K le low tible with ange coil r clamp o 2.2	$(0610 \bullet becomes corrections, 1 x 6.)$ as selected a $(0610 \bullet becomes corrected a)$ as selected a $(0610 \bullet becomes corrected a)$ $(0610 \bullet becomes corrected a)$ (0.71.30) (0.71.30) (0.71.30) (0.71.30) (0.71.30) (0.71.30) (0.71.30)	comes LP1K06103 .35 or 2 x 2.8 above, insert a figure comes LP1K06107 rcuit boards above, insert a figure comes LP1K06105 otion contactor able controller outpu Uc), suppressor fitte s 6	 •. <	ore the	e voltage code. e voltage code. rd, consumption 1.8 W. LP4K0610•• LP4K0610••
Example Fastor In the re Example Solder In the re Example Compa Wide ra Screw	eference le: LP1K n conne eference le: LP1K r pins fo eference le: LP1K le low tible with ange coil	0610 bed ctors, 1 x 6. s selected a 0610 bed r printed ci s selected a 0610 bed consump programma (0.71.30 connection	comes LP1K06103 35 or 2 x 2.8 above, insert a figure comes LP1K06107 rcuit boards above, insert a figure comes LP1K06105 otion contactor able controller outpu Uc), suppressor fitte s	 •. <	ore the ore the tanda 	e voltage code. e voltage code. rd, consumption 1.8 W. LP4K0610•• LP4K0601•• LP4K0910••
Example Fastor In the re Example Solder In the re Example Compa Wide ra Screw 1.5	eference le: LP1K n conne- eference le: LP1K r pins fo eference le: LP1K le low tible with ange coil r clamp o 2.2	$(0610 \bullet becomes corrections, 1 x 6.)$ as selected a $(0610 \bullet becomes corrected a)$ as selected a $(0610 \bullet becomes corrected a)$ $(0610 \bullet becomes corrected a)$ (0.71.30) (0.71.30) (0.71.30) (0.71.30) (0.71.30) (0.71.30) (0.71.30)	comes LP1K06103 .35 or 2 x 2.8 above, insert a figure comes LP1K06107 rcuit boards above, insert a figure comes LP1K06105 otion contactor able controller outpu Uc), suppressor fitte s 6	 •. <	ore the ore the tanda _ 1	e voltage code. e voltage code. rd, consumption 1.8 W. LP4K0610•• LP4K0610••

Spring terminal connections

In the references selected above, insert a figure **3** before the voltage code. Example: **LP4K0610**.

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)



1 L1 3 L2 5 L3 13N0 +A Schreider LP4K09 108W3 20V 2 T1 4 T2 6 T3 14N0 -A2

LP4K0910.

d.c. supply (contactors LP1K: 0.8...1.15 Uc)

Volts	12	20	24 ⁽¹⁾	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

Low co	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 (~ 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 B8/55. The SEARCH function of your viewer can be used.
 (3) For LCeKeee3 / LPeKeee3 with spring terminal), Ith max = 10 A.





LC1K09004 • •



LC1K09103.



LC1K09107.



LC7K0910.

Contactor selection according to utilisation category, see pages A5/40 and A5/41. 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	tor	s <mark>- Lo</mark> ac	l cont	trol up to	20 A in category AC-1 - a.c. coil 🗥
Non-inductive loads Category AC-1 Maximum current at θ ≤ 50 °C		nber oles		antaneous liary contact	Basic reference, to be completed by adding the voltage code ^{(2) (3)}
Α					
Screw clamp connecti	ons				
20	3	_	1	_	LC1K0910••
					or LC1K1210••
	3	—		1	LC1K0901••
					or LC1K1201••
	4	_		_	LC1K09004
					or LC1K12004••
	2	2		_	LC1K09008••
		(4)			

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 connect	tions				
20	3	1-9	1	_	LC7K0910
	1				or LC7K121000
	3	—	_	1	LC7K0901●●
					or LC7K120100
	4	_	_	_	LC7K09004••
					or LC7K12004ee
	2	2	_	_	LC7K09008
Eastern communities A			•		

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 A5/40.

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

Contactors LC1K (0.8...1.15 Uc) (0.85...1.1 Uc)

Volts	12	20	24 (2)	36	42	48	110	115	120	127	200/208		220/230	230	230/240
50 Hz ⁽⁶⁾			B5		D5	E5								P5	
50/60 Hz	J7	Z7	B7	C7	D7	E7	F7	FE7	G7	FC7	L7		M7	P7	U7
Volts	256	277	380/400		400	400/4	15	440	480	500	575	600	660/690		
50/60 Hz	W7	UE7	Q7		V7	N7		R7	Τ7	S7	SC7	X7	Y7		

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

Contactors LC7K (0.8...1.1 Uc)

Volts	24	42	48	110	115	220	230/240
50/60 Hz	B7	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 B8/55. The SEARCH function of your viewer can be used.

(4) For $LC \in K \in S$ / $LP \in K \in S$ with spring terminal, Ith max = 10 A.

(5) (0.8...1.15 Uc) for single voltage coil; (0.85...1.1 Uc) for dual voltage coil, exemple 200/208 V AC.

(6) Only available for 'screw clamp terminals' versions.



PB123788.ep



LP1K09004.



LP1K09103.





LP1K09105.

LP4K0910 •••



Mounting on 35 r Screws in the op Add-on auxiliary	nm	ail or Ø ly-to-tiç	04 screv ghten" p	v fixing. osition.				12 to P9/15
, ,								category AC-1 - d.c. coil (1)
Non-inductive loa Category AC-1 Maximum current θ ≤ 50 °C	ads	Number of poles		Instar	ntane		B to	asic reference, b be completed by adding ne voltage code ^{(2) (3)}
Α								
Screw clamp co	onnectio	ons						
20		3		1	—			P1K0910
						(P1K1210●●
		3	—	-	1			P1K0901••
						(P1K1201••
		4		-	_			P1K09004••
						(P1K12004••
	•	2	2	-	—		LI	P1K09008ee
Spring termina								
In the references Example: LP1K0				-		pefore the	e vol	tage code.
Faston connec	tors, 1 x	6.35 c	or 2 x 2.	8				
In the references Example: LP1K0				-		pefore the	e vol	tage code.
Solder pins for	printed	circui	t board	s	, ``			
In the references Example: LP1K0						pefore the	e vol	tage code.
3 or 4-pole 2	20 A / A	AC-1	- d.c.	ow c	ons	umptio	n c	
Compatible with	program	mable	control	ler outp	uts.			onsumption 1.8 W.
Screw clamp co	onnectio	ons	. 24					
20	10	3	Nay (1	-		LI	Р4К0910●●●
	$\langle \rangle$					(or Ll	P4K1210
		3		_	1		LI	Р4К0901●●●
						(or Ll	P4K1201
		4	_	_	_		L	P4K09004●●●
						(or Ll	P4K12004●●●
		2	2	_	_		L	P4K09008●●●
Spring termina	l connec	ctions						
In the references	selecte	d abov	e, inser	t a figui	re 3 k	pefore the	e vol	tage code.

Contactor selection according to utilisation category, see pages A5/40 and A5/41.

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 A5/40.

Standa	rd c	ontro	ol cire	cuit	volta	iges	(for o	ther v	oltage	es, ple	ease c	onsul	lt you	r Regi	onal S	ales d	office)
Coil volt	Coil voltage codes - d.c. (contactors LP1K: 0.81.15 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 volt	Coil voltage codes - low consumption d.c. (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.

(2) 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, --- 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 B8/55. The SEARCH function of your viewer can be used. (4) For LCoKooo3 / LPoKooo3 with spring terminal, Ith max = 10 A.



TeSys Control K Reversing contactors Product references

Reversing contactor selection according to utilisation category, see pages A5/34 to A5/39 and A5/42 to A5/45. Integral mechanical interlock.

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

Rated

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-4

Basic reference,

Instan-

PB123784.tif	and the second second	T L: 3 L Suggester	5 13 13M 20 20	9 9 [9 9 G	
		LC2K09 1087 5085 31 5085 2 11 4 12		9 9 2 2 1	99	9 9 1410 A	2

LC2K0910.



LC2K09105.

	nase mote egory AC-	ors 50/60 Hz -3	operational current in category AC-3 440 V	con	ous iliary tacts per tactor	to be completed by adding the voltage code ^{(1) (2)}
220 V 230 V	380 V 415 V	440/500 V 660/690 V	up to		7	
kW	kW	kW	Α			
Screw	v clamp	connections	;			
1.5	2.2	3	6	1	_	LC2K0610••
				_	1	LC2K0601.
2.2	4	4	9	1	_	LC2K0910••
				_	1	LC2K0901.
3	5.5	4 (> 440)	12	1	_	LC2K1210
		5.5 (440)		_	1	LC2K1201.
4	7.5	4 (> 440)	16	1	1	LC2K1610
		5.5 (440)		- (1	LC2K1601.
Custin			(3)			

Spring terminal connections ⁽³⁾

-a.c. coil

Standard power ratings

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 of	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	Z7	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	Τ7	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 B8/55. The SEARCH function of your viewer can be used.
 (3) For LCeKeeee3 / LPeKeeee3 with spring terminal, Ith max = 10 A.

(4) (0.8...1.15 Uc) for single voltage coil; (0.85...1.1 Uc) for dual voltage coil, exemple 200/208 V AC.


TeSys Control K Reversing contactors Product references

Reversing contactor selection according to utilisation category, see pages A5/34 to A5/39 and A5/42 to A5/45. 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-pol	e reve	rsing conta	actors - Motor	cont	rol 6 to	o 12 A in categories AC-3 AC-4 - d.c. coil
of 3-ph	ase moto gory AC-	ors 50-60 Hz	Rated operational current in category AC-3 440 V		ous	Basic reference, to be completed by adding the voltage code ^{(1) (2)}
220 V 230 V	380 V 415 V	440/500 V 660/690 V	up to		7	
kW	kW	kW	Α		-	
Screw	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••
• •			(2)			

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 **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 – 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 **LP5K0610**••.

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)

Contactors

Coil voltage codes - d.c.

Reversing contactors	LP2K	(0.8	.1.15 Uc)
-----------------------------	------	------	-----------

Volts	12	20	24 ⁽¹⁾	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	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.

(1) For LP2K only, when connecting an electronic sensor or timer in series with the contactor coil, select a 20 V coil (\sim control size it calls a set of the inserted set of the insert

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 B8/55. The SEARCH function of your viewer can be used.
 (3) For LCeKeeee3 / LPeKeeee3 with spring terminal, Ith max = 10 A.



TeSys Control K Reversing contactors Product references

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

Reversing contactor selection according to utilisation category, see pages A5/40 and A5/41. 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.									
	contactors	- Load cont	rol - 20 A in category AC-1 - a.c. coil 🗥						
Non-inductive loads Category AC-1 Maximum current at θ ≤ 50 °C	Number of poles	Instantaneous auxiliary contacts per contactor	Basic reference, to be completed by adding the voltage code ^{(2) (3)}						

....

LC2K0910.

PB123785.eps	T to 3 to Segreter	001	2 A -		6	6
	LC22008 10087 100 100 100 100 100 2 10 1 4 10	88		00	9 9 9 1	

LC2K09105.



A	
Screw clamp connections	S
20	3
	3
	4
Spring terminal connection	ons
In the references selected a	abov

ve, 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 A5/40.

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

	age coc	105 - a.	G												
Reversing contactors LC2K (0.8…1.15 Uc) (0.85…1.1 Uc)															
Volts	12	20	24 ⁽²⁾	36	42	48	110	115	120	127	200/208	}	220/230	230	230/240
50/60 Hz	J7	Z7	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	Τ7	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 B8/55. The SEARCH function of your viewer can be used.

(4) For LCeKeeee3 / LPeKeeee3 with spring terminal, Ith max = 10 A.

(5) (0.8...1.15 Uc) for single voltage coil; (0.85...1.1 Uc) for dual voltage coil, exemple 200/208 VAC.

ections						
	3	_	1	_		LC2K0910••
					or	LC2K1210
	3	—	_	1		LC2K0901.
					or	LC2K1201
	4	_	_	_		LC2K09004••
					or	LC2K12004



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 A5/40 and A5/41. 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 co	ontac	tors -	Load	control	- 2	20 A in category AC-1 - d.c. coil 🗥 👘
Non-inductive loads Category AC-1 Maximum current at θ ≤ 50 °C		Number of poles		Instantaneous auxiliary contacts per contactor		Basic reference, to be completed by adding the voltage code ^{(2) (3)}
Α						
Screw clamp connections						
20	3	_	1	_		LP2K0910
					or	LP2K1210.
	3	_	_	1		LP2K0901.
				(or	LP2K1201.

LP2K09004 or LP2K12004 ••

Spring terminal connections (4)

In the references selected above, insert a figure 3 before the voltage code. Example: LP2K0910 becomes LP2K09103 .

4

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.

ELECT

Contactors

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 A5/40.

S	Standard	con	trol	circui	t vo	oltage	S (fo	r othe	er volta	ages,	pleas	e con	sult y	our Re	egion	al Sal	es off	ice)
C	Coil voltage	e cod	es - d.	c. (rev	ersir	ng cont	actors	s LP2ł	<: 0.8.	1.15	Uc)							
V	/olts	12	20	24 (2)	36	48	60	72	100	110	125	155	174	200	220	230	240	250

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 (\sim 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 B8/55. The SEARCH function of your viewer can be used. (4) For LCoKooo3 / LPoKooo3 with spring terminal, Ith max = 10 A.

Life Is On









TeSys Control K Contactors - Auxiliary contacts blocks Product references



Setundary 100

LA1KN223



LA1KN407

Instantaneous auxiliary contact blocks

Recommended for standard applications. Clip-on front mounting, 1 block per contactor

contactor				
Connection	For use on contactors	Compc	osition	Reference
Screw clamp	All products with screw clamp	2	-	LA1KN20
terminals	terminals	_	2	LA1KN02
		1	1	LA1KN11
	All products with screw clamp	4	_	LA1KN40
	terminals except low consumption	3	1	LA1KN31
	concamption	2	2	LA1KN22
		1	3	LA1KN13
Conting to main ala		-	4	LA1KN04 LA1KN203
Spring terminals	All products with spring terminals	2	2	LATKN203 LA1KN023
	torminalo	 1	2	LATKN023 LA1KN113
	All products with spring	4	1	LATKN113 LA1KN403
	terminals except low	4 3	1	LA1KN313
	consumption	2	2	LA1KN223
		<u>-</u> 1	3	LA1KN133
		_	4	LA1KN043
Faston connectors, 1 x 6.35 or 2 x 2.8	All products with Faston connectors	2	_	LA1KN207
1 X 0100 01 2 X 210	All products with Faston	4	_	LA1KN407
	connectors except low consumption	3	1	LA1KN317
With terminal re 1 block per con	eferencing to standard EN 5 tactor	0012. C	Clip-on fro	ont mounting,
Screw clamp	All 3-pole + N/O products with		2	LA1KN02M
terminals with referencing	screw clamp terminals except LP4 and LP5K12	1	1	LA1KN11M
conforming to standard EN 50012	All 3-pole + N/O products with	3	1	LA1KN31M
standard EN 50012	screw clamp terminals except LP4 or LP5K06, K09 and K12	2	2	LA1KN22M
Electronic ti	me delay auxiliary co	ntact	blocks	
maximum. Control voltage 0 Maximum switch Operating tempe Reset time: 1.5 s	ing capacity 250 VA or 150 W rature -10…+60 °C . during the time delay period	/. , 0.5 s a		
Clip-on front m	ounting, 1 block per contac	tor		
Voltage Type	Timing range	Compo	osition	Reference
V	S			
\sim or $=$ On-de 2448	-	1		LA2KT2E
\sim 110240 On-d	elay 130	1		LA2KT2U

Characteristics:	Dimensions:	Schemes:
page B8/75	pages B8/76 and B8/78	pages B8/77 and B8/79



TeSys Control K Contactors - Suppressor modules Product references



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.		\sim and $=$ 3248 V	5	LA4KE1E
		\sim and 50129 V	5	LA4KE1FC
		\sim and 130250 V	5	LA4KE1UG
	Diode + Zener diode ⁽²⁾	1224 V	5	LA4KC1B
		3248 V	5	LA4KC1E
	RC ⁽³⁾	\sim 110250 V	5	LA4KA1U

(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. Polarised component.

JU AN

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 frequency.

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

Characteristics:	Dimensions:	Schemes:
page B8/75	pages B8/76 and B8/78	pages B8/77 and B8/79
B8/14	Life Is On Schneider	

TeSys Control K Contactors - Accessories Product references



DX1AP25



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
Clip-in markers	4 maximum per contactor	Strips of 10 identical numbers 09	25	AB1R● ⁽²⁾
		Strips of 10 identical letters AZ	25	AB1G ● ⁽²⁾

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.

> Ref. Document: CPTG011_EN



> Click on QR code to download

Dimensions: pages B8/76 and B8/78



TeSys Control Deca Contactors Introduction



When implemented with other Schneider Electric products^{*}, Deca green 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 green contactor with our new Deca electronic overload relay, you will have less heat generation, and further reduce energy consumption.







such as PLC I/O type M580, M340, M221 or M241 or extended I/O type Advantys STB range, or in association with Deca electronic overload relays or Tera Motor management system.



TeSys Control Deca Contactors Introduction







Contactors



LC1D09•••



LC1D40A●●●



Deca green contactors h	have a dark grev	casing and a 3-	character code voltage.
Dood groon contactorer	10110 0 00111 9101		endiaeter eede tenager

Standard power ratings of 3-phase motors 50-60 Hz in category AC-3 $(\theta \le 60 \text{ °C})$					opera- taneous t tional auxiliary t current contacts		eous iliary	Basic reference, to be completed by add the control voltage cod		Weight		
	380 V 400 V	415 V	440 V	500 V	660 V 690 V	in AC-3 440 V up to		Ļ	Fixing ⁽²⁾			
kW	kW	kW	kW	kW	kW	Α					kg	
Conn	ection	by scr	e <mark>w cla</mark> n	np term	inals							
2.2	4	4	4	5.5	5.5	9	1	1	LC1D09		0.36	
3	5.5	5.5	5.5	7.5	7.5	12	1	1	LC1D12		0.37	
4	7.5	9	9	10	10	18	1	1	LC1D18		0.37	
5.5	11	11	11	15	15	25	1	1	LC1D25		0.43	
7.5	15	15	15	18.5	18.5	32	1	1	LC1D32		0.43	
9	18.5	18.5	18.5	18.5	18.5	38	1	1	LC1D38		0.44	
Powe	er conn	ections	s by Ev	erLink®	BTR (3)	screw co	onne	ctors a	and control by screw	clamp terminal		
11	18.5	22	22	22	30	40	1	1	LC1D40A		0.99	
15	22	25	30	30	33	50	1	1	LC1D50A		0.99	
18.5	30	37	37	37	37	65	1	1	LC1D65A		1.00	
22	37	37	37	37	37	66	1	1	LC1D80A		1.00	
Conn	ection	for lug	s or ba	rs								
For LC1	1D40A to	LC1D8	0A, inser	t a figure	6 before	the voltage	code	10				
Examp	ole: LC´	1D40A•	•• becc	omes LC	C1D40A	6•••		in A				
Aux	iliary	conta	ct blo	ocks a	nd ad	d-on m	odu	es				
See pa	ages B8	3/36 to I	B8/42.		_		83	9°				
Con	trol v	oltage	e code	es			12					
		VDC				1000						
Volts	0 01 2-		24 (DC oi	nlv)		24-60			48-130	100-250		
LC1D0	9D38, 0A D8	,	.+ (.00 0.	, , , , , , , , , , , , , , , , , , ,	1. ² /				40-100	100-200		
	1.1 Uc				E	BNE			EHE	KUE		
	9 D38											
	. 1.2 Uc		BNE									
	0A D8									-		
	.1.2 Uc		BBE									

U 0.8...1.2 Uc BBE

(1) Please check the availability of your variant in the index page B8/55. The SEARCH function of your viewer can be used.

(2) LC1D09 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 B8/42).





LC1D09•••



LC1D40A•••



LC1DT60A•••

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

3-pole contact	ors - l	_oad	cont	rol f	ror	n 25 to 80 A - Categor	y AC-1
Non inductive loads maximum current ($\theta \le 60$ °C) utilisation category	Numbe of pole	es	Instan taneou auxilia contac	ıs Iry		Partial reference, to be completed by adding the control voltage code ⁽¹⁾	Weight
AC-1	\mathbf{Z}	▶. /		Ļ		Fixing ⁽²⁾	
Α							kg
Connection by so	crew cl	amp t	ermin	als			
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 Ev	verLink	ه, BTI	R scre	ew co	nn	ectors ⁽³⁾	
60	3		1	1		LC1D40A•••	0.992
80	3		1	1		LC1D50A•••	0.997
					or		1.002
	1				or		1.002
Connection for lug	as or b	ars					

lugs of bar

For LC1D40A to LC1D80A, insert a figure 6 before the voltage code. Example: LC1D40A ... becomes LC1D40A6 ...

4-pole conta	actors	Y				
Connection by	v EverLink®, E	BTR ⁽³⁾	screw	connectors		
60	4	1	1	LC1DT60A		1.230
80	4	1	1	LC1DT80Aeee		1.290
Connection for	lugs or bars					
For LC1DT60A to L Example: LC1D ⁻		•		fore the voltage code. 60A6●●●		
4-pole chan	geover co	ntac	tors			
Connection by	v EverLink®, E	BTR ⁽³⁾	screw	connectors		
60	4	1	1	LC2DT60Aeee		2.460
80	4	1	1	LC2DT80Aeee		2.580
Control volt	tage codes	5				
AC/DC 24 V DC	C supply					
Volts	24 (DC only)	24	-60	48-130	100-250	
LC1D09D80A aı	nd LC•DT60A	.DT80/	A			
U 0.85 1.1 Uc		BN	IE	EHE	KUE	
LC1D09 D38						
U 0.8 1.2 Uc	BNE					
LC1D40 to LC1D8	0A, LC●DT60A	to LC	DT80A	· · · · · · · · · · · · · · · · · · ·		
U 0.8…1.2 Uc	BBE					

D ELECI

Contactors

(1) Please check the availability of your variant in the index page B8/55. 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 B8/42).
- (4) Coordination tables according to the number of operation cycles, consult online datasheets for values.





LC1D09•••



LC1D40A•••



Deca green 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 powe	r ratings o	of motors	50/60 Hz	Z	Associated cable	Continuous	Type of contactor required
Single 1Ø	-phase	3-phas 3 Ø	e			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 b	y 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	LC1D25eee
2	5	10	10	20	25	AWG 14 - 6	50	LC1D32

Pov	ver conne	ections k	by Ever	Link [®] B ⁻	FR ⁽³⁾ scr	rew connectors and	control by s	spring terminals
3	5	10	10	30	30	AWG 16 - 2	60	LC1D40A•••
3	7.5	15	15	40	40	AWG 16 - 2	70	LC1D50Aeee
5	10	20	20	40	50	AWG 16 - 2	80	LC1D65Aeee
5	10	20	20	40	50	AWG 16 - 2	80	LC1D80Aeee

Connection for lugs or bars

For LC1D40A to LC1D80A, insert a figure 6 before the voltage code. Example: LC1D40Aeee becomes LC1D40Aeee

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 24 V DC supply											
Volts	24 (DC only)	24-60	48-130	100-250							
LC1D09 D32, LC1	D40A 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 B8/55. The SEARCH function of your viewer can be used.

(2) LC1D09 to D80: 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 B8/42).



Deca green 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	>>>	LC1D40Aeee to LC1D80A, LC1DT60Aeee to LC1DT80Aeee	BBE, BD, BNE
		0.1	TM3DQ16●● and Q32●● (TK, UK)	>>>	LC1D09ee to LC1D38ee	BL
	Relay output: 24 V DC / 230 V AC	2	TM3DQ8 and DQ16 (R,RG), TM3DM8 and DM24 (R,RG)	>>>	LC1D09•• to LC1D38••, LC1D40A••• to LC1D80A, LC1DT60A••• to LC1DT80A•••	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	/	LC1D09ee to LC1D38ee	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	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	LC1D09•• to LC1D38••, LC1D40A••• to LC1D80A, LC1DT60A••• to LC1DT80A•••	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	>>>	LC1D09•• to LC1D38••, LC1D40••• to LC1D80A•••, LC1DT60A••• to LC1DT80A•••	Code of any AC coil up to 230 V (P7 code = 230 V)
ADVANTYS	Static output: 24 V DC	0.5	STBDDO3200		LC1D09ee to LC1D38ee	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	n 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.





LC1D09••



LC1D25••







LC1D95••

Contactors



	ard po Hz in c) °C)				ase mo	otors	Rated opera- tional current in AC-3	aux	an- eous iliary tacts	Basic reference, to be completed by adding the control voltage code ⁽¹⁾ Fixing ⁽²⁾	Weight (3
	380 V 400 V	415 V	440 V	500 V	660 V 690 V	1000 V	[–] 440 V up to		7		
kW	kW	kW	kW	kW	kW	kW	Α				kg
Conn	ectio	n by s	crew	clamp	o term	inals					
2.2	4	4	4	5.5	5.5	_	9	1	1	LC1D09●●	0.32
}	5.5	5.5	5.5	7.5	7.5	_	12	1	1	LC1D12ee	0.32
	7.5	9	9	10	10	_	18	1	1	LC1D18ee	0.33
5.5	11	11	11	15	15	_	25	1	1	LC1D25ee	0.37
<i>.</i> 5	15	15	15	18.5	18.5	_	32	1	1	LC1D32ee	0.37
)	18.5	18.5	18.5	18.5	18.5	—	38	1	1	LC1D38ee	0.38
Powe	er con	nectio	ons by	/ Ever	[.] Link [®]	BTR so	rew coni	nect	ors (4) a	and control by screw clamp terminal	
1	18.5	22	22	22	30	_	40	1	1	LC1D40A●●	0.85
5	22	25	30	30	33	_	50	1	1	LC1D50Aee	0.85
8.5	30	37	37	37	37	_	65	1	1	LC1D65Aee	0.86
22	37	37	37	37	37	—	66	1	1	LC1D80A••	0.86
Conn	ectio	n by s	crew	clamp	o term	inals or	⁻ connect	tors			
22	37	45	45	55	45	45	80	1	1	LC1D80	1.59
25	45	45	45	55	45	45	95	1	1	LC1D95••	1.61
80	55	59	59	75	80	65	115	1	1	LC1D11500	2.50
0	75	80	80	90	100	75	150	1	1	LC1D150	2.50
Conn	ectio	n <mark>by l</mark> ı	ugs o	r bars					IV. A		
						sert a fig D096ee		ore t	he volt	age code.	

Auxiliary contact blocks and add-on modules: see pages B8/36 to B8/42.

Standard control	ol circuit	volta	ges (for oth	ner vol	tages,	pleas	e cons	sult yo	ur Re	gional	Sales	Office
a.c. supply		101	Y.										
Volts	24	42	48	110	115	220	230	240	380	400	415	440	500
LC1D09D150 (D115 a	nd D150 coils	with bu	ilt-in su	ppressio	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 avail	able with "con	nection	for lugs	s 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	B6	—	E6	F6		M6	_	U6	Q6		_	R6	—
d.c. supply													
Volts	12	24	36	48	60	72	110	125	220	250	440		
LC1D09D38 (coils with	h integral supp	pressior	n 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		
LC1D40A D65A (coils	with integral s	uppres	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	I with built-in s	uppress	sion dev	/ice as s	standard	d) (t							
		DD		ED		<u>en</u>	ED	CD	MD		DD		

U 0.75...1.2 Uc ΒD ED ND GD MD UD RD SD FD

LC1D115••

Low consumption DC (for low consumptio	AC/DC: Deca green contactors, page B8/18)
--	---

Volts 5 12 20 24 48 110 220 250	Volts	5	12	20	24	48	110	220	250	
---	-------	---	----	----	----	----	-----	-----	-----	--

LC1D09...D38 (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 B8/45 to B8/48.

(1) Please check the availability of your variant in the index page B8/55. The SEARCH function of your viewer can be used.

- (2) LC1D09 to D80A: clip-on mounting on 35 mm r rail NSYSDR or screw fixing.
 - LC1D80 to D95 ~: clip-on mounting on 35 mm ur rail NSYSDR or 75 mm ur rail AM1DL or screw fixing.
- LC1D80 to D95: clip-on mounting on 75 mm _r 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 LC1D40A to D80A and 1 kg for LC1D80 and D95.
- (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 B8/42).
- (5) For these coil voltages, choose from Deca green 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. Exemple: LC1D40ABBE.





LC1D123••



3-pole contactors - Motor control up to 30 kW at 400 V, in category AC-3										
50-60 Hz in category AC-3 (θ ≤ 60 °C)				Rated operational current in AC-3 440 V up to	Insta taneo auxil conta	ous iary	Basic reference, to be completed by adding the control voltage code ⁽¹⁾ Fixing ⁽²⁾			
	380 V 400 V	415 V	440 V	500 V	660 V 690 V	1000 V	-		7	
kW	kW	kW	kW	kW	kW	kW	Α			
Powe	er and	contr	rol co	nnect	ions b	y sprin	g 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	15	15	15	18.5	18.5		32 (3)	1	1	LC1D323.
Powe	er con	nectio	ons by	<mark>/ Eve</mark> r	[.] Link [®]	BTR so	rew conne	ctors	(4) and	l control 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.
Conr	nectio	n by F	aston	conn	ector	S				

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 ••.

LC1D80A3••

Separate components

Auxiliary contact blocks and add-on modules: see pages B8/36 to B8/42.

Standard control of	ircuit	volta	tes (f	or othe	r volta	ae n	0260 0	onsult	VOUR B	Pegiona		Office
a.c. supply	mean	Vona	9 6 3 (1	or othe	i voita	ges, p	lease	onsun	youri	vegiona	I Sales	Onice
Volts	24	42	48	110	115	220	230	240	380	400	415	440
LC1D09D80A												
50/60 Hz	B7	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 inte	egral supp	pression	device f	itted as	standard	l, by bi-o	direction	al peak l	limiting	diode)		
U 0.7…1.25 Uc	JD	BD	CD	ED	ND	SD	FD	GD	MD	UD	RD	
LC1D40AD65A (coils with	integral s	suppress	sion dev	ice fitted	as stan	dard, by	bi-direc	tional pe	eak limit	ing diode))	
U 0.75…1.25 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 inte	egral supp	pression	device f	itted as	standard	l, by bi-o	direction	al peak l	imiting	diode)		
U 0.81.25 Uc	AL	JL	ZL	BL	EL	FL	ML	UL				

For other voltages between 5 and 690 V, see pages B8/45 to B8/48.

(1) Please check the availability of your variant in the index page B8/55. 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

(11 kW/400 V motors).

(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 B8/42).





LC1D09••



For other voltages between 5 and 690 V, see pages B8/45 to B8/48.

- (1) Please check the availability of your variant in the index page B8/55. The SEARCH function of your viewer can be used.
- (2) LC1D09 to D80A: clip-on mounting on 35 mm \r rail NSYSDR or screw fixing.

LC1D80 and D95 ~: clip-on mounting on 35 mm ⊥r rail NSYSDR or 75 mm ⊥r rail AM1DL or screw fixing. LC1 or LP1D80 to D95 ---: clip-on mounting on 75 mm ⊥r rail AM1DL or screw fixing. LC1D115 and D150: clip-on mounting on 2 x 35 mm ⊥r 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.
(4) BTR screws: hexagon socket head. In accordance with local electrical wiring regulations,

3-pole contactors - Load control from 25 to 200 A

in category A	C-1						
Non inductive loads maximum current $(\theta \le 60 \ ^{\circ}C)$ utilisation category	Numb of pol		aux	an- eous iliary tacts		Basic reference, to be completed by adding the control voltage code ⁽¹⁾ Fixing ⁽²⁾	Weight (3)
AC-1		(7			
Α							kg
Connection by so	crew c	lamp	tern	ninals			
25	3		1	1		LC1D09••	0.320
					or	LC1D12ee	0.325
32	3		1	1		LC1D18ee	0.330
40	3		1	1		LC1D25ee	0.370
50	3		1	1		LC1D32	0.375
					or	LC1D38ee	0.380
Connection by Ev	verLin	k®, B	TR s	crew o	conn	ectors ⁽⁴⁾	
60	3		1	1		LC1D40A	0.850
80	3		1	1		LC1D50Aee	0.855
					or	LC1D65A•• ⁽⁵⁾	0.860
					or		0.860
Connection by so	rew c	lamp	tern	ninals	or c	onnectors	
125	3	0	1	1		LC1D80	1.590
					or	LC1D95•• ⁽⁵⁾	1.610
200	3		1	1		LC1D115.	2.500
	1	V	20%		or	LC1D150 • ⁽⁶⁾	2.500
3-pole contac	tors	for c	con	nectio	on k	by lugs	

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

Example: LC1D09... becomes LC1D096...

Standard control circuit voltages (for other voltages, please consult your Regional Sales Office)													
a.c. supply	, pie	aset	,01151	unt yt	Jurr	egic		Jales	5 Oni	cej			
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	t-in su	ppres	ssion	devic	e as s	tanda	rd)	
50/60 Hz	B7	D7	E7	F7	FE7	M7	P7	U7	Q7	V7	N7	R7	S7
LC1D09D65 (not ava	ilable	with "	conn	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	B6	_	E6	F6	_	M6	_	U6	Q6	_	_	R6	_
d.c. supply													
Volts	12	24	36	48	60	72	110	125	220	250	440		
LC1D09D38 (coils wi limiting diode)	th inte	egral s	suppre	essior	n devid	ce fitte	ed as	stand	ard, b	y bi-d	lirectio	onal p	eak
U 0.71.25 Uc	JD	BD	CD	ED	ND	SD	FD	GD	MD	UD	RD		
LC1D40A D65A (coil peak limiting diode)	s with	integ	ral su	ppres	sion c	levice	fitted	l as st	andar	d, by	bi-dir	ection	al
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	ΕW	_	SW	FW	_	MW	_			

- a size 4 insulated Allen key must be used (reference **LADALLEN4**, see page B8/42).
- (5) Coordination tables according to the number of operating cycles, see AC-1 curve, page A5/40.
- (6) 32 A with 2 x 4 mm² cables connected in parallel.
- (7) For these coil voltages, choose from Deca green 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. Exemple: LC1D40ABBE.

LC1D115 and D150 (coils with built-in suppression device fitted as standard) U 0.75...1.2 Uc BD – ED ND SD FD GD MD UD RD _ Low consumption 12 20 24 48 110 220 250 Volts 5 LC1D09...D38 (coils with integral suppression device fitted as standard, by bi-directional peak limiting diode) U 0.8...1.25 Uc AL JL ΖL ΒL EL FL ML UL





LC1D123.





LC1D80A3●●

3-pole contactors - Load control from 16 to 80 A in category AC-1

AC-I						
Non inductive loads maximum current ($\theta \le 60$ °C) utilisation category AC-1		es tan aux	tan- eous tiliary tacts		Basic reference, to be completed by adding the control voltage code ⁽¹⁾ Fixing ⁽²⁾	Weight (3)
A	1	(kg
Connection by	spring	termin	als			
16	3	1	1			0.320
				or	LC1D123 • ⁽⁴⁾	0.325
25	3	1	1		LC1D183•• ⁽⁵⁾	0.335
				or	LC1D253 • ⁽⁶⁾	0.325
				or	LC1D323 • ⁽⁶⁾	0.325
Power connect spring terminal	-	EverL	.ink®	BTI	R screw connectors ⁽⁷⁾ and cor	ntrol 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
3-pole conta	ctors	for c	onn	ect	ion by Faston connecto	ors

These contactors are fitted with Faston connectors: 2×6.35 mm on the power poles and 1×6.35 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

Auxiliary contact blocks and add-on modules: see pages B8/36 to B8/42.

	_												
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	B7	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		
Volts122436486072110125220250440LC1D09D32 (coils with integral suppression device fitted as standard, by bi-directional peaklimiting diode)													
U 0.71.25 Uc	JD	BD	CD	ED	ND	SD	FD	GD	MD	UD	RD		
LC1D40AD65A (coils peak limiting diode)	s with	integ	ral sup	opres	sion d	evice	fitted	as sta	andar	d, by	bi-dir€	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 int	egral	suppr	essio	n devi	ce fitt	ed as	stanc	dard, I	by bi-o	directi	onalp	beak
U 0.81.25 Uc	AL	JL	ZL	BL	EL	FL	ML	UL					

Contactors

For other voltages between 5 and 690 V, see pages B8/45 to B8/48.

- (1) Please check the availability of your variant in the index page B8/55. The SEARCH function of your viewer can be used.
- (2) LC1D09 to D80A: clip-on mounting on 35 mm _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) $32 \text{ A with } 2 \times 4 \text{ mm}^2$ cables connected in parallel.
- (6) 40 A with $2 \times 4 \text{ mm}^2$ 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 B8/42).
- (8) Coordination tables according to the number of operating cycles, see AC-1 curve, page A5/40.





LC1DT20





LC1D65008••

Non inductive loads maximum current $(\theta \le 60 \text{ °C})$		nber oles	auxi	antane iliary tacts	ous	Basic I to be c the coi	omplet	ed by a						Weight (3)
utilisation category AC-1		-		Ļ		Fixing	(2)							
A														kg
Connection by scr	ew cla	mp te	rmina	ls										
20	4	_	1	1		LC1DT								0.36
	2	2	1	1		LC1D0								0.36
25	4	_	1	1		LC1DT								0.36
	2	2	1	1		LC1D1								0.36
32	4	_	1	1		LC1DT								0.42
40	2	2	1	1		LC1D1								0.42
40	4		1	1		LC1DT								0.42
Connection by Eve	2	2 ВТ	1	1	a a t a	LC1D2	999C							0.42
Connection by Eve		', BIR	screv		iectoi									1.00
60	4	_	1	1		LC1DT								1.09
80	4	-	1	1		LC1DT	80A●●							1.15
Connection by scr			rmina	ls or c	onne	ctors								
60	2	2	—	—		LC1D4								1.44
					or	LP1D4								2.21
80	2	2	-	_	/	LC1D6	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1							1.45
					or	LP1D6	110 50							2.22
125	4	—	-	—		LC1D8								1.76
					or	LP1D8								2.68
	2	2	-	-		LC1D8								1.84
			- 5		or	LP1D8								2.91
200	4	-76	151	- 4	217		15004	-						2.86
4-pole contacto	ors fo	or co	nnec	tion	by lı	igs or	bars	;						
In the references sele						fore the	voltag	je code	э.					
Example: LC1DT20	• becc	omes l	_C1DT	206••).									
Standard contr	ol cir	cuit	volta	ges (for ot	her vol	tages,	pleas	e con	sult yc	our Re	gional	Sales	Office)
a.c. supply		6												
Volts		24	42	48	110	115	220	230	240	380	400	415	440	500
LC1D09D150 and LC	1DT20													
50/60 Hz		B7	D7	E7	F7	FE7	M7	- <u>III Supp</u> P7	U7	Q7	V7	N7	R7	_
LC1D80D115				<u> </u>		,			01		v 1			
50 Hz		B5	D5	E5	F5	FE5	M5	P5	U5	Q5	V5	N5	R5	S5
60 Hz		B6	_	E6	F6	_	M6	_	U6	Q6	_	_	R6	_
										100 C				

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

	U U 751.25 UC	JD	BD	CD	ED	ND	50	FD	GD	MD	UD	RD
	LC1DT60A DT80A (coils	with integra	al suppr	ession	device	fitted as	standa	rd, by b	i-directi	ional pe	ak limiti	ng diode)
	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	suppressior	n device	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 LC1DT2	2 0DT40 (c	oils with	n integra	al suppr	ession c	device fi	tted as s	standar	d, by bi-	directio	nal peak limiting diode
	U 0.81.25 Uc	AL	JL	ZL	BL	EL	FL	ML	UL			
	 For other voltages between (1) Please check the availa (2) LC1D09 to D38 and LC² LC1D80 ~: clip-on mou LC1 or LP1D80: clip- LC1D115 and D150: clip (3) The weights indicated an LC1D09 to D38, 0.075 k (4) For these coil voltages, or DC, BNE for 24-60 V AC 	ability of yo 1DT20 to D on thing on 35 on mounting o-on mounting re for contact g from LC1 choose from	nur vari T80A: c mm ⊥ g on 75 ng on 2 ctors wi DT60A n Deca	ant in th lip-on m rail NS mm ur x 35 mr th a.c. c and D8 green c	he inde nounting YSDR rail AN m L ra control c 0A and ontacto	x page g on 35 or 75 mi 11DL or iils NSY ircuit. F I 1 kg fo rs. Sam	mm \ m \ ra screw f SDR or for d.c. o r LC1D ne produ	rail NS iil AM1L ixing. screw i or low co 80 . uct ref. r	YSDR o DL or so fixing. onsump radical, j	or screw crew fixin otion con just add	r fixing. ng. ntrol circ I BBE co	cuit, add 0.160 kg fron oil voltage code for 24
Characteristics:	Dimensions:	Scher									∠ Click	HERE for access
pages B8/80 to B8/87	pages B8/94 to B8/97	pages	8 B8/101	to B8/1	02						to onl	ine contactor selector
B8/26 Life Is On	Schneider Belectric											

Contactors



LC1DT253••



LC1DT80A3••

Non inductive loads maximum current $(\theta \le 60 \ ^{\circ}C)$ utilisation category AC-1						Basic re to be co adding Fixing ⁽²	mplet the vo	ed by		(1)	-	eight ⑶
A												kg
Connection by	sprin	g terr	ninals	5								
20	4	_	1	1		LC1DT2	03••					0.380
	2	2	1	1		LC1D09	83••					0.380
25	4	_	1	1		LC1DT2	53••					0.380
	2	2	1	1		LC1D12	83••					0.380
32	4	_	1	1		LC1DT3	23••					0.425
	2	2	1	1		LC1D18						0.42
40	4	-	1	1		LC1DT4	03••					0.425
	2	2	1	1		LC1D25	83••					0.425
Connection by spring terminal		_ink®,	BTR	screv	<i>N</i> cor	nnectors	and	cont	rol c	ircui	t by	
60	4	_	1	1		LC1DT	0A3•					1.090
⁸⁰ Separate co	4 mpo		1 ts	1	modi	LC1DT8	80A3•	Þ	3/36 t	o B8	/42.	
60 80 Separate co Auxiliary contac Standard co (for other voltag	4 mpo ct bloc	cks a I circ	1 ts nd add cuit v	1 d-on volta	ges	LC1DT8 u les : sea	e pag	es B8		o B8	/42.	
80 Separate co Auxiliary contac Standard co	4 mpo ct bloc	cks a I circ	1 ts nd add cuit v	1 d-on volta	ges	LC1DT8 u les : sea	e pag	es B8		o B8	/42.	
80 Separate co Auxiliary contac Standard co (for other voltag	4 mpo ct bloc	cks a Circ lease	1 nd add cuit v e cons	1 d-on volta	our R	LC1DT8 u les : sea	e page Sales	es B8	ice)			1.150
80 Separate co Auxiliary contac Standard co (for other voltag a.c. supply	4 mpo ct bloc ntrol ges, p 24 LC1D	cks a circ lease 4 42 F20E	1 ts nd ad cuit v cons cons 2 48 0T80A	1 d-on olta oult yo 110 (coils v	our R 115 with in	LC1DT8 ules: sea Regional 220 230	e page Sales	es B8 s Off 380	ice) 400	415	440	1.150
80 Separate co Auxiliary contac Standard co (for other voltag a.c. supply Volts LC1D09D25 and	4 mpo ct bloc ntrol ges, p 24 LC1D	cks a circ lease 4 42 F20E peak l	1 ts nd add cuit v cons cons cons cons cons cons cons cons	1 d-on olta oult yo 110 (coils v	our R 115 with in	LC1DT8 ules: sec Regional 220 230 tegral sup	e page Sales	es B8 s Off 380	ice) 400	415	440	1.150
80 Separate co Auxiliary contac Standard co (for other voltag a.c. supply Volts LC1D09D25 and standard, by bi-dire	4 mpo ct bloc ntro ges, p 24 LC1D	cks a circ lease 4 42 720 E peak l	1 ts nd add cuit v cons cons cons cons cons cons cons cons	1 d-on olta oult yo 110 (coils y diode)	our R 115 with in	LC1DT8 ules: sec Regional 220 230 tegral sup	e page Sales 240 pressi	es B8 s Off 380 on de	ice) 400 vice fi	415 tted a	440 s	1.150
80 Separate co Auxiliary contac Standard co (for other voltag a.c. supply Volts LC1D09D25 and standard, by bi-dired 50/60 Hz	4 mpo ct bloc ntro ges, p 24 LC1D	cks a circ lease 4 42 F20E peak I 7 D7	1 ts nd add cuit v cons cons cons case cons cons cons cons cons cons cons cons	1 d-on olta oult yo 110 (coils y diode)	our R 115 with in	LC1DT8 ules: sea egional 220 230 tegral sup M7 P7	e page Sales 240 pressi	 S Off 380 on de Q7 	ice) 400 vice fi V7	415 tted a N7	440 s	1.150
80 Separate co Auxiliary contac Standard co (for other voltag a.c. supply Volts LC1D09D25 and standard, by bi-direc 50/60 Hz d.c. supply	4 mpo ct bloc ntrol ges, p 24 LC1D ctional B 12	cks a circ lease 4 42 720E peak I 7 D7 2 24 T20	1 ts nd ad cuit v cons 2 48 0T80A imiting 7 E7 4 36 DT40 (1 colta cult y 110 (coils y diode) F7 48	dges our R 115 with in FE7 60	LC1DT8 ules: sea egional 220 230 tegral sup M7 P7 72 110	30A3 a page Sales 240 pressi U7 125	 Base off 380 380 on de Q7 220 	ice) 400 vice fi V7 250	415 tted a N7 440	440 s R7	1.150 500
80 Separate co Auxiliary contac Standard co (for other voltag a.c. supply Volts LC1D09D25 and standard, by bi-dired 50/60 Hz d.c. supply Volts LC1D09D25 and	4 mpo ct bloc ntrol ges, p 24 LC1D ctional B 12	cks a circ lease 4 42 F20E peak I 7 D7 2 24 T20 ing dio	1 ts nd add cuit v cons cons cuit v cons cas cons cons cons cas cons cons cons cons cons cons cons con	1 colta cult y 110 (coils y diode) F7 48	dges our R 115 with in FE7 60	LC1DT8 ules: sea egional 220 230 tegral sup M7 P7 72 110	30A3 a page Sales 240 pressi U7 125	 Base off 380 380 on de Q7 220 	ice) 400 vice fi V7 250	415 tted a N7 440	440 s R7	1.150 500
80 Separate co Auxiliary contac Standard co (for other voltag a.c. supply Volts LC1D09D25 and standard, by bi-dired 50/60 Hz d.c. supply Volts LC1D09D25 and by bi-directional pea	4 mpo ct bloc ntrol ges, p 24 LC1D ctional B 12 LC1D ak limiti Jl ccoils wi	cks a circ lease 4 4 7 0 2 24 700 100 100 100 100 110 120 110 <td>1 ts nd ad cuit v cons cons cuit v cons cas cons cas cons cas cons cons cons cons cons cons cons con</td> <td>1 olta olta olta ult yo 110 (coils y diode) F7 48 coils w ED</td> <td>115 with in FE7 60 vith int</td> <td>LC1DT8 ules: sea egional 220 230 tegral sup M7 P7 72 110 egral sup SD FD</td> <td>BOA3 Page Sales 240 Pressi U7 125 pressic GD</td> <td> S Off 380 on de Q7 220 on dev MD </td> <td>ice) 400 vice fi V7 250 vice fit UD</td> <td>415 tted a N7 440 ted as RD</td> <td>440 s R7 s stand</td> <td>1.150 500 – dard,</td>	1 ts nd ad cuit v cons cons cuit v cons cas cons cas cons cas cons cons cons cons cons cons cons con	1 olta olta olta ult yo 110 (coils y diode) F7 48 coils w ED	115 with in FE7 60 vith int	LC1DT8 ules: sea egional 220 230 tegral sup M7 P7 72 110 egral sup SD FD	BOA3 Page Sales 240 Pressi U7 125 pressic GD	 S Off 380 on de Q7 220 on dev MD 	ice) 400 vice fi V7 250 vice fit UD	415 tted a N7 440 ted as RD	440 s R7 s stand	1.150 500 – dard,
80 Separate co Auxiliary contac Standard co (for other voltag a.c. supply Volts LC1D09D25 and standard, by bi-dired 50/60 Hz d.c. supply Volts LC1D09D25 and by bi-directional pea U 0.71.25 Uc LC1DT60A80A (d	4 mpo ct bloc ntrol ges, p 24 LC1D ctional B 12 LC1D ak limiti Jl ccoils wi	cks and circolease an	1 ts nd add cuit v cons cons case 48 0T80A imiting 7 E7 5 36 0T40 (de) 0 CD gral sup	1 olta olta olta ult yo 110 (coils y diode) F7 48 coils w ED	115 with in FE7 60 vith int	LC1DT8 ules: sea egional 220 230 tegral sup M7 P7 72 110 egral sup SD FD	BOA3 Page Sales 240 Pressi U7 125 pressic GD	 S Off 380 on de Q7 220 on dev MD 	ice) 400 vice fi V7 250 vice fit UD	415 tted a N7 440 ted as RD	440 s R7 s stand	1.150 500 – dard,
80 Separate co Auxiliary contac Standard co (for other voltag a.c. supply Volts LC1D09D25 and standard, by bi-dired 50/60 Hz d.c. supply Volts LC1D09D25 and by bi-directional pea U 0.71.25 Uc LC1DT60A80A (opeak limiting diode)	4 mpo ct bloc ontrol ges, p 24 LC1D ctional B 12 LC1D ak limiti Jl coils wi	cks and circolease an	1 ts nd add cuit v cons cons case 48 0T80A imiting 7 E7 5 36 0T40 (de) 0 CD gral sup	1 d-on olta oult yo 110 (coils y diode) F7 48 coils w ED opress	ges our R 115 with in FE7 60 vith inte ND sion de	LC1DT8 ules: sea egional 220 230 tegral sup M7 P7 72 110 egral sup SD FD evice fitted	Sales Sales 240 pressi U7 125 pressic GD I as sta	 S Off 380 on de Q7 220 on dev MD andard 	ice) 400 vice fi V7 250 vice fit UD	415 tted a N7 440 ted as RD Di-dire	440 s R7 s stand	_ dard,
80 Separate co Auxiliary contac Standard co (for other voltag a.c. supply Volts LC1D09D25 and standard, by bi-dired 50/60 Hz d.c. supply Volts LC1D09D25 and by bi-directional pea U 0.71.25 Uc LC1DT60A80A (or peak limiting diode) U 0.751.25 Uc	4 mpo ct bloc ontrol ges, p 24 LC1D ctional B 12 LC1D ak limiti Jl coils wi	cks and circolease an	1 ts nd add cuit v cons cons case 48 0T80A imiting 7 E7 36 0T40 (de) 0 CD gral sup	1 d-on olta oult yo 110 (coils y diode) F7 48 coils w ED opress	ges our R 115 with in FE7 60 vith inte ND sion de	LC1DT8 ules: sea egional 220 230 tegral sup M7 P7 72 110 egral sup SD FD evice fitted	Sales Sales 240 pressi U7 125 pressic GD l as sta	 S Off 380 on de Q7 220 on dev MD andard 	ice) 400 vice fi V7 250 vice fit UD	415 tted a N7 440 ted as RD Di-dire	440 s R7 s stand	1.150 500 – dard,
80 Separate co Auxiliary contac Standard co (for other voltag a.c. supply Volts LC1D09D25 and standard, by bi-direc 50/60 Hz d.c. supply Volts LC1D09D25 and by bi-directional pea U 0.71.25 Uc LC1DT60A80A (or peak limiting diode) U 0.751.25 Uc Low consumpt	4 mpo ct bloc ontrol ges, p 24 LC1D ctional B 12 LC1D ak limiti JI coils wi JI coils wi 5 LC1D	cks and circolease an	1 ts nd ad cuit v cons cons 2 48 0T80A imiting 7 E7 4 36 0T40 (de) 0 CD gral sup 0 CD 2 CD 2 CD 2 CD 2 CD 2 CD	1 (olta olta olta (coils v diode) F7 48 coils w ED opress ED	115 with in FE7 60 vith into ion de ND	LC1DT8 ules: sea egional 220 230 tegral sup M7 P7 72 110 egral sup SD FD evice fitted SD FD 200 FD	BOA3 Page Sales Sales 240 Pressi U7 U7 125 Pressic GD As sta GD 250	es B8 s Off 380 on de Q7 220 on dev MD andard	ice) 400 vice fi V7 250 vice fit UD d, by b	415 tted a N7 440 ted as RD bi-dire RD	440 s R7 s stand	1.150 500 – dard,

D ELECT

Contactors

(2) LC1D09 to D38 and LC1DT20 to DT80A: clip-on mounting on 35 mm r 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.





LC1D09●●



LC1D25●●



LC1D80A••





Contactors conforming to UL and CSA standards (North American market) -25 to 160 A

25 (0) 16U A							
Standa	ard power	ratings o	of motors	50/60 Hz	Z	Associated cable	UL	Type of contactor required
Single 1 Ø	-phase	3-phas 3 Ø	e			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 b	y screw	clamp t	erminal	s			
1/3	1	2	2	5	7.5	AWG 18 - 10	25	LC1D09ee
0.5	2	3	3	7.5	10	AWG 18 - 10	25	LC1D12ee
1	3	5	5	10	15	AWG 18 - 8	32	LC1D18ee
2	3	7.5	7.5	15	20	AWG 14 - 6	40	LC1D25ee
2	5	10	10	20	25	AWG 14 - 6	50	LC1D32ee ⁽³⁾
2	5	10	10	20	25	AWG 14 - 6	50	LC1D38ee ⁽³⁾
Powe	r connec	ctions by	y EverL	ink [®] BTI	R screw c	onnectors 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	LC1D50Aee
5	10	20	20	40	50	AWG 16 - 2	80	LC1D65Aee
5	10	20	20	40	50	AWG 16 - 2	80	LC1D80A.
Conn	ection b	y screw	clamp t	erminal	s or conr	ectors		
7.5	15	25	30	60	60	AWG 10 - 2	110	LC1D80
7.5	15	25	30	60	60	AWG 10 - 2	110	LC1D95ee
_	_	30	40	75	100	AWG 8-1/0	160	LC1D11500
_	_	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.

Volts																
VOILS	24	42	48	110	115	120	208	220	230	240	380	400	415	440	480	500
LC1D09D150 (I	D115 a	nd D1	50 coil	s with t	ouilt-in :	suppres	ssion d	evice a	is stan	dard)						
50/60 Hz	B7	D7	E7	F7	FE7	G7 ⁽⁴⁾	LE7 (⁴⁾ M7	P7	U7	Q7	V7	N7	R7	T7 ⁽⁴⁾	S7
LC1D09D65 (no	ot avail	able w	ith "cor	nnectio	n for lu	gs or ba	ars")									
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	B6	_	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 (co	oils witl	h integ	ral sup	pressi	on devi	ce fitteo	d as sta	andard	by bi-	directio	nal pea	ak limiti	ng dioc	le)		
	JD	BD	CD	ED	ND	SD	FD	GD	MD	UD	RD			,		
LC1D40AD65A	(coils	with in	itegral	suppre	ssion d	levice fi	itted as	stand	ard, by	bi-dire	ctional	peak li	miting a	diode)		
U 0.751.25 Uc	JD	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	RD					
LC1D80 and D95																
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 D1	50 (coi	ls with	built-ir	n suppr	ession	device	as sta	ndard)								
U 0.75…1.2 Uc	_	BD	—	ED	ND	SD	FD	GD	MD	UD	RD					
Low consump	otion															
Volts	5	12	20	24	48	72	110	220	250							
LC1D09D38 (co	oils witl	h integ	ral sup	pressi	on devi	ce fitteo	d as sta	andard	by bi-	directio	nal pea	ak limiti	ng dioc	le)		
U 0.81.25 Uc	AL	JL	ZL	BL	EL	SL	FL	ML	UL							



LC1D95●●





LC2D12••



LC2D65A••



LC2D1156••

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

Horizontally mounted - Pre-wired power of	connectio	ons.		
Standard power ratings of 3-phase motors 50-60 Hz in category AC-3 (θ ≤ 60 °C)	Rated opera- tional current in AC-3 440 V	Instan- taneous auxiliary contacts per contactor	Contactors supplied with coil Basic reference, to be completed by adding the control voltage code ⁽¹⁾	Weight (3)
220 V 380 V 415 V 440 V 500 V 660 V 1000 V	up to _		Fixing ⁽²⁾	
230 V 400 V 690 V				

kW kW kW kW kW kW A

With mechanical interlock, without electrical interlocking, for connection by screw clamp terminals or connectors

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	<u>)</u> 1	LC2D95••	3.200
With	mech	anical	inter	ock ar	nd elec	ctrical	interlocki	ing, for	conne	ection by screw clamp terminal	s or connectors
								and the second second		-	

30	55	59	59	75	80	65	115	610	1	LC2D115●●	
40	75	80	80	90	100	75	150	1	1	LC2D150	
Cor	necti	on by	luas	or bar	's						

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 B8/43).

Component parts

Auxiliary contact blocks and add-on modules: see pages B8/36 to B8/42.

a.c. supply													
Volts	24	42	48	110	115	220	230	240	380	400	415	440	500
_C2D09D150 (D115 and D	0150 coils	with bu	ilt-in su	ppressio	on devic	e as sta	andard)						
50/60 Hz	B7	D7	E7	F7	FE7	M7	P7	U7	Q7	V7	N7	R7	S7
_C2D80D115													
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		
_C2D09D38 (coils with inte	egral supp	ressior	n device	fitted a	s standa	ard, by l	oi-direct	ional pe	eak limi	ting dio	de)		
J 0.7…1.25 Uc	JD	BD	CD	ED	ND	SD	FD	GD	MD	UD	RD		
_C2D40AD65A (coils with	integral s	suppres	sion de	vice fitte	ed as sta	andard,	by bi-di	rectiona	al peak	limiting	diode)		
J 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					
_C2D09D38 (coils with inte	egral supp	pressior	n device	fitted a	s standa	ard, by l	bi-direct	ional pe	eak limi	ting dio	de)		
J 0.81.25 Uc	AL	JL	ZL	BL	EL	FL	ML	UL					
 For other voltages between 5 (1) Please check the available (2) LC2D09 to D65A: clip-on LC2D80 and D95: clip-on LC2D115 and D150: clip-on (3) The weights indicated are LC2D09 to D38, 0.150 kg 	pility of yo mounting mounting on mounti for conta	on 35 n on 35 n on 35 n ng on 3 ctors w	i ant in t חדר חדר הדר הדר הדר הדר הדרים הדר הדרים הדר הדרים הבים הבים הבים הבים הבים הבים הבים הב	he inde rail NSY rail NSY _rail NSY	x page (SDR or (SDR or SYSDR	screw f 75 mm or scre	fixing. h u_r rail w fixing	AM1DI	L or scr	ew fixing	g.		

Contactors

ELECT

kg

6.350

6.400

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





LC2D123••

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

Pre-wired power connections.

Mechanical interlock without electrical interlocking.

Standa of 3-ph in cate (θ ≤ 60	nase m egory A	otors		Hz		Rated opera- tional current in AC-3 440 V up to	Insta tane auxi cont per cont	ous liary	Contactors supplied with coil Basic reference, to be completed by adding the voltage code ⁽¹⁾	Weight (3)
220 V 230 V		415 V	440 V	500 V	660 V 690 V				Fixing ⁽²⁾	_
kW	kW	kW	kW	kW	kW	Α				kg
For co	onnec	tion k	oy spr	ing te	rminals	5				
2.2	4	4	4	5.5	5.5	9	1	1	LC2D093.	0.68
3	5.5	5.5	5.5	7.5	7.5	12	1	1	LC2D123••	0.69
4	7.5	9	9	10	10	18	1	1	LC2D183••	0.70
5.5	11	11	11	15	15	25	1	1	LC2D253••	0.78
7.5	15	15	15	18.5	18.5	32 (4)	1	1	LC2D323••	0.79
Powe	r coni	nectio	n by l	EverL i	i nk ®, B	TR screw	conn	ectors	⁵⁾ and control by spring terminals	
11	18.5	22	22	22	30	40	1	1	LC2D40A3••	1.87
15	22	25	30	30	33	50	1	1	LC2D50A3••	1.88
18.5	30	37	37	37	37	65	1	1	LC2D65A3••	1.89
For c	onneo	ction I	by Fas	ston c	onnec	tors			13. Contraction of the second s	

All power connections are to be made by the customer.

These contactors are fitted with Faston connectors: 2×6.35 mm on the power poles and 1×6.35 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 B8/36 to B8/42.

Standard control	circuit	volta	ges (for oth	er vol	tages,	pleas	e cons	sult yo	ur Reg	gional	Sales	Office
a.c. supply													
Volts	24	42	48	110	115	220	230	240	380	400	415	440	500
LC2D09D65A													
50/60 Hz	B7	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 in	tegral supp	pressior	device	e fitted a	s standa	ard, by l	oi-direct	ional pe	eak limit	ing diod	de)		
U 0.7…1.25 Uc	JD	BD	CD	ED	ND	SD	FD	GD	MD	UD	RD		
LC2D40A D65A (coils wit	h integral s	suppres	sion de	vice fitte	ed as sta	andard,	by bi-di	rectiona	al peak	limiting	diode)		
U 0.75…1.25 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 int	egral supp	ression	device	fitted as	s standa	rd, by b	oi-direct	onal pe	ak limit	ing diod	le)		
U 0.81.25 Uc	AL	JL	ZL	BL	EL	FL	ML	UL					

For other voltages between 5 and 690 V, see pages B8/45 to B8/48.

- (1) Please check the availability of your variant in the index page B8/55. The SEARCH function of your viewer can be used.
- (2) LC2D09 to D32: clip-on mounting on 35 mm _r 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 B8/42).



TeSys Control Deca Changeover contactors Product references





LC2DT20





LC2D115004.

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 B8/36).

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

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

For connection by screw clamp terminals or connectors

Utilisation category A Non-inductive loads		antaneous auxiliary lacts per contactor	Contactors supplied with coil	Weight
Maximum rated operational current (θ ≤ 60 °C)		7	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	LC2DT40●●	0.850
125	A CON	<u> </u>	LC2D80004	3.200
200	Reality_	-	LC2D115004	7.400
For connection by	lugs or b	ars		
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 custor	ner assemb	ly		
For connection	on by screw cla	amp term	inals or connectors	
60	1	1	LC1DT60A•• (4)	_
80	1	1	LC1DT80A•• (4)	_
For connection	on by lugs or b	ars		
60	1	1	LC1DT60A6•• ⁽⁴⁾	_
80	1	1	LC1DT80A6•• ⁽⁴⁾	_

Contactors

Auxiliary contact blocks and add-on modules: see pages B8/36 to B8/42.

- **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 B8/55. The SEARCH function of your viewer can be used.
- (3) LC2DT20 to LC2DT80: clip-on mounting on 35 mm Lr rail NSYSDR or screw fixing. LC2D80: clip-on mounting on 35 mm Lr rail NSYSDR or 75 mm Lr rail AM1DL or screw fixing.
 - **LC2D115**: clip-on mounting on 2 x 35 mm rails **NSYSDR** or screw fixing.
- (4) For these operational currents, order 2 identical contactors and a mechanical interlock **LAD4CM** (see page B8/43).



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

Pre-assemble Pre-wired power								nrin	a tor	min	ale		
•							-	-	- -		ais.		
Utilisation category Non-inductive loads				taneo cts pe					ontac Ipplie		h coi	I	
Maximum rated operational current (θ ≤ 60 °C)		١		Ļ				be ac vo	e com Iding	plete the c code	ontro		
Α													
20		1		1				LC	C2DT	203•0	•		
Power connection by spring termina		verL	ink®,	BTR	scre	ew co	onne	ctors	s ⁽³⁾ a	nd co	ontro		
60		1		1				LC	C1DT	60A3	•• (4)		
80		1		1				LC	C1DT	80A3	• (4)		
Separate com	pon	ents	5										
Auxiliary contact				d-on	mod	ules:	see	page	es B8	8/19 t	o B8	/19.	
Standard cont								P - 3					
(for other voltage					U		onal S	Sales	s Offi	ice)			
a.c. supply													
Volts	24	42	48		115	220	230	240	380	400	415	440	500
_C2DT20DT40, LC		-	and a										
50/60 Hz	B7	D7	E7	F7	FE7	M7	P7	U7	Q7	V7	N7	R7	-
LC2D80004D11500		No.											
50 Hz	B5	D5	E5	F5	FE5		P5	U5	Q5	V5	N5	R5	S5
60 Hz	B6	<u>~</u>	E6	F6	—	M6	—	U6	Q6	-	-	R6	-
d.c. supply													
Volts	12	24	36	48	60	72		125					
LC2DT20DT40, LC by bi-directional peak				oils wi	th inte	egrals	suppre	essior	1 devi	ce fitt	ed as	stand	lard,
U 0.7…1.25 Uc	JD	BD	CD	ED	ND	SD	FD	GD	MD	UD	RD		
Low consumption	n												
Volts	5	12	20	24	48	110	220	250					
L C2DT20DT40 (coil peak limiting diode)	s with i	ntegra	al sup	press	ion de	vice f	itted a	as sta	ndard	l, by b	i-dire	ctiona	1
						-	5.41	UL					
U 0.8…1.25 Uc	AL	JL	ZL	BL	EL	FL	ML	UL					

(2) Clip-on mounting on 35 mm Lr 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).



TeSys Control Deca green Reversing contactors Product references



LC2D09•••

LC2D40A•••

IB12121.Iff

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

	s 50-60			3-phaso y AC-3	e	Rated opera- tional current in AC-3 440 V	Instan tanec auxili conta per conta	ary acts	Contactors supplied with coil Partial 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 _		Ļ	Fixing ⁽²⁾	
	1-10/	kW	kW	kW	kW	Α				kg
kW	kW									
With or Ev	mecha erlink	nical i BTR s	nterlo crew c	ck, wit connec	ctors (3)) (4)			for connection by screw clamp termina	
With or Ev	mecha erlink 4	nical i BTR s 4	interio crew c 4	ck, wit connec 5.5	ctors ⁽³⁾ 5.5	9	1	1	LC2D09	0.78
With or Ev 2.2	mecha erlink 4 5.5	nical i BTR s 4 5.5	nterlo crew c 4 5.5	ck, wit connec 5.5 7.5	5.5 7.5	9 ⁽⁴⁾ 9 12	1 1	1	LC2D09••• LC2D12•••	0.78 0.79
With or Ev 2.2 3 4	mecha erlink 4 5.5 7.5	nical i BTR s 4 5.5 9	Anterlo crew c 4 5.5 9	ck, wit connec 5.5 7.5 10	5.5 7.5 10	9 9 12 18	1	1	LC2D09000 LC2D12000 LC2D18000	0.78 0.79 0.80
With or Ev 2.2	mecha erlink 4 5.5	nical i BTR s 4 5.5	nterlo crew c 4 5.5	ck, wit connec 5.5 7.5	5.5 7.5	9 ⁽⁴⁾ 9 12	1 1 1	1 1 1	LC2D09••• LC2D12•••	0.78
With or Ev 2.2 3 4 5.5	mecha erlink 4 5.5 7.5 11	binical i BTR s 4 5.5 9 11	nterlo crew c 4 5.5 9 11	ck, wit 5.5 7.5 10 15	5.5 7.5 10 15	9 12 18 25	1 1 1 1	1 1 1 1	LC2D09••• LC2D12••• LC2D18••• LC2D25•••	0.78 0.79 0.80 0.91
With or Ev 2.2 3 4 5.5 7.5	mecha erlink 4 5.5 7.5 11 15	nical i BTR s 4 5.5 9 11 15	nterlo crew c 4 5.5 9 11 15	ck, wit 5.5 7.5 10 15 18.5	5.5 7.5 10 15 18.5	9 12 18 25 32	1 1 1 1 1 1	1 1 1 1 1 1	LC2D09000 LC2D12000 LC2D18000 LC2D25000 LC2D32000	0.78 0.79 0.80 0.91 0.92
With or Ev 2.2 3 4 5.5 7.5 9	mecha erlink 4 5.5 7.5 11 15 18.5	inical i BTR s 4 5.5 9 11 15 18.5	Interloc 4 5.5 9 11 15 18.5	ck, wit 5.5 7.5 10 15 18.5 18.5	Ctors (3) 5.5 7.5 10 15 18.5 18.5	9 12 18 25 32 38	1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1	LC2D09000 LC2D12000 LC2D18000 LC2D25000 LC2D32000 LC2D38000	0.78 0.79 0.80 0.97 0.92 0.93
With or Ev 2.2 3 4 5.5 7.5 9 11	mecha erlink 4 5.5 7.5 11 15 18.5 18.5	nical i BTR s 4 5.5 9 11 15 18.5 22	Interloc 4 5.5 9 11 15 18.5 22	ck, wit connec 5.5 7.5 10 15 18.5 18.5 22	ctors (3) 5.5 7.5 10 15 18.5 18.5 30 30	9 12 18 25 32 38 40	1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1	LC2D09••• LC2D12••• LC2D18••• LC2D25••• LC2D32••• LC2D38••• LC2D40A••• ⁽³⁾	0.78 0.79 0.80 0.92 0.92 0.93 2.15

See pages B8/36	to B8/42.		XTX		
Coil voltage	codes				
AC/DC 24 V DC	supply				
Volts	24 (DC only)	24-60	48-130	100-250	
LC2D09D32, LC2D40A D80A	,00	A. T. T.			
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 B8/55. 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 B8/42).

(4) Electrical interlocking is recommended when 2 orders (direct and reverse) could appeared in the same time.



TeSys Control Deca Contactors for switching capacitors banks Product references



LC1DGK••, LC1DLK••, LC1DMK••



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:

			1		100						
	ctive pea at switc		X	LC1D	●K			200 In			
Maximu	um opera	ating rate	e s	LC1D	FK, DGK,	DLK, DMK		240 operating c	ycles/hour		
			1.40	LC1D	PK, DTK,	DWK		240 operating c	ycles/hour		
Electric	al durab	oility at	3.26	All cor	ntactor rat	ings	400 V	300 000 operat	ing cycles		
nomina	I load	N H	v_{22}				690 V				
	tional p 60 Hz ⁽¹⁾ °C ⁽²⁾	ower		Instan auxilia conta		Tightening torque on cable end	to be o by add	Basic reference, to be completed by adding the voltage code ^{(3) (4)}			
230 V	400 V 415 V	440 V	690 V		(
kVAR	kVAR	kVAR	kVAR	N/O	N/C	N.m			kg		
7	12.5	12.5	21	1	2	1.7	LC1DF	Kee	0.430		
9.5	16.7	16.7	28.5	1	2	2.5	LC1DG	iK●●	0.450		
11	20	21	33	1	2	2.5	LC1DL	Kee	0.600		
14	25	27	42	1	2	2.5	LC1DN	lK●●	0.630		
17	30	32	50	1	2	5	LC1DP	Kee	1.300		
22	40	43	67	1	2	5	LC1DT	Kee	1.300		
35	63	67	104	1	2	9	LC1DV	/K12●●	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 Office):

Volts	24	48	110	120	220	230	240	380	400	415	440
50/60 Hz	B7	E7	F7	G7	M7	P7	U7	Q7	V7	N7	R7

(4) Please check the availability of your variant in the index page B8/55. The SEARCH function of your viewer can be used.





Contactors



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



TeSys Control Deca Contactors - Auxilliary contact blocks **Product references**



LADN22



LAD8N11



LA1DX••, LA1DZ••

Instantaneous auxiliary contact blocks for connection by screw clamp terminals

For use in normal operation Clip-on mounting	Number of	Co	mnc	sitic	n		Reference	
Chp-on mounting	contacts per block					ł	Reference	
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		_	_	_	2	—	LAD8N20	
AC coil contactors only)		—	—	—	—	2	LAD8N02	
For terminal referencing	conforming to EN 50012							
Front on 3P contactors and	2	_	_	_	1	1	LADN11G	
4P contactors 20 to 80 A	4	_	_	_	2	2	LADN22G	
Front on 4P contactors	2	_	_	_	1	1	LADN11P	
125 to 200 A	4	_	_	_	2	2	LADN22P	
With dust and damp prot	ected contacts, for use in particu	larl	y ha	rsh	ind	ustria	l environment	ts
Front	2		2	_	_	_	LA1DX20	
	No. No.	<u>1</u>	1	_	_	_	LA1DX11	
		2	_	_	_	_	LA1DX02	
		_	2	2	_	_	LA1DY20 ⁽²⁾	
	4	_	2	_	2	_	LA1DZ40	
		_	2	_	1	1	LA1DZ31	

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	tors		Instantaneous auxiliary contacts				Time delay	
Туре	Type Number of poles and size		Side mounted	Side mounted		Front mounted		
					1 contact	2 contacts	4 contacts	mounted
AC	3P	LC1D09D38	1 on LH or 1 on RH side ⁽³	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)}	3P	LC1D09D38	-		_	1	_	_
	4P	LC1DT20DT40	-		_	1	_	_
(()) (() ()			(0) (0)					

(1) With red front face - for safety chain indication.

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

(3) 1 on LH side for AC coils - 1 on RH side for AC/DC coils.

(4) LC: low consumption.

(5) LA1D . dust & damp proof auxiliary contact blocks not allowed.



TeSys Control Deca Contactors - Time delay auxilliary contact blocks Product references



Time delay auxiliary contact blocks for connection by screw clamp terminals

Maximum number of auxiliary contact blocks that can be fitted per contactor, see page B8/36.

Sealing cover to be ordered separately, see page B8/42.

LADS2: with switching time of 40 ms ± 15 ms between opening of the N/C contact and closing of the N/O contact.

Clip-on mounting	Number	Time dela	У	Reference
	of contacts	Туре	Setting range	
Front	1 N/O + 1 N/C	On-delay	0.33 s	LADT0
			130 s	LADT2
			10…180 s	LADT4
			130 s	LADS2
		Off-delay	0.33 s	LADR0
			130 s	LADR2
			10180 s	LADR4

Time delay auxiliary contact blocks for connection by lugs

Add the figure 6 to the end of the references selected above. Example: LADT0 becomes LADT06.

Time delay auxiliary contact blocks for connection by spring terminals

Add the figure 3 to the end of the references selected above. Example: LADTO becomes LADT03.

Time delay auxiliary contact blocks for connection by Faston connectors

Add the figure 9 to the end of the references selected above. Example: LADTO becomes LADT09.

Mechani	Mechanical latch blocks (1)					
Clip-on mounting	Unlatching control	For use on contactor	Basic reference, to be completed by adding the control voltage code ^{(2) (3)}			
Front	Manual or electric	LC1D09D38 (\sim or $$) ⁽⁴⁾ LC1DT20DT40 (\sim or $$)	LAD6K10•			
		LC1D40AD80A (3 P \sim or $$) LC1DT60A and DT80A (4 P \sim or $$)	LAD6K10●			
		LC1D80D150 (3 P \sim) LC1D80 and D150 (3 P $$) LC1D80 (4 P \sim) LC1D80 and D115 (4 P \sim) LP1D80 and LC1D115 (4 P $$)	LA6DK20			
		LC1D40 and D65 (4 P ∼) LP1D40 and D65 (4 P)	LA6DK10•			

PB123772_R.eps 0 63

DB439401.eps



PB123803_R.ep

LADT•3

(1) The mechanical latch block must not be powered up at the same time as the contactor. The duration of the control signal for the mechanical latch block and the contactor should be:

≥ 100 ms for a contactor operating on an a.c. supply, \geq 250 ms for a contactor operating on a d.c. supply.

Maximum impulse duration for the LAD6K10 mechanical latch block: 10 seconds.



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

Volts 50/60 Hz,	24	32/36	42/48	60/72	100	110/127	220/240	256/277	380/415
Code	В	С	Е	EN	K	F	Μ	U	Q

(3) Please check the availability of your variant in the index page B8/55. The SEARCH function of your viewer can be used.

(4) The DC, low consumption contactors (coil code •L) are not compatible with the mechanical latch blocks LAD6K10.

Schneider Gelectric

Life Is On

Characteristics: pages B8/88 to B8/90	Dimensions: pages B8/94 to B8/97	Schemes: pages B8/101 to B8/102		
			Life Is On Schneider	B8/37

TeSys Control Deca Contactors - Suppressor modules Product references





LAD4RC3•, LAD4V3•, LAD4D3U, LAD4T3•



LA4DC3U

RC circuits (Resistor-Capacitor)

Effective protection for circuits highly sensitive to "high frequency" interference. For use only in cases where the voltage is virtually sinusoidal. i.e. less than 5 % total harmonic distortion. Voltage limited to 3 Uc max. and oscillating frequency limited to 400 Hz max. Slight increase in drop-out time (1.2 to 2 times the normal time).

	Туре V \sim	V	_
	$V \sim$	V	
	2448	_	LAD4RCE
	50127	_	LAD4RCG
	110250	_	LAD4RCU
	2448	_	LAD4RC3E
P)	50127	_	LAD4RC3G
	110240	_	LAD4RC3U
	380415	_	LAD4RC3N
	2448	_	LA4DA2E
	50127	_	LA4DA2G
	110240	_	LA4DA2U
-	P)	P) 50127 110240 380415 2448 50127	P) 50127 - 110240 - 380415 - 2448 - 50127 -

Varistors (peak limiting)

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).

Clip-on side mounting ^{(2) (3)}	D09D38 (3P)	2448 –	LAD4VE
	DT20DT40	50127 –	LAD4VG
		110250 –	LAD4VU
Clip-on front mounting ^{(2) (3)}	D40AD65A (3P)	2448 2448	LAD4V3E
	DT60ADT80A (4P)	50127 50127	LAD4V3G
		110250 110250	LAD4V3U
Screw fixing ⁽⁴⁾	D80D115 (3P) D80D115 (4P)	2448 –	LA4DE2E
		50127 –	LA4DE2G
		110250 –	LA4DE2U
	D80D95 (3P)	- 2448	LA4DE3E
	D80 (4P)	– 110250	LA4DE3U
and the second second			

Flywheel diodes

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

Folansed component.				
Clip-on side mounting ^{(3) (5)}	D09D38 (3P), DT20DT40	_	5600	LAD4DDL
Clip-on front mounting ⁽³⁾	D40AD65A (3P), DT60ADT80A (4P)	_	24250	LAD4D3U
Screw fixing (4)	D80 and D95 (3P), D40…D80 (4P)	-	24250	LA4DC3U

Bidirectional peak limiting diodes

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

Maximum reduction of transient voltage peaks.

Clip-on side mounting ⁽²⁾	D09D38 (3P)	D38 (3P) 24 –		LAD4TB
	DT20DT40 (4P) ⁽⁶⁾	_	24	LAD4TBDL
		72	_	LAD4TS
		_	72	LAD4TSDL
		_	125	LAD4TGDL
		_	250	LAD4TUDL
Clip-on front mounting (2)	D40A…D65A (3P) DT60A…DT80A (4P) ⁽⁶⁾	1224	1224	LAD4T3B
		2572	2572	LAD4T3S
		73125	73125	LAD4T3G
		126250	126250	LAD4T3U
		251440	251440	LAD4T3R
Screw fixing ⁽⁴⁾		_	24	LA4DB3B
		_	72	LA4DB3S

Contactors

DF537790



LAD4DDL or LAD4T•DL

(1) For satisfactory protection, a suppressor module must be fitted across the coil of each contactor except for Deca green (••E coil), as surge protection is already embedded.

- (2) Clipping-on makes the electrical connection. The overall size of the contactor remains unchanged.
- (3) In order to install these accessories, the existing suppression device must first be removed.
- (4) Mounting at the top of the contactor on coil terminals A1 and A2.
- (5) Not compatible with low consumption contactors.
- (6) From D09 to D65A and from LC1DT20 to DT80A, d.c, low consumption are fitted with a built-in bidirectional peak limiting diode suppressor as standard. This bidirectional peak limiting diode is removable and can therefore be replaced by the user. (See reference above).

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LAD4DDL





Contactors

See page opposite for mounting possibilities according to the contactor type.

(1) For Deca contactor with AC coil only.





LA4DT••



LA4DFB



LA4DBL



Electronic serial timer modules ⁽¹⁾

■ 3-pole contactors LC1D09 to D38: mounted using adapter LAD4BB, to be ordered separately, see below.

- 3-pole contactors LC1D40A to D65A: mounted using adapter LAD4BB3,
- to be ordered separately, see below.

■ 3-pole contactors LC1D80 to D150 and 4-pole contactors LC1D40 to D115: mounted directly across terminals A1 and A2 of the contactor.

On-delay type			
Operational voltage	\sim	Time delay	Reference
24250 V	100250 V	_	
LC1D09D80A (3P)	LC1D80D150 (3P)	0.12 s	LA4DT0U
		1.530 s	LA4DT2U
		25500 s	LA4DT4U

Interface modules

■ 3-pole contactors LC1D09 to D38: mounted using adapter LAD4BB,

to be ordered separately, see below.

■ 3-pole contactors LC1D40A to D80A: mounted using adapter LAD4BB3,

to be ordered separately, see below.

·					
Relay interface					
Operational voltage	\sim	Supply	Reference		
24250 V		voltage E1-E2 ()			
LC1D09D150 (3P)	0	24 V	LA4DFB		
Static relay interfa	ace				
Operational voltage	\sim	Supply	Reference		
24250 V 100250 V		⊂ voltage E1-E2 ()			
LC1D09D80A (3P)	LC1D80D115 (3P)	24 V	LA4DWB		
Adapter kit for low control signal					
For use on contactors	Composition		Reference		
LC1D40A…D80A (3P) ⁽²⁾	 1 LAD4BB3 coil wirin 1 LA4DFB relay inter 		LA4DBL		
Wiring adapte	rs for coil retrofi	t of 3 pole con	tactors		
For adapting exis	ting wiring to a new	product			
For use on contactors			Reference		
LC1D09D38	Without coil suppression	า	LAD4BB ⁽³⁾		
	With coil suppression	\sim 2448 V	LAD4BBVE		
		\sim 50127 V	LAD4BBVG		
		\sim 110250 V	LAD4BBVU		
LC1D40A80A	Without coil suppression	า	LAD4BB3		

(2) The kit is compatible with a coil voltage of \sim 24 V to \sim 250 V (B7 to U7) and = 24 V to = 250 V (BD to UD).

(3) LAD4BB can not be used with 4 poles contactors.

Characteristics:	D	imensions:	Schemes:
page B8/92	p	age B8/94	page B8/102
B8/40		hnaidan	
20/10	Life Is On Sc	bneider Electric	

Description

(1 connector)

terminal block

(2 connectors)

Connectors for

lug type terminals (2 connectors)

Protective covers

for connectors for lug type terminals

IP 20 covers for lug type

Connectors for cables

EverLink[®]

Connectors for cable, size



LA9D3260



LA9D11560



LA9D115503



LAD96570



LA9D11570•

PB121365.eps

terminals (for mounting with circuit breakers GV3 P••6 and GV3 Lee6) Links for 2 poles D09...D38 D09...D38 10 LA9D2561 parallel connection of DT32, DT40 (4P) DT32, DT40 (4P) 10 LAD96061 D40A...D80A D40A...D80A LAD9P32 1 D80, D95 2 LA9D80961 D80, D95 3 poles D09...D38 D09...D38 10 LAD9P3 (2) D40A...D80A D40A...D80A 1 LAD9P33 D80, D95 D80, D95 LA9D80962 1 4 poles DT20, DT25 DT20, DT25 2 LA9D1263 D80 D80 2 LA9D80963 Staggered coil connection D80 LA9D09966 10 _ Control circuit take-off D80, D95 D80, D95 10 LA9D8067 from main pole D115, D150 D115, D150 10 LA9D11567

LA9D80962



Spreaders for increasing the pole pitch to 45 mm

D115, D150 D115, D150 GV7AC03 3

(1) For 3-pole contactors: 1 set of 6 covers, for 4-pole contactors: 1 set of 8 covers.

Accessories for main pole and control connections

4-pole 10 mm²

3-pole 25 mm²

3-pole 120 mm²

4-pole 120 mm²

3-pole

3-pole

3-pole

4-pole

3 poles

For use with contactors LC1

DT20, DT25

D09...D38

D40A...D80A

D115, D150

D1156, D1506

D40A6...D80A6 1

D1156, D1506

D1156, D1506

D60A6...D80A6

D40A6...D80A6

D115

 \sim

DT20, DT25

D09...D38

D40A...D80A

D115, D150

D1156, D1506

D40A6...D80A6

D1156, D1506

D1156, D1506

D60A6...D80A6

D40A6...D80A6

D115

Sold in Unit

1

1

1

1

1

1

1 1

1

1

lots of reference

LAD92560

LA9D3260

LAD96560

LA9D115603

LA9D115604

LA9D115503

LAD96570

LA9D115703 ⁽¹⁾

LAD96580

LAD96575

LA9D115704

(2) Separate connecting bar for connecting 2 poles in parallel.



Control Panel Technical Guide:

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TeSys Control Deca Contactors - Accessories

Product references





GV1G09







LAD9ET1S



LAD21...22



LAD90

Description	For contactor		Reference
Sets of contacts	3-pole	LC1D115	LA5D1158031
		LC1D150	LA5D150803
	4-pole	LC1D115004	LA5D115804
Arc chambers	3-pole	LC1D115	LA5D11550
Power connection	accessories		
Terminal block	For supply to one or more GV2G busbar sets		GV1G09
Set of 63 A busbars	2 contactors LC1D09D18 or D25D38		GV2G245
for parallelling of contactors	4 contactors LC1D09D18 or D25D38		GV2G445
Set of 115 A busbars	2 contactors LC1D40AD	80A	GV3G264
for parallelling of contactors	3 contactors LC1D40AD80A		GV3G364 ⁽¹⁾
Set of S-shape busbars	For circuit breakers GV3Pe and contactors LC1D40A		GV3S

Protection accessories				
Description	Use	Sold in lots of	Reference	
Sealing cover	For LADT, LADR	1	LA9D901	
Safety cover preventing access to the moving contact carrier	LC1D09D80A and DT20DT80A	1	LAD9ET1	
	Red cover (for safety chain indication)	1	LAD9ET1S	
	Red cover (for safety chain indication)	<u>_1</u>	LAD9ET3S	
	LC1D115 and D150	1	LAD9ET4	
	Red cover (for safety chain indication)	1	LAD9ET4S	

Marking accessories			
Description	Use	Sold in lots of	Unit reference
Sheet of 64 blank legends, self-adhesive, 8 x 33 mm ⁽²⁾	Contactors (except 4P) LC1D80D115, LADN (4 contacts), LA6DK	10	LAD21
Sheet of 112 blank legends, self-adhesive, 8 x 12 mm ⁽²⁾	LADN (2 contacts), LADT, LADR, LRD	10	LAD22
Marker holder snap-in, 8 x 22 mm	4-pole contactors, LC1D80D115, LA6DK	100	LA9D92
Marker holder snap-in, 8 x 18 mm	LC1D09D65A, LC1DT20DT80A, LADN (4 contacts), LADT, LADR	100	LAD90
Bag of 300 blank legends self-adhesive, 7 x 21 mm	On holder LA9D92	1	LA9D93

Mounting accessories				
Retrofit plate for screw fixing	For replacement of LC1D40 to D80 with LC1D40A to D80) 1	LAD7X3	
Mounting plate	For replacement of LC1F115 or F1 with LC1D115 or D150	50 1	LA9D730	
Size 4 Allen key, insulated, 1000 V	For use on contactors LC1D40A to LC1D150	5	LADALLEN4	

(1) With this set of busbars, any one contactor can be supplied directly by its EverLink[®] double cage power terminal block. The other two contactors are supplied by the busbar set. The 115 A limitation is therefore applied to these two contactors. Example: 1 LC1D65A supplied directly + 1 contactor LC1D65A and 1 contactor LC1D50A supplied via the busbar set =

LAD7X3

- 115 A. This combination is compatible with busbar set GV3G364.
- (2) These legends are for sticking onto the safety cover of the contactors or add-on block, if fitted.
- (3) With 73 A current limit for GV3L73, GV3P73.



TeSys Control Deca Contactors - Assembly kits Product references





LAD9R3







LAD91217 **Discover in video**



LAD91218

Discover in video

For 3-pole reversing conta	
For 3-noie reversing cont	actors for motor control

Contactors with screw clamp terminals or connectors. Horizontally mounted, assembled by customer. Description For contactors (1) Reference (2 identical contactors) Kite for acc

Kits for assembly of reversing contactors		
 Kit comprising: a mechanical interlock LAD9V2 with electrical interlocking LAD9V1 a set of power connections LAD9V5 (parallel) and LAD9V6 (reversing). 	LC1D09 to D38	LAD9R1V
 Kit comprising: a mechanical interlock LAD9V2 without electrical interlocking a set of power connections LAD9V5 (parallel) and LAD9V6 (reversing). 	LC1D09 to D38	LAD9R1
 Kit comprising: a mechanical interlock LAD4CM a set of power connections LA9D65A69. 	LC1D40A to D80A	LAD9R3
Mechanical interlocks		
Mechanical interlock with	LC1D80 and D95 (\sim)	LA9D4002
integral electrical interlocking	LC1D80 and D95 ()	LA9D8002
	LC1D115 and D150	LA9D11502
Mechanical interlock without	LC1D09 to D38	LAD9V2
integral electrical interlocking	LC1D40A to D80A	LAD4CM
	LC1D80 and D95 (\sim)	LA9D50978
	LC1D80 and D95 ()	LA9D80978
Sets of power connections		
Comprising: ■ a set of parallel bars	LC1D09 to D38 with screw clamp terminals or connectors	LAD9V5 + LAD9V6
■ a set of reverser bars.	LC1D09D32 with spring terminal connections	LAD9V12 + LAD9V13 ⁽²⁾
	LC1D40A to D80A	LA9D65A69
	LC1D80 and D95 (\sim)	LA9D8069
	LC1D80 and D95 ()	LA9D8069
	LC1D115 and D150	LA9D11569

For star-delta starter			
Description	For contactors	Reference	Without timer LADS2
 Mounting kit comprising: 1 time delay contact block LADS2 (LC1D09D80), power circuit connections (LC1D09D80), hardware required for fixing the contactors onto the mounting plate (LC1D80). 	LC1D09 to D38 (3)	LAD91217	LAD91218
	LC1D25 to D38 (4)	LAD93217	LAD93218
	LC1D40A to D80A	LAD9SD3	-
	LC1D80	LA9D8017	-
Equipment mounting plates	LC1D09 to D38	LA9D12974	
	LC1D40A to D80A	-	
	LC1D80	LA9D80973	

(1) To order the 2 contactors: see pages B8/23 and B8/29.

(2) To assemble a reversing contactor with spring terminal connections, the following components must be ordered: - 1 mechanical interlock LAD9V2,

- 1 upstream power connection kit and 1 downstream power connection kit.

Downstream power connection kit LAD9V11: installed in the Quickfit system with outgoing terminal block LAD331. (If LAD331 is not used, replace LAD9V11 with LAD9V13).

(3) For assembly of 3 contactors of the same physical size (depth).

(4) For assembly of Main + Delta contactors LC1D25 to LC1D38 with Star contactor LC1D09 to LC1D18.





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.





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Dimensions:	Schemes:
pages B8/103 and B8/104	pages B8/105 and B8/106



Upstream power connection kit LAD9V10: installed in the Quickfit system with power connection module LAD341. (If module LAD341 is not used, replace LAD9V10 with LAD9V12).

TeSys Control Deca Contactors - Assembly kits Product references



Contactors with screw clamp terminals or connectors. Description	For contactors ⁽¹⁾	Reference
	(2 identical contactors)	
Kits for assembly of changeover contactor pairs		
Kit comprising: ■ a mechanical interlock LAD9V2 with electrical interlocking LAD9V1, ■ a set of power connections (changeover) LAD9V7.	LC1DT20 to DT40 with screw clamps or connectors	LADT9R1V

For 4-pole changeover contactor pairs (3-phase distribution + neutral)

LADT9R1V

 Kit comprising: a mechanical interlock LAD9V2 without electrical interlocking, a set of power connections (changeover) LAD9V7. 	LC1DT20 to DT40 with screw clamps or connectors	LADT9R1
Mechanical interlocks		
With integral	LC1D80004	LA9D4002
electrical interlocking	LP1D80004	LA9D8002
	LC1D115004	LA9D11502
Without integral electrical interlocking	LC1DT20 to DT40 with screw clamps or connectors	LAD9V2 ⁽²⁾
	LC1DT203 to DT403 with spring terminals	LAD9V2 ⁽²⁾
	LC1DT60A and DT80A	LAD4CM
	LC1D80004	LA9D50978
	LP1D80004	LA9D80978
Sets of power connections		
Comprising a set of parallel bars	LC1D80004	LA9D8070
	LP1D80004	LA9D8070
	LC1D115004	LA9D11570
	LC1D80004	LA9D8070 ⁽²⁾
	LP1D80004	LA9D8070 ⁽²⁾

LA9D50978	
	ñadă



			actor pairs
LEOR S-R	nole chan	deover cont	actor haire

For S-pole changeover contactor pair	ſS	
Contactors with screw clamp terminals or connected	ors. Horizontally mounted, asse	mbled by customer.
Description	For contactors ⁽¹⁾ (2 identical contactors)	Reference
Kits for assembly of changeover contactor pa	irs	
Kit comprising: ■ a mechanical interlock LAD4CM ■ a set of parallel bars LA9D65A6	LC1D40AD80A	LAD9R3S
Mechanical interlocks		
Without integral electrical interlocking	LC1D40AD80A	LAD4CM
With integral electrical interlocking	LC1D115 and D150	LA9D11502
Sets of power connections		
Comprising a set of parallel bars	LC1D40AD80A	LA9D65A6

PB121382

LAD9R3S

and D150

LA9D11571

(1) To order the 2 contactors: see pages B8/23 and B8/29.

(2) Order 2 contact blocks LADN•1 to build the electrical interlock, see page B8/36.



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.





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Dimensions:		Schemes:	
pages B8/103 and B8/104		pages B8/105 and B8/106	
B8/44	Life Is On	Schneider Electric	



LXD1••

a.c coils for \sim contactors LC1D09...D38 and LC1DT20...DT40

Specifications

Average consumption at 20 °C:

■ inrush (cos φ = 0.75) 70 VA,

■ sealed (cos φ = 0.3) 50 Hz: 7 VA, 60 Hz: 7.5 VA.

Operating range (θ ≤ 60 °C): 50 Hz: 0.8...1.1 Uc, 60 Hz: 0.85...1.1 Uc.

Control circuit voltage Uc	Average resistance at 20 °C ±10 %	e 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

Contactors

690	5020	180	LXD1Y7	
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(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 B8/82 and B8/84).

(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 B8/82 and B8/84).





a.c coils for \sim contactors LC1D40A...D80A, LC1DT60A and LC1DT80A

Specifications

- Average consumption at 20 °C:
- inrush (cos φ = 0.75) 160 VA,
- sealed (cos ϕ = 0.3) 50 Hz: 15 VA, 60 Hz: 15 VA.

Operating range (θ ≤ 60 °C): 50 Hz: 0.8...1.1 Uc, 60 Hz: 0.85...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
24	1.98	0.12	LXD3B7
42	6.18	0.37	LXD3D7
48	7.97	0.48	LXD3E7
110	42.28	2.50	LXD3F7
115	48.76	2.74	LXD3FE7
120	37.63	2.07	LXD3G7 ⁽²⁾
208	105	6.22	LXD3LE7 ⁽²⁾
220	182	10	LXD3M7 ⁽³⁾
230	192	10.9	LXD3P7
240	202	11.9	LXD3U7
380	512	29.9	LXD3Q7 ⁽⁴⁾
400	607	33.1	LXD3V7
415	635	35.6	LXD3N7
440	682	40.1	LXD3R7
480	607	33.1	LXD3T7 ⁽²⁾
575	1238	68.4	LXD3SC7
600	1304	74.5	LXD3X7

(1) The last 2 digits in the reference represent the voltage code.

(2) This coil can only be used 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 page B8/82 and B8/84).

(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 page B8/82 and B8/84).





LX1D6••

a.c coils for 3 or 4-pole contactors LC1D40, D50, D65, D80, D95

Specifications

Average consumption at 20 °C:

■ inrush (cos φ = 0.75) 50 Hz: 200 VA, 60 Hz: 220 VA

■ sealed (cos φ = 0.3) 50 Hz: 20 VA, 60 Hz: 22 VA.

Operating range ($\theta \le 55$ °C): 0.85...1.1 Uc.

Control circuit voltage Uc	Average resistance at 20°C ±10 %	Inductance of closed circuit	Reference (1)	Average resistance at 20 °C ±10 %	Inductance of closed circuit	Reference
V	Ω	Н		Ω	Н	
			50 Hz			60 Hz
24	1.4	0.09	LX1D6B5	1.05	0.06	LX1D6B6
110	31	1.9	LX1D6F5	22	1.2	
115	31	1.9	LX1D6FE5	_	_	_
208	_	_	-	86	4.3	LX1D6L6
220	_	_	-	98	4.8	LX1D6M6
220/230	127	7.5	LX1D6M5	_	_	_
240	152	8.7	LX1D6U5	120	5.7	LX1D6U6
380	_	_	_	300	14	LX1D6Q6
440	513	30	LX1D6R5	392	19	
480	_	-	_	480	23	LX1D6T6

Specifications

Average consumption at 20 °C:

■ inrush (cos φ = 0.75) 50/60 Hz: 245 VA at 50 Hz

sealed (cos φ= 0.3) 50/60 Hz: 26 VA at 50 Hz.

Operating range ($\theta \le 55$ °C): 0.85...1.1 Uc.

						50/60 Hz
24	2 × - V	_	—	1.22	0.08	LX1D6B7
48	- 10 ¹	_	—	5	0.32	LX1D6E7
110	—	—	—	26	1.7	LX1D6F7
120	_	_	—	32	2	LX1D6G7
220/23	30 ⁽²⁾ —	_	—	102	6.7	LX1D6M7
230	—	—	—	115	7.7	LX1D6P7
230/24	40 ⁽³⁾ —	—	—	131	8.3	LX1D6U7
380/40)0 (4) —	_	—	310	20	LX1D6Q7
400	_	_	—	349	23	LX1D6V7
415	_	_	_	390	24	LX1D6N7
440	_	_	_	410	27	LX1D6R7

(1) The last 2 digits in the reference represent the voltage code.

(2) For use on 230 V / 50 Hz, apply a coefficient of 0.6 to the mechanical durability of the contactor, see page B8/82 and B8/84. This coil can be used on 240 V at 60 Hz.

(3) This coil can be used on 220/240 V at 50 Hz and on 240 V only at 60 Hz.

(4) For use on 400 V / 50 Hz, apply a coefficient of 0.6 to the mechanical durability of the contactor, see page B8/82 and B8/84.





LX1D8••

a.c coils for 3 or 4-pole contactors LC1D115

Specifications

Average consumption at 20 °C:

■ inrush ($\cos \phi = 0.8$) 50 or 60 Hz: 300 VA

■ sealed ($\cos \phi = 0.3$) 50 or 60 Hz: 22 VA.

Operating range ($\theta \le 55$ °C): 0.85...1.1 Uc.

Control circuit voltage Uc	Average resistance at 20 °C ±10 %	Inductance of closed circuit	Reference (1)	Average resistance at 20 °C ±10 %	Inductance of closed circuit	Reference (1)
V	Ω	Н		Ω	Н	
			50 Hz			60 Hz
24	_	_	_	0.87	0.07	LX1D8B6
32	2.14	0.17	LX1D8C5	_	_	_
42	3.91	0.28	LX1D8D5	_	_	_
48	_	_	_	3.91	0.28	LX1D8E6
127	32.75	2.44	LX1D8FC5	_	_	_
208	_	_	_	67.92	5.06	LX1D8L6
220	104.77	7.65	LX1D8M5	_	_	-
380	338.51	22.26	LX1D8Q5	243.07	17.04	LX1D8Q6
440	441.56	30.34	LX1D8R5	338.51	22.26	LX1D8R6
500	566.62	38.12	LX1D8S5	_	_	_

a.c coils for 3 or 4-pole contactors LC1D115, LC1D150

Specifications

Average consumption at 20 °C:

■ inrush: cos φ = 0.9 - 280 to 350 VA

■ sealed: cos φ = 0.9 - 2 to 18 VA.

Operating range ($\theta \le 55$ °C): 0.8...1.15 Uc.

Coils with integral suppression device fitted as standard, class B.

Control circuit voltage Uc	Average resistance at 20 °C ±10 %		Reference	Average resistance at 20 °C ±10 %	Inductance of closed circuit	Reference
V	Ω	н		Ω	н	
						50/60 Hz
24	_	-	_	147	3.03	LX1D8B7
32	-	-	-	301	8.28	LX1D8C7
48	_	_	_	1061	24.19	LX1D8E7
110	_	_	_	4377	109.69	LX1D8F7
115	_	_	_	4377	109.69	LX1D8FE7
120	_	_	_	4377	109.69	LX1D8G7
208	-	-	-	10 895	260.15	LX1D8LE7
220	_	_	_	9895	210.72	LX1D8M7
230	_	_	_	9895	210.72	LX1D8P7
240	_	_	_	9895	210.72	LX1D8U7
277	_	_	_	21 988	533.17	LX1D8UE7
380	_	_	_	21 011	482.42	LX1D8Q7
400	_	_	_	21 011	482.42	LX1D8V7
445				04.044	100.10	

415	_	—	—	21 011	482.42	LX1D8N7	
440	—	—	_	21 501	507.47	LX1D8R7	
480	—	—	_	32 249	938.41	LX1D8T7	

(1) The last 2 digits in the reference represent the voltage code.



d.c. coils for 3-pole contactors LC1D80 or 4-pole contactors LP1D80

Specifications

Average consumption: 22 W. Operating range: 0.85...1.1 Uc.

Control circuit voltage Uc	Average resistance at 20 °C ± 10%	Inductance of closed circuit	Reference ⁽¹⁾	Weight
V	Ω	Н		kg
12	6.6	0.46	LX4D7JD	0.680
24	27	1.89	LX4D7BD	0.680



(1) The last 2 digits in the reference represent the voltage code.

LX4D7JD





d.c. coils for contactors LC1D115, D150

Specifications

Consumption: inrush 270 to 365 W, sealed 2.4 to 5.1 W. Operating range: 0.75...1.2 Uc. Coils with integral suppression device fitted as standard, class B.



Control circuit voltage Uc	Average resistance at 20 °C ± 10 %	Inductance of closed circuit	Reference (1)	Weight
V	Ω	н		kg
24	147	3.03	LX4D8BD	0.300
60	1673	38.44	LX4D8ND	0.300
220	9895	210.72	LX4D8MD	0.300
250	18 022	345.40	LX4D8UD	0.300

(1) The last 2 digits in the reference represent the voltage code.

LX4D8•D



