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



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



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

Auxiliary contact blocks – accessories – spare coils for TeSys Deca



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

T 0 D		
TeSys Deca contactors		
AC-3/AC-3e, AC-1, UL CSA applications- TeSys Deca green contactors (with AC/DC compatible coil)	From 9 to 80 A	B8/16
AC-3/AC-3e applications - 3-pole, 4-pole TeSys Deca contactors	From 9 to 150 A	B8/22
AC-1 applications - 3-pole, 4-pole TeSys Deca contactors	From 25 to 200 A	B8/23
UL CSA application - 3-pole TeSys Deca contactors	From 25 to 200 A	B8/28
Reversing, changeover pre-assembled TeSys Deca contactors	From 9 to 150 A	B8/29
Reversing contactors TeSys Deca green contactors (with AC/DC compatible coil)	From 9 to 80 A	B8/33
Contactors 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	· · · · · · · · · · · · · · · · · · ·	B8/52
Modular Impulse relay	Up to 16 A	on one	B8/53
Auxiliary contact blocks - accessories			B8/54
Taskwiss I Data for Designans			DOICA

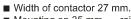
Technical Data for Designers

B8/6

B8/36

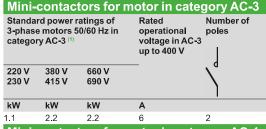
TeSys Control **SK Contactors**

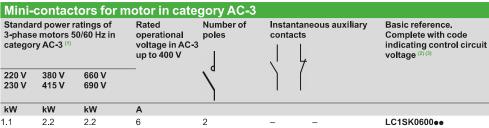
Product references



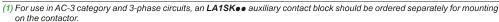
- Mounting on 35 mm rail.
- Screw clamp terminals.

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





1.1	2.2 2.	.2	6	2	_	-	LC1SK0600●●
Min	i-contactor	s for m	otor in cate	gory AC-1			
curre (θ ≤ 5	ent		Control circuit supply	Number of poles	Instantan auxiliary		Basic reference. Complete with code indicating control circuit voltage ^{(2) (3)}
Α							
12			a.c.	2	_	_	LC1SK0600●●
			d.c.	2	_	_	LP1SK0600●●
(1) For	ruse in AC-3 cate	gory and 3	-nhase circuits, a	n I A1SKaa auxii	liary contact	hlock should be or	dered senarately for mounting



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

Mini-contactors LC1SK									
Volts \sim 50/60 Hz	24	48	110	120	220	230	240	380	400
Code	В7	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 (for 3-phase of For use on contactor	Number of	Instantaneous	Reference
LC1SK0600	poles	auxiliary contacts	Reference
with 1 NO power pole (6 A AC-3, 10 A AC-1) and with 1 NC aux. contact (Ith 10 A). Ue 690 V AC 50/60 Hz for both contacts	1	\ \ \	
Clip-on front mounting	1	- 1	LA1SK01

-				
Instantaneous a	auxiliary co	ontact blocks		
For use on contactor LC1SK0600 •• Aux. contacts: Ith 10 A.	Maximum number of blocks per contactor	Composition	Reference	

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

Coil suppressor	modules			
Clip-on fixing and e	lectrical conn	ection on right-hand side	, without use of too	ols
For use on contactors	Туре	For voltages	Sold in lots of	Unit reference
LC1SK0600●●	Varistor (1)	\sim and == 24 V48 V	10	LA4SKE1E
LP1SK0600●•,		\sim and == 110 V250 V	10	LA4SKE1U
LC1SKGC	Diode (2)	- 24 V 250 V	10	LA4SKC1II











Contactors



LA4SKe1e

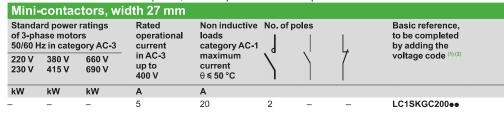
(1) Protection provided by limiting the transient voltage to 2 Uc max. Maximum reduction of transient voltage peaks. Slight increase in drop-out time (1.1 to 1.5 times the normal time).
(2) No overvoltage or oscillating frequency.
Slight increase in drop-out time (1.1 to 1.5 times the normal time).

TeSys Control SKGC Contactors

Product references

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

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





LC1SKGC200

LC1SKGC300

Standard power ratings of 3-phase motors 50/60 Hz in category AC-3		Rated operational current	loads category AC-1	gory 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	1		7	voltage code (1) (2)
kW	kW	kW	Α	Α				
.1	4	4	9	20	3	1	-	LC1SKGC310●●
					3	_	1	LC1SKGC301ee



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



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



Contactors

Product references



LC1K0910 ..



LC1K09103.











Contactors

LC1K09107 • •



LC1K09105 ...



LC7K0910 ..

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

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

3-pol	e conta	actors - N	Motor control 6 t	o 16	A in cate	gories AC-3, AC-3e, AC-4 - a.c. coil
Standard power ratings of 3-phase motors 50-60 Hz in category AC-3/AC-3e			Rated operational current in category AC-3/AC-3e 440 V up to		tantaneous kiliary contacts 	Basic reference, to be completed by adding the voltage code
220 V 230 V	380 V 415 V	440 V 690 V	-		l	
kW	kW	kW	Α			
Screw	clamp c	onnection	s			
1.5	2.2	3	6	1	-	LC1K0610●●
				-	1	LC1K0601●●
2.2	4	4	9	1	-	LC1K0910●●
				-	1	LC1K0901••
3	5.5	4 (> 440)	12	1	-	LC1K1210●●
		5.5 (440)		-	1	LC1K1201●●
4	7.5	4 (> 440)	16	1	-	LC1K1610••
		5.5 (440)		-	1	LC1K1601ee

Spring terminal connections (3)

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

Faston connectors, 1 x 6.35 or 2 x 2.8

For 6 to 16 A ratings, in the references selected above, insert a figure 7 before the voltage code. Example: LC1K0610 • becomes LC1K06107 • •.

Solder pins for printed circuit boards

For 6 to 16 A ratings, in the references selected above, insert a figure 5 before the voltage code. Example: LC1K0610 • becomes LC1K06105 • •.

3-pole silent contactors

Recommended for use in areas sensitive to noise, high interference mains supplies, etc. Coil with rectifier incorporated, suppressor fitted as standard.

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

Faston connectors, 1 x 6.35 or 2 x 2.8

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

Example: LC7K0610 • becomes LC7K06107 • •.

Solder pins for printed circuit boards

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

Example: LC7K0610 • becomes LC7K06105 • .

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

Coll voltage codes - a.c. (*)
Contactors LC1K (0.81.15 Uc) (0.851.1 Uc)

Volts	12	20	24 (1)	36	42	48	110	115	120	127	200/20	8	220/230	230	230/240
50 Hz (5)			B5		D5	E5								P5	
50/60 Hz	J7	Z 7	B7	C7	D7	E7	F7	FE7	G7	FC7	L7		M7	P7	U7
Volts	256	277	380/40	0	400	400/	415	440	480	500	575	600	660/690		
50/60 Hz	W7	UE7	Q7	_	V7	N7		R7	T7	S7	SC7	X7	Y7	-	-

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

Contactor	S LC/K (0.05.	1.1 00)						
Volts	24	42	48	110	115	220	230/240	
50/60 Hz	B7	D7	F7	F7	FF7	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 = 16 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.

			Δ4
Characteristics:	Dimensions:	Schemes:	Click HERE for access
pages B8/72 to B8/74	page B8/76	page B8/77	to online contactor selector

Product references



LP1K0910 ••



LP1K09103..

Contactor selection according to utilisation category, see pages A5/52 to A5/57 and A5/60 to A5/63.

Mounting on 35 mm - rail or Ø4 screw fixing.

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

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

3-ро	le cont	actors - N	Motor control 6 to	o 12 /	4 in c	ategories AC-3, AC-3e, AC-4 - d.c. coil
3-phas	ard power se motors gory AC-		Rated operational current in category AC-3/AC-3e 440 V up to	Insta taned auxil conta	ous iary	Basic reference, to be completed by adding the voltage code
220 V 230 V	380 V 415 V	440 V 690 V	•	1 1		
kW	kW	kW	A			
Screv	v clamp	connection	S			
1.5	2.2	3	6	1	_	LP1K0610●●
				-	1	LP1K0601●●
2.2	4	4	9	1	_	LP1K0910●●
				_	1	LP1K0901●●
3	5.5	4 (> 440)	12	1	_	LP1K1210●●
		5.5 (440)		_	1	LP1K1201●●
Comin	4 !	-1	(3)			

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

Example: LP1K0610 • becomes LP1K06103 • •.

Faston connectors, 1 x 6.35 or 2 x 2.8

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

Example: LP1K0610 • becomes LP1K06107 • •.

Solder pins for printed circuit boards

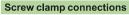
In the references selected above, insert a figure 5 before the voltage code.

Example: LP1K0610 • becomes LP1K06105 • .

3-pole low consumption contactors

Compatible with programmable controller outputs.

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



1.5	2.2	3	6	1	_	LP4K0610●●
				_	1	LP4K0601●●
2.2	4	4	9	1	_	LP4K0910●●
				_	1	LP4K0901●●
3	5.5	4 (> 440)	12	1	_	LP4K1210●●
		5.5 (440)		-	1	LP4K1201●●



LP1K09105 ..



LP4K0910 • •

Spring terminal connections

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

Example: LP4K0610 • becomes LP4K06103 • •.

Faston connectors, 1 x 6.35 or 2 x 2.8

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

Example: LP4K0610 • becomes LP4K06107 • •.

Solder pins for printed circuit boards

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

Example: LP4K0610 • becomes LP4K06105 • •.

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

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

48 Volts 24 (1) 36 60 12 100 110 230 240 250 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	nsumptio	n (contactor	s LP4K: 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.

- (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 LC•K••••3 / LP•K••••3 with spring terminal), Ith max = 16 A.

Schneider

Contactors

Product references



LC1K09004.



LC1K09103..







Contactors



LC1K09107.



LC7K0910 ..

Contactor selection according to utilisation category, see pages A5/58 and A5/59.

Mounting on 35 mm - rail or Ø4 screw fixing.

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

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

3 or 4-pole contac	tors	s - Load	d cont	rol up to 2	20 A in category AC-1 - a.c. coil ⁽¹⁾
Non-inductive loads Category AC-1 Maximum current at $\theta \le 50$ °C		nber poles		intaneous liary contacts	Basic reference, to be completed by adding the voltage code ⁽²⁾ (³⁾
Α					
Screw clamp connecti	ons				
20	3	-	1	_	LC1K0910●●
				OI	r LC1K1210●●
	3	-	_	1	LC1K0901●●
				OI	r LC1K1201●●
	4	-	_	_	LC1K09004●●
				OI	LC1K12004●●
	2	2	_	_	LC1K09008●●

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.

Con With Footings into	poratoa	i, cappi	30001 111	iou uo o	ranaa a
Screw clamp conne	ctions				
20	3	-	1	-	LC7K0910●●
					or LC7K1210●●
	3	-	-	1	LC7K0901●●
					or LC7K1201●●
	4	_	-	-	LC7K09004●●
					or LC7K12004●●
	2	2	_	_	LC7K09008●●

Faston connectors, 1 x 6.35 or 2 x 2.8

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

Example: LC7K0910 • becomes LC7K09107 • •.

Solder pins for printed circuit boards

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

Example: LC7K0910 • becomes LC7K09105 • •

(1) Coordination tables between 9 and 12 A ratings according to number of operating cycles, see AC-1 curve on page A5/58.

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

Coil voltage codes - a.c. (5)

Contactor	SLUIN	(0.01.	15 (00) (0	.001	. 1 00)										
Volts	12	20	24 ⁽²⁾	36	42	48	110	115	120	127	200/20	В	220/230	230	230/240
50 Hz (6)			B5		D5	E5								P5	
50/60 Hz	J7	Z 7	B7	C7	D7	E7	F7	FE7	G7	FC7	L7		M7	P7	U7
Volts	256	277	380/40	0	400	400/	415	440	480	500	575	600	660/690		
50/60 Hz	W7	UE7	Q7		V7	N7		R7	T7	S7	SC7	X7	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•K••••3 / LP•K••••3 with spring terminal, Ith max = 16 A.
- (5) (0.8...1.15 Uc) for single voltage coil; (0.85...1.1 Uc) for dual voltage coil, exemple 200/208 V AC. (6) Only available for 'screw clamp terminals' versions.

LP1K09004 • •

LP1K09103 ..

LP1K09105 • •

LP4K0910 • •

Product references

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

Add-on auxiliary contact blocks and accessories, see pages B8/13 to B8/15. 3 and 4-pole contactors - Load control - 20 A in category AC-1 - d.c. coil (1) Non-inductive loads

Maximum current at

Category AC-1

θ **≤ 50** °C

Number of poles

Mounting on 35 mm - rail or Ø4 screw fixing.

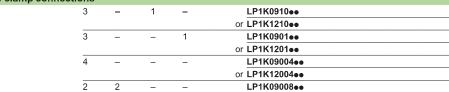
Instantaneous auxiliary contacts

Contactor selection according to utilisation category, see pages A5/58 and A5/59.

Basic reference, to be completed by adding

the voltage code

Screw clamp connections



Spring terminal connections (4)

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

Example: LP1K0910 • becomes LP1K09103 • •.

Faston connectors, 1 x 6.35 or 2 x 2.8

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

Example: LP1K0910 • becomes LP1K09107 • •.

Solder pins for printed circuit boards

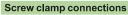
In the references selected above, insert a figure 5 before the voltage code.

Example: LP1K0910 • becomes LP1K09105 • .

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

Compatible with programmable controller outputs.

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



LP4K0910 ••• or LP4K1210 ••• 3 LP4K0901 1 or **LP4K1201**•••

LP4K09004 or LP4K12004 • • • 2 2 LP4K09008 • • •

Spring terminal connections

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

Example: LP4K0910 becomes LP4K09103 .

Faston connectors, 1 x 6.35 or 2 x 2.8

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

Example: LP4K0910 •• becomes LP4K09107 ••.

Solder pins for printed circuit boards

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

Example: LP4K0910 • becomes LP4K09105 • •.

(1) Coordination tables between 9 and 12 A ratings according to number of operating cycles, see AC-1 curve on page A5/58.

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

OOH VOI	uge c	oucs	- u.c. (COLLE	101013	LI 113	. 0.0	1.10	,,,								
Volts 	12	20	24 (2)	36	48	60	72	100	110	125	155	174	200	220	230	240	250
Code	JD	ZD	BD	CD	ED	ND	SD	KD	FD	GD	PD	QD	LD	MD	MPD	MUD	UD

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

Coil vol	tage cod	es - low con	sumption (d.c. (contac	tors LP4K: ().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 = 16 A.

Schneider

TeSys Control K Reversing contactors

Product references

Reversing contactor selection according to utilisation category, see pages A5/52 to A5/57 and A5/60 to A5/63. Integral mechanical interlock.

3-pole reversing contactors - Motor control 6 to 16 A in categories AC-3, AC-3e,

Instantaneous

per contactor

1

auxiliary contacts

Basic reference,

LC2K0610 ••

LC2K0601●●

LC2K0910 ... LC2K0901 ••

LC2K1210 • •

LC2K1201ee

LC2K1610 ...

LC2K1601 ••

the voltage code (1)

to be completed by adding

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.

Rated operational

current in category AC-3/AC-3e 440 V

up to

Α

6

9

12



LC2K0910 ••



LC2K09105 • •









220 V

230 V

kW

1.5

22

3

5.5 (440) 4 (> 440) 16

Spring terminal connections (3)

4 (> 440)

5 5 (440)

4

AC-4 - a.c. coil

Standard power ratings

in category AC-3/AC-3e

380 V

415 V

Screw clamp connections

kW

22

4

5.5

of 3-phase motors 50/60 Hz

440 V

kW

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

Example: LC2K0610 becomes LC2K06103 .

Faston connectors, 1 x 6.35 or 2 x 2.8

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

Example: LC2K0610 •• becomes LC2K06107 ••.

Solder pins for printed circuit boards

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

Example: LC2K0610 • becomes LC2K06105 • .

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

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

Volts	12	20	24 (1)	36	42	48	110	115	120	127	200/2	80	220/230	230	230/240
50/60 Hz	J7	Z 7	B7	C7	D7	E7	F7	FE7	G7	FC7	L7		M7	P7	U7
Volts	256	277	380/40	00	400	400/	415	440	480	500	575	600	660/690		
50/60 Hz	W7	UE7	Q7		V7	N7		R7	T7	S7	SC7	X7	Y7		

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

- (1) For mains supplies with a high level of interference (voltage surge > 800 V), use a suppressor module LA4KE1FC (50...129 V) or LA4KE1UG (130...250 V), see page B8/14.
- (2) Please check the availability of your variant in the index page B8/55. The SEARCH function of your viewer can be used.
- (3) For LC•K••••3 / LP•K••••3 with spring terminal, Ith max = 16 A.
- (4) (0.8...1.15 Uc) for single voltage coil; (0.85...1.1 Uc) for dual voltage coil, exemple 200/208 V AC.



Schneider Belectric

Reversing contactor selection according to utilisation category, see pages A5/52 to A5/57 and A5/60 to A5/63. Integral mechanical interlock.

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

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

Mounting on 35 mm - rail or Ø4 screw fixing.

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

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

3-pole reversing contactors - Motor control 6 to 12 A in categories AC-3, AC-3e, AC-4 - d.c. coil Rated operational Instan-Standard power ratings Basic reference,

of 3-phase motors 50-60 Hz to be completed by adding current in category taneous in category AC-3/AC-3e AC-3/AC-3e 440 V the voltage code up to contacts per contactor 220 V 380 V 440 V 230 V 415 V 690 V

kW	kW	kW	Α			
Scre	ew clam	p connection	าร			
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		LP2K1210ee

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

5.5 (440)

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

Example: LC2K0610 • becomes LC2K06107 • •.

Solder pins for printed circuit boards

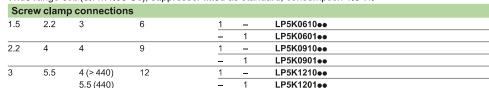
For 6 to 16 A ratings, in the references selected above, insert a figure 5 before the voltage code.

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.



LP2K1201ee

Spring terminal connections

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

Example: LP5K0610 • becomes LP5K06103 • •.

Faston connectors, 1 x 6.35 or 2 x 2.8

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

Example: LP5K0610 • becomes LP5K06107 • •.

Solder pins for printed circuit boards

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

Example: LP5K0610 • becomes LP5K06105 • .

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

Coil voltage codes - d.c.

Reversing contactors LP2K (0.8...1.15 Uc)

Volts	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 voltage codes - low consumption d.c.

Reversing	contactors	LP5K (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.

- (1) 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.
- (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 $LC \bullet K \bullet \bullet \bullet \bullet 3 / LP \bullet K \bullet \bullet \bullet \bullet 3$ with spring terminal, Ith max = 16 A.







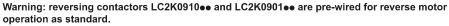






TeSys Control K Reversing contactors

Product references



Reversing contactor selection according to utilisation category, see pages A5/58 and A5/59. Integral mechanical interlock.

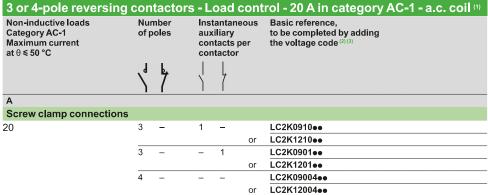
It is essential to link the contacts of the electrical interlock.

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.





Spring terminal connections (4)

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

Example: LC2K0910 • becomes LC2K09103 • •.

Faston connectors, 1 x 6.35 or 2 x 2.8

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

Example: LC2K0910 • becomes LC2K09107 • •.

Solder pins for printed circuit boards

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

Example: LC2K0910 • becomes LC2K09105 • .

(1) Coordination tables between 9 and 12 A ratings according to number of operating cycles, see AC-1 curve on page A5/58.

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

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

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

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

- (2) For mains supplies with a high level of interference (voltage surge > 800 V), use a suppressor module LA4KE1FC (50...129 V) or LA4KE1UG (130...250 V), see page B8/14.
- (3) Please check the availability of your variant in the index page B8/55. The SEARCH function of your viewer can be
- (4) For LCeKeese3 / LPeKeese3 with spring terminal, Ith max = 16 A.
 (5) (0.8...1.15 Uc) for single voltage coil; (0.85...1.1 Uc) for dual voltage coil, exemple 200/208 V AC.





LC2K09105 • •





Contactors

Schneider Belegtric

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

Reversing contactor selection according to utilisation category, see pages A5/58 and A5/59. Integral mechanical interlock.

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

Mounting on 35 mm - rail or Ø4 screw fixing.

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

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

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

LP2K12004

Spring terminal connections (4)

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

Example: LP2K0910 • becomes LP2K09103 • •.

Faston connectors, 1 x 6.35 or 2 x 2.8

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

Example: LP2K0910 • becomes LP2K09107 • •.

Solder pins for printed circuit boards

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

Example: LP2K0910 • becomes LP2K09105 • •

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

Compatible with programmable controller outputs.

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

Screw clamp connections

20 LP5K0910 • • • LP5K1210 • • • 3 1 LP5K0901 LP5K1201 LP5K09004 LP5K12004

Spring terminal connections

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

Example: LP5K0910 becomes LP5K09103 .

Faston connectors, 1 x 6.35 or 2 x 2.8

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

Example: LP5K0910 • becomes LP5K09107 • •.

Solder pins for printed circuit boards

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

Example: LP5K0910 • becomes LP5K09105 • .

(1) Coordination tables between 9 and 12 A ratings according to number of operating cycles, see AC-1 curve on page A5/58.

Standar	d con	trol d	circui	it vo	ltage	es (fo	r othe	r volta	ages,	pleas	e con	sult y	our R	egion	al Sale	es offi	ce)
Coil voltage	ge cod	es - d.	c. (rev	ersin	g cont	actors	LP2	<: 0 . 8.	1.15	Uc)							
Volts 	12	20	24 (2)	36	48	60	72	100	110	125	155	174	200	220	230	240	250
Code	JD	ZD	BD	CD	ED	ND	SD	KD	FD	GD	PD	QD	LD	MD	MPD	MUD	UD

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

Coil voltag	ge codes -	low consur	nption d.c.	(reversing	contactors L	P5K: 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.

- (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 LC•K••••3 / LP•K••••3 with spring terminal, Ith max = 16 A.





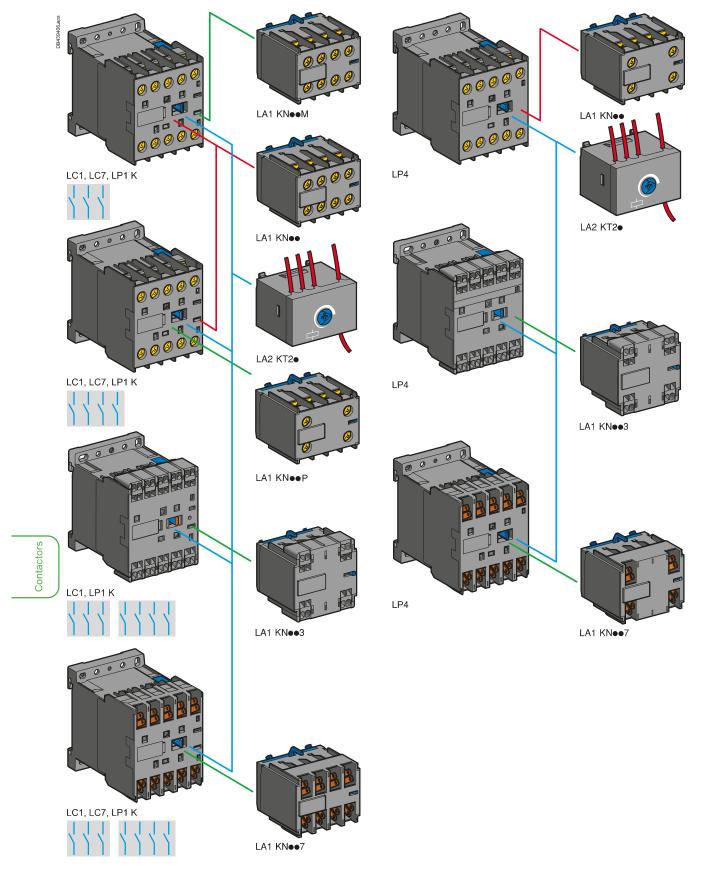


Characteristics: pages B8/72 to B8/75 Dimensions: page B8/78

Schemes: page B8/79



Schneider Belectric



TeSys Control

K Contactors - Auxiliary contacts blocks

Product references



LA1KN22

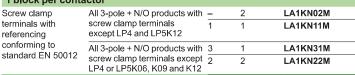


LA1KN223



LA1KN407

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





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 fro	ont mount	ing, 1 block per co	ntactor	
Voltage	Туре	Timing range	Composition	Reference
٧		s		
∼ or 24…48	On-delay	130	1	LA2KT2E
∼ 110…240	On-delay	130	1	LA2KT2U





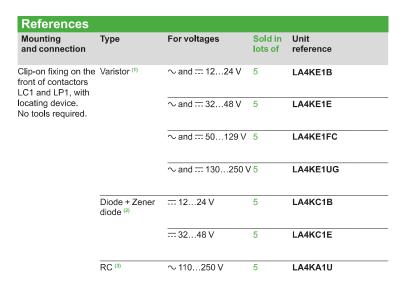


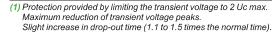


TeSys Control K Contactors - Suppressor modules

Product references







⁽²⁾ No overvoltage or oscillating frequency.

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



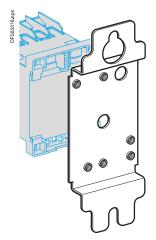




Polarised component.
Slight increase in drop-out time (1.1 to 1.5 times the normal time).
(3) Protection by limiting the transient voltage to 3 Uc max. and limitation of the oscillating

TeSys Control K Contactors - Accessories

Product references

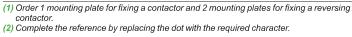


DX1AP25



Mounting an	d marking a	ccessories		
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⁾

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









Control Panel Technical Guide:

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

> Ref. Document: CPTG011_EN





> Click on QR code to download

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

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





When implemented with other Schneider Electric products*, Deca 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.

Introduction



Highly competitive coil consumption

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

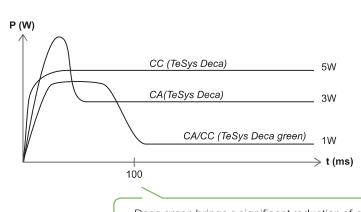
09-12-18 A

25-32-38 A

40-50-65-80 A

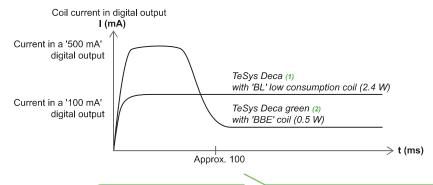
Coil currents comparison

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



Deca green brings a significant reduction of energy consumption.

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



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

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

Product references



LC1D09•••



LC1D40A•••

50-60 Hz in category AC-3/AC-3e (θ ≤ 60 °C)

Standard power ratings of 3-phase motors

operational current in AC-3/AC-3e

3-pole contactors - Motor control up to 37 kW / 400 V - Category AC-3/AC-3e

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

Instantaneous auxiliary contacts

Basic reference, to be completed by adding the control voltage code

Weight

1.002

1.002

LC1D65Aeee

LC1D80A • • •

						440 V	\1	4	Fixing (2)	
220 V 230 V	380 V 400 V	415 V	440 V	500 V	660 V 690 V	– up to				
kW	kW	kW	kW	kW	kW	Α				kg
Conn	ection	by scre	ew clan	np term	inals					
2.2	4	4	4	5.5	5.5	9	1	1	LC1D09●●●	0.368
3	5.5	5.5	5.5	7.5	7.5	12	1	1	LC1D12●●●	0.373
4	7.5	9	9	10	10	18	1	1	LC1D18●●●	0.378
5.5	11	11	11	15	15	25	1	1	LC1D25●●●	0.433
7.5	15	15	15	18.5	18.5	32	1	1	LC1D32•••	0.438
9	18.5	18.5	18.5	18.5	18.5	38	1	1	LC1D38•••	0.442
Powe	r conn	ections	by Ev	erLink®	BTR (3	screw o	connector	s and	control by screw clamp terminal	
11	18.5	22	22	22	30	40	1	1	LC1D40A●●●	0.992
15	22	25	30	30	33	50	1	1	LC1D50A•••	0.997

37 37 Connection for lugs or bars

18.5

22

30

37

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

Example: LC1D40A••• becomes LC1D40A6•••

37

37

Auxiliary contact blocks and add-on modules

37

37

37

37

65

66

See pages B8/36 to B8/42.

codes				
supply				
24 (DC only)	24-60	48-130	100-250	
	BNE	EHE	KUE	
BNE				
BBE				
	supply 4 (DC only) 3NE	supply 4 (DC only) BNE	BNE EHE	BNE EHE KUE

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











Contactors

TeSys Control Deca green Contactors

Product references



LC1D09•••



LC1D40A•••



LC1DT60A•••

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

3-pole contact	ors - Lo	oad cor	ntrol	froi	m 25 to 80 A - Categor	y AC-1
Non inductive loads maximum current (θ ≤ 60 °C) utilisation category AC-1	Number of poles	Insta taned auxil conta	ous iary		Partial reference, to be completed by adding the control voltage code (1)	Weight
A						kg
Connection by so	rew clar	np termi	nals			
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	/erLink®,	BTR sc	rew c	onn	ectors (3)	
60	3	1	1		LC1D40A•••	0.992
80	3	1	1		LC1D50A•••	0.997
				or	LC1D65A••• (4)	1.002
				or	LC1D80A••• (4)	1.002
Connection for luc	s or hai	·e				

Connection for lugs or bars

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

Example: LC1D40A • • becomes LC1D40A6 • •

4-pole c	ontactors				
Connection	on by EverLink	®, BTR (3)	screw	connectors	
60	4	1	1	LC1DT60A	1.230
80	4	1	1	LC1DT80A•••	1.290
Connectio	n for lugs or ba	ars			

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

Example: LC1DT60A • • becomes LC1DT60A6 • • •

4-pole ch	langeover co	ntac	ctors			
Connection	by EverLink®, E	BTR (3	screw	connectors		
60	4	1	1	LC2DT60A•••		2.460
80	4	1	1	LC2DT80A●●●		2.580
Control v	oltage codes	5				
AC/DC 24 V	DC supply					
Volts	24 (DC only)	24	1-60	48-130	100-250	
LC1D09D80	A and LC●DT60A	.DT80	Α			
U 0.85 1.1 l	Jc	ВІ	NE	EHE	KUE	
LC1D09 D3	8					
U 0.8 1.2 U	c BNE					

LC1D40 to LC1D80A, LC●DT60A to LC●DT80A

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, LC◆DT60A and LC◆DT80A: 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) Coordination tables according to the number of operation cycles, consult online datasheets for values.













Product references



LC1D09•••



LC1D40A•••











Contactors

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

	ira power	ratings o	of motors	50/60 Hz		Associated cable	Continuous	Type of contactor required
Single-phase 1 Ø		3-phas 3 Ø	е			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	
Conne	ection by	screw	clamp t	erminal	s			
1/3	1	2	2	5	7.5	AWG 18 - 10	25	LC1D09•••
0.5	2	3	3	7.5	10	AWG 18 - 10	25	LC1D12•••
1	3	5	5	10	15	AWG 18 - 8	32	LC1D18•••
	3	7.5	7.5	15	20	AWG 14 - 6	40	LC1D25•••
2	3	1.5	1.5	10	20			

Pov	wer conne	ections b	y Ever	Link® B	TR ⁽³⁾ scr	ew 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	LC1D50A•••
5	10	20	20	40	50	AWG 16 - 2	80	LC1D65A●●●
5	10	20	20	40	50	AWG 16 - 2	80	LC1D80A●●●

Connection for lugs or bars

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

Example: LC1D40A • • becomes LC1D40A6 • • •

Applications with High-Fault Short-Circuit Current ratings

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

Control volta	ge 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
- (2) LC1D09 to D80: clip-on mounting on 35 mm urail NSYSDR or screw fixing.
 (3) BTR screws: hexagon socket head. In accordance with local electrical wiring regulations, a size 4 insulated Allen key must be used (reference LADALLEN4, see page B8/42).

ntactors

TeSys Control Deca green Contactors

Product references

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	>>>	LC1D40A•••• to LC1D80A, LC1DT60A•••• to LC1DT80A••••	BBE, BD, BNE
		0.1	TM3DQ16•• and Q32•• (TK, UK)	>>>	LC1D09•• to LC1D38••	BL
	Relay output: 24 V DC / 230 V AC	2	TM3DQ8 and DQ16 (R,RG), TM3DM8 and DM24 (R,RG)	>>>	LC1D09ee to LC1D38ee, LC1D40Aeee to LC1D80A, LC1DT60Aeee to LC1DT80Aeee	Code of any DC coil up to 24 V or any AC coil up to 230 V
M340 /	Static output:	0.5	BMXDDO1602 and DM16022		LC1D09●● to LC1D38●●	BL, BNE
M580	24 V DC			>>>	LC1D40A••• to LC1D80A, LC1DT60A••• to LC1DT80A•••	BBE
		0.1	BMXDDO3202, BMXDDM3202K, BMXDDO6402K	>>>	LC1D09•• to LC1D38••	BL
	Relay output: 24 V DC / 230 V AC	2	BMXDRA0805 and DM16025	>>>	LC1D09ee to LC1D38ee, LC1D40Aeee to LC1D80A, LC1DT60Aeee to LC1DT80Aeee	Code of any DC coil up to 24 V or any AC coil up to 230 V
	Triac output: 230 V AC	0.6	BMXDAO1605	>>>	LC1D09ee to LC1D38ee, LC1D40eee to LC1D80Aeee, LC1DT60Aeee to LC1DT80Aeee	Code of any AC coil up to 230 V (P7 code = 230 V)
ADVANTYS	Static output: 24 V DC	0.5	STBDDO3200		LC1D09•• to LC1D38••	BL, BNE
				>>>	LC1D40A••• to LC1D80A, LC1DT60A••• to LC1DT80A•••	BBE
	Triac output: 230 V AC	2	STBDAO8210	>>>	LC1D0900 to LC1D3800, LC1D40A000 to LC1D80A, LC1DT60A000 to LC1DT80A000	Code of any AC coil up to 230 V (P7 code = 230 V AC)

Coils consumption characteristics

_				
(Coil type	Uc DC - min -max	Average consumption	at UC DC / 20 °C
			Inrush	Sealed
В	L	24 V - 0.8 Uc to 1.1 Uc	2.4 W - 2.4 VA	2.4 W - 2.4 VA
В	NE		14 W - 14 VA	0.7 W - 0.7 VA
В	BE		11 W - 11 VA	0.5 W - 0.5 VA

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

Product references



LC1D09.



LC1D25••



LC1D80A••



LC1D95

Contactors



LC1D115●●

3-pc	ole co	ontac	ctors	- Mo	otor (contro	l up to 75 k	cW at	400 V,	in category AC-3/AC-3	е
	lard po Hz in c 0 °C)					tors	Rated operational current in AC-3/AC-3e 440 V	Instar auxili conta		Basic reference, to be completed by adding the control voltage code (1)	Weight (3)
	380 V 400 V	415 V	440 V	500 V	660 V 690 V	1000 V	up to			,	
kW	kW	kW	kW	kW	kW	kW	Α				kg
Conr	nectio	n by s	crew	clamp	term	inals					
2.2	4	4	4	5.5	5.5	-	9	1	1	LC1D09●●	0.320
3	5.5	5.5	5.5	7.5	7.5	_	12	1	1	LC1D12ee	0.325
4	7.5	9	9	10	10	_	18	1	1	LC1D18.	0.330
5.5	11	11	11	15	15	-	25	1	1	LC1D25●●	0.370
7.5	15	15	15	18.5	18.5		32	1	1	LC1D32●●	0.375
9	18.5	18.5	18.5	18.5	18.5	_	38	1	1	LC1D38●●	0.380
Powe	er con	nectio	ons by	/ Ever	Link®	BTR so	rew connecto	ors (4) a	nd contro	ol by screw clamp terminal	
11	18.5	22	22	22	30	_	40	1	1	LC1D40A●●	0.850
15	22	25	30	30	33		50	1	1	LC1D50A●●	0.855
18.5	30	37	37	37	37		65	1	1	LC1D65A●●	0.860
22	37	37	37	37	37	-	66	1	1	LC1D80A●●	0.860
Conr	nectio	n by s	crew	clamp	term	inals or	connectors				
22	37	45	45	55	45	_	80	1	1	LC1D80●●	1.590
25	45	45	45	55	45		95	1	1	LC1D95●●	1.610
30	55	59	59	75	80	65	115	1	1	LC1D115••	2.500
40	75	80	80	90	100	75	150	1	1	LC1D150●●	2.500

Connection by lugs or bars

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

Example: LC1D09 • becomes LC1D096 • .

Separate components

Auxiliary contact blocks	and ac	dd-on	modu	les: se	e page	s B8/3	6 to B8	3/42.					
Standard control ci	rcuit	volta	ges (for oth	er vol	tages,	please	e cons	sult yo	ur Re	gional	Sales	Office)
a.c. supply													
Volts	24	42	48	110	115	220	230	240	380	400	415	440	500
LC1D09D150 (D115 and D1	50 coils	with bu	ilt-in su	ppression	on as st	andard,	by bi-di	rection	al peak	limiting	diode).		
50/60 Hz	B7	D7	E7	F7	FE7	M7	P7	U7	Q7	V7	N7	R7	S7
LC1D09D65 (not available w	vith "con	nection	for lug	s or bars	;")								
50 Hz	B5	D5	E5				P5						
LC1D80D115													
50 Hz	B5	D5	E5	F5	FE5	M5	P5	U5	Q5	V5	N5	R5	S5
60 Hz	В6	_	E6	F6	_	M6	_	U6	Q6	_	_	R6	_
d.c. supply													
Volts	12	24	36	48	60	72	110	125	220	250	440		
LC1D09D38 (coils with integ	ral supp	ressior	device	e fitted as	s standa	ard, by l	oi-direct	ional pe	eak limit	ing dio	de)		
U 0.71.25 Uc	JD	BD	CD	ED	ND	SD	FD	GD	MD	UD	RD		
LC1D40AD65A (coils with in	ntegral s	suppres	sion de	vice fitte	d as sta	andard,	by bi-di	rectiona	al peak l	limiting	diode)		
U 0.751.25 Uc	JD	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	RD		
LC1D80D95													
U 0.851.1 Uc	JD	BD	CD	ED	ND	SD	FD	GD	MD	UD	RD		
U 0.751.2 Uc	JW	BW	CW	EW	_	SW	FW	_	MW		_		
LC1D115 and D150 (coil with b	ouilt-in s	uppres	sion de	vice as s	tandard	d)(t							
U 0.751.2 Uc	-	BD	_	ED	ND	SD	FD	GD	MD	UD	RD		
Low consumption DC (fe	or low	consu	ımptic	n AC/[DC: De	eca gre	een co	ntacto	ors, pa	ge B8	/18)		
Volts	5	12	20	24	48	110	220	250					
LC1D09D38 (coils with integ	gral sup	pressio	n devic	e fitted a	s stand	ard, by	bi-direc	tional p	eak limi	ting dio	de)		
U 0.81.25 Uc	AL	JL	ZL	BL	EL	FL	ML	UL					

For other voltages between 5 and 690 V, see pages B8/45 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
- (2) LC1D09 to D80A: clip-on mounting on 35 mm _r rail NSYSDR or screw fixing.

- LC1D80 to D80A. clip-on mounting on 35 mm □ rail NSYSDR or strew lixing.

 LC1D80 to D95 \times: clip-on mounting on 35 mm □ rail AMYDL or screw fixing.

 LC1D80 to D95 \times: clip-on mounting on 75 mm □ rail AM1DL or screw fixing.

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

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

Characteristics: pages B8/80 to B8/87 Dimensions Schemes:

pages B8/101 to B8/102



Product references



LC1D123 ••



LC1D80A3●●

Standard power ratings of 3-phase motors 50-60 Hz in category AC-3/AC-3e ($\theta \leqslant 60$ °C)			Rated operational current in AC-3/AC-3e - 440 V	Instantaneous auxiliary contacts		Basic reference, to be completed by adding the control voltage code (1)				
	/ 380 V / 400 V	415 V	440 V	500 V	660 V 690 V	1000 V	up to			
kW	kW	kW	kW	kW	kW	kW	Α			
Pow	er and	contr	ol co	nnecti 5.5	5.5	y sprin	g terminals	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••
Pow	er con	nectio	ons by	/ Ever	Link®	BTR so	rew connect	ors (4)	and contr	ol by spring terminals
11	18.5	22	22	22	30		40	1	1	LC1D40A3●●
15	22	25	30	30	33		50	1	1	LC1D50A3●●
	20	37	37	37	37		65	1	1	LC1D65A3••
18.5	30	31	31	31	31		00		•	20.200.000

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

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

Separate components

Connection by Faston connectors

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

Standard control	circuit	volta	ges (for other	voltag	jes, į	please c	onsult	your	Regional	Sales	Office)
a.c. supply												
Volts	24	42	48	110	115	220	230	240	380	400	415	440
LC1D09D80A												
50/60 Hz	В7	D7	E7	F7	FE7	M7	P7	U7	Q7	V7	N7	R7
d.c. supply												
Volts	12	24	36	48	60	72	110	125	220	250	440	
LC1D09D32 (coils with ir	ntegral supp	pression	device	fitted as st	tandard,	by bi	-direction	al peak l	limiting	diode)		
U 0.71.25 Uc	JD	BD	CD	ED	ND	SD	FD	GD	MD	UD	RD	
LC1D40AD65A (coils wi	th integral:	suppress	sion de	vice fitted a	as stand	ard, b	y bi-direc	tional pe	ak lim	iting diode)		
U 0.751.25 Uc	JD	BD	CD	ED	ND	SD	FD	GD	MD	UD	RD	
Low consumption												
Volts	5	12	20	24	48	110	220	250				
LC1D09D32 (coils with ir	ntegral sup	pression	device	fitted as st	tandard,	by bi	-direction	al peak l	limiting	diode)		
U 0.81.25 Uc	AL	JL	ZL	BL	EL	FL	ML	UL				
	E 1 COO	1/		0/454- 00	/40							

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).











Life Is On



LC1D80A • •









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
- (2) LC1D09 to D80A: clip-on mounting on 35 mm □ rail NSYSDR or screw fixing.
 LC1D80 and D95 ∼: clip-on mounting on 35 mm □ rail
 - NSYSDR or 75 mm ⊥ rail AM1DL or screw fixing. LC1 or LP1D80 to D95 ::: clip-on mounting on 75 mm ⊥ 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
- 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) Coordination tables according to the number of operating

- cycles, see AC-1 curve, page A5/58. (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.

3-pole contac in category A		ad co	ontro	l fi	om 25 to 200 A	
Non inductive loads maximum current (θ ≤ 60 °C) utilisation category AC-1	Number of poles	Insta taned auxili conta	ous iary		Basic reference, to be completed by adding the control voltage code (1)	Weight (3)
Α						kg
Connection by so	crew clamp	termi	nals			
25	3	1	1		LC1D09.	0.320
				or	LC1D12••	0.325
32	3	1	1		LC1D18.	0.330
40	3	1	1		LC1D25••	0.370
50	3	1	1		LC1D32••	0.375
				or	LC1D38••	0.380
Connection by Ev	verLink®, B	TR sc	rew c	onn	ectors (4)	
60	3	1	1		LC1D40A●●	0.850
80	3	1	1		LC1D50A●●	0.855
				or	LC1D65A•• (5)	0.860
				or	LC1D80A●● (5)	0.860
Connection by so	crew clamp	termi	nals c	or c	onnectors	
125	3	1	1		LC1D80••	1.590
				or	LC1D95ee (5)	1.610
200	3	1	1		LC1D115••	2.500
				or	LC1D150 • (6)	2.500
3-pole contac	tors for c	conn	ectio	n k	ov luas	

In the references selected above, insert a figure 6 before the voltage code. Example: LC1D09 • becomes LC1D096 • •.

Standard con	trol c	ircı	ıit v	olta	ges								
(for other voltage	s, ple	ase (ons	ult y	our R	Regic	nal (Sales	Offi	ice)			
a.c. supply													
Volts	24	42	48	110	115	220	230	240	380	400	415	440	500
LC1D09D150 (LC1	D115 a	nd D1	50 cc	ils wit	h buil	t-in su	ippres	ssion	devic	e as s	tanda	rd)	
50/60 Hz	В7	D7	E7	F7	FE7	M7	P7	U7	Q7	V7	N7	R7	S7
LC1D09D65 (not av	vailable	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 limiting diode)	with inte	egrals	suppr	essior	n devi	ce fitte	ed as	stand	ard, b	y bi-c	lirectio	onal p	eak
U 0.71.25 Úc	JD	BD	CD	ED	ND	SD	FD	GD	MD	UD	RD		
LC1D40AD65A (copeak limiting diode)	oils with	integ	ral su	ppres	sion c	levice	fitted	l as st	andaı	d, by	bi-dire	ection	ıal
U 0.751.25 Uc	JD	(7)	(7)	(7)	(7)	(7)	(7)	(7)	(7)	(7)	RD		
LC1 or LP1D80 and [95												
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 (coils wit	h buil	t-in su	ippres	ssion	device	e fitted	d as s	tanda	rd)			
U 0.751.2 Uc	_	BD	-	ED	ND	SD	FD	GD	MD	UD	RD		
Low consumptio	n												
Volts	5	12	20	24	48	110	220	250					
LC1D09D38 (coils limiting diode)	with inte	egrals	suppr	essior	n devi	ce fitte	ed as	stand	ard, b	y bi-c	lirectio	onal p	eak
U 0.81.25 Úc	AL	JL	ZL	BL	EL	FL	ML	UL					

Characteristics:

Dimensions:

Schemes pages B8/101 to B8/102





LC1D80A3.

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

Non inductive Number Instantaneous loads maximum of poles auxiliary contacts current (θ ≤ 60 °C) utilisation category AC-1

Basic reference, to be completed by adding the control voltage code

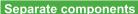
Weight

Α	•	•			kg
Connect	tion by sprir	ıg tern	ninals		
16	3	1	1	LC1D093●● (4)	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

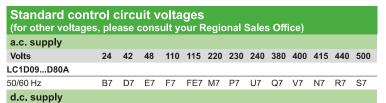
	onnections erminals	by Eve	erLink [®]	BTR screw connectors ⁽⁷⁾ and co	ontrol by
60	3	1	1	LC1D40A3●●	0.850
80	3	1	1	LC1D50A3●● (8)	0.855
				or LC1D65A3•• (8)	0.860
				or I C1D80A3ee (8)	0.860

3-pole contactors for connection by Faston connectors

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



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



Volts 12 24 36 48 60 72 110 125 220 250 440 LC1D09...D32 (coils with integral suppression device fitted as standard, by bi-directional peak limiting diode)

U 0.7...1.25 Uc JD BD CD ED ND SD FD GD MD UD RD LC1D40A...D65A (coils with integral suppression device fitted as standard, by bi-directional peak limiting diode)

BD CD ED ND SD FD GD MD UD RD U 0 75 1 25 Uc JD

Low consumption

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

LC1D09...D32 (coils with integral suppression device fitted as standard, by bi-directional peak limiting diode)

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 ur rail NSYSDR or screw fixing.
- (3) The weights indicated are for contactors with a.c. control circuit. For d.c. or low consumption control circuit, add 0.160 kg from LC1D09 to D38 and 0.075 kg from LC1D40A to D80A.
- (4) 20 A with 2 x 2.5 mm² cables connected in parallel.
- (5) 32 A with 2 x 4 mm² cables connected in parallel.
- (6) 40 A with 2 x 4 mm² cables connected in parallel.
- (7) BTR screws: hexagon socket head. In accordance with local electrical wiring regulations, a size 4 insulated Allen key must be used (reference LADALLEN4, see page B8/42).
- (8) Coordination tables according to the number of operating cycles, see AC-1 curve, page











Product references



\sim 4	D-	$rac{1}{2}$	•



LC1DT80A●●



Contactors



LC1D65008 ••

4-pole contacto	ors -	Loac	l con	trol, 2	20 to	200 A in category AC-1	
Non inductive loads maximum current (θ ≤ 60 °C)		nber	aux	antaned iliary tacts	ous	Basic reference, to be completed by adding the control voltage code ⁽¹⁾	Weight
utilisation category AC-1	1	7		Ļ		Fixing (2)	
Α							kg
Connection by scre	ew cla	mp te	rmina	ls			
20	4	-	1	1		LC1DT20●●	0.365
	2	2	1	1		LC1D098●●	0.369
25	4	-	1	1		LC1DT25●●	0.36
	2	2	1	1		LC1D128••	0.369
32	4	_	1	1		LC1DT32••	0.42
	2	2	1	1		LC1D188••	0.42
40	4	-	1	1		LC1DT40●●	0.42
	2	2	1	1		LC1D258●●	0.425
Connection by Eve	rLink	, BTR	screv	v conn	ecto	rs	
60	4	-	1	1		LC1DT60A●●	1.090
80	4	-	1	1		LC1DT80A●●	1.150
Connection by scre	ew cla	mp te	rmina	ls or c	onne	ctors	
60	2	2	_	-		LC1D40008●●	1.440
					or	LP1D40008●●	2.210
80	2	2	_	_		LC1D65008●●	1.450
					or	LP1D65008.	2.220
125	4	_	_	_		LC1D80004●●	1.760
					or	LP1D80004●●	2.685
	2	2	_	-		LC1D80008●●	1.840
					or	LP1D80008●●	2.910
200	4	_	_	_		LC1D115004●●	2.860

4-pole contactors for connection by lugs or bars In the references selected above, insert a figure 6 before the voltage code.

Example: LC1DT20 • becomes LC1DT206 • •.

Standard control cir	cuit v	/oltac	jes (f	or oth	er volt	ages,	please	cons	ult yo	ur Reg	ional S	Sales	Office)
a.c. supply													
Volts	24	42	48	110	115	220	230	240	380	400	415	440	500
LC1D09D150 and LC1DT20	.DT80	(LC1D	115 and	d D150	coils wit	h built-i	n suppr	ession	device a	as stanc	dard)		
50/60 Hz	B7	D7	E7	F7	FE7	M7	P7	U7	Q7	V7	N7	R7	
LC1D80D115													
50 Hz	B5	D5	E5	F5	FE5	M5	P5	U5	Q5	V5	N5	R5	S5
60 Hz	B6	_	E6	F6	_	M6	_	U6	Q6	_	_	R6	_
d.c. supply													
Volts	12	24	36	48	60	72	110	125	220	250	440		
LC1D09D25 and LC1DT20I	DT40 (c	oils with	integra	l suppre	ssion d	evice fit	ted as s	tandard	, by bi-c	direction	al peak	limiting	diode)
U 0.751.25 Uc	JD	BD	CD	ED	ND	SD	FD	GD	MD	UD	RD		
LC1DT60ADT80A (coils with	integra	l suppre	ssion d	levice fit	tted as s	standar	d, by bi-	directio	nal pea	ak limitin	g 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 supp	ression	device	as stan	dard)									
U 0.751.2 Uc	-	BD	-	ED	ND	SD	FD	GD	MD	UD	RD		
Low consumption													
Volts	5	12	20	24	48	110	220	250					
LC1D09D25 and LC1DT20[)T40 (cd	oils with	integral	suppre	ssion de	vice fitt	ed as st	andard	by bi-d	lirection	al 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 D38 and LC1DT20 to DT80A: clip-on mounting on 35 mm r rail NSYSDR or screw fixing.

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

 LC1 or LP1D80 \(\to \): clip-on mounting on 75 mm \(\to \) rail AM1DL or screw fixing.

 LC1 or LP1D80 \(\to \): clip-on mounting on 75 mm \(\to \) rail AM1DL or screw fixing.

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

 (3) The weights indicated are for contactors with a.c. control circuit. For d.c. or low consumption control circuit, add 0.160 kg from **LC1D09** to **D38**, 0.075 kg from **LC1DT60A** and **D80A** and 1 kg for **LC1D80**.
- (4) For these coil voltages, choose from Deca 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: LC1DT60ABBE.

Characteristics: pages B8/80 to B8/87 Dimensions: pages B8/94 to B8/97

Schemes: pages B8/101 to B8/102



Product references



LC1DT253...



LC1DT80A3.

4-pole conta	actors -	Load contro	l, 20 to 80 A in categ	ory AC-1
Non industive	Number	Inetantanooue	Basic reference	Woight

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

of poles auxiliary contacts to be completed by adding the voltage code (1) Fixing (2)

	1	ſ		'		
Α						kg
Connect	ion by spri	ng te	rmin	als		
20	4	_	1	1	LC1DT203●●	0.380
	2	2	1	1	LC1D0983●●	0.380
25	4	_	1	1	LC1DT253●●	0.380
	2	2	1	1	LC1D1283●●	0.380
32	4	-	1	1	LC1DT323●●	0.425
	2	2	1	1	LC1D1883●●	0.425
40	1		1	1	LC1DT403ee	0.425

	Connection by EverLink®, BTR screw connectors and control circuit by spring terminals									
60	4	-	1	1	LC1DT60A3●●	1.090				
80	4	-	1	1	LC1DT80A3●●	1.150				

LC1D2583ee

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

LC1D09...D25 and LC1DT20...DT80A (coils with integral suppression device fitted as standard, by bi-directional peak limiting diode)

50/60 Hz B7 D7 E7 F7 FE7 M7 P7 U7 Q7 V7 N7 R7 -

d.c. supply

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

LC1DT60A...80A (coils with integral suppression device fitted as standard, by bi-directional peak limiting diode)

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

Low consumption

5 12 20 24 48 110 220 250

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

AL JL EL FL ML UL ZL BL

- 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 D38 and LC1DT20 to DT80A: clip-on mounting on 35 mm ∟ 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.



0.425









Product references



LC1D09••



LC1D25••



LC1D80A●●

Contactors



LC1D95••

		confo	rming	to UL	and CS	A standards (No	orth Ameri	can market) -	
25 tc	160 A								
Standa	ard power	ratings o	f motors	50/60 Hz	<u>:</u>	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 by	screw	clamp t	erminal	s				
1/3	1	2	2	5	7.5	AWG 18 - 10	25	LC1D09••	
0.5	2	3	3	7.5	10	AWG 18 - 10	25	LC1D12••	
1	3	5	5	10	15	AWG 18 - 8	32	LC1D18••	
2	3	7.5	7.5	15	20	AWG 14 - 6	40	LC1D25••	
2	5	10	10	20	25	AWG 14 - 6	50	LC1D32•• (3)	
2	5	10	10	20	25	AWG 14 - 6	50	LC1D38●● (3)	
Powe	r connec	tions by	/ EverLi	ink® BTI	R screw co	onnectors and conti	ol by spring	terminals	
3	5	10	10	30	30	AWG 16 - 2	60	LC1D40A●●	
3	7.5	15	15	40	40	AWG 16 - 2	70	LC1D50A●●	
5	10	20	20	40	50	AWG 16 - 2	80	LC1D65A●●	
5	10	20	20	40	50	AWG 16 - 2	80	LC1D80A●●	
Conn	ection by	screw	clamp t	erminal	s or conne	ectors			
7.5	15	25	30	60	60	AWG 10 - 2	110	LC1D80••	
7.5	15	25	30	60	60	AWG 10 - 2	110	LC1D95••	
_	_	30	40	75	100	AWG 8-1/0	160	LC1D115••	
_	_	40	50	100	125	AWG 8-1/0	160	LC1D150●●	

Applications with High-Fault Short-Circuit ratings

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

Application example

For a 15 HP-230 V motor

Select a contactor type LC1D50A.

Information: the	e conta	actor r	ating s	electe	d corr	espon	ds to "	size 2	", the a	associ	ated c	able is	s type	AWG3	3 75 °C	C-Cu.
Standard of	contr	ol ci	rcuit	volta	ages	(for o	ther v	oltag	es, ple	ease c	onsul	t you	^r Regi	onal S	Sales C	Office)
a.c. supply																
Volts	24	42	48	110	115	120	208	220	230	240	380	400	415	440	480	500
LC1D09D150	(D115	and D1	50 coil	s with b	ouilt-in	suppres	ssion d	evice a	ıs stanı	dard)						
50/60 Hz	В7	D7	E7	F7	FE7	G7 (4)	LE7	⁴⁾ M7	P7	U7	Q7	V7	N7	R7	T7 (4)	S7
LC1D09D65 (r	not ava	ilable 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	T6	_
d.c. supply																
Volts	12	24	36	48	60	72	110	125	220	250	440					
LC1D09D32 (coils wi	th integ	gral sup	pressi	on devi	ce fitte	d as sta	andard	by bi-	directio	nal pea	ak limiti	ng diod	le)		
U 0.71.25 Uc	JD	BD	CD	ED	ND	SD	FD	GD	MD	UD	RD					
LC1D40AD65	A (coils										ctional	peak li	miting	diode)		
U 0.751.25 Uc		(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	RD					
LC1D80 and D9	5															
U 0.851.1 Uc	JD	BD	CD	ED	ND	SD	FD	GD	MD	UD	RD					
U 0.751.2 Uc	JW	BW	CW	EW		SW	FW		MW	_	_					
LC1D115 and D	150 (cc	oils with	ı built-ir	n suppr			as sta	ndard)								
U 0.751.2 Uc	-	BD	-	ED	ND	SD	FD	GD	MD	UD	RD					
Low consum	ption															
Volts	5	12	20	24	48	72	110	220	250							
LC1D09D38 (coils wi	th integ	gral sup	pressi	on devi	ce fitte	d as sta	andard	by bi-	directio	nal pea	ak limiti	ng diod	le)		
U 0.81.25 Uc	AL	JL	ZL	BL	EL	SL	FL	ML	UL							

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

Characteristics: Dimensions: Schemes Click HERE for access to online contactor selector pages B8/80 to B8/87 pages B8/94 to B8/97 pages B8/101 to B8/102

⁽²⁾ LC1D09 to D65A: clip-on mounting on 35 mm ⊔ rail NSYSDR or screw fixing.
LC1D80 and LC1D95: clip-on mounting on 35 mm ⊔ rail NSYSDR or 75 mm ⊔ rail AM1DL or screw fixing.

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

(3) Versions with spring terminals LC1D323 and LC1D383 are not certified UL/CSA.

(4) Contactors LC1D40A, 50A, 65A, 80A: for this coil voltage use is only on 60 Hz.

(5) For these coil voltages, choose from Deca 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.

LC2D65A ••



LC2D1156.

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

Horizontally mounted - Pre-wired power connections.

Standard power ratings of 3-phase motors Rated 50-60 Hz in category AC-3/AC-3e (θ ≤ 60 °C) current in 440 V

690 V

kW A

220 V 380 V 415 V 440 V 500 V 660 V 1000

kW kW kW

230 V 400 V

kW

kW

operational AC-3/AC-3e up to

Instantaneous auxiliary contacts contactor

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

Fixing

Weight

kg

With mechanical interlock, without electrical interlocking, for connection by screw clamp terminals or connectors 5.5 5.5 9 LC2D09 • (4) 0.687 2.2 5.5 5.5 5.5 7.5 7.5 12 LC2D12 • (4) 0.697 7.5 9 9 10 10 18 LC2D18 • (4) 0.707 11 11 11 15 15 25 LC2D25 • (4) 0.787 7.5 15 15 15 18.5 18.5 32 LC2D32 • (4) 0.797 18.5 18.5 18.5 18.5 18.5 38 LC2D38ee (4) 0.807 11 18.5 22 40 LC2D40Aee 1.870 22 22 30 1 15 22 25 30 30 33 50 LC2D50Aee 1.880 18.5 30 37 37 37 37 65 LC2D65A •• 1.890 22 LC2D80 •• 3.200 37 45 45 55 45 80 25 45 45 45 55 45 95 LC2D95 • • 3.200

With	n mec	hanica	l inter	lock a	nd elec	ctrica	l interlo	cking,	for co	onnect	tion by screw clamp termir	nals or connectors
30	55	59	59	75	80	65	115		1	1	LC2D115●●	6.350
40	75	80	80	90	100	75	150		1	1	LC2D150●●	6.400

Connection by lugs or bars

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

To build a 40 to 65 A reversing contactor, for connection by lugs, order 2 contactors LC1D●●A6 and mechanical interlock LAD4CM (see page B8/43).

Component parts

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

Standard control ci	rcuit	volta	ges (for oth	er vol	tages,	pleas	e cons	sult yo	ur Reç	gional	Sales	Office)
a.c. supply													
Volts	24	42	48	110	115	220	230	240	380	400	415	440	500
LC2D09D150 (D115 and D1	50 coils	with bu	ilt-in su	ppressio	on devic	e as sta	andard)						
50/60 Hz	В7	D7	E7	F7	FE7	M7	P7	U7	Q7	V7	N7	R7	S7
LC2D80D115													
50 Hz	B5	D5	E5	F5	FE5	M5	P5	U5	Q5	V5	N5	R5	S5
60 Hz	В6	-	E6	F6	-	M6	-	U6	Q6	-	-	R6	_
d.c.supply													
Volts	12	24	36	48	60	72	110	125	220	250	440		
LC2D09D38 (coils with integ	ral supp	ression	device	fitted as	s standa	ard, by I	oi-direct	ional pe	eak limit	ing dioc	de)		
U 0.71.25 Uc	JD	BD	CD	ED	ND	SD	FD	GD	MD	UD	RD		
LC2D40AD65A (coils with in	ntegral s	uppres	sion de	vice fitte	ed as sta	andard,	by bi-di	rection	al peak l	limiting	diode)		
U 0.751.25 Uc	JD	BD	CD	ED	ND	SD	FD	GD	MD	UD	RD		
Low consumption													
Volts	5	12	20	24	48	110	220	250					
LC2D09D38 (coils with integ	ral supp	ression	device	fitted a	s standa	ard, by	oi-direct	ional pe	eak limit	ing dio	de)		
U 0.81.25 Uc	AL	JL	ZL	BL	EL	FL	ML	UL					

For other voltages between 5 and 690 V, see pages B8/45 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 D65A: clip-on mounting on 35 mm rail NSYSDR or screw fixing.
- LC2D80 and D95: clip-on mounting on 35 mm ur rail NSYSDR or 75 mm ur rail AM1DL or screw fixing. LC2D115 and D150: clip-on mounting on 35 mm ur rail NSYSDR or screw fixing.
- (3) The weights indicated are for contactors with a.c. control circuit. For d.c. or low consumption control circuit, add 0.330 kg for LC2D09 to D38, 0.150 kg for LC1D40A to D65A.
- (4) For reversing contactors with electrical interlocking pre-wired at the factory, add suffix **V** to the references selected above. Example: LC2D09B7 becomes LC2D09B7V.

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

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TeSys Control Deca Reversing contactors

Product references



LC2D123

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

Pre-wired power connections.

Mechanical interlock without electrical interlocking.

IVICCIII	arnour	IIIICIIC	CIC VVIII	ilout c	icciiice	i interioeking.				
of 3-p	lard po hase n egory / 0°C)	notors	50-60 I	Hz		Rated opera-tional current in AC-3/AC-3e 440 V up to	aux con per	an- eous iliary tacts tactor	Contactors supplied with coil Basic reference, to be completed by adding the voltage code (1)	Weight (3)
							Т	П	Fixing (2)	-
	380 V 400 V	415 V	440 V	500 V	660 V 690 V					
kW	kW	kW	kW	kW	kW	Α				kg
For o	onne	ction b	oy spr	ing te	rminal	5				
2.2	4	4	4	5.5	5.5	9	1	1	LC2D093●●	0.687
3	5.5	5.5	5.5	7.5	7.5	12	1	1	LC2D123●●	0.697
4	7.5	9	9	10	10	18	1	1	LC2D183••	0.707
5.5	11	11	11	15	15	25	1	1	LC2D253●●	0.787
7.5	15	15	15	18.5	18.5	32 (4)	1	1	LC2D323●●	0.797
Powe	er con	nectio	n by l	EverL	ink®, B	TR screw co	nnec	tors (5)	and control by spring terminals	
11	18.5	22	22	22	30	40	1	1	LC2D40A3●●	1.870
15	22	25	30	30	33	50	1	1	LC2D50A3●●	1.880
18.5	30	37	37	37	37	65	1	1	LC2D65A3••	1.890
_										

For connection by Faston connectors

All power connections are to be made by the customer.

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

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

Example: LC2D093 • becomes LC2D099 • •.

Component parts

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

Standard control	circuit	volta	ges (for oth	ier 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	itegral supp	ressior	device	fitted a	s standa	ard, by I	bi-direct	ional pe	eak limit	ting dio	de)		
U 0.71.25 Uc	JD	BD	CD	ED	ND	SD	FD	GD	MD	UD	RD		
LC2D40AD65A (coils wi	th integral s	suppres	sion de	vice fitte	ed as sta	andard,	by bi-di	rection	al peak	limiting	diode)		
U 0.751.25 Uc	JD	BD	CD	ED	ND	SD	FD	GD	MD	UD	RD		
Low consumption													
Volts	5	12	20	24	48	110	220	250					
LC2D09D32 (coils with in	tegral supp	ression	device	fitted as	s standa	ard, by b	oi-direct	onal pe	ak limit	ing dioc	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 \(\sigma\) 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



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 AC-1 Non-inductive loads		antaneous auxiliary tacts per contactor	Contactors supplied with coil	Weight	
Maximum rated operational current $(\theta \le 60 \text{ °C})$			Basic reference, to be completed by adding the voltage code (1)(2)		
			Fixing (3)		
Α				kg	
20	1	1	LC2DT20●●	0.730	
25	1	1	LC2DT25●●	0.730	
32	1	1	LC2DT32●●	0.850	
40	1	1	LC2DT40●●	0.850	
125	_	_	LC2D80004●●	3.200	
200	_	_	LC2D115004●●	7.400	
For connection by lug	s or b	pars			
20	1	1	LC2DT206●●	0.730	
25	1	1	LC2DT256●●	0.730	
32	1	1	LC2DT326●●	0.850	
40	1	1	LC2DT406●●	0.850	

For custor	ner assem	bly		
For connection	on by screw	clamp	terminals or connectors	
60	1	1	LC1DT60A●● (4)	_
80	1	1	LC1DT80A●● (4)	_
For connection	on by lugs o	r bars		
60	1	1	LC1DT60A6●● (4)	_
80	1	1	LC1DT80A6●● (4)	_

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 □ rail NSYSDR or screw fixing. LC2D80: clip-on mounting on 35 mm □ rail NSYSDR or 75 mm □ rail AM1DL or screw
- 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).















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

	· J -		
Pre-assembled, for	cust	tomer assembly	
Pre-wired power connec	tions	, for connection by	spring terminals.
Utilisation category AC-1 Non-inductive loads Maximum rated operational current $(\theta \leqslant 60~^{\circ}\text{C})$		antaneous auxiliary tacts per contactor	Contactors supplied with coil Basic reference, to be completed by adding the control voltage code (1) Fixing (2)
Α			
20	1	1	LC2DT203●●
Power connection by Eve by spring terminals	erLinl	k®, BTR screw conne	ectors ⁽³⁾ and control
60	1	1	LC1DT60A3●● (4)
80	1	1	LC1DT80A3●● (4)

Separate components

Auxiliary contact bl	Auxiliary contact blocks and add-on modules: see pages B8/19 to B8/19.												
Standard control circuit voltages (for other voltages, please consult your Regional Sales Office)													
a.c. supply													
Volts	24	42	48	110	115	220	230	240	380	400	415	440	500
LC2DT20DT40, LC2I	DT60/	٩D	T80A										
50/60 Hz	В7	D7	E7	F7	FE7	M7	P7	U7	Q7	V7	N7	R7	_
LC2D80004D115004													
50 Hz	В5	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		
LC2DT20DT40, LC1I by bi-directional peak lin				ils wi	th inte	gral s	suppre	ession	n devi	ce fitte	ed as	stand	ard,
U 0.71.25 Uc JD BD CD ED ND SD FD GD MD UD RD													
Low consumption													
Volts	5	12	20	24	48	110	220	250					

LC2DT20...DT40 (coils with integral suppression device fitted as standard, by bi-directional peak limiting diode) U 0.8...1.25 Uc AL JL ZL BL EL FL ML UL

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

- (1) Please check the availability of your variant in the index page B8/55. The SEARCH function of your viewer can be used.
- (2) 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 B8/19).
 (4) For these operational currents, order 2 identical contactors and a mechanical interlock
- LAD4CM (see page B8/19).



Schneider Electric

Contactors

TeSys Control

Deca green Reversing contactors

Product references



LC2D09•••



LC2D40A•••

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

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

P	,10 10	• • • • • • • • • • • • • • • • • • • •	19 00	116406	910	motoro ap			1 400 V III oatogoly / to o// to	••
Pre-w	ired po	ower c	onnect	ions						
Standard power ratings of 3-phase moto 50-60 Hz in category AC-3/AC-3e $(\theta \leqslant 60~^{\circ}\text{C})$						Rated opera-tional current in AC-3/AC-3e 440 V up to	Instan- taneou auxilia contac per contac	ry ts	Contactors supplied with coil Partial reference, to be completed by adding the control voltage code (1)	Weight
						_		 ,	Fixing (2)	
220 V 230 V	380 V 400 V	415 V	440 V	500 V	660 V 690 V)	7		
kW	kW	kW	kW	kW	kW	Α				kg
				k, with			cking,	for c	connection by screw clamp terminals	
2.2	4	4	4	5.5	5.5	9	1	1	LC2D09•••	0.783
3	5.5	5.5	5.5	7.5	7.5	12	1	1	LC2D12•••	0.793
4	7.5	9	9	10	10	18	1	1	LC2D18•••	0.803
5.5	11	11	11	15	15	25	1	1	LC2D25•••	0.913
7.5	15	15	15	18,5	18,5	32	1	1	LC2D32•••	0,923
9	18.5	18.5	18.5	18.5	18.5	38	1	1	LC2D38•••	0.933

LC2D40A • • • (3)

LC2D50A • • • (3)

LC2D65A••• (3)

LC2D80A • • • (3)

1

37 Auxiliary contact blocks and add-on modules

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18.5

18.5 22

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See pages B8/36	to B8/42.				
Coil voltage	codes				
AC/DC 24 V DC	supply				
Volts	24 (DC only)	24-60	48-130	100-250	
LC2D09D32, LC2D40A D80A					
U 0.851.1 Uc		BNE	EHE	KUE	
LC2D09D38					
U 0.81.2 Uc	BNE				
LC2D40AD80A					
U 0.81.2 Uc	BBE				



- (2) LC2D09 to D80A: clip-on mounting on 35 mm \perp 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) Electrical interlocking is recommended when 2 orders (direct and reverse) could appeared in the same time.



2.154

2.164

2.174

2.174











LC1DGK.., LC1DLK.., LC1DMK..



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

Special contactors LC1DeK 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 gI type fuses rated at 1.7...2 In. It will ensure the service continuity of the whole installation in case of a capacitor contactor end of life

Maximum operational power

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

Prospective peak current at switch-on	LC1D ● K	-	200 In
Maximum operating rate	LC1DFK, DGK, DLK, DMK		240 operating cycles/hour
	LC1DPK, DTK, DWK		240 operating cycles/hour
Electrical durability at	All contactor ratings	400 V	300 000 operating cycles
nominal load		690 V	200 000 operating cycles

	tional p 60 Hz ⁽¹⁾ °C ⁽²⁾	ower		Instan auxilia contac	•	Tightening torque on cable end	Basic reference, to be completed by adding the voltage code (3) (4)	Weight
230 V	400 V 415 V	440 V	690 V	_ /	7			
kVAR	kVAR	kVAR	kVAR	N/O	N/C	N.m		kg
7	12.5	12.5	21	1	2	1.7	LC1DFK●●	0.430
9.5	16.7	16.7	28.5	1	2	2.5	LC1DGK●●	0.450
11	20	21	33	1	2	2.5	LC1DLK●●	0.600
14	25	27	42	1	2	2.5	LC1DMK●●	0.630
17	30	32	50	1	2	5	LC1DPK●●	1.300
22	40	43	67	1	2	5	LC1DTK••	1.300
35	63	67	104	1	2	9	LC1DWK12●●	1.650

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

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

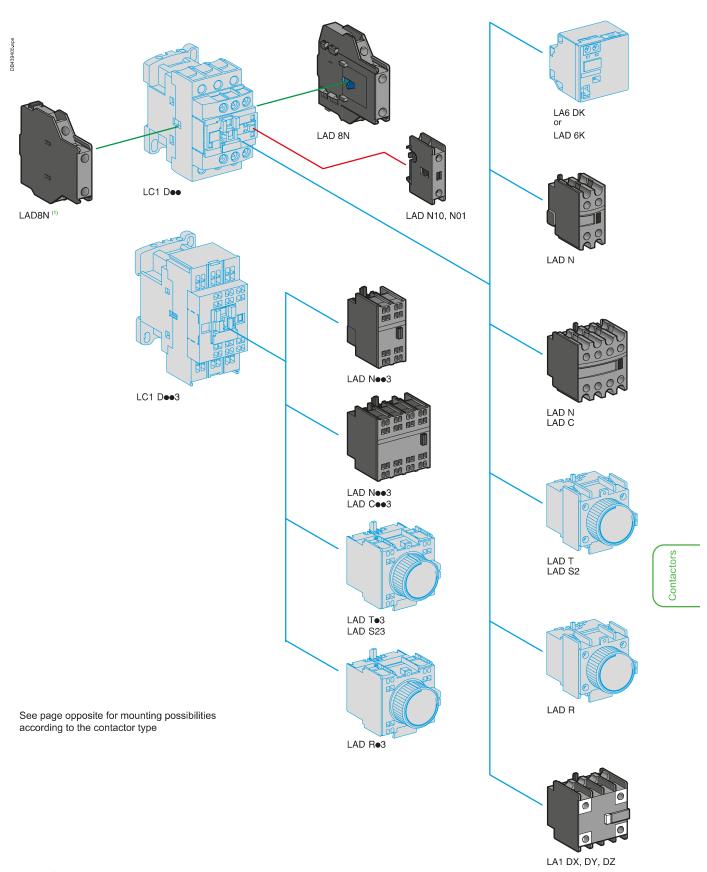
Example: 50 kVAR 3-step capacitor bank. Temperature: 50 °C and U = 400 V or 440 V. One 25 kVAR step: contactor LC1DMK, one 15 kVAR step: contactor LC1DGK, and one 10 kVAR step: contactor LC1DFK.

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

Volts	24	48	110	120	220	230	240	380	400	415	440
50/60 Hz	B7	E7	F7	G7	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.

Schneider Felectric



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	ng environments						•	
Clip-on mounting	Number of contacts per block		mpc	sitio	<u> </u>	<u>_</u>	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 particเ	larly	y ha	ırsh	ind	ustria	I environment	s
Front	2	_	2	_	_	_	LA1DX20	
		1	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:

Instantaneous auxiliary contacts						
mounted	- 1	Front mou	Front			
	7	1 contact	2 contacts	4 contacts	mounted	
.H or 1 on RH side ⁽³⁾ ar	nd -	_	1	or 1	or 1	
.H or 1 on RH side ar	nd -	_	1	or 1	or 1	
each side or	r 2	2	and 1	or 1	or 1	
each side ar	nd 2	2	and 1	or 1	or 1	
.H side ar	nd -	-	1	or 1	or 1	
_H side ar	nd -	_	1	or 1	or 1	
.H or 1 on RH side ar	nd -	_	1	or 1	or 1	
each side or	r '	1	or 1	or 1	or 1	
each side ar	nd '	1	or 1	or 1	or 1	
	-		1	or 1	or 1	
	-		1	or 1	or 1	
		1	or 1	or 1	or 1	
₋H side ar	nd -	_	1	or 1	or 1	
	-	_	1	or 1	or 1	
	-	_	1	or 1	or 1	
_		2	and 1	or 1	or 1	
each side	-	_	and 1	or 1	or 1	
	-	_	1	_	-	
·		_	1	_	-	
			(4) LC: low consumption.		(4) LC: low consumption.	

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

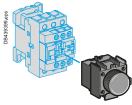
Characteristics: pages B8/88 and B8/89 Curves:

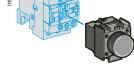
Dimensions:

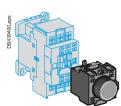
Deca Contactors - Time delay auxilliary contact blocks

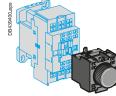
Product references







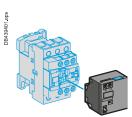








LAD6K10e



Front

Time delay auxiliary contact blocks for connection by screw clamp terminals

Maximum number of auxiliary contact blocks that can be fitted per contactor, see

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	ıy	Reference
	of contacts	Туре	Setting range	
Front	1 N/O + 1 N/C	On-delay	0.33 s	LADT0
			130 s	LADT2
			10180 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

Add the figure 3 to the end of the references selected above, Example: LADT0 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: LADT0 becomes LADT09.

Mechanic	al latch bl	ocks (1)	
Clip-on mounting	Unlatching control	For use on contactor	

Manual or

electric

the control voltage code LC1D09...D38 (\sim or =) (4) LAD6K10e LC1DT20...DT40 (\sim or =

Basic reference, to be completed by adding

LA6DK20●

LA6DK10●

LC1D40A...D80A LAD6K10● $(3 P \sim or = ...)$ LC1DT60A and DT80A

(4 P <u>∼ or </u>---) LC1D80...D150 (3 P ∼) LC1D80 and D150 (3 P ---) LC1D80 (4 P ∼)

LC1D80 and D115 (4 P ~) LP1D80 and LC1D115 (4 P ==) LC1D40 and D65 (4 P ∼)

LP1D40 and D65 (4 P ...) (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,

≥ 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	E	EN	K	F	М	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.







TeSys Control

Deca Contactors - Suppressor modules

Product references



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).

Mounting	For use with contactor (1)		Reference
	Rating	Туре	
		v ~ v	
Clip-on side mounting (2) (3)	D09D38 (3P)	2448 -	LAD4RCE
	DT20DT40	50127 -	LAD4RCG
		110250 -	LAD4RCU
Clip-on front mounting (2)(3)	D40AD65A (3P)	2448 -	LAD4RC3E
	DT60ADT80A (4P)	50127 –	LAD4RC3G
		110240 -	LAD4RC3U
		380415 -	LAD4RC3N
Screw fixing (4)	D80D150 (3P)	2448 –	LA4DA2E
	D40D115 (4P)	50127 –	LA4DA2G
		110240 -	LA4DA2U
		380415 -	LA4DA2N



LAD4RC3•, LAD4V3•, LAD4D3U, LAD4T3•

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 norm	al time).		
Clip-on side mounting (2) (3) D09D38 (3P)	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)	2448	_	LA4DE2E
	D80D115 (4P)	50127	_	LA4DE2G
		110250	_	LA4DE2U
	D80D95 (3P)	_	2448	LA4DE3E
	D80 (4P)	_	110 250	LA4DE3U



Contactors

Flywheel diodes

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

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), D40D80 (4P)	_	24250	LA4DC3U	



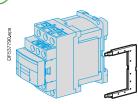
LA4DC3U

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)	24	_	LAD4TB
	DT20DT40 (4P) (6)	_	24	LAD4TBDL
		72	_	LAD4TS
		_	72	LAD4TSDL
		_	125	LAD4TGDL
		_	250	LAD4TUDL
Clip-on front mounting (2)	D40AD65A (3P)	1224	1224	LAD4T3B
	DT60ADT80A (4P) (6)	2572	2572	LAD4T3S
		73125	73125	LAD4T3G
		126250	126250	LAD4T3U
		251440	251440	LAD4T3R
Screw fixing (4)		_	24	LA4DB3B
		_	72	LA4DB3S

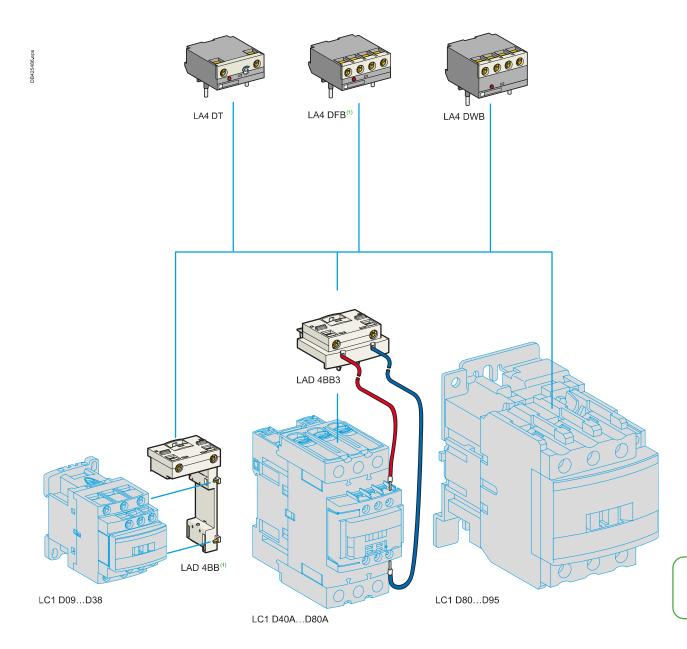


LAD4DDL or $LAD4T \bullet DL$

- (1) For satisfactory protection, a suppressor module must be fitted across the coil of each contactor except for Deca green (● € 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).



Characteristics:



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

TeSys Control Deca Contactors - Accessories

Product references



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.

to so or doron copa.	,,		
Relay interface			
Operational voltage	\sim	Supply	Reference
24250 V		voltage E1-E2 ()	
LC1D09D150 (3P)		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
LC1D09D80A (3P)	LC1D80D115 (3P)	24 V	LA4DWB

LO IDOODOOM (OF)	LO 1000D 110 (01) 21 V	27172112
Adapter kit fo	r low control signal	
For use on contactors	Composition	Reference
LC1D40AD80A (3P) (2)	1 LAD4BB3 coil wiring adapter1 LA4DFB relay interface module	LA4DBL

Wiring adapters for coil retrofit of 3 pole contactors			
For adapting ex	isting wiring to a new	product	
For use on contactors			Reference
LC1D09D38	Without coil suppression	n	LAD4BB (3)
	With coil suppression	∼ 24…48 V	LAD4BBVE
		~ 50127 V	LAD4BBVG
		~ 110250 V	LAD4BBVU
LC1D40A80A	Without coil suppression	n	LAD4BB3

- (1) For 24 V operation, the contactor must be fitted with a 21 V coil (code Z). See pages B8/45 to B8/48.
 (2) The kit is compatible with a coil voltage of ~ 24 V to ~ 250 V (B7 to U7)
- and == 24 V to == 250 V (BD to UD).
- (3) LAD4BB can not be used with 4 poles contactors.

B8/40

TeSys Control Deca Contactors - Accessories

Product references



LA9D3260



LA9D11560•



LA9D115503



LAD96570



LA9D11570•





LA9D11567

Description		For use with cont	tactors LC1	Sold in	n Unit	
		~	===		reference	
Connectors for cable, size 1 connector)	4-pole 10 mm ²	DT20, DT25	DT20, DT25	1	LAD92560	
	3-pole 25 mm ²	D09D38	D09D38	1	LA9D3260	
EverLink® erminal block	3-pole	D40AD80A	D40AD80A	1	LAD96560	
Connectors for cables	3-pole 120 mm ²	D115, D150	D115, D150	1	LA9D115603	
2 connectors)	4-pole 120 mm ²	D115	D115	1	LA9D115604	
Connectors for ug type terminals 2 connectors)	3-pole	D1156, D1506	D1156, D1506	1	LA9D115503	
Protective covers for connectors for ug type terminals	3-pole	D40A6D80A6	D40A6D80A6	1	LAD96570	
		D1156, D1506	D1156, D1506	1	LA9D115703 (1)	
	4-pole	D60A6D80A6	D60A6D80A6	1	LAD96580	
	p	D1156, D1506	D1156, D1506	1	LA9D115704	
P 20 covers for lug type erminals (for mounting with ircuit breakers GV3 P••6 nd GV3 L••6)	3 poles	D40A6D80A6	D40A6D80A6	1	LAD96575	
inks for arallel connection of	2 poles	D09D38	D09D38	10	LA9D2561	
		DT32, DT40 (4P)	DT32, DT40 (4P)	10	LAD96061	
		D40AD80A	D40AD80A	1	LAD9P32	
		D80, D95	D80, D95	2	LA9D80961	
	3 poles	D09D38	D09D38	10	LAD9P3 (2)	
		 D40AD80A	D40AD80A	1	LAD9P33	
		D80, D95	D80, D95	1	LA9D80962	
	4 poles	DT20, DT25	DT20, DT25	2	LA9D1263	
		D80	D80	2	LA9D80963	
		<u> </u>	D80	10	LA9D09966	
Staggered coil connection				40	LA9D8067	
Control circuit take-off		D80, D95	D80, D95	10	LASDOUGI	
		D80, D95 D115, D150	D80, D95 D115, D150	10	LA9D11567	

- (1) For 3-pole contactors: 1 set of 6 covers, for 4-pole contactors: 1 set of 8 covers.
- (2) Separate connecting bar for connecting 2 poles in parallel.



Control Panel Technical Guide:

for increasing the pole pitch to 45 mm

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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TeSys Control Deca Contactors - Accessories

Contractor un	nd arc chambers			
Description	For contactor		Reference	
Sets of contacts	3-pole	LC1D115	LA5D1158031	
		LC1D150	LA5D150803	
	4-pole	LC1D115004	LA5D115804	
Arc chambers	3-pole	LA5D11550		
Power connection	accessories			
Terminal block	For supply to one or more	GV2G busbar sets	GV1G09	
Set of 63 A busbars	2 contactors LC1D09D1	18 or D25D38	GV2G245	
for parallelling of contactors	4 contactors LC1D09D	GV2G445		
Set of 115 A busbars	2 contactors LC1D40A[D80A	GV3G264	
for parallelling of contactors	3 contactors LC1D40A[GV3G364 (1)		
Set of S-shape busbars	For circuit breakers GV3P	GV3S		





LAD9ET1



LAD9ET1S



LAD21...22



LAD90

	* · · · ·
74.eps	
PB121374.eps	
	LAD7X3

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

Marking accessorie	es		
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 accesso	ries		
Retrofit plate for screw fixing	For replacement of LC1D40 to with LC1D40A to D80A	D80 1	LAD7X3
Mounting plate	For replacement of LC1F115 o with LC1D115 or D150	r F150 1	LA9D730
Size 4 Allen key, insulated,	For use on contactors	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 = 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





Contactors with screw clamp terminals or connectors. Horizontally mounted, assembled by customer.

LC1D09 to D38

LC1D09 to D38

LC1D40A to D80A

Description	For contactors (1) (2 identical contactors)	Reference

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).

Kit comprising: ■ a mechanical interlock LAD9V2

without electrical interlocking

■ a set of power connections LAD9V5 (parallel)

and LAD9V6 (reversing).

Kit comprising:

■ a mechanical interlock LAD4CM

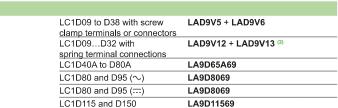
a set of power connections LA9D65A69

a set of power confidentions EASDOSAGS.			
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 (∼)	LA9D50978	
	LC1D80 and D95 ()	LA9D80978	

Sets of power connections

Comprising:

- a set of parallel bars
- a set of reverser bars.



LAD9R1V

LAD9R1

LAD9R3

For star-delta starter	
Description	

Mounting kit comprising: ■ 1 time delay contact block LADS2 (LC1D09...D9

- power circuit connections (LC1D09...D95),
 hardware required for fixing the contactors onto the mounting plate (LC1D80 & D95).

Equipment mounting	plates

	For contactors	Reference	Without timer LADS2
)5),	LC1D09 to D38 (3)	LAD91217	LAD91218
	LC1D25 to D38 (4)	LAD93217	LAD93218
he	LC1D40A to D80A	LAD9SD3	-
	LC1D50 to D80 (5)	LA9D8017	-
	LC1D80 & D95 (6)	LA9D8018	=
	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.

 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).
- 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.
 (5) For assembly of Main + Delta contactors LC1D80 with Star contactor LC1D50 or D65
- 6) For assembly of 3 x LC1D80 or 3 x LC1D95 or with Main + Delta contactors LC1D95 with Star contactor LC1D80. Note: LA9D8017 is without mechnical interlock and LA9D8018 is with mechnical interlock.

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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TeSys Control Deca Contactors - Assembly kits

Product references



LADT9R1V

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

Contactors with screw clamp terminals or connectors. Horizontally mounted, assembled by customer.

For contactors (1) Description (2 identical contactors)

Kits for assembly of changeover contactor pairs

■ a mechanical interlock LAD9V2 with electrical interlocking LAD9V1,

Kit comprising:

a set of power connections (changeover) LAD9V7.

LC1DT20 to DT40 with screw clamps or connectors

LC1DT20 to DT40 with

screw clamps or connectors

LADT9R1V

LADT9R1

Reference





_		_		٠.		1-	-			_	-				_	-	-	
r	Иe	c	h	lá	an	ic	2	al	ir	١t	e	r	i	o	С	k	S	;
		-	-					-				-	Ξ.	-	-			
W	/ith	١i	ni	te	aı	a	ı											



LA9D50978





LA9D8070



LAD9R3S

without electrical interlocking, ■ a set of power connections (changeover) LAD9V7.				
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)		

For 3-pole changeover contactor pairs

Contactors with screw clamp terminals or connectors. Horizontally mounted, assembled by customer.

Description	For contactors (1) (2 identical contactors)	Reference
Kits for assembly of changeover contactor pairs		
Kit comprising: ■ a mechanical interlock LAD4CM	LC1D40AD80A	LAD9R3S

■ a set of parallel bars LA9D65A6

Mechanical interlocks

Without integral electrical interlocking LC1D40A...D80A LAD4CM With integral electrical interlocking LC1D115 and D150 LA9D11502

Sets of power connections

Comprising a set of parallel bars LC1D40A...D80A LA9D65A6 and D150 LA9D11571

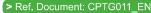
(1) To order the 2 contactors: see pages B8/23 and B8/29.

(2) Order 2 contact blocks LADNe1 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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B8/44

TeSys Control Deca Contactors - Coils

Product references



a.c coils for ∼ 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 %	Inductance of closed circuit	Reference (1)
V	Ω	Н	
10	4.00	2.25	50/60 Hz
12	1.33	0.05	LXD1J7
24	5.37	0.22	LXD1B7
32	10.1	0.39	LXD1C7
42	17	0.67	LXD1D7
48	21.7	0.87	LXD1E7
110	124.1	4.6	LXD1F7
115	129.8	5	LXD1FE7
120	150.6	5.4	LXD1G7 (2)
200	410.7	15	LXD1L7
208	430.4	16	LXD1LE7 (2)
220	515.4	18	LXD1M7 (3)
230	538.6	20	LXD1P7
240	562.3	22	LXD1U7
277	800.7	29	LXD1W7 (2)
380	1551	55	LXD1Q7 (4)
400	1633	60	LXD1V7
415	1694	65	LXD1N7
440	1993	73	LXD1R7
480	2398	87	LXD1T7 (2)
500	2499	95	LXD1S7
575	3294	125	LXD1SC7
600	3810	136	LXD1X7
660	4656	165	LXD1YC7
690	5020	180	LXD1Y7

- (1) The last 2 digits in the reference represent the voltage code.
 (2) Coil for use only on 60 Hz.
 (3) Suitable for use on 230 V / 50 Hz. In this case, apply a coefficient of 0.6 to the mechanical durability of the contactor (see pages B8/82 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).

TeSys Control Deca Contactors - Coils

Product references



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 \$\phi\$ = 0.3) 50 Hz: 15 VA, 60 Hz: 15 VA.

Operating range ($\theta \le 60$ °C): 50 Hz: 0.8...1.1 Uc, 60 Hz: 0.85...1.1 Uc.

Control circuit voltage	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).

ontactors

TeSys Control Deca Contactors - Coils

Product references



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	Average resistance at 20 °C ±10 %	Inductance of closed circuit	Reference
٧	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	-	_	_	1.22	0.08	LX1D6B7
48	-	_	-	5	0.32	LX1D6E7
110	-	_	-	26	1.7	LX1D6F7
120	_	_	-	32	2	LX1D6G7
220/230	(2)	_	_	102	6.7	LX1D6M7
230	_	_	_	115	7.7	LX1D6P7
230/240	(3)	_	_	131	8.3	LX1D6U7
380/400	(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.
- (1) Include 2 digital in the tenter to present a two water contacts of 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.



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	Average resistance at 20 °C ±10 %	Inductance of closed circuit	Reference (1)
٧	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 %	Inductance of closed circuit	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
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.

TeSys Control Deca Contactors - Coils

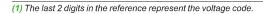
Product references

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





LX4D7JD

TeSys Control Deca Contactors - Coils

Product references

d.c. coils for contactors LC1D115, D150

Specifications

Control circuit voltage Uc

٧

24

60

220

250

Consumption: inrush 270 to 365 W, sealed 2.4 to 5.1 W. Operating range: 0.75...1.2 Uc.

Ω

1673

9895

18 022

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

Average resistance at 20 °C ± 10 %

Inductance of

closed circuit

н

3.03

38.44

210.72

345.40

Reference (1)

LX4D8BD

LX4D8ND

LX4D8MD

LX4D8UD

Weight

kg

0.300

0.300

0.300

0.300



LX4D8●D

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

TeSys Control Modular Contactors

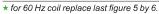






GC10020

No. of poles 17.5 mm modules 50 Hz coil - different voltages in lot of 12 24 48 110 220/240
12 24 48 110 220/240
Maximum current rating category AC-7a - 16 A
1 - 1 GC1610E5 - GC1610M5 * 12
1 1 1 - GC1611B5 - GC1611F5 GC1611M5 * 12
2 - 1 - GC1620B5 - GC1620F5 ★ GC1620M5 ★ 12
2 2 2 GC1622F5 ★ GC1622M5 6
3 - 2 GC1630M5 ★ 6
4 - 2 GC1640F5 GC1640M5 * 6
Maximum current rating category AC-7a - 25 A
_ 2 1 _ GC2502B5 GC2502E5 ★ GC2502M5 ★ 12
- 4 2 - GC2504B5 GC2504E5 * GC2504M5 * 6
1 - 1 - GC2510B5 GC2510M5 * 12
1 1 1 GC2511M5 * 12
2 - 1 GC2520J5 GC2520B5 GC2520M5 * 12
2 2 2 - GC2522B5 GC2522M5 * 6
3 - 2 GC2530F5 GC2530M5 * 6
3 1 2 GC2531M5 6
4 - 2 GC2540E5 GC2540F5 * GC2540M5 * 6
Maximum current rating category AC-7a - 40 A
- 2 2 GC4002M5 ★ 6
- 4 3 GC4004M5 4
1 1 2 GC4011M5 * 6
2 - 2 GC4020F5 * GC4020M5 * 6
2 2 3 GC4022M5 4
3 - 3 GC4030M5 * 4
4 - 3 GC4040M5 * 4
Maximum current rating category AC-7a - 63 A
- 2 2 GC6302M5 6
- 2 2 GC6302M5 0 - 4 3 - GC6304B5 GC6304M5 4
3 - 3 GC6330M5 * 4 4 - 3 GC6340B5 GC6340B5 - GC6340M5 * 4
3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
Maximum current rating category AC-7a - 100 A
2 - 3 GC10020M5 4
4 - 6 - GC10040B5 GC10040M5 * 2







TeSys Control Modular "Dual tariff" contactors



GY2520M5



GY6340M5

Modu	lar "du	al tariff" c	ontactor	s - 17.5 mm p	itch for	modular pai	nels	
No. of poles	<u>L</u> .	Number 17.5 mm modules	50 Hz co	cial reference il - different voltage	s			Sold in lots of
	7		12	24	48	110	220/240	
)	1		V	V	V	V	V	
Maximu	m current	rating categor	y AC-7a - 16	Α				
2	-	1	-	GY1620B5		-	GY1620M5	12
4	_	2	_	_	_	_	GY1640M5	6
Maximu	m current	rating categor	y AC-7a - 25	Α				
2	-	1	-	_	_	-	GY2520M5 ★	12
4	_	2	_	-	_	_	GY2540M5	6
Maximu	m current	rating categor	y AC-7a - 40	Α				
2	-	2	-	-	-	-	GY4020M5	6
4	_	3	_	_	_	_	GY4040M5	4
Maximum current rating category AC-7a - 63 A								
2	-	2	_	_	_	_	GY6320M5	6
4	_	3	_	GY6340B5	_	_	GY6340M5	4

[★] for 60 Hz coil replace last figure 5 by 6.







TeSys Control Modular Impulse relays



Maximum current	Comp	Composition		Coil voltages		Unit
rating category AC-1	\	7	∼ 50/60 Hz		lots of	reference
Α			٧	٧		
16	2	_	12	6	12	GF1620J7
			24	12	12	GF1620B7
			110	48	12	GF1620F7
			230/240	110	12	GF1620U7
	1	1	12	6	12	GF1611J7
			24	12	12	GF1611B7
			220	_	12	GF1611M7
			230/240	110	12	GF1611U7





TeSys Control Modular Contactors - Accessories















A9A15923

Instantaneou	s auxiliary contact blocks	
Number of contacts	s Number of poles	Reference
2	1 1 –	GAC0521
	- 2 -	GAC0531
	1	GAC0511

Accessories					
Description	For use on contactor	Number of modules	Operational voltage in V	Sold in lots of	Unit reference
Coil suppression blocks comprising	-	1	1248	1	GAP21
2 RC circuits			110240	1	GAP23
Ventilation 1/2 module clips onto ∟r rail	-	1/2	-	10	GAC5
Set of screw shields (10 top parts	40 or 63 A 2 contacts	2	_	1	A9A15922
+ 10 bottom parts)	40 or 63 A 3 or 4 contacts	3	_	1	A9A15923

TeSys Control Contactors

Product references

DPE09P7	GF1611M7	LA4DA2U	LA9D32974	LAD6K10B	LADC223
DPE12P7	GF1611U7	LA4DB3B	LA9D4002	LAD6K10E	LADC226
DPE1801P7	GF1620B7	LA4DB3S	LA9D40961	LAD6K10F	LADN01
DPE18P7	GF1620F7	LA4DBL	LA9D40963	LAD6K10J	LADN02
DPE2501P7	GF1620U7	LA4DC1U	LA9D5017	LAD6K10K	LADN023
DPE25P7	GS2AH4120F	LA4DC3U	LA9D50978	LAD6K10M	LADN026
DPE32B7	GV1G09	LA4DE1E	LA9D511	LAD7X3	LADN04
DPE32P7	GV2G05	LA4DE1G	LA9D6567	LAD8N02	LADN043
GAC0511	GV2G245	LA4DE1U	LA9D6569	LAD8N026	LADN046
GAC0511	GV2G254	LA4DE10	LA9D65A6	LAD8N11	LADN040 LADN10
GAC0531	GV2G272	LA4DE2G	LA9D65A69	LAD8N116	LADN11
GAC5	GV2G345	LA4DE2U	LA9D730	LAD8N11G	LADN113
GAP21	GV2G354	LA4DE3E	LA9D8002	LAD8N20	LADN113G
GAP23	GV2G445	LA4DE3U	LA9D8017	LAD8N206	LADN113P
GC10020M5	GV2G454	LA4DFB	LA9D8018	LAD90	LADN116
GC10040M5	GV2G472	LA4DT0U	LA9D8067	LAD901	LADN11G
GC1610M5	GV2G554	LA4DT2U	LA9D8069	LAD9011	LADN11P
GC1611B5	GV3G264	LA4DT4U	LA9D80691	LAD903	LADN13
GC1611F5	GV3G364	LA4DWB	LA9D8070	LAD904	LADN133
GC1611M5	GV3S	LA4KA1U	LA9D8079	LAD91209	LADN136
GC1620B5	GY1620B5	LA4KC1B	LA9D80961	LAD91217	LADN13G
GC1620D7	GY1620M5	LA4KC1E	LA9D80962	LAD91218	LADN13P
GC1620F5	GY2520M5	LA4KC2B	LA9D80963	LAD912GV	LADN20
GC1620M5	GY2520M6	LA4KE1B	LA9D80973	LAD92560	LADN203
GC1620M6	GY2540M5	LA4KE1E	LA9D80978	LAD92300 LAD93217	LADN206
GC1622F5	GY4020M5	LA4KE1FC	LA9D894	LAD93218	LADN22
GC1622M5	GY4040M5	LA4KE1UG	LA9D898	LAD96061	LADN223
GC1630M5	GY6320M5	LA4SKC1U	LA9D90	LAD96560	LADN223G
GC1640F5	GY6340M5	LA4SKE1E	LA9D901	LAD96566	LADN226
GC1640M5	LA1DX02	LA4SKE1U	LA9D92	LAD96570	LADN22G
GC2502B5	LA1DX11	LA5D11550	LA9D93	LAD96575	LADN22P
GC2502E5	LA1DX20	LA5D1158031	LA9D99	LAD96580	LADN22S
GC2502M5	LA1DY20	LA5D115804	LA9E01	LAD9722	LADN31
GC2504B5	LA1DZ31	LA5D150803	LA9E02	LAD9723	LADN313
GC2504M5	LA1DZ40	LA6DK10C	LA9K0969	LAD9744	LADN313G
GC2510B5	LA1KN02	LA6DK10J	LA9K105I	LAD9BB18	LADN316
GC2510M5	LA1KN023	LA6DK10U	LA9K105S	LAD9BB32	LADN31G
GC2511M5	LA1KN02M	LA6DK20B	LA9KNS35	LAD9DL3	LADN31P
GC2520B5	LA1KN04	LA6DK20E	LAD21	LAD9ET1	LADN40
GC2520F6	LA1KN043	LA6DK20F	LAD22	LAD9ET1S	LADN403
GC2520J5	LA1KN11	LA6DK20J	LAD4BB	LAD9ET2	LADN403G
GC252035 GC2520M5	LA1KN113	LA6DK20M	LAD4BB3	LAD9ET3S	LADN406
GC2520M5 GC2520M6		LA6DK20W	LAD4BBVE		LADN40G
	LA1KN11M			LAD9ET4	
GC2522B5	LA1KN13	LA7D902	LAD4BBVG	LAD9ET4S	LADR0
GC2522M5	LA1KN133	LA9D0921	LAD4BBVU	LAD9P3	LADR03
GC2530F5	LA1KN20	LA9D09976	LAD4CM	LAD9P32	LADR06
GC2530M5	LA1KN203	LA9D09980	LAD4D3U	LAD9P33	LADR2
GC2530M6	LA1KN207	LA9D09981	LAD4DDL	LAD9R1	LADR23
GC2531M5	LA1KN22	LA9D11502	LAD4RC3E	LAD9R11	LADR26
GC2540E5	LA1KN223	LA9D11517	LAD4RC3G	LAD9R1V	LADR4
GC2540M5	LA1KN223M	LA9D115503	LAD4RC3N	LAD9R3	LADR43
GC2540M6	LA1KN22M	LA9D115603	LAD4RC3U	LAD9R3S	LADR46
GC4002M5	LA1KN31	LA9D115604	LAD4RCE	LAD9SD3	LADS2
GC4004M5	LA1KN313	LA9D11567	LAD4RCG	LAD9SD3S	LADS23
GC4011M5	LA1KN316	LA9D11569	LAD4RCU	LAD9V1	LADS26
GC4020F5	LA1KN317	LA9D115691	LAD4T3B	LAD9V10	LADT0
GC4020F6	LA1KN31M	LA9D115692	LAD4T3B	LAD9V11	LADT03
GC4020M5	LA1KN40			LAD9V12	
		LA9D11570	LAD4T3R LAD4T3S	LAD9V12 LAD9V13	LADTO
GC4020M6	LA1KN403	LA9D115703			LADT2
GC4022M5	LA1KN407	LA9D115704	LAD4T3U	LAD9V14	LADT23
GC4030M5	LA1SK01	LA9D11571	LAD4TB	LAD9V15	LADT26
GC4040M5	LA1SK02	LA9D1263	LAD4TBDL	LAD9V16	LADT4
GC4040M6	LA1SK11	LA9D1269	LAD4TGDL	LAD9V17	LADT46
GC6302M5	LA1SK20	LA9D12974	LAD4TS	LAD9V2	LADT9R1
GC6304B5	LA2KT2E	LA9D15017	LAD4TSDL	LAD9V5	LADT9R1V
GC6304M5	LA2KT2U	LA9D16906	LAD4TUDL	LAD9V6	LAZR90M
GC6320M5	LA4DA1E	LA9D1860	LAD4V3E	LAD9VP1	LAZR90Q
GC6330M5	LA4DA1G	LA9D1869	LAD4V3G	LAD9VP2	LAZR91F
GC6330M6	LA4DA1U	LA9D2561	LAD4V3U	LAD9VP3	LC1D066BD
GC6340B5	LA4DA2E	LA9D2569	LAD4VE	LAD9VP4	LC1D066F7
GC6340M5	LA4DA2G	LA9D3260	LAD4VG	LADALLEN4	LC1D066M7
GF1611B7	LA4DA2N	LA9D3269	LAD4VU	LADC22	LC1D06P7
GI IUIIDI	LM4DMZN	LM3D3Z03	LMD44U	LMDU22	LC IDOOF/

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LC1D093B7	LC1D09FL	LC1D115B7	LC1D128F7	LC1D150BD	LC1D18BL
LC1D093BD	LC1D09G7	LC1D115BD	LC1D128FD	LC1D150D7	LC1D18BNE
LC1D093BL	LC1D09GD	LC1D115D7	LC1D128G7	LC1D150E7	LC1D18C7
LC1D093E7	LC1D09JD	LC1D115E5	LC1D128L7	LC1D150ED	LC1D18CD
LC1D093ED	LC1D09JL	LC1D115E7	LC1D128M7	LC1D150F7	LC1D18D5
LC1D093F7	LC1D09K7	LC1D115ED	LC1D128MD	LC1D150FD	LC1D18D7
LC1D093FD	LC1D09KUE	LC1D115F5	LC1D128P7	LC1D150FE7	LC1D18E5
LC1D093FE7	LC1D09L7	LC1D115F6	LC1D128RD	LC1D150G7	LC1D18E7
LC1D093FL	LC1D09LE7	LC1D115F7	LC1D128T7	LC1D150GD	LC1D18ED
LC1D093G7	LC1D09M7	LC1D115FD	LC1D128U7	LC1D150K7	LC1D18EHE
LC1D093GD	LC1D09MD	LC1D115FE7	LC1D129SD	LC1D150LE7	LC1D18EL
LC1D093M7	LC1D09N7	LC1D115G6	LC1D12B5	LC1D150M7	LC1D18F7
LC1D093MD	LC1D09ND	LC1D115G7	LC1D12B7	LC1D150MD	LC1D18FC7
LC1D093N7	LC1D09P5	LC1D115GD	LC1D12BD	LC1D150N7	LC1D18FD
LC1D093ND	LC1D09P7	LC1D115K7	LC1D12BL	LC1D150P7	LC1D18FE7
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LC1D093U7	LC1D09R7	LC1D115LE7	LC1D12C7	LC1D150R7	LC1D18G7
LC1D096B7	LC1D09RD	LC1D115M5	LC1D12CD	LC1D150SD	LC1D18GD
LC1D096BD	LC1D09SD	LC1D115M7	LC1D12D5	LC1D150T7	LC1D18J7
LC1D096BL	LC1D09T7	LC1D115MD	LC1D12D7	LC1D150U7	LC1D18JD
LC1D096CD	LC1D09U7	LC1D115N7	LC1D12E5	LC1D150V7	LC1D18JL
LC1D096F7	LC1D09UD	LC1D115P5	LC1D12E7	LC1D17000F7CS003	LC1D18K7
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LC1D096FL	LC1D09W7	LC1D115Q7	LC1D12EHE	LC1D183B7	LC1D18L7
LC1D096G7	LC1D09X7	LC1D115R7	LC1D12EL	LC1D183BD	LC1D18LE7
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LC1D096L7	LC1D1150046BD	LC1D115S7	LC1D12FD	LC1D183E7	LC1D18MD
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LC1D096P7	LC1D1150046N5	LC1D115U5	LC1D12JD	LC1D183FL	LC1D18P5
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LC1D096R7	LC1D1150046U5	LC1D115V7	LC1D12K7	LC1D183M7	LC1D18Q7
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LC1D096SL	LC1D115004007	LC1D123BD	LC1D12L7	LC1D183P7	LC1D18SC7
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LC1D098B7	LC1D115004BD	LC1D123E7	LC1D12M7	LC1D186B7	LC1D18T7
LC1D098BD	LC1D115004ED	LC1D123ED	LC1D12MD	LC1D186BD	LC1D18U7
LC1D098BL	LC1D115004F7	LC1D123ED	LC1D12ND	LC1D186BL	LC1D18V7
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LC1D098E7	LC1D115004FE7	LC1D123FD	LC1D12ND LC1D12P5	LC1D186E7	LC1D253BD
LC1D098ED	LC1D115004G6	LC1D123M7	LC1D12P7	LC1D186EL	LC1D253BL
LC1D098E7	LC1D115004M3	LC1D123M7	LC1D12P7	LC1D186F7	LC1D253E7
LC1D098FD	LC1D115004M7	LC1D123F7	LC1D12Q7	LC1D186FD	LC1D253E7
LC1D098G7		LC1D126B7		LC1D186G7	
	LC1D115004P5		LC1D12RD		LC1D253FD
LC1D098JD LC1D098M7	LC1D115004P7	LC1D126BD LC1D126BL	LC1D12SD	LC1D186K7 LC1D186L7	LC1D253M7
LC1D098MD	LC1D115004Q5 LC1D115004RD	LC1D126ED	LC1D12T7 LC1D12U7	LC1D186M7	LC1D253MD LC1D253P7
LC1D098ND	LC1D115004RD	LC1D126ED	LC1D12U7		LC1D253F7
				LC1D186ND	
LC1D098U7 LC1D099F7	LC1D115004V7 LC1D115006F7C	LC1D126FD LC1D126FL	LC1D12X7 LC1D12Y7	LC1D186P7 LC1D186R7	LC1D253V7 LC1D256B7
LC1D099F7 LC1D099G7	LC1D115006F7C	LC1D126FL LC1D126G7	LC1D1217	LC1D186SD	LC1D256BD
LC1D099G7	LC1D11500F7CS003	LC1D126G7	LC1D15000F7CS003	LC1D186SL	
LC1D09B7	LC1D1156B7	LC1D126KD	LC1D15000F7CS003	LC1D186U7	LC1D256BL LC1D256F7
LC1D09BD	LC1D1156BD	LC1D126L7	LC1D15000M7C3003	LC1D1883P7	LC1D256FD
LC1D09BL	LC1D1156E7	LC1D126M7	LC1D1506B7	LC1D188B7	LC1D256FD
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LC1D09BNE	LC1D1156F7	LC1D1286FD	LC1D1506E7	LC1D188BL	LC1D256KD
LC1D09CD	LC1D1156FD	LC1D1286G7	LC1D1506FD	LC1D188D7	LC1D256L7
LC1D09D5	LC1D1156FE7	LC1D1286L7	LC1D1506FD	LC1D188E7	LC1D256M7
LC1D09D7	LC1D1156G7	LC1D1286LE7	LC1D1506G7	LC1D188ED	LC1D256P7
LC1D09D7	LC1D1156L7	LC1D1286P7	LC1D1506K7	LC1D188F7	LC1D256P7
LC1D09E7	LC1D1156L7 LC1D1156LE7	LC1D1286U7	LC1D1506LE7	LC1D188FD	LC1D25807 LC1D2583P7
		LC1D128B7	LC1D1506MD		
LC1D09ED	LC1D1156M5			LC1D188G7	LC1D2586BD
LC1D09EE7	LC1D1156M7	LC1D128BD	LC1D1506N7	LC1D188M7	LC1D2586F7 LC1D2586FD
LC1D09EHE	LC1D1156MD	LC1D128BL LC1D128CD	LC1D1506P7	LC1D188MD	
LC1D09EL	LC1D1156N7		LC1D1506Q7	LC1D188P7	LC1D258B7
LC1D09F7	LC1D1156P7	LC1D128D7	LC1D1506R7	LC1D188U7	LC1D258BD
LC1D09FC7	LC1D1156R7	LC1D128E7	LC1D1506SD	LC1D18B5	LC1D258BL
LC1D09FD LC1D09FE7	LC1D1156SD	LC1D128ED	LC1D1506U7	LC1D18B7	LC1D258C7
EO IDUSFEI	LC1D1156U7	LC1D128EL	LC1D150B7	LC1D18BD	LC1D258D7

TeSys Control Contactors

Product references

LC1D258E7	LC1D326GD	LC1D38E7	LC1D40AD5	LC1D50ACD	LC1D65A3FE7
LC1D258ED	LC1D326K7	LC1D38ED	LC1D40AD7	LC1D50AD5	LC1D65A3P7
LC1D258F7	LC1D326KD	LC1D38EHE	LC1D40AE5	LC1D50AD7	LC1D65A6B7
LC1D258FD	LC1D326L7	LC1D38EL	LC1D40AE7	LC1D50AE5	LC1D65A6BBE
LC1D258FE7	LC1D326M7	LC1D38F7	LC1D40AEHE	LC1D50AE7	LC1D65A6BD
LC1D258G7	LC1D326P7	LC1D38FD	LC1D40AF7	LC1D50AEHE	LC1D65A6BNE
LC1D258GD	LC1D326R7	LC1D38FE7	LC1D40AFC7	LC1D50AF7	LC1D65A6ED
LC1D258M7	LC1D32B5	LC1D38FL	LC1D40AFE7	LC1D50AFC7	LC1D65A6EHE
LC1D258MD	LC1D32B7	LC1D38G7	LC1D40AG7	LC1D50AFD	LC1D65A6F7
LC1D258P7	LC1D32BD	LC1D38JD	LC1D40AGD	LC1D50AFE7	LC1D65A6FD
LC1D258SD	LC1D32BL	LC1D38JL	LC1D40AJD	LC1D50AG7	LC1D65A6G7
LC1D258U7	LC1D32BNE	LC1D38KUE	LC1D40AK7	LC1D50AGD	LC1D65A6K7
LC1D258V7	LC1D32C7	LC1D38M7	LC1D40AKUE	LC1D50AJ5	LC1D65A6KUE
LC1D25B5	LC1D32D5	LC1D38MD	LC1D40AL7	LC1D50AJD	LC1D65A6M7
LC1D25B7	LC1D32D7	LC1D38N7	LC1D40ALE7	LC1D50AK7	LC1D65A6MD
LC1D25BD	LC1D32E5	LC1D38P5	LC1D40AM7	LC1D50AKUE	LC1D65A6ND
LC1D25BL	LC1D32E7	LC1D38P7	LC1D40AN7	LC1D50AL7	LC1D65A6P7
LC1D25BNE	LC1D32ED	LC1D38Q7	LC1D40AND	LC1D50ALE7	LC1D65A6R7
LC1D25C7	LC1D32EHE	LC1D38R7	LC1D40AP5	LC1D50AM7	LC1D65A6SD
LC1D25CD					
	LC1D32EL	LC1D38SD	LC1D40AP7	LC1D50AMD	LC1D65A6U7
LC1D25D5	LC1D32F7	LC1D38U7	LC1D40AQ7	LC1D50AN7	LC1D65A6UD
LC1D25D7	LC1D32FC7	LC1D38V7	LC1D40AR7	LC1D50AND	LC1D65AB5
LC1D25E5	LC1D32FD	LC1D40004E7	LC1D40AS7	LC1D50AP5	LC1D65AB6
LC1D25E7	LC1D32FE7	LC1D40004F7	LC1D40AT7	LC1D50AP7	LC1D65AB7
LC1D25ED	LC1D32FL	LC1D40004G6	LC1D40AU7	LC1D50AQ7	LC1D65ABBE
LC1D25EHE	LC1D32G7	LC1D40004M7	LC1D40AU7C	LC1D50AR7	LC1D65ABD
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LC1D25F7	LC1D32JD	LC1D40008B7	LC1D40AX7	LC1D50AT7	LC1D65ACD
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TeSys Control Contactors

Product references

LC1K09008U7	LC1K12013F7	LC1SK0600V7	LC2D12EHE	LC2D32F7	LC2D80004M7
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Product references

LC2K09013P7	LC3D18AB7	LP1K0601ND	LP1K120043BD3	LP4K0610EW3	LX1D8F7
LC2K09015D7	LC3D18AF7	LP1K0601SD	LP1K12004BD	LP4K0610FW3	LX1D8FE7
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LC2K09015F7	LC3D320AG7	LP1K06103BD3	LP1K12004JD	LP4K090085BW3	LX1D8L7
LC2K09015P7	LC3D320AP7	LP1K06103ED	LP1K12013BD3	LP4K090087BW3	LX1D8M5
LC2K0901B7	LC3D32AB7	LP1K06105BD	LP1K12015BD	LP4K09008BW3	LX1D8M7
LC2K0901D7	LC3D32AF7	LP1K06106BD	LP1K12015MD	LP4K09008EW3	LX1D8N7
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LC2K0901P7	LC3D80F7A64	LP1K0610JD	LP1K1201MD	LP4K09103BW3	LX1D8U7
LC2K0901U7	LC3D80M7	LP1K0610MD	LP1K12103BD	LP4K09105BW3	LX1D8V7
LC2K0901V7	LC3D80P7	LP1K0610MPD	LP1K12103BD3	LP4K09106BW3S16	LX4D2UD
LC2K09103B7	LC3D80P7A64	LP1K090043BD	LP1K12105BD	LP4K09107BW3	LX4D7BD
LC2K09103E7	LC3D80U7A64	LP1K090045BD	LP1K1210BD	LP4K0910BW3	LX4D7JD
LC2K09105B7	LC3K09P7	LP1K090045ND	LP1K1210BD3	LP4K0910FW3	LX4D8BD
LC2K09105E7	LC7K0601M7	LP1K09004BD	LP1K1210ED	LP4K0910JW3	LX4D8MD
LC2K09105M7	LC7K0610M7	LP1K09004BD3	LP1K1210FD	LP4K12004BW3	LXD1B7
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LC2K1201G7	LP1D40008GD	LP1K09008ND	LP2K0610BD	LP5K0910BW3	LXD1S7
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LC3D150M7A64	LP1K0601BD3	LP1K0910FD	LP4K0601BW3	LX1D6U7	LADSAI
	FL IMOOD IDDO	EL IMOSTORD			
	I D1K0601ED	I D1K0010 ID	I D4KU64U3BW3	I ¥1D6V7	
LC3D150P7 LC3D150P7A64	LP1K0601ED LP1K0601FD	LP1K0910JD LP1K0910MD	LP4K06103BW3 LP4K06105BW3	LX1D6V7 LX1D8B7	

eSys SK, K, SKGC, Deca, Modular Contactors

Technical Data for Designers

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- > dimensions......B8/94 to B8/107

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Modular Dual tariff contactors:

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- > dimensions......B8/121 and B8/122

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Standard IEC tests - Contactors

conforming to UL/CSA.....B8/128

TeSys Control SK Contactors

Characteristics

Environment			
Rated insulation voltage (Ui)	Conforming to 60947	V	690
Conforming to standards			IEC/EN 60947-4-1, UL 60947-4-1, CSA C22.2 n° 60947-4-1
Approvals			cULus, EAC, UKCA, CB certification
Degree of protection	Conforming to IEC 60529		Protection against direct finger contact IP2x
Ambient air temperature around he device	Storage	°C	-50+70
	Operation	°C	-20+50
Maximum operating altitude	Without derating	m	2000
Operating position		DF511520.eps	Vertical axis Horizontal axis 22°.5 Without derating Without derating
Cabling, screw clamp terminals	Solid conductor	mm²	Min Max 1 x 1.5 or 2 x 1.5
	Flexible cable without cable end	mm²	1 x 0.5 or 2 x 0.35
	Flexible cable with cable end	mm²	1 x 0.35 or 2 x 0.35 1 x 6 or 2 x 1.5
Fightening torque	Pozidriv n° 1 head	N.m	0.8
Terminal referencing			Conforming to standards En 50005

Ref.

References:	Curves:	Dimensions:	Schemes:	
pages B8/2 and B8/3	B page B8/69	page B8/70	page B8/70	
B8/62	ife Is On Schneider			

TeSys Control SK Contactors

Characteristics

Pole characteristics			
Conventional thermal current (Ith)	For ambient temperature ≤ 55 °C	А	12
Rated operational frequency		Hz	50/60
Frequency limits of the operational current		Hz	Up to 400
Rated operational voltage (Ue)		٧	690
Rated making capacity	I rms conforming to IEC 60947-1	Α	66
Rated breaking capacity (for Ue ≤ 400 V)	Conforming to IEC 60947-1	Α	52
Short time rating	In free air for a time "t" from cold state (θ ≤ 55 °C)	А	50
Short-circuit protection	gl fuse U ≤ 440 V	Α	16
Average impedance per pole	At Ith and 50 Hz	mΩ	4
Maximum rated operational cur	rent		
For a temperature ≤ 55 °C	AC-3 ⁽¹⁾ (Ue ≤ 400 V)	Α	6
	AC-1	Α	12
Utilisation in category AC-1 resistive circuits, heating, lighting (Ue ≤ 440 V)	Increase in operational current by paralleling of poles	A	20
Auxiliary contact ch	aracteristics of add-on	bloc	ks
Rated operational voltage (Ue)	Up to	V	690
Rated insulation voltage (Ui)	Conforming to IEC 60947, IEC 60947-1	v	690
Conventional thermal current (lth)	For ambiant temperature ≤ 55 °C	Α	10
Frequency of operational currer	nt	Hz	Up to 400
Short-circuit protection	Conforming to IEC 60947 and IEC 60947-1, gl fuse	Α	10

Operational power of contacts conforming to IEC 60947

a.c. supply, category AC-15

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

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

d.c. supply, category DC-13

Electrical durability (valid up to 1200 operating cycles per 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	220	440	440
1 million operating cycles	W	120	80	60	52	51	880
3 million operating cycles	W	55	38	30	28	26	317
10 million operating cycles	W	15	11	9	8	7	132
Occasional making capacity	W	720	600	400	300	230	13000

(1) For LC1 contactors.

References:	Curves:	Dimensions:	Schemes:
pages B8/2 and B8/3	page B8/69	page B8/70	page B8/70

TeSys Control SK Contactors

Characteristics

Control circuit char	acteristics			
Туре			LC1SK06	LP1SK06
Rated control circuit voltage (U	c)	V	~24400	 1272
Control voltage limits (q ≤ 50 °C)	For operation		0.851.1 Uc	0.851.1 Uc
	For drop-out		≥ 0.20 Uc	≥ 0.10 Uc
Average coil consumption at 20 °C and at Uc	Inrush		16 VA	2.2 W
	Sealed		4.2 VA	2.2 W
Heat dissipation		w	1.4	2.2
Operating time at 20 °C and at	Uc			
Between coil energisation and	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	-
	coil		-	10





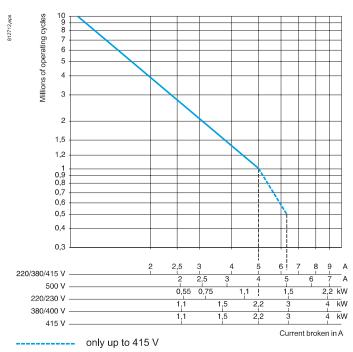




Use in category AC-3 (Ue ≤ 440 V)

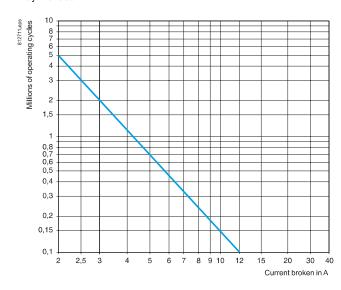
Control of 3-phase asynchronous squirrel cage motors with breaking whilst running.

The current broken (Ic) in category AC-3 is equal to the rated operational current (Ie) of the motor.



Use in category AC-1 (Ue \leq 440 V) Control of resistive circuits ($\cos \varphi \ge 0.95$).

The current broken (Ic) in category AC-1 is equal to the current (Ie) normally drawn by the load.



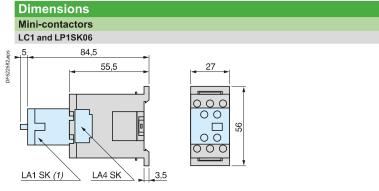






TeSys Control SK Contactors

Dimensions, mounting and schemes



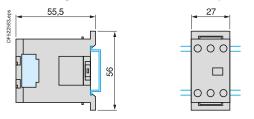
(1) Only on LC1SK06.

Mounting

Mini-contactors

LC1 and LP1SK06

On mounting rail NSYSDR200BD or NSYSDR200 (__ 35 mm)







Schemes

2-pole mini-contactors

LC1 and LP1SK06



Add-on power pole block

1 pole + 1 "N/C" aux.

LA1SK01



Instantaneous	Instantaneous auxiliary contacts								
2 "N/O"	2 "N/C"	1 "N/O" + 1 "N/C"							
LA1SK20	LA1SK02	LA1SK11							
34 7 33/NO 44 4 43/NO	812726.eps 32 31/NC 42 41/NC	8127284ps 34 33/NO 42 41/NC							

TeSys Control SKGC Contactors

Characteristics

Rated insulation	Conforming to IEC 60947	v	690	
voltage (Ui)	Comorning to IEC 00047		000	
Conforming to standards			IEC 60947, UL 60947-4-1, CSA C22.2 n°	60947-4-1
Approvals			cULus, UKCA	
Degree of protection	Conforming to IEC 60529		Protection against direct finger contact	
Ambient air temperature arour	nd the device			
	Storage	°C	-50+70	
	Operation	°C	-20+50	
Maximum operating altitude	Without derating	m	2000	
Operating position			Vertical axis Horizontal axi	3
		DF532749.eps	22°,5	
			Without derating Without derating	g
Cabling, connectors			Min.	Max.
	Solid conductor	mm²	1 x 1.5 or 2 x 1.5	1 x 6 or 2 x 4
	Flexible cable without cable end	mm²	1 x 0.5 or 2 x 0.35	1 x 6 or 2 x 2.5
	Flexible cable with cable end	mm²	1 x 0.35 or 2 x 0.35	1 x 6 or 2 x 1.5
Fightening torque	Pozidriv n° 1 head	N.m	0.8	1
Terminal referencing			Conforming to standards EN 50005	

Pole characteris	tics				
Mini-contactor type				LC1SKGC2	LC1SKGC3 and LC1SKGC4
Conventional thermal current (Ith)	For ambient tem ≤ 55 °C	perature	Α	20	20
Rated operational frequen	су		Hz	50/60	
Frequency limit of the oper	rational current		Hz	up to 400	
Rated operational voltage (Ue)			٧	690	
Rated making capacity	I rms conforming IEC 60947	I rms conforming to IEC 60947			85
Rated breaking capacity (for Ue ≤ 400 V)	Conforming to IE (I rms)	Α	40	68	
Permissible short time rating	In free air for a tir from cold state (6		Α	40	60
Short-circuit protection	gl fuse U ≤ 440 V	/	Α	20	20
Average impedance per pole	At Ith and 50 Hz		mΩ	4	4
Maximum rated operational current	For temperature ≤ 55 °C	AC-3 (Ue ≤ 400 V)	Α	5	9
		AC-1	Α	20	20
Use in category AC-1 resistive circuits, heating, lighting (Ue ≤ 440 V)	Increase in rated current by paralle	А	32	32	
Auxiliary contac	t characteri:	stics of mi	ni-c	ontactors	
Rated operational voltage (Ue)			٧	690	
Rated insulation voltage (Ui)	Conforming to IEC 60947		V	690	
Conventional	For ambient tem	perature	Α	10	

Operational power of contacts conforming to IEC 60947

Conforming to IEC 60947,

gl fuse

a.c. supply, category AC-15

Frequency of the operational current

thermal current (Ith)

Short-circuit protection

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

Hz

Up to 400

10

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

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.

	٧	24	48	110	220	440	440
1 million operating cycles	W	120	80	60	52	51	880
3 million operating cycles	W	55	38	30	28	26	317
10 million operating cycles	W	15	11	9	8	7	132
Occasional making capacity	W	720	600	400	300	230	13000

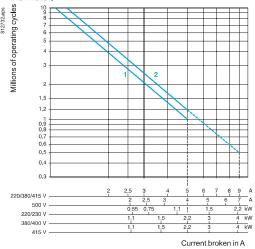
TeSys Control SKGC Contactors Characteristics

Con	itrol circuit ch	aracteristics			
Mini-contactor type				LC1SKGC2	LC1SKGC3 and LC1SKGC4
Rated	control circuit voltage	(Uc)	V	~ 24400	
Contro (θ ≤ 55	l voltage limits	O a small and		0.05 4.411	
(0 100	, 0,	Operation		0.851.1 Uc	
		For drop-out		≥ 0.20 Uc	
Averag	ge coil consumption a	t 20 °C and at Uc			
		Inrush	VA	16	23
		Sealed	VA	4.2	4.9
Heat d	issipation		w	1.4	1.5
Operat	ting time at 20 °C and	at Uc			
	Between coil	opening of the N/C contacts	ms	816	
	energisation and	closing of the N/O contacts	ms	714	
	Between coil	opening of the N/O contacts	ms	68	
	de-energisation and	closing of the N/C contacts	ms	810	
Maxim	um operating rate	In operating cycles per hour		1200	
Mechanical durability at Uc in millions of operating cycles		50/60 Hz coil		10	





Use in category AC-3 (Ue \leq 440 V) Control of 3-phase asynchronous squirrel cage motors with breaking whilst running. The current broken (Ic) in category AC-3 is equal to the rated operational current of the motor.



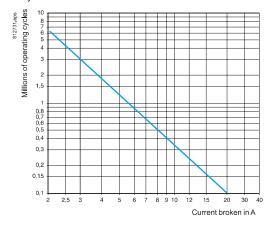
1. LC1SKGC2

2. LC1SKGC3 and SKGC4

---- only up to 415 V

Use in category AC-1 (Ue ≤ 440 V)

Control of resistive circuits ($\cos \phi \ge 0.95$). The current broken (Ic) in category AC-1 is equal to the current (Ie) normally drawn by the load.





Contactors

TeSys Control SKGC Contactors

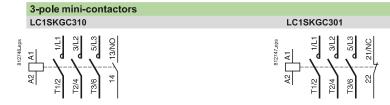
Dimensions, mounting and schemes

Dimensions Mounting Mini-contactors LC1SKGC2 On mounting rail NSYSDR200BD or NSYSDR200 (_ 35 mm) 55,5 55,5 000 26 26 000 000 LA4 SK 3,5 **Dimensions** Mounting Mini-contactors LC1SKGC3 and SKGC4 On panel On mounting rail NSYSDR200BD or NSYSDR200 (__ 35 mm) 2xØM4 56 45 56 45 DF532771.eps 00000 00000 48-50 28 00000 00000 LA4 SK









4-pole mini-contactors

References: Curves page B8/3 pages B8/67 to B8/69 page B8/70





K Contactors and reversing contactors

Characteristics

Env	rironment charac	teristics							
Conforming to standards				IEC/EN 60947-4-1, IEC/EN 60947-5-1, UL 60947-4-1, CSA C22.2 n° 60947-4-1, U					
					60947-5-1, CSA C22.2 n° 60947-5-1, GB/T 14048.4				
Produc	ct certifications	LCe and LPeK06 to K12	-	UL, CSA, CCC, EAC, UKCA, CB certification					
0	r	LCe and LPeK16	-	UKCA, CB certificat					
Opera	ting positions		DF511522.eps	Vertical axis	Horizontal axis safe 2001,153 a Without derating	Possible positions for LC•K only.			
				, and the same of		Contactor pull-in voltage: 0.85 Uc			
Conne				Min.	Max.	Max. to IEC 60947			
	Screw clamp	Solid conductor	mm²	1 x 1.5	2 x 4	1 x 4 + 1 x 2.5			
	terminals	Flexible conductor without cable end	mm²	1 x 0.75	2 x 4	2 x 2.5			
		Flexible conductor with cable end	mm²	1 x 0.34	1 x 1.5 + 1 x 2.5	1 x 1.5 + 1 x 2.5			
	Spring terminals	Solid conductor	mm²	1 x 0.75	1 x 1.5	2 x 1.5			
		Flexible conductor 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 pins length 5 mm Recommended minimum width and thickness layer for power printed circuit bo track: 4mm x 35 microns					
Tighter	ning torque	of screw-clamp terminals only Philips head n° 2 and Ø6	N.m	0.81.3					
Termin	al referencing	Conforming to standards EN 50005 and EN 50012		Up to 5 contacts, de	epending on model				
	insulation voltage	Conforming to IEC 60947-4-1	V	690					
(Ui)		Conforming to CSA 22-2 n° 60947-4-1, UL 60947-4-1	V	600					
Rated	impulse withstand voltage	(Uimp)	kV	8					
Degree	e of protection	Conforming to IEC 60529		Protection against of	direct finger contact IP2x				
	nt air temperature around	Storage	°C	-50+80					
the dev	vice	Operation	°C	-25+50 in AC3, -2	25+70 in AC1				
Maxim	um operating altitude	Without derating	m	2000					
Vibration	on resistance	Contactor open		2 gn					
5 30 Confor 60068-	ming to IEC/EN	Contactor closed		4 gn					
	resistance	according to IEC 60695-2-10	°C	850					
	resistance ne wave, 11 ms)	Contactor open		On X axis: 6 gn On Y and Z axes: 10	0 gn				
	ming to IEC/EN	Contactor closed		On X axis: 10 gn On Y and Z axes: 1					







TeSys Control K Contactors and reversing contactors

Characteristics

Туре		LCe or LPe		K06	K09	K12		K16		
Conventional thermal current (Ith)	For ambient temp ≤ 60 °C		Α	20 (1)	1109	IKIZ		KIO		
Rated operational frequency	₹00 C		Hz	50/60						
Frequency limits of the operation	nal current		Hz	Up to 400						
Rated operational voltage (Ue)	marcunent		V	690						
Rated operational voltage (Ge)	I rms conforming t	· · · · · · · · · · · · · · · · · · ·	A	110	110	144		160		
Nated making capacity	IEC 60947	.0	^	1110	1110	144		100		
Rated breaking capacity	I rms conforming	220/230 V	Α	110	110	_		-		
. ,	to IEC 60947	380/400 V	Α	110	110	-		-		
		415 V	Α	110	110	-		-		
		440 V	Α	110	110	110		110		
		500 V	Α	80	80	80		80		
		660/690 V	Α	70	70	70		70		
Permissible short	In free air for a	1 s	Α	90	90	115		115		
time rating	time "t" from cold	5 s	Α	85	85	105		105		
	state (θ ≤ 50 °C)	10 s	Α	80	80	100		100		
		30 s	Α	60	60	75		75		
		1 min	Α	45	45	55		55		
		3 min	Α	40	40	50		50		
		≥ 15 min	Α	20	20	25		25		
Short-circuit protection	gG fuse U ≤ 440 \ (aM fuse, see pag	Α	25							
Average impedance per pole	At Ith and 50 Hz		mΩ	3						
Use in category AC-1 resistive circuits, heating,	Maximum rated operational current for a temperature ≤ 60 °C		Α	20						
ighting (Ue ≤ 440 V)	Maximum rated operational current for a temperature ≤ 70 °C		Α	16						
	Rated operational current limits			On-load factor			90 %	60 %	30 %	
	in relation to the o		Α	300 operating o	cycles/hour		13	15	18	
	and operating free	quency	Α	120 operating o	cycles/hour		15	18	19	
			Α	30 operating cy	cles/hour		19	20	20	
	Increase in rated of current by parallel			Apply the following coefficients to the above currents; these coefficients take in account an often unbalanced distribution of current between the poles						
				2 poles in parallel: K = 1.60						
				3 poles in parallel: K = 2.25						
				4 poles in paral	lel: K = 2.80					
Use in category AC-3/AC-3e	Operational	115 V single-ph.	_	0.37	0.55	-		-		
squirrel cage motors	power according to the voltage.	220 V single-ph.	_	0.75	1.1	-		-		
	Voltage 50 or	220/230 V 3-ph.		1.5	2.2	3		4		
	60 Hz	380/415 V 3-ph.		2.2	4	5.5		7.5		
		440/480 V 3-ph.		3	4	5.5/4 (480)		5.5/4 (48	30)	
		500/600 V 3-ph.		3	4	4		4		
		660/690 V 3-ph.	kW	3	4	4		4		
	Maximum operation	ng rate		Op. cycles/h	1	_	600	900	1200	
	(in operating cycle relation to % of rat		Power			100 %	75 %	50 %		

⁽¹⁾ For LC•K••••3 / LP•K••••3 with spring terminal, Ith max = 16 A.

K Contactors and reversing contactors

Characteristics

Туре			LC1	LC2	LC7	LC8	LP1	LP2	LP4	LP5	
Rated control circuit voltage (Uc)		V	~ 12690 ⁽¹⁾		~ 24	~ 24240 ⁽¹⁾		12250 ⁽¹⁾		 12120	
Control voltage limits (≤ 50 °C) single voltage coil	Operation		0.81.15 Uc ⁽²⁾		0.851	0.851.1 Uc		0.81.15 Uc		.30 Uc	
	Drop-out		≥ 0.20 Uc		≥ 0.10 l	≥ 0.10 Uc		≥ 0.10 Uc		≥ 0.10 Uc	
Average consumption at 20 °C and at Uc	Inrush		30 VA		3 VA		3 W		1.8 W		
	Sealed		4.5 VA		3 VA		3 W		1.8 W		
Heat dissipation		w	1.3		3		3		1.8	1.8	
Operating time at 20 °C and at Uc											
Between coil energisation and:	- opening of the N/C contacts	ms	515		2535		2535		2535	5	
	- closing of the N/O contacts	ms	1020		3040		3040		3040		
Between coil de-energisation and:	- opening of the N/O contacts	ms	1020		30		10		1020		
	- closing of the N/C contacts	ms	1525		40		15		1525	5	
Maximum immunity to microbreaks		ms	2		2	2			2		
Maximum operating rate	In operating cycles per hour		3600		3600	3600			3600		
Mechanical durability at Uc In millions of operating cycles	50/60 Hz coil		10	5	10	5	-	_	-	-	
	coil		-	-	-	-	10	5	-	-	
	Wide range coil, Low consumption		-	-	-	-	-	-	30	5	

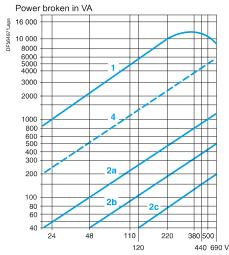
⁽¹⁾ For mains supplies with a high level of interference (voltage surge > 800 V), use a suppressor module LA4KE1FC (50...129 V) or LA4KE1UG (130...250 V), see page B8/14.
(2) LC1K12, LC1K16...: 0.85...1.15 Uc.

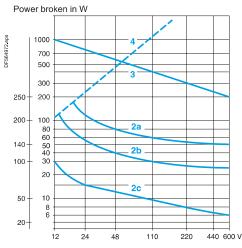






Number of auxiliary contacts	On LCeK or LPeK	3-pole		1
	On LA1K			2 or 4
Rated operational voltage (Ue)	Up to		٧	690
Rated insulation voltage (Ui)	Conforming to IEC	60947	٧	690
	Conforming to UL 6		٧	600
Conventional thermal current (Ith)	For ambient temperature ≤ 50 °C		Α	10
Frequency of the operational current			Hz	Up to 400
Minimum switching	U min		٧	17
capacity	I min		mA	5
Short-circuit protection	Conforming to IEC fuse	60947, gG	Α	10
Rated making capacity	Conforming to IEC 60947	Irms	Α	110
Short-time rating	Permissible for	1 s	Α	80
		500 ms	Α	90
		100 ms	Α	110
Insulation resistance			MΩ	>10
Non-overlap distance LA1K: linked contacts conforming to INRS, BIA and CNA specifications		mm	0.5 (see schemes pages B8/77 and B8/79)	





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 ($\cos \phi$ 0.4).

po b. o (000 q 0.	. / .							
Operating cycles	V	24	48	110/ 127	220/ 230	380/ 400	440	600/ 690
1 million operating cycles	VA	48	96	240	440	800	880	1200
3 million operating cycles	VA	17	34	86	158	288	317	500
10 million operating cycles	VA	7	14	36	66	120	132	200
Occasional making capacity	VA	1000	2050	5000	10000	14000	13000	9000

d.c. supply, category DC-13

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

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

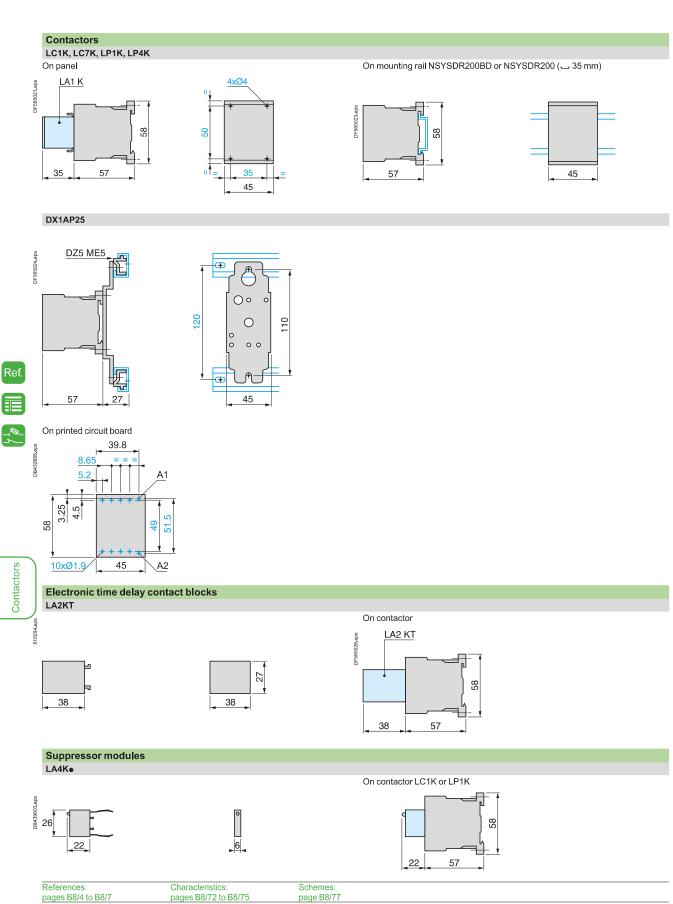
- 1. Breaking limit of contacts valid for:
- maximum of 50 operating cycles at 10 s intervals (power broken = making current x $\cos \phi$ 0.7).
- 2. Electrical durability of contacts for:
 - 1 million operating cycles (2a)
 - 3 million operating cycles (2b)
 - 10 million operating cycles (2c).
- 3.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





K Contactors

Dimensions and mounting



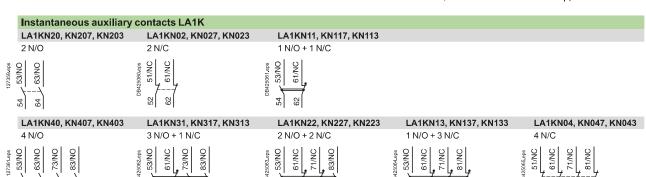
Contactors

TeSys Control K Contactors

Schemes

3-pole contactors		with integral suppre	ession device
		LC7K	LP4K
09425641 4195 A2 A2 A112 A2 A112 A12 A13 A14 A13	727366,ens A2 A1 E T1/2 A1/2 A1/2 A1/2 A1/2 A1/2 A1/2 A1/2 A	610322.gps	610348,aps
4-pole contactors		With integral suppre	ession device







	22 28	² 28 8	22 4 4 4 22 D	22 22 28 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	
	Electronic time delay c	ontact blocks	Suppressor modules		
	LA2KT		LA4KC	LA4KE	
	1 C/O				
810345.eps	22 12 12 14 14 15 15 15 15 15 15		B404433.eps	84044346ps	

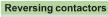






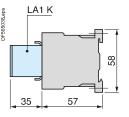
K Reversing contactors

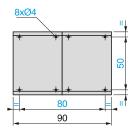
Dimensions and mounting



LC2K, LC8K, LP2K, LP5K

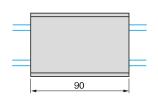
On panel





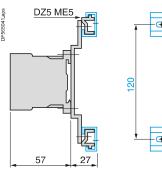


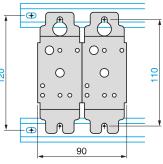
On mounting rail NSYSDR200BD or NSYSDR200 (__ 35 mm)



2 x DX1AP25

On one asymmetrical mounting rail DZ5MB on 2 mounting plates DX1AP25.

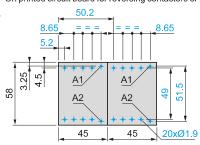






Contactors

On printed circuit board for reversing contactors or 2 contactors mounted side by side.

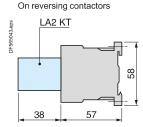


Electronic time delay contact blocks

LA2KT

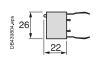






Suppressor modules

LA4K•



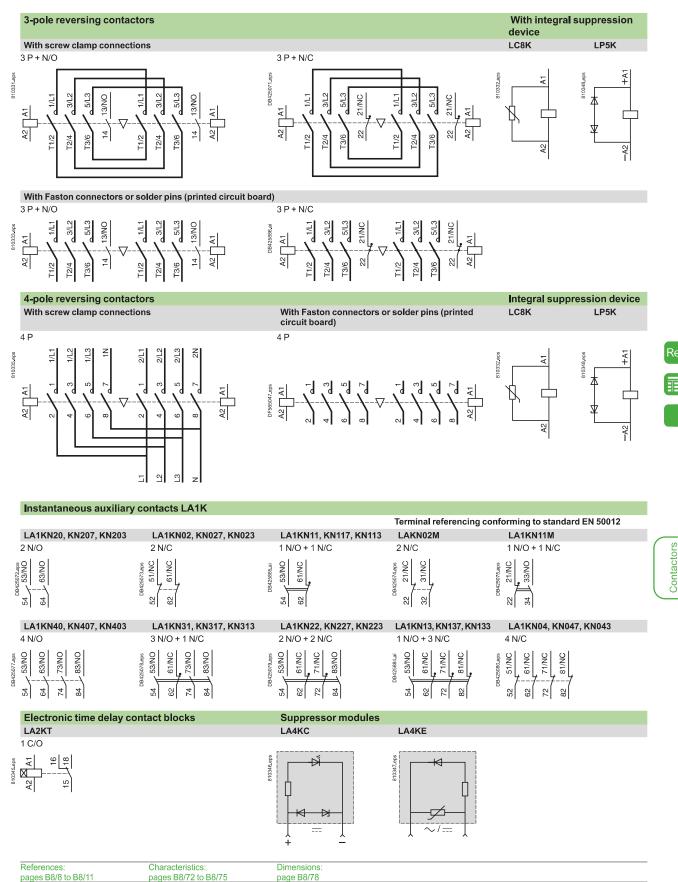


On reversing contactors LC2K or LP2 K

References:								
pages B8/8 to B8/11								

K Reversing contactors

Schemes



TeSys Control Deca green, Deca Contactors

Characteristics

Environment										
Contactor type LC1			D09D18 DT20 and DT25	D25D38 DT32 and DT40	D40AD80A DT60A and DT80A	D80D95 (1)	D115 and D150			
Rated insulation voltage (Ui)	Conforming to IEC 60947-4-1, overvoltage category III, degree of pollution: 3	V	690			1000				
	Conforming to UL, CSA	V	600							
Rated impulse withstand voltage (Uimp)	Conforming to IEC 60947	kV	6		8					
Conforming to standards					7-5-1, UL 60947-4 5-1, GB/T 14048.		° 60947-4-1, UL			
Product certifications (1)			UL, CSA, CCC, UKCA, CB certif	EAC, fication, EU-RO-N	IR by DNV-GL	UL, CSA, CCC, UKCA, CB certi GL, RINA, BV, I	fication, DNV-			
Degree of protection (2) (front face)	Conforming to IEC 60529									
	Power circuit connections		Protection against direct finger contact IP20							
	Coil connection		Protection against direct finger contact IP20							
Climatic withstand			According to IA0 IEC 60947-1 An	CS E10 and nex Q category D)	According to IA	CS E10			
Ambient air temperature around the device	Storage	°C	-60+80							
	Operation (3)	°C	-40+60							
	Allowed with derating (3) (4)	°C	+60+70 at Uc	to 1.●● x Uc						
Maximum operating altitude	Without derating	m	3000							
Operating positions (5)	Without derating in the following positions		AC and DC coils AC/DC and "BB		AC coils AC/DC and "BB	E" coils	DC coils			
		DF510743.eps	DFS/07434ps			D-ESTATIAGES	180			
	Positions that are not allowed		For contactors LC1D09 to LC1D150.							
		DF537814.eps		DF537815.eps						
Flame resistance	Conforming to IEC 60695-2-11	°C	850							
Shock resistance (6) 1/2 sine wave = 11 ms	Contactor open		10 gn	8 gn	10 gn	8 gn	6 gn			
Conforming to IEC/EN 60068-2-27	Contactor closed		15 gn	15 gn	15 gn	10 gn	15 gn			
Vibration resistance (6) 5300 Hz	Contactor open		2 gn							
Conforming to IEC/EN 60068-2-6	Contactor closed		4 gn	4 gn	4 gn	3 gn	4 gn			

- (1) Contactor LC1D95 with d.c. coil is not UL/CSA certified.
 (2) Protection provided for the cabling c.s.a.'s indicated on the next page and for connection by cable. For lug type: add a protective cover.
 (3) As per IEC60947-4-1, operating time and drop out voltage given and tested for -5...+40 °C.
 (4) Refer to operational current in AC1 (page A5/58).
 (5) When mounting on a vertical rail, use a stop.
 (6) Without modifying the power contact states, in the most unfavourable direction (coil energised at Ue).
 In case of vibration, it is recommended to mount the devices separately by screws on metal plate.

References:	Dimensions:	Schemes:	
pages B8/18 to B8/28	pages B8/94 to B8/100	pages B8/101 and B8/102	

Contactors

TeSys Control Deca green, Deca Contactors

Characteristics

Contactor type	LC1			D09 (3P)	DT20 D098	D12 (3P)	DT25 D128	D18 (3P)	DT32 D188	D25 (3P)	DT40 D258	
Rated operational current (le)	In AC-3/AC-3e, θ ≤ 60 °	С	Α	9		12		18	•	25	25	
(Ue ≤ 440 V)	In AC-1, θ ≤ 60 °C		Α	25 (1)	20	25 ⁽¹⁾	25	32 (1)	32	40 (1)	40	
Rated operational voltage (Ue)	Up to		٧	690		690		690		690		
Frequency limits	Of the operational current		Hz	25400		25400		25400		25400)	
Conventional thermal current (Ith)	θ ≤ 60 °C		Α	25 (1)	20	25 (1)	25	32 (1)	32	40 (1)	40	
Rated making capacity (440 V)	Conforming to IEC 60947		Α	250		250	300			450		
Rated breaking capacity (440 V)	Conforming to IEC 60947		Α	250		250	250 300			450	450	
Permissible short time rating	For 1 s		Α	210		210		240	240		380	
No current flowing for preceding	For 10 s		Α	105		105	105		145			
15 minutes with θ ≤ 40 °C	For 1 min		Α	61		61		84		120	120	
	For 10 min		Α	30		30		40	40		50	
Fuse protection	Without thermal overload relay, gG fuse type 1 type 2		Α	25		40		50	50		63	
against short-circuits (U ≤ 690 V)			Α	20		25		35	35		40	
	With thermal overload relay		Α		See pages B11/4 and B11/5, for aM or gG fuse recorresponding to the associated thermal overload							
Average impedance per pole	At Ith and 50 Hz		mΩ	2.5		2.5		2.5		2		
Power dissipation per pole for the	AC-3/AC-3e		W	0.20		0.36		0.8		1.25		
above operational currents	AC-1		W	1.56		1.56		2.5		3.2		









Rated control circuit volta	ge (Uc)		50/60 Hz	V	12690
Control voltage limits					
50 or 60 Hz	coils	Operation			-
		Drop-out			-
50/60 Hz coils Oper		Operation	Operation		0.81.1 Uc on 50 Hz and 0.851.1 Uc on 60 Hz at 60 °C
		Drop-out			0.30.6 Uc at 60 °C
Average consumption	\sim 50 Hz	Inrush	50 Hz coil	VA	-
at 20 °C and at Uc			Cos φ		0.75
			50/60 Hz coil	VA	70
		Sealed	50 Hz coil	VA	-
			Cos φ		0.3
			50/60 Hz coil	VA	7
	\sim 60 Hz	Inrush	60 Hz coil	VA	-
			Cos φ		0.75
			50/60 Hz coil	VA	70
		Sealed	60 Hz coil	VA	-
			Cos φ		0.3
			50/60 Hz coil	VA	7.5
Heat dissipation	50/60 Hz			W	23
Operating time (2)		Closing "C)"	ms	1222
		Opening "	O"	ms	419
Mechanical durability		50 or 60 Hz coil 50/60 Hz coil on 50 Hz			_
in millions of operating cy	cles				15
Aaximum operating rate In operating cycles per hour In ambient temperature ≤ 60 °C			3600		

Control circuit characteristics, a.c. supply Deca contactors

References: Dimensions Schemes: pages B8/18 to B8/28 pages B8/94 to B8/100 pages B8/101 and B8/102

⁽¹⁾ Versions with spring terminal connections:
16 A for LC1D093 and LC1D123 (20 A possible with 2 x 2.5 mm² in parallel),
25 A for LC1D183 to LC1D323 (32 A possible for LC1D183 connected with 2 x 4 mm² cables in parallel; 40 A possible for LC1D253 and LC1D323 connected with $2 \times 4 \text{ mm}^2$ in parallel).

⁽²⁾ The closing time "C" is measured from the moment the coil supply is switched on to closure of the main poles. The opening time "O" is measured from the

moment the coil supply is switched off to the moment the main poles separate.

(3) The opening time is 40...75 ms for LX1D8•7 coils and 6...20 ms for LX1D8•5 and LX1D8•6 coils.

(4) 2400 for LX1D8•5 and LX1D8•6 coils and 1200 for LX1D8•7 coils (refer to page B8/48 for list of coil references).

	D00	D00	D404	DTOOA	DEGA	DOEA	Door	DTOOA	Doo	DOE	D445	D450
	D32	D38	D40A	DT60A	D50A	D65A	D80A	DT80A	D80	D95	D115	D150
	32	38	40	-	50	65	66	-	80	95	115	150
	50 (1)	50	60	60	80	80	80	80	125	125	200	200
	690	690	690	690	690	690	690	690	690	690	1000	1000
	25400	25400	25400	25400	25400	25400	25400	25400	25400	25400	25400	25400
	50	50	60	60	80	80	80	80	125	125	200	200
	550	550	800	800	900	1000	1000	1000	1100	1100	1260	1660
	550	550	800	800	900	1000	1000	1000	1100	1100	1100	1400
	430	430	720	720	810	900	900	900	990	1100	1100	1400
	260	310	320	320	400	640	640	640	640	800	950	1200
	138	150	165	165	208	260	260	260	320	400	550	580
	60	60	72	72	84	110	110	110	135	135	250	250
	63	63	80	80	100	125	125	125	200	200	250	315
	63	63	80	80	100	125	125	125	160	160	200	250
	Coo pages D	11/4 and D11	/E for all or a	C fues retines			ciated therm	al averlead re	lav.			
	See pages B	11/4 and B11.	o for alvi or g	G tuse ratings	s correspondii	ng to the asso	ciated therma	ai overioad re	ay			
	2	2	1.5	1.6	1.5	1.5	1.5	1.6	0.8	0.8	0.6	0.6
-	2	3	2.4	-	3.7	6.3	6.3	-	5.1	7.2	7.9	13.5
	5	5	5.4	5.8	9.6	9.6	9.6	10.2	12.5	12.5	24	24
	12690		12690								24500	
	_		-			,			0.851.1 U	c at 55 °C		
	_		-						0.30.6 Uc	at 55 °C	0.30.5 Uc	at 55 °C
	0.81.1 Uc	on 50 Hz		on 50 Hz and					0.81.1 Uc	on 50 Hz	0.81.15 U	lc on 50/60
	and	00 11-	0.851.1 U	c on 60 Hz at	60 °C				and	00 11-	Hz	
	0.851.1 Uc at 60 °C	011 60 HZ							0.851.1 U at 55 °C	C ON 60 HZ	at 55 °C	
	0.30.6 Uc a	at 60 °C	0.30.6 Uc	at 60 °C					0.30.6 Uc	at 55 °C	0.30.5 Uc	at 55 °C
	_		_						200		300	T_
	0.75		0.75						0.75		0.8	0.9
	70		160						245		280350	280350
	_		_						20		22	_
	0.3		0.3						0.3		0.3	0.9
	7		15						26		218	218
	<u>-</u>		_						220		300	
	0.75		0.75						0.75		0.8	0.9
	70		140						245		280350	280350
-	_		_						22		22	_
-	0.3		0.3						0.3		0.3	0.9
	7.5		13						26		218	218
	23		45						610		38	34.5
	1222		1226	1226	1226	1226	1226	1226	2035	2035	2050	2035
	419		419	419	419	419	419	419	620	620	620 (3)	4075
	_		-	-	-	_	-	-	10	10	8	-
	15		6	6	6	6	6	6	4	4	8	8
	3600		3600	3600	3600	3600	3600	3600	3600	3600	2400 (4)	1200

TeSys Control **Deca Contactors**

Characteristics

Rated control circuit voltage (Uc)				LC1DT20DT40	LC1DT60A and DT80A	LC1D95	LC1D150
Rated insulation voltage	==		V	12440	12440		24440
	Conforming to IE	C 60947-1	v	690	1		
Ç	Conforming to UI		v	600			
Control voltage limits	Operation	Standard coil		0.71.25 Uc at 60 °C	0.751.25 Uc at 60 °C	0.851.1 Uc at 55 °C	0.751.2 Uc at 55 °C
		Wide range coil		-	_	0.751.2 Uc at 55 °C	_
	Drop-out			0.10.25 Uc at 60 °C	0.10.3 Uc at 60 °C	0.10.3 Uc at 55 °C	0.150.4 Uc at 55 °C
Average consumption	===	Inrush	w	5.4	19	22	270365
at 20 °C and at Uc		Sealed	w	5.4	7.4	22	2.45.1
Operating time (1)	Closing	"C"	ms	63 ±15 %	50 ±15%	95130	2035
average at Uc	Opening	"O"	ms	20 ±20 %	20 ±20%	2035	4075
Fime constant (L/R)				ations, the arcing time to the sum of the openi 28			25
Mechanical durability at Uc	In millions of ope	rating cycles		30	10	10	8
Maximum operating rate at ambient temperature ≤ 60 °C	In operating cycle			3600	3600	3600	1200
Low consumption co	ntrol circuit	character	istics	s Deca contact	ors		
Rated insulation voltage	Conforming to IE	C 60947-1	٧	690	-		
	Conforming to UI	L, CSA	٧	600.	-		
Maximum voltage	Of the control cire	cuit on 	V	250	-		
Average consumption	Wide range coil	Inrush	w	2.4	_		
d.c. at 20 °C and at Uc	(0.81.25 Uc)	Sealed	w	2.4	-		
Operating time (1)	Closing	"C"	ms	77 ±15 %	1-		
at Uc and at 20 °C	Opening	"O"	ms	25 ±20 %	-		
Voltage limits (θ ≤ 60 °C)	Operation			0.8 to 1.25 Uc	1-		
of the control circuit	Drop-out			0.10.3 Uc	-		
Time constant (L/R)			ms	40	-		

30 3600

In millions of operating cycles

In operating cycles per hour

Contactors

Mechanical durability

Maximum operating rate

at ambient temperature ≤ 60 °C

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

Wide band Deca green	contactors	AC/DC	coil circuit charac	teristics				
Rated control circuit voltage (Uc)		V	AC/DC 24250					
	Operation	٧	0.85 Uc mini1.1 Uc ma: (BNE coil: 0.8 Uc mini at).		
	Drop-out	٧	0.1 Uc maxi (e.g. 100 to	250 V = 25 V a	t 60 °C)			
Contactor type			LC1D09D38		LC1D40A	D80A, LC1[DT60A, LC1D	T80A
Coil codo			DNE EUE	KIIE	DDC	DNE	CUC	KIIE

Contactor type			LC1D09D	38		LC1D40A	.D80A, LC1D	T60A, LC1D	T80A
Coil code			BNE	EHE	KUE	BBE	BNE	EHE	KUE
Rated control circuit voltage (Uc)			24-60	48-130	100-250	24 DC	24-60	48-130	100-250
AC supply at 20°C	Consumption inrush	VA	15	25	25	-	15	23	18
	Consumption sealed	VA	0.9	1.3	1.6	-	1	1.4	1.8
	Consumption sealed	mA	28	15	9	-	35	17	9.5
	Heat dissipation	w	0.6	0.8	1.1	-	0.8	0.9	1.3
DC supply at 20°C	Consumption inrush	w	14	24	18	11	16	19	14
	Consumption sealed	mA	23	13	7	20	30	15	7.7
	Heat dissipation	w	0.6	0.8	1.1	0.5	0.7	0.9	1.2
Max operating time (2)	Closing "C"	ms	50 ±5 ms			60 ±5 ms			
	Opening "O"	ms	2090 ms 2080 ms						
EMC immunity			Meets IEC 6	60947-4-1 sta	indard, table 1	2			
EMC emission	IEC 60947-4-1 §9.4.3		Environment A (1)						
Maximum operating rate at ambient	ximum operating rate at ambient temperature ≤ 60°C cycle		n 3600						
Mechanical durability at Uc In millior	ns of operating cycles		15			6			

Characteristics

Deca green Contactors

⁽¹⁾ Use of this product in EMC environment B may require mitigation measures to avoid unwanted disturbance.(2) The closing time "C" is measured from the moment the coil supply is switched on to closure of the main poles. The opening time "O" is measured from the moment the coil supply is switched off to the moment the main poles separates.

TeSys Control Deca green, Deca Contactors

Characteristics

Corew claimp termina	I connections Deca, De	ca gran		13							
Contactor type	LC		D09 and D12 DT20 and DT25	D18 (3P)	D25 (3P)	D32	D38	D18 and D25 (4P) DT32 and DT40	D40A to D80A DT60A and DT80A (1)	D80 and D95	D115 and D150
Tightening			Screw cla	mp termi	nals			Connector 2 inputs	Screw clamp terminals	Connector 1 input	Connecto 2 inputs
Flexible cable	1 conductor	mm²	14	1.56	2.510			2.510	135	450	10120
without cable end	2 conductors	mm²	14	1.56	2.510			2.510	125 and 135	425	10120 + 1050
Flexible cable	1 conductor	mm ²	14	16	110			2.510	135	450	10120
with cable end	2 conductors	mm²	12.5	14	1.56			2.510	125 and 135	416	10120 + 1050
Solid cable	1 conductor	mm²	14	1.56	1.510			2.516	135	450	10120
without cable end	2 conductors	mm²	14	1.56	2.510			2.516	125 and 135	625	10120 + 1050
Screwdriver	Philips / Pozidriv		N° 2	N° 2	N° 2			N° 2	_	_	-
	Flat screwdriver Ø		Ø6	Ø6	Ø6			Ø6	_	Ø6Ø8	-
Hexagonal key Tightening torque		N.m	1.7	1.7	_ 2.5			1.8	5: ≤ 25 mm ² 8: 35 mm ²	12	12
Spring terminal conn	ections (2) Deca contact	tors									
Flexible cable without cable end	1 conductor	mm²	2.5 (4: DT25)	4	4	4	-	10	-	-	
	2 conductors	mm²	2.5 (except DT25)	4	4	4	-	_	-	-	
Connection by bars of	or lugs Deca contactors	;									
Bar c.s.a.			_	_	_	_		_	_	3 x 16	5 x 25
Lug external Ø		mm	8	8	10	10		8	16.5	17	25
Ø of screw		mm	M3.5	M3.5	M4	M4		M3.5	M6	M6	M8
Screwdriver	Philips / Pozidriv		N° 2	N° 2	N° 2	N° 2		N° 2	-	_	-
	Flat screwdriver Ø		Ø6	Ø6	Ø6	Ø6		Ø6	-	Ø8	-
Key for hexagonal headed	screw		-	-	-	-		-	10	10	13
Tightening torque		N.m	1.7	1.7	2.5	2.5		1.8	6	9	12
Control circuit co		Inner a) I	Dane Dan			4					
•	(tightening via screw c							la a	la a	الما	l4 0.5
Flexible cable without cable end	1 conductor	mm²	14	14	14	14		14	14	14	12.5
Without cable end	2 conductors	mm ²	14	14	14	14		14	14	14	12.5
					4 4				14	12.5	11 25
	1 conductor	mm²	14	14	14	14				1 0 =	
Flexible cable with cable end	2 conductors	mm²	14 12.5	14 12.5	12.5	12.5		12.5	12.5	12.5	12.5
with cable end Solid cable	2 conductors 1 conductor	mm² mm²	14 12.5 14	14 12.5 14	12.5 14	12.5 14		12.5 14	12.5 14	14	12.5 12.5
with cable end Solid cable without cable end	2 conductors 1 conductor 2 conductors	mm²	14 12.5 14 14	14 12.5 14 14	12.5 14 14	12.5 14 14		12.5 14 14	12.5 14 14	14 14	12.5 12.5 12.5
with cable end Solid cable	2 conductors 1 conductor 2 conductors Philips / Pozidriv	mm² mm²	14 12.5 14 14 N° 2	14 12.5 14 14 N° 2	12.5 14 14 N° 2	12.5 14 14 N° 2		12.5 14 14 N° 2	12.5 14 14 N° 2	14 14 N° 2	12.5 12.5 12.5 N° 2
with cable end Solid cable without cable end	2 conductors 1 conductor 2 conductors	mm² mm²	14 12.5 14 14	14 12.5 14 14	12.5 14 14	12.5 14 14		12.5 14 14	12.5 14 14	14 14	12.5 12.5 12.5
with cable end Solid cable without cable end Screwdriver Tightening torque	2 conductors 1 conductor 2 conductors Philips / Pozidriv Flat screwdriver Ø	mm² mm² mm²	14 12.5 14 14 N° 2 Ø6	14 12.5 14 14 N° 2 Ø6	12.5 14 14 N° 2 Ø6	12.5 14 14 N° 2 Ø6		12.5 14 14 N° 2 Ø6	12.5 14 14 N° 2 Ø6	14 14 N° 2 Ø6	12.5 12.5 12.5 N° 2 Ø6
with cable end Solid cable without cable end Screwdriver Tightening torque Spring terminal conne	2 conductors 1 conductor 2 conductors Philips / Pozidriv Flat screwdriver Ø	mm² mm² mm² N.m	14 12.5 14 14 N° 2 Ø6 1.7	14 12.5 14 14 N° 2 Ø6 1.7	12.5 14 14 N° 2 Ø6 1.7	12.5 14 14 N° 2 Ø6 1.7		12.5 14 14 N° 2 Ø6 1.7	12.5 14 14 N° 2 Ø6 1.7	14 14 N° 2 Ø6	12.5 12.5 12.5 N° 2 Ø6
with cable end Solid cable without cable end Screwdriver Tightening torque Spring terminal connertexible cable	2 conductors 1 conductor 2 conductors Philips / Pozidriv Flat screwdriver Ø	mm² mm² mm²	14 12.5 14 14 N° 2 Ø6	14 12.5 14 14 N° 2 Ø6	12.5 14 14 N° 2 Ø6	12.5 14 14 N° 2 Ø6	-	12.5 14 14 N° 2 Ø6	12.5 14 14 N° 2 Ø6	14 14 N° 2 Ø6	12.5 12.5 12.5 N° 2 Ø6
with cable end Solid cable without cable end Screwdriver Tightening torque Spring terminal connerties to the cable without cable end	2 conductors 1 conductor 2 conductors Philips / Pozidriv Flat screwdriver Ø ections (2) Deca contact 1 conductor	mm² mm² mm² N.m tors mm² mm²	14 12.5 14 14 N° 2 Ø6 1.7	14 12.5 14 14 N° 2 Ø6 1.7	12.5 14 14 N° 2 Ø6 1.7	12.5 14 14 N° 2 Ø6 1.7	- -	12.5 14 14 N° 2 Ø6 1.7	12.5 14 14 N° 2 Ø6 1.7	14 14 N° 2 Ø6	12.5 12.5 12.5 N° 2 Ø6 1.2
with cable end Solid cable without cable end Screwdriver Tightening torque Spring terminal connection by bars of	2 conductors 1 conductor 2 conductors Philips / Pozidriv Flat screwdriver Ø ections (2) Deca contact 1 conductor 2 conductors	mm² mm² mm² N.m tors mm² mm²	14 12.5 14 14 N° 2 Ø6 1.7	14 12.5 14 14 N° 2 Ø6 1.7	12.5 14 14 N° 2 Ø6 1.7	12.5 14 14 N° 2 Ø6 1.7		12.5 14 14 N° 2 Ø6 1.7	12.5 14 14 N° 2 Ø6 1.7	14 14 N° 2 Ø6	12.5 12.5 12.5 N° 2 Ø6 1.2
with cable end Solid cable without cable end Screwdriver Tightening torque Spring terminal connection by bars of Lug external Ø	2 conductors 1 conductor 2 conductors Philips / Pozidriv Flat screwdriver Ø ections (2) Deca contact 1 conductor 2 conductors	mm² mm² mm² N.m tors mm² mm²	14 12.5 14 14 N° 2 Ø6 1.7	14 12.5 14 14 N° 2 Ø6 1.7	12.5 14 14 N° 2 Ø6 1.7	12.5 14 14 N° 2 Ø6 1.7	- -	12.5 14 14 N° 2 Ø6 1.7	12.5 14 14 N° 2 Ø6 17 0.752.5 0.752.5	14 14 N° 2 Ø6 1.2	12.5 12.5 12.5 N° 2 Ø6 1.2
with cable end Solid cable without cable end Screwdriver Tightening torque Spring terminal connerties to the cable without cable end	2 conductors 1 conductor 2 conductors Philips / Pozidriv Flat screwdriver Ø ections (2) Deca contact 1 conductor 2 conductors or lugs Deca contactors	mm² mm² mm² N.m tors mm² mm² mm²	14 12.5 14 14 N° 2 Ø6 1.7	14 12.5 14 14 N° 2 Ø6 1.7 2.5 2.5	12.5 14 14 N° 2 Ø6 1.7 2.5 2.5	12.5 14 14 N° 2 Ø6 1.7 2.5 2.5		12.5 14 14 N° 2 Ø6 1.7	12.5 14 14 N° 2 Ø6 1.7 0.752.5 0.752.5	14 14 N° 2 Ø6 1.2	12.5 12.5 12.5 N° 2 Ø6 1.2
with cable end Solid cable without cable end Screwdriver Tightening torque Spring terminal connection by bars of Lug external Ø Ø of screw	2 conductors 1 conductor 2 conductors Philips / Pozidriv Flat screwdriver Ø ections (2) Deca contact 1 conductor 2 conductors	mm² mm² mm² N.m tors mm² mm² mm²	14 12.5 14 14 N° 2 Ø6 1.7	14 12.5 14 14 N° 2 Ø6 1.7	12.5 14 14 N° 2 Ø6 1.7	12.5 14 14 N° 2 Ø6 1.7		12.5 14 14 N° 2 Ø6 1.7	12.5 14 14 N° 2 Ø6 17 0.752.5 0.752.5	14 14 N° 2 Ø6 1.2	12.5 12.5 12.5 12.5 N° 2 Ø6 1.2

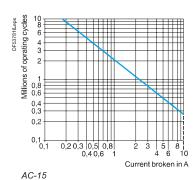
⁽¹⁾ BTR screws: hexagon socket head. In accordance with local electrical wiring regulations, a size 4 insulated Allen key must be used (reference LADALLEN4, see page B8/42).
(2) If cable ends are used, choose the next size down (example: for 2.5 mm², use 1.5 mm²) and square crimp the cable ends using a special tool.

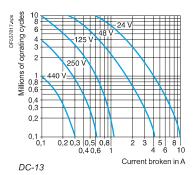
References: pages B8/18 to B8/28 Dimensions: Schemes: pages B8/94 to B8/100 pages B8/101 and B8/102

Contactors

Characteristics

Mechanically linked contacts	Conforming to IEC	60947-5-1		Each contactor has 2 N/O and N/C contacts mechanically linked on the same movable contact holder
Mirror contact	Conforming to IEC	60947-4-1		The N/C contact on each contactor represents the state of the power contacts and can be connected to a PREVENTA safety module
Rated operational voltage (Ue)	Up to		v	690
Rated insulation voltage (Ui)	Conforming to IEC	60947-1	V	690
	Conforming to UL,	CSA	V	600
Conventional thermal current (Ith)	For ambient tempe ≤ 60 °C	erature	Α	10
Frequency of the operational cu	rrent		Hz	25400
Minimum switching capacity	U min		v	17
λ = 10 ⁻⁸	l min		mA	5
Short-circuit protection	Conforming to IEC	60947-5-1		gG fuse: 10 A
Rated making capacity	Conforming to IEC I rms	60947-5-1,	Α	∼ : 140, == : 250
Short-time rating	Permissible for	1 s	Α	100
		500 ms	Α	120
		100 ms	Α	140
Insulation resistance			MΩ	> 10
Non-overlap time Guaranteed between N/C and N/O contacts		ms	1.5 (on energisation and on de-energisation)	
Tightening torque	Pozidriv / Philips he	ead n° 2	N.m	1.7





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 ϕ 0.7) = 10 times the power broken (cos ϕ 0.4).

Operating cycles	V	24	48	115	230	400	440	600
1 million	VA	60	120	280	560	960	1050	1440
3 million	VA	16	32	80	160	280	300	420
10 million	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 load.

Operating cycles	٧	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	_	_

Dimensions:

Deca green, Deca Contactors - Auxiliary contact blocks

Characteristics

/damp protected)			LADN or LADC	LADT and LADS	LADR	LAD8				
			IEC/EN 60947-5-1	, UL 60947-5-1, CSA	C22.2 n° 60947-5-1,	GB/T 14048.5				
			UL, CSA, CCC, EA	AC, UKCA, CB certific	cation					
Conforming to IEC 60	0529		Protection against	direct finger contact I	P 2X					
Storage		°C	-60+80							
Operation		°C	-5+60							
Without derating		m	3000							
Flexible or solid cable	Э	mm²	Min: 1 x 1; max: 2 x 2.5							
		N.m								
Flexible or solid cable without cable end	Э	mm²	Max: 2 x 2.5							
time delay cont	act cha	racter	istics							
			1, 2 or 4	2	2	2				
Up to		V	690							
Conforming to IEC 60	0947-5-1	v	690							
Conforming to UL, C	SA	V	600							
Conventional thermal For ambient temperature current (Ith) ≤ 60 °C			10							
ırrent		Hz	25400							
	U min	v	17							
	I min	mA	5							
Conforming to IEC 60 gG fuse	0947-5-1	Α	10							
Conforming to IEC 60947-5-1	I rms	Α	∼: 140; : 250							
Permissible for	1 s	Α	100							
	500 ms	Α	120							
	100 ms	Α	140							
		ΜΩ	> 10							
		ms	1.5 (on energisation	on and on de-energisa	ation)					
		ms	1.5	_	-	-				
	ure	°C	-	-40+70	-40+70	-				
Repeat accuracy			_	±2 %	±2 %	_				
Drift up to 0.5 million operating cycles			-	+15 %	+15 %	-				
Drift depending on ambient air temperate	ure		-	0.25 % per °C	0.25 % per °C	-				
		_	1	—		100				
In millions of operating	ng cycles		30	5	5	30				
	Storage Operation Without derating Phillips n° 2 and Ø6 if lexible or solid cable with or without cable with or without cable end time delay continue dela continue delay c	Conforming to IEC 60529 Storage Operation Without derating Phillips n° 2 and Ø6 mm Flexible or solid cable with or without cable end Flexible or solid cable without cable end Flexible or solid cable without cable end Up to Conforming to IEC 60947-5-1 Conforming to UL, CSA For ambient temperature ≤ 60 °C urrent Umin I min Conforming to IEC 60947-5-1 gG fuse Conforming to IEC 60947-5-1 gG fuse Conforming to I mms IEC 60947-5-1 Permissible for 1 s 500 ms 100 ms Guaranteed between N/C and N/O contacts Guaranteed between N/C and N/O contacts on LADC22 Ambient air temperature for operation Repeat accuracy Drift up to 0.5 million operating cycles	Storage Operation Without derating Phillips n° 2 and Ø6 mm Flexible or solid cable with or without cable end N.m Flexible or solid cable without cable end Without cable end Image: Storage or C Operation or C Without derating mm² Flexible or solid cable with or without cable end Image: Storage or C Image: Storage	IEC/EN 60947-5-1 UL, CSA, CCC, EA	IEC/EN 60947-5-1, UL 60947-5-1, CSA UL, CSA, CCC, EAC, UKCA, CB certific UL, CSA, CCC, EAC, UKCA, CB certific Conforming to IEC 60529 Protection against direct finger contact Storage °C -60+80	IEC/EN 60947-5-1, UL 60947-5-1, CSA C22.2 n° 60947-5-1, UL, CSA, CCC, EAC, UKCA, CB certification				

TeSys Control Deca green, Deca Contactors - Auxiliary contact blocks Characteristics

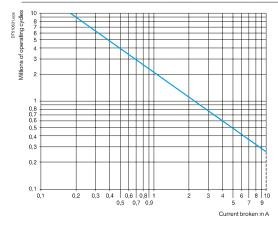
Contact block type (dust/da	mp protected)			LA1DX	LA1DZ (4 contact protected)	cts: 2 protected + 2 non	LA1DY			
				Protected	Protected	Non protected	Protected			
Conforming to standards				IEC/EN 60947-5-	·1, UL 60947-5-1, CS/	A C22.2 n° 60947-5-1, GE	3/T 14048.5			
Product certifications				UL, CSA, CCC, EAC, UKCA, CB certification						
Degree of protection	Conforming to IEC 6	60529		Protection against direct finger contact IP 2X						
Ambient air temperature	Storage and operati	on	°C	-25+70						
Cabling Phillips n° 2 and Ø6 mm Flexible or solid conductor with or without cable end			mm²	Min: 1 x 1; max:	2 x 2.5					
Tightening torque			N.m	1.7						
Number of contacts				2	2	2	2			
Contact characteris	stics									
Rated operational voltage			Vac	125	125	690	125			
(Ue)			Vdc	30	30		30			
ated insulation voltage Conforming to IEC 60		60947-5-1	٧	250	250	690	250			
(Ui)	Conforming to UL, CSA		V	-	-	600	-			
Conventional thermal current (Ith)	For ambient tempers ≤ 40 °C	ature	Α	-	-	10	-			
Maximum operational current (le)			mA	100	100	-	100			
Frequency of the operational c	urrent		Hz	-	-	25400	-			
Minimum switching capacity		U min	v	5	5	17	5			
		l min	mA	1	1	5	1			
Short-circuit protection	Conforming to IEC 6	609475-1	A	-		10	-			
Rated making capacity	Conforming to IEC 609475-1	I rms	Α	-	-	∼:140; : 250	-			
Short-time rating	Permissible for	1 s	Α	T-	_	100	_			
		500 ms	Α	_	-	120	_			
		100 ms	Α	-	-	140	-			
Insulation resistance			ΜΩ	> 10	> 10	> 10	> 10			
Mechanical durability In millions of operating cycles			5	5	30	5				
Materials and technology used for dust and damp protected contacts				Gold alloy - Single break	Gold alloy - Single break	-	Gold alloy - Single break w crossed bars			

Rated operational power of not dust/damp protected 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 ϕ 0.7) = 10 times the power broken (cos ϕ 0.4).

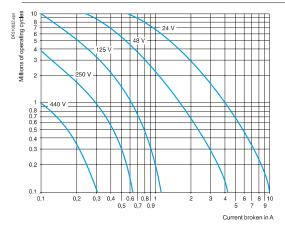
Operating cycles	V	24	48	115	230	400	440	600
1 million	VA	60	120	280	560	960	1050	1440
3 million	VA	16	32	80	160	280	300	420
10 million	VA	4	8	20	40	70	80	100



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 load.

Operating cycles	٧	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	_	_









Contactors

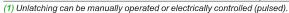
Deca green, Deca Contactors - Coil Suppressors, mechanical latches

Characteristics

Environment			
Conforming to standards			IEC/EN 60947-5-1, UL 60947-5-1, CSA C22.2 n° 60947-5-1, GB/T 14048.5
Product certifications			UL, CSA
Degree of protection	Conforming to IEC 60529		Protection against direct finger contact IP 2X
Ambient air temperature	Storage	°C	-40+80
around the device	Operation	°C	-25+55
	Permissible for operation at Uc	°C	-25+70

Suppressor modules Deca o	ontactors					
Module type			LA4DA, LAD4RC, LAD4RC3	LA4DB, LAD4T, LAD4T3	LA4DC, LAD4D3	LA4DE, LAD4V, LAD4V3
Type of protection			RC circuit	Bidirectional peak limiting diode	Diode	Varistor
Rated control circuit voltage (Uc)			∼ 24415	∼ or == 24440	 12250	∼ or == 24250
Maximum peak voltage			3 Uc	2 Uc	Uc	2 Uc
Natural RC frequency	24/48 V	Hz	400	_	-	_
50/127 V 110/240 V		Hz	200	_	_	_
		Hz	100	_	_	_
	380/415 V	Hz	150	-	-	-

Mechanical latch b	locks (1) Deca, I	Deca gre	en co	ntactors	
Mechanical latch block type	9			LAD6K10	LA6DK20
For use on contactor				LC1D09D80A DT20DT80A	LC1D80D150 LP1D80 and LC1D115
Product certifications				UL, CSA	UL, CSA
Rated insulation voltage Conforming to IEC 60947-5-1		v	690	690	
Rated control circuit voltage	\sim 50/60 Hz and $=$		٧	24415	24415
Power required	For unlatching	\sim	VA	25	25
		=	w	30	30
Maximum operating rate	Maximum operating rate In operating cycles/hour			1200	1200
On-load factor				10 %	10 %
Mechanical durability at Uc	In millions of operat	ing cycles		0.5	0.5



The LA6DK or LAD6K latch coil and the LC1D operating coil must not be energised simultaneously. The duration of the LA6DK or LAD6K and LC1D control signals must be \geqslant 100 ms.

Deca green, Deca Contactors - Electronic serial timer

Characteristics

Environment Deca,	, Deca green contactor	S	
Module type			LA4DT (On-delay)
Conforming to standards			IEC 60255-5
Product certifications			UL, CSA
Degree of protection	Conforming to IEC 60529		Protection against direct finger contact IP 2X
Ambient air temperature	Storage	°C	-40+80
around the device	Operation	°C	-25+55
	For operation at Uc	°C	-25+70
Rated insulation voltage (Ui)	Conforming to IEC 60947-1	V	250
Cabling	Phillips n° 2 and Ø6 mm Flexible or solid conductor with or without cable end	mm²	Min: 1 x 1; max: 2 x 2.5
Tightening torque		N.m	1.7
Control circuit cha	racteristics		
Built-in protection	Of the input		By varistor
·	Contactor coil suppression		By varistor
Rated control circuit voltage (L	Jc)	v	∼ or ==: 24250
Permissible variation			0.81.1 Uc
Type of control			By mechanical contact only
Timing characteris	tics		
Timing ranges		s	0.12; 1.530; 25500
Repeat accuracy	040 °C		±3 % (10 ms minimum)
Reset time	During time delay period	ms	150
	After time delay period	ms	50
Immunity to microbreaks	During time delay period	ms	10
	After time delay period	ms	2
Minimum control pulse duratio	n	ms	-
Time delay signalling	By LED	1	Illuminates during time delay period
Switching characte	eristics (solid state type)		
Maximum power dissipated		w	2
Leakage current		mA	< 5
Residual voltage		v	3.3
Overvoltage protection			3 kV; 0.5 joule
Electrical durability	In millions of operating cycles		30
Function diagram			
Electronic on-delay time	er LA4DT		
U supply (A1-A2) 1			_

References:	Dimensions:	Schemes:
page B8/40	pages B8/94 and B8/95	pages B8/101 and B8/102

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 \otimes

Time delay output 1 Contactor coil 0

Red LED

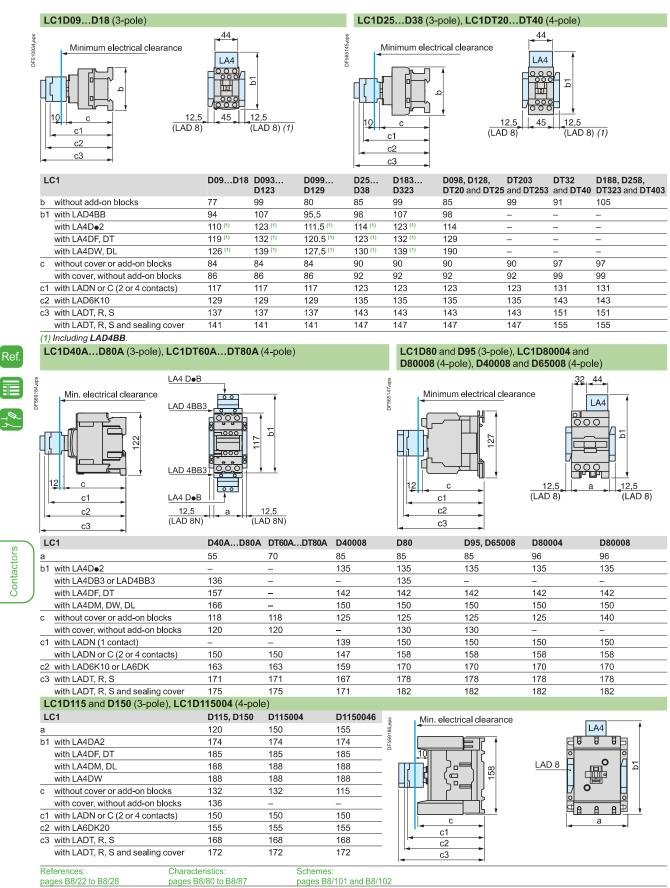
TeSys Control Deca green, Deca Contactors - Interface modules

Characteristics

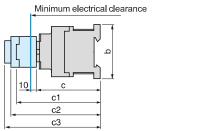
•	Deda green	n contactors	,	150.0555					
Conforming to standards				IEC 60255-5					
Product certifications				UL, CSA					
Degree of protection	Conforming to I	EC 60529		Protection aga	inst direct finger	contact IP 2X			
Ambient air temperature	Storage		°C	-40+80					
around the device	Operation		°C	-25+55					
		operation at Uc	°C	-25+70					
Other characteristic	cs								
Module type				LA4DFB for D contactors With relay	eca	conta Solid		ca green	
Conventional thermal current (lth)	For ambient ter ≤ 50 °C	mperature	Α	8					
Rated insulation voltage	Conforming to I	IEC 60947-5-1	v	250					
Rated operational voltage	Conforming to I		v	250					
Indication of input state				By integral LE	D which illuminat	es when the cor	tactor coil is ener	gised	
Input signals	Control voltage		٧	 24		=== 24			
	Permissible var		٧	1730		530			
	Current consun	nption at 20 °C	mA	25		8.5 for 15 for			
	State "0" guaranteed for U		٧	< 2.4		< 2.4			
		I	mA	< 2		< 2			
	State "1" guara	nteed for U	V	17		5			
Built-in protection	Against reverse	ed polarity		By diode		By dio	By diode		
	Of the input			By diode		By dio	de		
Electrical durability In millions of operating cycles at 220 A/240 V			10						
Maximum immunity to microbreaks		ms	4	4					
Power dissipated	At 20 °C		w	0.6		0.4			
Direct mounting	With coil	∼ 24250 V		LC1D80D15	50	_			
on contactor		\sim 100250 V		_		LC1D	80D115		
		\sim 380415 V		-		-			
Mounting with cabling adapter	With coil	∼ 24250 V		LC1D09D38			9D38, [20DT40		
LAD4BB		~ 380415 V		-		-			
Mounting with	With coil	∼ 24250 V		LC1D40AD	B0A	LC1D	I0AD80A		
cabling adapter LAD4BB3		~ 380415 V		LC1D40AD	80A	LC1D-	I0AD80A		
Total operating time at Uc (of the contactor)			The clo	erating times deposing time "C" is i	pend on the type measured from thes. The opening t	ne moment the c ime "O" is meas	stromagnet and its bil supply is switc ured from the mor		
				LC1D09 D38, LC1DT20 DT40	LC1D40A D80A	LC1D80 and D95	LC1D115	LC1D150	
	With LA4DFB	"C"	ms	2030	2834	2843	2858	2843	
		"O"	ms	1624	2024	1832	1832	5287	
Cabling	Phillips n° 2 and Flexible or solid with or without	l cable	mm ²	Min: 1 x 1; ma	x: 2 x 2.5		<u> </u>	I	
	with or without	capie elia	1	1					

Deca Contactors - a.c. coil

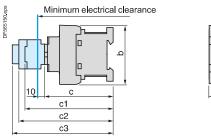
Dimensions



LC1D09...D18 (3-pole)

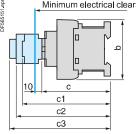


LC1D25...D38 (3-pole)



LC1	D09D18	D093D123	D099D129	D25D38	D183D323
b	77	99	80	85	99
c without cover or add-on blocks	93	93	93	99	99
with cover, without add-on blocks	95	95	95	101	101
c1 with LADN or C (2 or 4 contacts)	126	126	126	132	132
c2 with LAD6K10	138	138	138	144	144
c3 with LADT, R, S	146	146	146	152	152
with LADT, R, S and sealing cover	150	150	150	156	156
LC1DT20DT40 (4-pole)					

Minimum electrical clearance







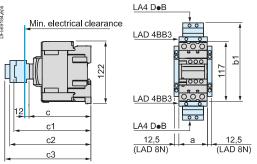


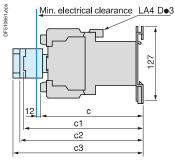


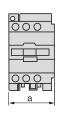
LC1	DT20 and DT25 D098 and D128	DT203 and DT253 D0983 and D1283		DT323 and DT403 D1883 and D2583
b	85	99	91	105
c with cover	102	102	107	107
c1 with LADN or C (2 or 4 contacts)	123	123	131	131
c2 with LAD6K10	135	135	143	143
c3 with LADT, R, S	143	143	151	151
with LADT, R, S and sealing cover	147	147	155	155

LC1D40A...D80A (3-pole), LC1DT60A...DT80A (4-pole)

LC1D80 and D95 (3-pole), LP1D80004, LP1D80008 (4-pole), LP1D40008 and D65008 (4-pole)







	LC1D40A D80A	LC1 DT60ADT80A	LP1D40008 and D65008	LC1 D80 and D95	LP1D80004	LP1D80008	
a	55	72	85	85	96	96	
b1 with LAD4BB3	136	136	_	_	_	_	
with LA4DF, DT	157	157	_	_	_	_	
c without cover or add-on blocks	118	118	182	181	181	196	
with cover, without add-on blocks	120	120	_	186	_	_	
c1 with LADN (1 contact)	_	-	196	204	204	204	
with LADN or C (2 or 4 contacts)	150	150	202	210	210	210	
c2 with LAD6K10 or LA6DK20	163	163	213	221	221	221	
c3 with LADT, R, S	171	171	221	229	229	229	
with LADT, R, S and sealing cover	175	175	225	233	233	233	
LC1D115••• and LC1D150••• with coil: see page B8/94.							

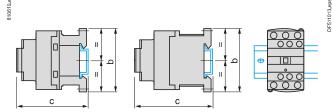
References: Characteristics: Schemes: pages B8/22 to B8/28 pages B8/80 to B8/87 pages B8/101 and B8/102

TeSys Control Deca Contactors

Mounting

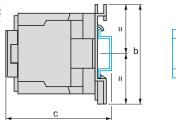
LC1D09...D38, DT20...DT40

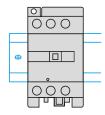
On mounting rail NSYSDR200BD, NSYSDR200BD or NSYSDR200 (width 35 mm)



LC1D40A...D80A, LC1DT60A and DT80A, LC1D80 and D95, LC1D40008 and D65008

On mounting rail AM1DL201 (width 75 mm) (2)
On mounting rail NSSDPR•• or NSYSDR200 (width 35 mm)





C	Control circuit: a.c.				
L	C1	D09 D18	D25 D38	DT20 and DT25	DT32 and DT40
b		77	85	85	100
С	(NSYSDR200BD or NSYSDR200BD) (1)	88	94	94	109
С	(NSYSDR200) (1)	96	102	102	117

C	ontrol circuit: a.c.			
L	C1	D40AD80A DT60ADT80A	D80 and D95	D40008 and D65008
b		122	127	127
С		_	147	143
С	(AM1DL201) (1)	_	137	133
С	(NSSDPR●● or NSYSDR200 (1)	128	137	133









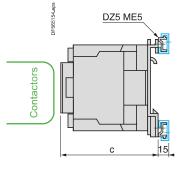
C	ontrol circuit: d.c.				
L	C1	D09 D18	D25 D38	DT20 and DT25	DT32 and DT40
b		77	85	94	109
С	(NSYSDR200BD or NSYSDR200BD) (1)	97	103	103	118
С	(NSYSDR200) (1)	105	110	111	126

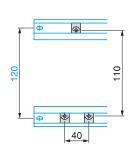
Control circuit: d.c.					
L	C1	D40AD80A DT60ADT80A	D80 and D95	D40008 and D65008	
С		-	205	200	
С	(AM1DL201) (1)	_	195	190	
c	(NSSDPR●● or NSYSDR2	00) (1) 128	_	190	

- (1) With safety cover.
- (2) Except for LC1D40A...D80A, LC1DT60A and DT80A.

LC1D80 and D95, LP1D80

On 2 mounting rails DZ5MB on 120 mm centres





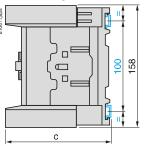
D80 and D95
130

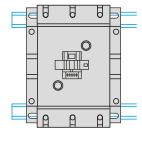
LC1	D80 and D95
c with cover	186
LP1	D80
С	181

(3) Leave a 9 mm gap between 2 contactors if left on for more than 4 hours.

LC1D115, D150

On 2 mounting rails DZ5MB on 120 mm centres



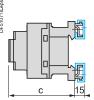


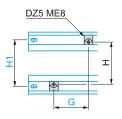
C	Control circuit: a.c. or d.c.				
L	C1	D115 and D150	D1156 and D1506		
С	(NSYSDR200BD or NSYSDR200BD)	134.5	117.5		
С	(NSYSDR200 or ED●●●)	142.5	125.5		

References:	Characteristics:	Schemes:
pages B8/22 to B8/28	pages B8/80 to B8/87	pages B8/101 and B8/102

LC1D09...D38 and LC1DT20...DT40

On 2 mounting rails DZ5MB





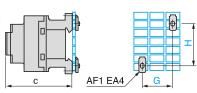
Control circuit:	a.c.		d.c.	
LC1	D09D18	D25D38	D09D18	D25D38
c with cover	86	92	95	101
G	35	35	35	35
Н	60	60	70	70
H1	70	70	70	70

4-pole contactors

LC1	DT20 and DT25	DT32 and DT40	DT20 and DT25	DT32 and DT40
С	92	100	101	109
G	35	35	35	35
Н	60	60	70	70
H1	70	70	70	70

LC1D40A...D80A, LC1DT60A...DT80A

On pre-slotted mounting plate AM1 PA, PB, PC and panel mounted



LC1D09...D38 and LC1DT20...DT40 On pre-slotted mounting plate AM1 PA, PB, PC

AF1 EA4 G

	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	37.5 29/04.5
C →	37,5 AF1 EA4	37,5 3xØ4,5

Control circuit:	a.c		d.c	
LC1	D09D18	D25D38	D09D18	D25D38
c with cover	86	92	95	101
G	35	35	35	35
Н	60/70	60/70	70	70
LC1	DT20 and DT25	DT32 and DT40	DT20 and DT25	DT32 and DT40
c with cover	80	93	118	132

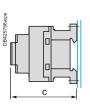
70

70



60 LC1D09...D38, LC1DT20...DT40

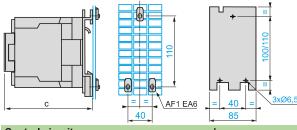
Panel mounted





LC1D80 and D95, LC1D40008 and D65008, LP1D80

On pre-slotted mounting plate AM1 PA, PB, PC and panel mounted

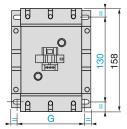


(1) for DC	coil:	70	mm	only.

Control circuit:	a.c		d.c	
LC1	D09D18	D25D38	D09D18	D25D38
c with cover	86	92	95	101
4-pole contactors				
LC1	DT20 and DT25	DT32 and DT40	DT20 and DT25	DT32 and DT40
c with cover	90	98	90	98

		-	-
Control circuit:	a.c		d.c.
LC1	D80 and D9	5,	D80 and D95
	D40008 and	D65008	D40008 and D65008
c with cover	130		186
LP1	-	-	D80
c without cover	-	_	181

LC1D115, D150 Panel mounted



LC1	D115	D1156	D150	D1506
С	132	115	132	115
G (3-pole)	96/110	96/110	96/110	96/110
G (4-pole)	130/144	130/144	_	_

References: Characteristics: Schemes: pages B8/22 to B8/28 pages B8/80 to B8/87 pages B8/101 and B8/102

TeSys Control Deca green Contactors

Dimensions

c1 with LADN or C (2 or 4 contacts)

with LADT, R, S and sealing cover

c2 with LAD6K10

c3 with LADT, R, S

LC1D09...D18 (3-pole), with AC/DC compatible coil LC1D25...D38 (3-pole), with AC/DC compatible coil Minimum electrical clearance Minimum electrical clearance (LAD 8) c1 c2 c2 сЗ LC1 D09...D18 D25...D38 b without add-on blocks 77 85 c without cover or add-on blocks 84 90 86 92 with cover, without add-on blocks

123

135

143

147

(LÁD 8)

LC1D40A...D80A (3-pole), LC1DT60A...DT80A (4-pole), with AC/DC compatible coil

117

129

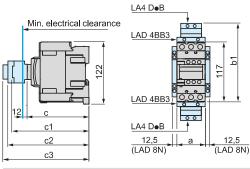
137

141







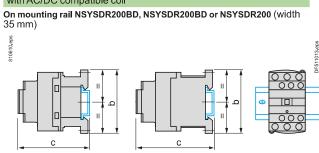


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	LC1	D40AD80A	DT60ADT80A
	a	55	70
, i	b1 LAD4BB3	136	-
)	with LAD4DWB	166	-
П	c without cover or add-on blocks	118	118
ı	with cover, without add-on blocks	120	120
) ;	c1 with LADN (1 contact)	_	-
	with LADN or C (2 or 4 contacts)	150	150
	c2 with LAD6K10	163	163
	c3 with LADT, R, S	171	171
	with LADT, R, S and sealing cover	175	175

$\mbox{LC1D40A}...\mbox{D80A}$ (3-pole), $\mbox{LC1DT60A}$ and $\mbox{DT80A}$ (4-pole), with AC/DC compatible coil

On mounting rail AM1DL201 (width 75 mm) (2)
On mounting rail NSSDPR•• or NSYSDR200 (width 35 mm)

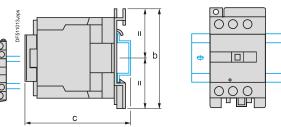


TeSys Control

LC1D09...D38 (3-pole), with AC/DC compatible coil

Mounting

Deca green Contactors



LC1	D09D18	D25D38	
b	77	85	
c (NSYSDR200BD or NSYSDR200BD)	88	94	
c (NSYSDR200)	96	102	

LC	1	D40AD80A DT60ADT80A
b		122
С		_
С	(AM1DL201)	
С	(NSSDPR●● or NSYSDR200)	128







References: pages B8/18 to B8/21

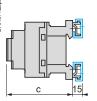
Characteristics: pages B8/80 to B8/87 Schemes: pages B8/101 and B8/102

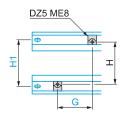
TeSys Control Deca green Contactors

Mounting

LC1D09...D38 (3-pole), with AC/DC compatible coil

On 2 mounting rails DZ5MB

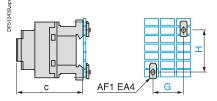


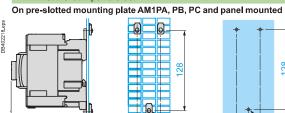


LC1	D09D18	D25D38
c with cover	86	92
G	35	35
Н	60	60
H1	70	70

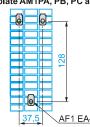
LC1D09...D38 (3-pole), with AC/DC compatible coil

On pre-slotted mounting plate AM1PA, PB, PC

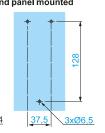




with AC/DC compatible coil



LC1D40A...D80A (3-pole), LC1DT60A...DT80A (4-pole),

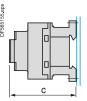


Ref.	

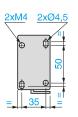
L	C1	D09D18	D25D38
С	with cover	86	92
G		35	35
Н		60/70	60/70
L	LC1D09D38 (3-pole), with AC/DC compatible coil		











LC1	D09D18	D25D38
c with cover	86	92

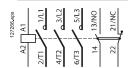
Deca green, Deca Contactors

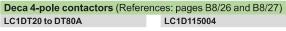
Schemes

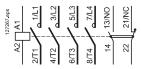
Contactors

Deca, Deca green 3-pole contactors (References: pages B8/22 to B8/25)

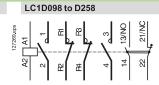
LC1D09 to D150

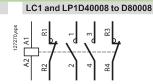












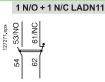
Front mounting add-on contact blocks

Instantaneous auxiliary contacts for Deca, Deca green contactors (References: page B8/36)

1 N/O LADN10 (1) 1 N/O LADN11 (1) 1 N/O +1 N/C LADN11

DF510935 eps	√ 43/NO	(94)
	44	(63)

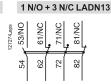












4 N/C LADN04

2 N/O + 2 N/C including 1 N/O + 1 N/C make before break LADC22

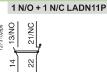






127308,eps	53/NO	61/NC	0N/67	83/NO
	52	62	74	8

31/NC 31/NC 4 43/NO



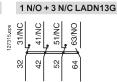


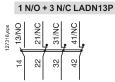


3 N/O + 1 N/C LADN31G









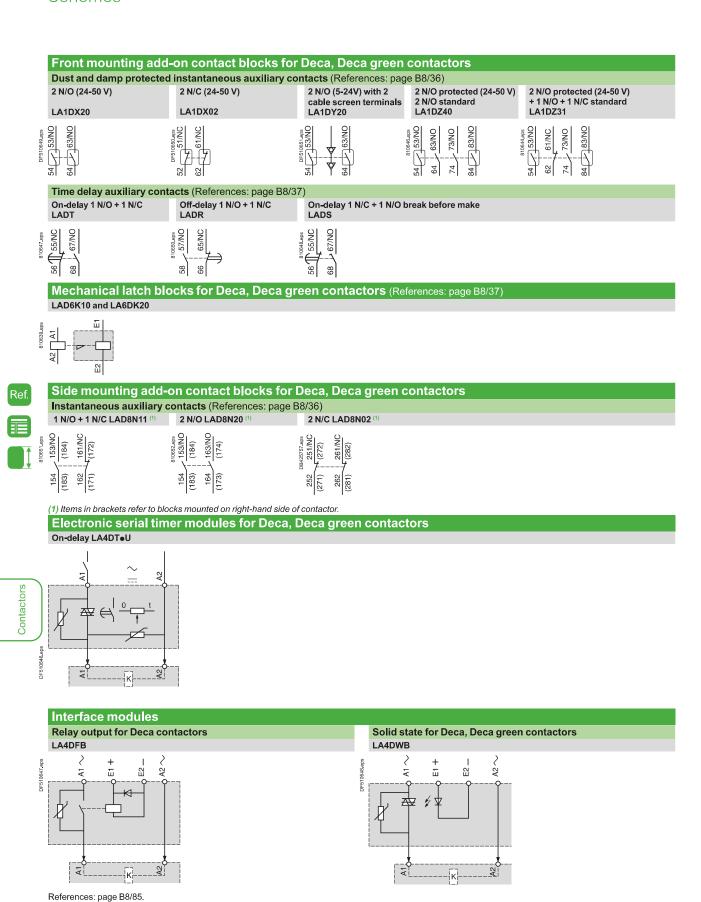
(1) Items in brackets refer to blocks mounted on right-hand side of contactor.

References: pages B8/22 to B8/40 Characteristics: pages B8/80 to B8/93 Dimensions:

pages B8/94 to B8/100

TeSys Control Deca green, Deca Contactors

Schemes



Dimensions:

pages B8/94 and B8/95, B8/98

pages B8/36 to B8/40

Characteristics

pages B8/88 to B8/92

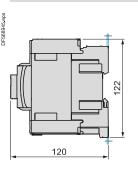
LC2D09 to D38 Deca, Deca green contactors LC2DT20 to DT40 Deca contactors 2 x LC1D09 to D38 2 x LC1DT20 to DT40 а а LC2 or 2 x LC1 C (1) e2 LC2 or 2 x LC1 e2 D09 to D18 AC, AC/DC DT20 and DT25 AC 90 77 86 1.5 80 90 85 92 20 4 80 D093 to D123 AC 90 99 86 80 DT32 and DT40 AC 90 91 99 80 22 D09 to D18 DC 77 4 1.5 80 DT20 and DT25 DC 102 80 D093 to D123 DC 90 99 95 80 DT32 and DT40 DC 91 109 80 22 D25 to D38 90 85 92 9 5 80 c, e: including cabling. AC, AC/DC D183 to D383 AC 90 99 92 80 D25 to D32 DC 85 101 5 80 D183 to D383 DC 99 101 80

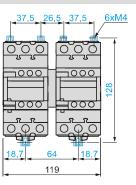
e1 and e2: including cabling.

(1) With safety cover, without add-on block.

LC2D40A to D80A for Deca, Deca green contactors $2 \times LC1D40A$ to D80A





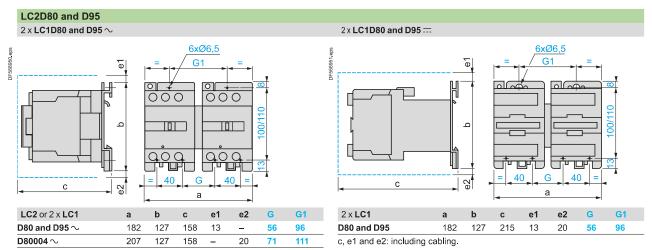


References: pages B8/29 to B8/32 Characteristics:

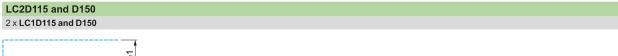
Schemes: pages B8/105 to B8/106

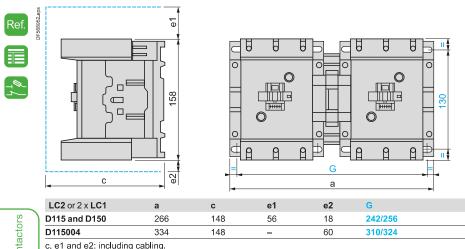
Deca Reversing and changeover contactors

Dimensions





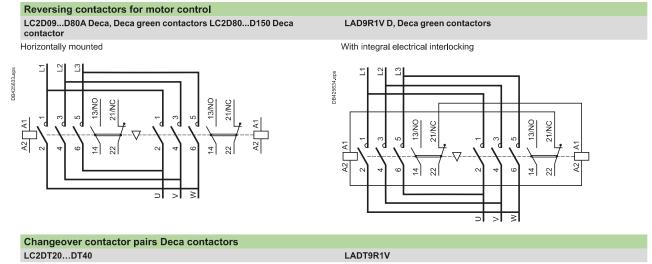




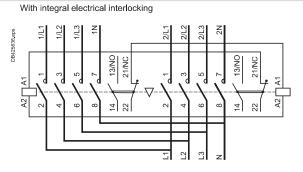
c, e1 and e2: including cabling.

Life Is On

Schemes



Perzenszkaps Perze





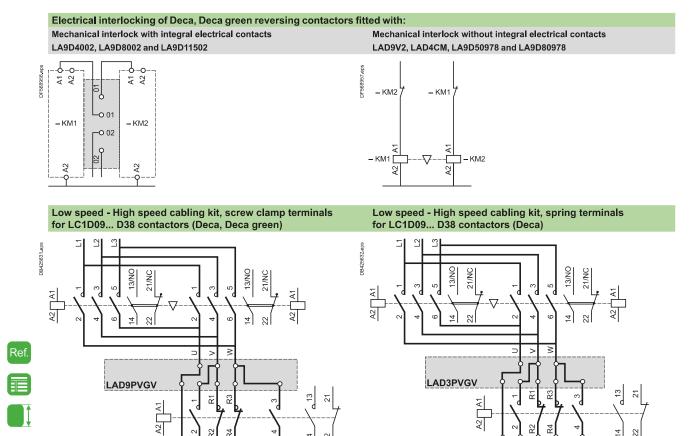




Deca green, Deca Reversing and changeover contactors

ĞΫ

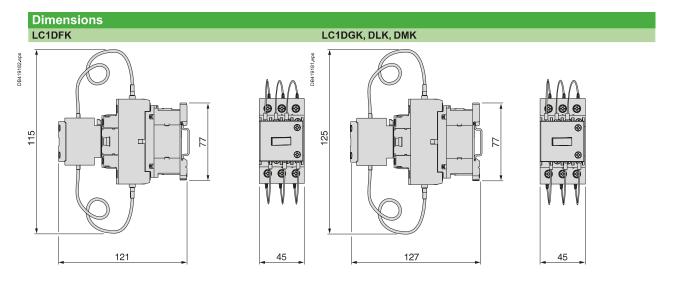
Schemes

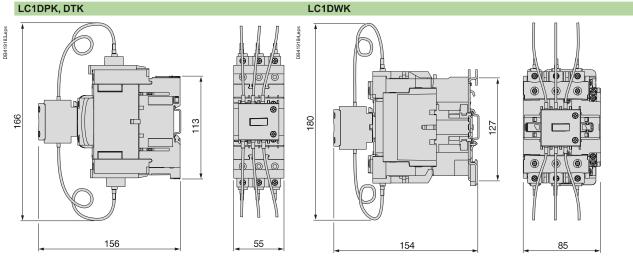


LAD3PVGV10

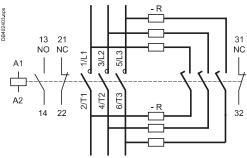
Deca Contactors for 3-phase capacitor bank switching

Dimensions and scheme









R = Pre-wired resistor connections.

Ref.

TeSys Control Modular Contactors

Characteristics



GC25





contactors

Modular contactors are designed for use in modular panels and enclosures.

These contactors feature:

■ Easy installation:

- □ quick clip-on fixing and locking onto 35 mm omega rail
- □ easy connection by means of ready-to-tighten, captive, pozidrive screw terminals.

■ Compact size:

All units have a common depth of 60 mm and width in modules of 17.5 mm (width of one module: 17.5 mm).

■ User safety:

- □ use of materials conforming to strictest fire safety standards
- □ live parts protected against direct finger contact
- □ completely safe operation
- □ state indication on front panel.

Standards

This range of modular contactors has been designed taking into account the requirements of international standard IEC 61095.

This standard is specific to "Electromagnetic contactors for domestic and similar use".

It has very strict requirements, meeting the expectations of users, with regard to the safety of equipment and persons in "premises and areas accessible to the public". Conformity with this standard makes it possible to obtain the following quality labels without the need for additional tests: NF-USE, VDE, CEBEC, etc.

Applications

Modular contactors are designed for switching all single-phase, 3-phase or 4-phase loads up to 100 A.

Power switching

These contactors have multiple applications in industrial, agricultural and commercial premises, hospitals and the home, i.e. wherever switching of a specific supply is required:

- lighting
- heating
- ventilation
- motorised shutters or gates.

TeSys Control Modular Contactors

Characteristics

Contactor type			GC16	GC25	GC40	GC63	GC100				
Rated insulation voltage	Conforming to IEC 61095	v	500								
(Ui)	Conforming to VDE 0110	v	500								
Rated impulse withstand voltage (Uimp)		kV	4 in enclosu	re							
Conforming to standards		1	IEC 61095 and IEC 60947-5-1 for auxiliary contacts								
Degree of protection	Conforming to IEC 60529	+	Protection against direct finger contact (IP 20 open, IP 40 in enclosure)								
Ambient air temperatura	Storage	°C	-40+70								
Ambient air temperature around the device	Storage	°C		05 1111a\							
	Operation	"	-5+50 (0.8	UG)							
Maximum operating altitude	Without derating	m	3000				<u>, </u>				
Operating positions	Without derating		±30° in relat	ion to normal verti	cal mounting plan	е					
Shock resistance	Contactor open	+	10 gn								
1/2 sine wave = 10 ms	Contactor closed	+	15 gn								
Conforming to IEC/EN 60068-2-27	Contactor Glober		10 gil								
Vibration resistance	Contactor open	1	2 gn								
5300 Hz Conforming to	Contactor closed		3 gn								
IEC/EN 60068-2-6		-	Conformir	to IEC 64005							
Flame resistance			Conforming	to IEC 61095							
Pole characteristics											
Number of poles			2, 3 or 4								
Rated operational current (Ie)	In AC-7a (heating)	Α	16	25	40	63	100				
(Ie) ≤ 440 V)	In AC-7b (motor control)	A	5	8.5	15	25	-				
Contactor rating	40 °C	Α	16	25	40	63	100				
	50 °C	A	14	22	36	57	87				
	60 °C (1)	A	13	20	32	50	80				
Rated operational voltage	Up to	v		e contactors, 415 t			100				
(Ue) Freguency limits	Of the operating current	Hz	400								
<u> </u>											
Conventional thermal current (Ith)	θ ≤ 50 °C	Α	16	25	40	63	100				
Rated breaking and making capacity	Conforming to IEC 61095 (AC-7b) I rms 400 V 3-phase	Α	40	68	120	200	-				
Permissible short time rating	For 10 s	Α	128	200	320	504	800				
no current flowing for preceding 15 minutes with q 40 °C	For 30 s	A	40	62	100	157	250				
Short-circuit protection	gl fuse	A	16	25	40	63	100				
by fuse or circuit breaker	Circuit breaker I ² t 230 V	A ² s	5000	10000	16000	18000	-				
U ≤ 440 V	(at 3 kA rms $\frac{230 \text{ V}}{400 \text{ V}}$	A ² s	9000	14000	17500	20000					
	prospective)	1,3	3000	1-1000	17300	20000	- -				
Electrical durability in operating cycles	AC-7a, AC-7b		100000	100000	100000	100000	30000				
Average impedance per pole	At Ith and 50 Hz	mΩ	2.5	2.5	2	2	1				
Power dissipated per pole	For the above operational currents	w	0.65	1.6	3.2	8	10				
ower discipated per pere	· · · · · · · · · · · · · · · · · · ·	mm²	6	6	25	25	35				
	1 conductor	10000		4	16	16	-				
Maximum cabling Flexible cable	1 conductor 2 conductors	mm²	4	4	10	10					
Maximum cabling Flexible cable c.s.a. without cable end	2 conductors					-	0.5				
Maximum cabling Flexible cable c.s.a. without cable end	2 conductors 1 conductor	mm²	6	6	16	16	35				
Maximum cabling Flexible cable c.s.a. without cable end	2 conductors				16	16	35				
Maximum cabling Flexible cable c.s.a. without cable end Flexible cable with cable end Solid cable	2 conductors 1 conductor 2 conductors 1 conductor	mm²	6	6 1.5	16	16	_				
Maximum cabling Flexible cable c.s.a. without cable end Flexible cable with cable end	2 conductors 1 conductor 2 conductors 1 conductor	mm² mm²	6 1.5	6 1.5	16	16	-				

(1) Ventilation 1/2 module must be fitted.

References: page B8/51 Dimensions, schemes: pages B8/115 to B8/117

TeSys Control Modular Contactors

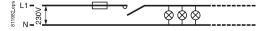
Characteristics

Contactor type				GC16, GC25 single or 2-pole	GC16, GC25 3 or 4-pole GC40, GC63 2-pole	GC40, GC63 3 or 4-pole GC100 2-pole	GC100 4-pole				
Rated control circuit vo	Itage (Uc)	50 or 60 Hz	V	12240 V, for other voltages, please consult your Regional Sales Office							
Control voltage limits	50 Hz coils	Operational		0.851.1 Uc							
(θ ≤ 50 °C)		Drop-out		0.20.75 Uc							
Average coil	\sim 50 Hz	Inrush	VA	15	34	53	106				
consumption at 20 °C and at Uc		Sealed	VA	3.8	4.6	6.5	13				
Maximum heat dissipat	ion	50/60 Hz	w	1.3	1.6	2.1	4.2				
Operating time		Closing "C"	ms	1030							
		Opening "O"	ms	1025							
Mechanical durability		In operating cycles		10 ⁶							
Maximum operating rat at ambient temperature		In operating cycles per hour		300							
Maximum cabling c.s.a.	Flexible cable without cable end	1 or 2 conductors	mm²	2.5							
	Flexible cable	1 conductor	mm²	2.5							
	with cable end	2 conductors	mm²	1.5							
	Solid cable without cable end	1 or 2 conductors	mm²	1.5							
Tightening torque			N.m	0.8							

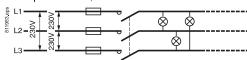


ontact characteri	stics	
Un to		
Op to	V	250
Conforming to IEC 60947-5	٧	500
Conforming to VDE 0110	V	500
For ambient θ ≤ 50 °C	Α	5
Operating cycles		10°
Flexible or solid conductor	mm²	2.5
	N.m	0.8
	IEC 60947-5 Conforming to VDE 0110 For ambient $\theta \le 50$ °C Operating cycles Flexible or	IEC 60947-5 Conforming to VDE 0110 For ambient $\theta ≤ 50$ °C Operating cycles Flexible or solid conductor mm^2

■ Single-phase circuit, 230 V

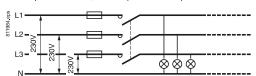


■ 3-phase circuit, 230 V



The maximum number of lamps which can be operated per phase is equal to the number of lamps in the "single phase 230 V" table divided by $\sqrt{3}$.

■ 3-phase circuit, 400 V (with neutral)



The maximum number of lamps which can be operated per phase is equal to the total number of lamps in the "single-phase 230 V" table.

Contactor rating for a single-phase 230 V circuit (single-pole)





										- (
Fluoresc	ent la	nps w	ith st	arter							
Single fitting	Non c	orrect	ed			With parallel correction					Contactor rating
P (W)	20	40	50	80	110	20	40	58	80	110	_
I _B (A)	0.39	0.43	0.70	0.80	1.2	0.19	0.29	0.46	0.57	0.79	_
C (µF)	-	-	-	-	-	5	5	7	7	16	_
Maximum	22	20	13	10	7	15	15	10	10	5	16 A
number	30	28	17	15	10	20	20	15	15	7	25 A
of lamps	70	60	35	30	20	40	40	30	30	14	40 A
	100	90	56	48	32	60	60	43	43	20	63 A
Twin fitting	Non c	orrect	ed			With	series	correc	ction		Contactor rating
P (W)	2 x 18	2 x 36	2 x 58	2 x 80	2 x 140	2 x 18	2 x 36	2 x 58	2 x 80	2 x 140	_
I _B (A)	0.44	0.82	1.34	1.64	2.2	0.26	0.48	0.78	0.96	1.3	-
C (µF)	-	_	_	_	_	3.5	4.5	7	9	18	-
Maximum	20	11	7	5	4	30	17	10	9	6	16 A

46 25 16 13 10

80 43 27

123 67 42 34 25

High pres	High pressure mercury vapour lamps													
	Non corrected					With parallel correction							Contactor rating	
P (W)	50	80	125	250	400	700	50	80	125	250	400	700	1000	_
I _B (A)	0.6	8.0	1.15	2.15	3.25	5.4	0.35	0.50	0.7	1.5	2.4	4	5.7	-
C (µF)	_	-	-	_	-	-	7	8	10	18	25	40	60	-
Maximum	15	10	8	4	2	1	10	9	9	4	3	2	-	16 A
number	20	15	10	6	4	2	15	13	10	6	4	2	1	25 A
of lamps	34	27	20	10	6	4	28	25	20	11	8	5	3	40 A
	53	40	28	15	10	6	43	38	30	17	12	7	5	63 A

30 16 10 8 6

50

75 42 25 21 16

number

of lamps

26

 $\mathbf{l}_{\mathrm{g}};$ value of current drawn by each lamp at its rated voltage. $\mathbf{C};$ unit capacitance for each lamp. \mathbf{l}_{g} and \mathbf{C} correspond to values normally quoted by lamp manufacturers

13

10

16

25 A

40 A

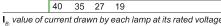
63 A

22 16

TeSys Control **Modular Contactors**

Characteristics in lighting applications

(single-po		_		our I	ampo									
Low press		corre			amps	•	With	para	illel c	orre	ction			Contacto rating
P (W)	18	35	55	90	135	180	18	35	55	90	135	180		_
I _B (A)	0.35	1.4	1.4	2.1	3.1	3.1	0.35	0.6	0.6	0.9	0.9	0.9		_
C (µF)	-	_	_	_	_	_	5	20	20	26	45	40		_
Maximum	18	4	5	3	2	2	14	3	3	2	1	1		16 A
number	34	9	9	6	4	4	21	5	5	4	2	2		25 A
of lamps	57	14	14	9	6	6	40	10	10	8	4	5		40 A
	91	24	24	19	10	10	60	15	15	11	6	7		63 A
High pres	sure s	odiuı	m vaj	oour	lamp	s								
	Non	corre	ected				With	para	illel c	orre	ction			Contacto rating
P (W)	70	150	250	400	1000)	70	150	250	400	1000)		-
I _B (A)	1	1.8	3	4.4	10.3		0.6	0.7	1.5	2.5	6			-
C (µF)	-	_	_	_	_		12	20	32	45	100			
Maximum	8	4	2	1	_		6	6	2	2	1			16 A
number	12	7	4	3	1		9	9	3	4	2			25 A
of lamps	20	13	8	5	2		18	18	6	8	4			40 A
	32	18	11	8	3		25	25	9	12	6			63 A
Metal iodi	Non	corre	ected					•			ction			Contacto rating
P (W)	35	70		250	400	1000	39	70		250	400		2000	-
I _B (A)	0.3	0.5	1	1.5	2.5	6	0.3	0.5	1	1.5	2.5	6	5.5	
C (µF)	-						6	12	20	32	45	85	60	-
Mandania	0.7	40		_	0	4	12		4	_			4	40.4
Maximum number	27 40	16 24	12	5	5	2	18	9	6	3	3	-	2	16 A 25 A
of lamps	68	42	20	8 14	8	4	31	16	10	7	5	3	3	40 A
	106	64	32	21	13	5	50	25	15	10	7	4	5	63 A
Incandeso						5	50	25	15	10	/	4	5	03 A
incandesc	ent a	iu na	logei	II Iaiii	рs									Contacto rating
P (W)	60	75	100	150	200	300	500	1000)					_
I _в (А)	0.26	0.32	0.44	0.65	0.87	1.3	2.17	4.4						-
Maximum	30	25	19	12	10	7	4	2						16 A
number	45	38	28	18	14	10	6	3						25 A
of lamps	85	70	50	35	26	18	10	6						40 A
	125		73	50	37	25	15	8						63 A
Halogen la	amps	used	with	trans	form	er								Contacto
D (M)	60	80	105	150										
P(VV)														
. ,	0.26	0.35	0.45	บ.ชอ										I —
I _B (A)	0.26 9	0.35 8	6	4										16 A
Maximum														16 A 25 A
I _B (A) Maximum of lamps	9	8	6	4										



35 27

40

63 A

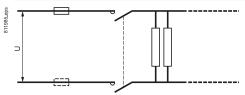




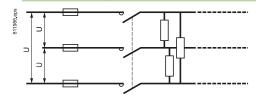
 $oxed{I_{g}}$ value of current drawn by each lamp at its rated voltage. $oldsymbol{\hat{C}}$: unit capacitance for each lamp, $oxed{I_{g}}$ and $oldsymbol{C}$ correspond to values normally quoted by lamp manufacturers

Heating (AC-7a)

Single-phase, 2-pole switching



3-phase switching



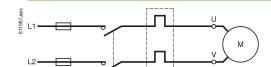
Heating by resistive elements or by infra-red radiators, convectors or radiators, heating ducts, industrial furnaces. The current peak between the hot and cold states must not exceed 2 to 3 In at the moment of switch-on.

Contactor selection a	ccording to	power a	ınd requi	red elect	rical life	
Electrical durability	Maximur		Contactor			
(in operating cycles)	100 x 10 ³	150 x 10 ³	200 x 10 ³	500 x 10 ³	10 ⁶	rating
Single-phase switching	3.5	3	2.2	1	0.8	16 A
230 V	5.4	4.6	3.5	1.6	1.2	25 A
(2-pole)	8.6	7.4	5.6	2.6	1.9	40 A
	13.6	11.6	8.8	4	3	63 A
	21.6	18.4	14	6.4	4.8	100 A
3-phase switching	10	9	6.5	3.2	2.2	16 A
400 V	16	14	10	5	3.5	25 A
(3-pole)	26	22	17	7.5	6	40 A
	41	35	26.5	12	9	63 A
	64.8	55.2	42	19.2	14.4	100 A

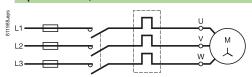
TeSys Control Modular Contactors

Characteristics in motor control applications

Motor control (AC-7b) Single-phase circuit, 230 V



3-phase circuit, 400 V

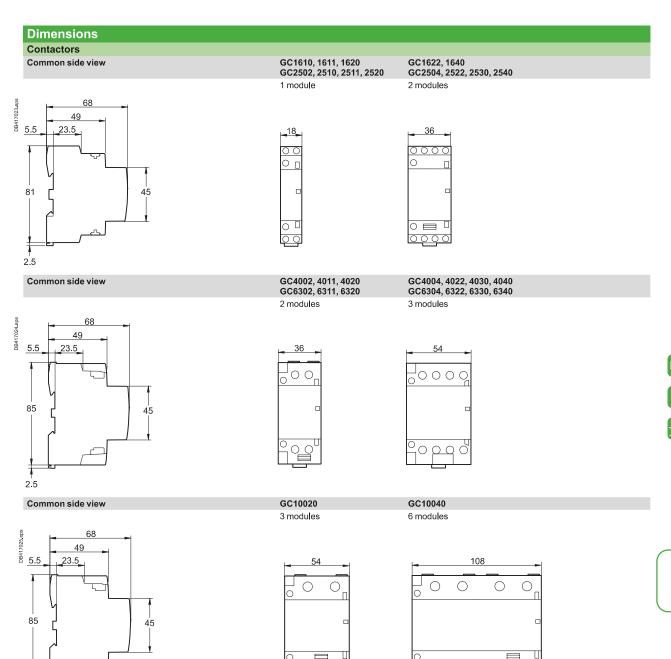


Contactor selection acco	ording to maximum power in kW	
230 V single-phase capacitor motor (2-pole)	400 V 3-phase motor	Contactor rating (Ith)
0.55	2.2	16 A
1.1	4	25 A
2.2	7.5	40 A
4	11	63 A



TeSys Control Modular Contactors

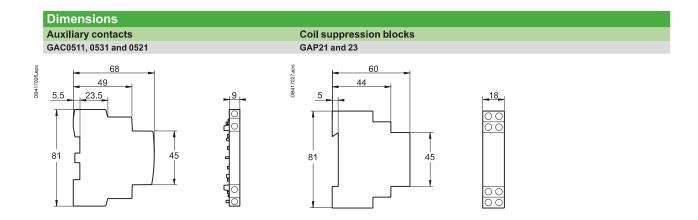
Dimensions



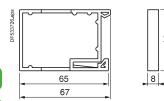
Contacto

Modular Contactors

Dimensions and mounting



Clip-on ventilation 1/2 module GAC5



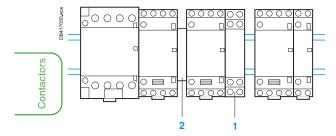




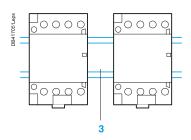


Setting-up precautions

The contactor controls must be bounce free. If not, connect a coil suppression block 1 (GAP21 or 23) across the coil terminals y 250 V. When several contactors which operate at the same time are mounted side by side, a GAC 5 ventilation 1/2 module 2 must be fitted every 2 contactors.



It is advisable to mount electronic units at the bottom of the modular panel and to separate them from electromechanical units by a space 3 equal to one module, or by 2 ventilation 1/2 modules (GAC 5).



TeSys Control Modular Contactors

Schemes

Schemes			
Contactors			
GCee10	GC••20	GC••30	GC••40
AZ AT	DF533770 gps	0F533731,pps	2 2 2 4 8 8 7 7 4 8 7 7 7 7 7 7 7 7 7 7 7 7 7
GC••11	GC••22	GC••02	GC••04
PESSTRANGS AZ AZ AZ AZ AZ AZ AZ AZ AZ AZ AZ AZ AZ	PR 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	A2 PESSY736,098	A2 A14 B B B B B B B B B B B B B B B B B B B
Auxiliary contacts			
GAC0521	GAC0531	GAC0511	
13/NO	DF533738,eps 13/NO 	13/NO	





TeSys Control Modular "Dual tariff" contactors

Characteristics







Contactors

Modular "dual tariff" contactors are designed for use in modular panels and enclosures.

These contactors feature:

■ Easy installation:

- □ quick clip-on fixing and locking onto 35 mm omega rail
- $\hfill \square$ easy connection by means of ready-to-tighten captive, pozidrive screw terminals.

■ Compact size

All units have a common depth of 60~mm and width in modules of 17.5~mm (width of one module: 17.5~mm).

■ User safety:

- □ use of materials conforming to strictest fire safety standards
- ☐ live parts protected against direct finger contact
- □ completely safe operation
- □ state indication on front panel.
- "Dual tariff" contactors are designed for use with Electricity Supply Authority dual tariffs.

They have a 4-position selector switch on the front panel:

"Stop" (O)	For switching off the load, e.g. for prolonged periods of absence.
"Off peak" Automatic start (A)	The contactor switches automatically during "off peak" hours as set by the Supply Authority remote control and thus supplies the load, (washing machine, dishwasher, convector heater, water heater) during this period, at an economy rate to the user.
"Peak time" Manual start (I)	In this position, the contactor supplies the load to cater for additional requirements for hot water, heating, etc., but at the standard rate. The contactor returns automatically to the "off-peak" position at the start of
"Peak time" Manual override with lock	Facility for setting the contactor to continuous manual operation, ignoring the automation system and the Supply Authority control; setting and locking is achieved by means of a tool, with manual return to the "AUTO" position.

Standards

This range of modular contactors has been designed taking into account the requirements of international standard IEC 61095.

This standard is specific to "Electromagnetic contactors for domestic and similar use".

It has very strict requirements, meeting the expectations of users, with regard to the safety of equipment and persons in "premises and areas accessible to the public". Conformity with this standard makes it possible to obtain the following quality labels without the need for additional tests: NF-USE, VDE, CEBEC, etc.

"Dual tariff" modular contactors are designed for switching all single-phase, 3-phase or 4-phase loads up to 63 A.

Modular contactors have multiple applications in industrial, agricultural and commercial premises, hospitals and the home, i.e. wherever switching of a specific supply is required:

- lighting,
- heating, ventilation,
- motorised shutters or gates.

TeSys Control Modular "Dual tariff" contactors

Characteristics

Environment Type			GY16	GY25	GY40	GY63
Rated insulation voltage (Ui)	Conforming to IEC 61095	v	500	3,20	2	5,00
tated insulation voltage (Oi)	Conforming to VDE 0110	v	500			
Rated impulse withstand voltage	e (Uimp)	kV	4 in enclosure			
Conforming to standards			IEC 61095 and	IEC 60947-5-1 for au	ixiliary contacts	
Product certifications			NF-USE, VDE,	CEBEC, ÖVE		
Degree of protection	Conforming to IEC 60529		Protection agai	nst direct finger conta	act IP 20 open, IP 40 ir	n enclosure
Ambient air temperature around	Storage	°C	-40+70			
the device	Operation	°C	-5+50 (0.85.	1 1 I I c)		
Maximum operating altitude	Without derating	m	3000			
Operating positions	Without derating		±30° in relation	to normal vertical mo	unting plane	
Shock resistance	Contactor open		10 gn			
1/2 sine wave = 11 ms Conforming to EC/EN 60068-2-27	Contactor closed		15 gn			
Vibration resistance	Contactor open		2 gn			
5300 Hz Conforming to	Contactor closed		3 gn			
EC/EN 60068-2-6 Flame resistance			Conforming to	IEC 61095		
Pole characteristics						
Number of poles			2, 3 or 4			
Rated operational current (le)	In AC-7a (heating)	A	16	25	40	63
(Ue ≤ 440 V)	In AC-7b (motor control)	Ā	5	8.5	15	25
Contactor rating	40 °C		16	25	40	63
actor rating	50 °C	+	14	22	36	57
	60 °C ⁽¹⁾	_	13	20	32	50
Rated operational voltage (Ue)	Up to	v		ntactors, 415 - 3 and		100
Frequency limits	Of the operating current	Hz	400			
Conventional	θ ≤ 50 °C	A	16	25	40	63
hermal current (lth) Rated breaking	Conforming to IEC 61095	Α	40	68	120	200
Rated breaking and making capacity	(AC-7b) I rms 400 V 3-phase	l ^A	40	08	120	200
Short time rating	For 10 s	A	128	200	320	504
with no current flow for the previous previous 15 minutes with θ ≤ 40 °C	For 30 s	A	40	62	100	157
Short-circuit protection by fuse o U ≤ 440 V	r circuit breaker					
gl fuse		Α	16	25	40	63
Circuit breaker I ² t	230V	A²s	5000	10000	16000	18000
(at 3 kA rms prospective)	400V	A²s	9000	14000	17500	20000
Electrical durability in operating cycles	AC-7a, AC-7b		100000	100000	100000	100000
Average impedance per pole	At Ith and 50 Hz	mΩ	2.5	2.5	2	2
Power dissipated per pole	For the above operational currents	w	0.65	1.6	3.2	8
Maximum cabling c.s.a. Flexible cable	1 conductor	mm²	6	6	25	25
without cable end	2 conductors	mm²	4	4	16	16
Flavible c - U -						
Flexible cable with cable end	1 conductor	mm²	6	6	16	16
	2 conductors	mm²	1.5	1.5	4	4
Solid cable without cable end	1 conductor	mm²	6	6	25	25
WILLIOUL CADIE ELIC	O conductors	mm ²	4	4	6	6
without cable end	2 conductors	111111				

TeSys Control Modular "Dual tariff" contactors

Characteristics

Control circuit chara	acteristics								
Туре			GY16, GY25 single or 2-pole	GY16, GY25 3 or 4-pole GY40, GY63 2-pole	GY40, GY63 3 or 4-pole				
Rated control circuit voltage (Uc)	50 or 60 Hz	V	12240 V, for other v	oltages, please consult your	Regional Sales Office				
Control voltage limits (θ ≤ 50 °C)								
50 Hz coils	Operational		0.851.1 Uc						
	Drop-out		0.20.75 Uc						
Average consumption at 20 °C a	and at Uc								
\sim 50 Hz	Inrush	VA	15	34	53				
	Sealed	VA	3.8	4.6	6.5				
Heat dissipation	50/60 Hz	w	1.3	1.6	2.1				
Operating time	Closing "C"	ms	10 30						
operating time	Opening "O"	ms	10 25						
Mechanical durability	In operating cycles		106						
Maximum operating rate at ambient temperature ≤ 50 °C	In operating cycles per hour		300						
Maximum cabling c.s.a.									
Flexible cable without cable end	1 or 2 conductors	mm²	2.5						
Flexible cable with cable end	1 conductor	mm²	2.5						
	2 conductors	mm²	1.5						
Solid cable without cable end	1 or 2 conductors	mm²	1.5						
Tightening torque		N.m	0.8						
Instantaneous auxil	iary contact characte	ristics							
Rated operational voltage (Ue)	Up to	V	250						
Rated insulation voltage (Ui)	Conforming to IEC 60947-5	V	500						
	Conforming to VDE 0110	V	500						
Conventional thermal current (Ith)	For ambient θ ≤ 50 °C	A	5						
Mechanical durability	In operating cycles		10 ⁶						



Contactors

Maximum cabling c.s.a.

Tightening torque

Flexible or solid conductor

mm²

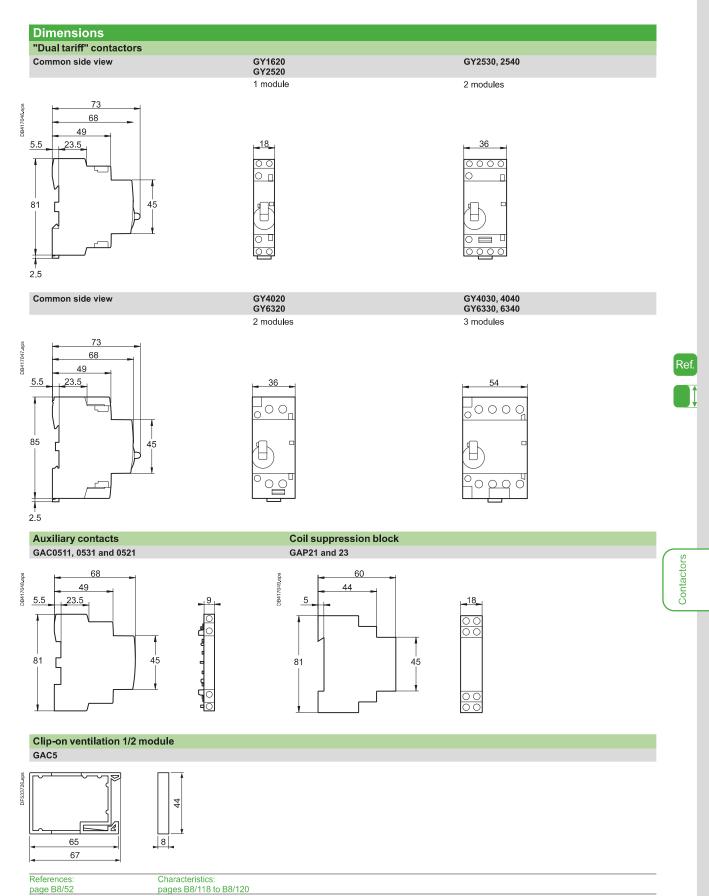
N.m

2.5

0.8

Modular "Dual tariff" contactors

Dimensions



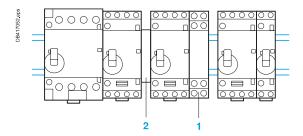
Modular "Dual tariff" contactors

Mounting and schemes

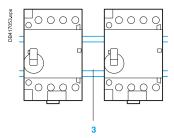
Mounting

Setting-up precautions

The contactor controls must be bounce free. If not, connect a coil suppression block 1 (GAP 21 or 23) across the coil terminals ≤ 250 V. When several contactors which operate at the same time are mounted side by side, a GAC5 ventilation 1/2 module 2 must be fitted every 2 contactors.

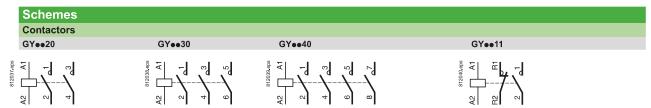


It is advisable to mount electronic units at the bottom of the modular panel and to separate them from electromechanical units by a space equal to one module 3 or by 2 ventilation 1/2 modules GAC5.











Auxiliary contacts		
GAC0521	GAC0531	GAC0511
22 21 NC	812042 APS 14 13/NO 24 23/NO	812046.pps 14/NO 13/NO

ontactors

TeSys Control Modular Impulse relay

Characteristics



Modular impulse relays are designed for use in modular enclosures.

They feature:

■ Easy installation:

- □ quick clip-on fixing and locking onto 35 mm omega rail
- □ easy connection by means of ready-to-tighten captive, pozidrive screw terminals.

■ Compact size

Units have a common depth of 60 mm and width of 18 mm.

■ User safety:

- □ live parts protected against direct finger contact
- □ completely safe operation
- □ state indication on front panel.

Standards

This range of modular impulse relays has been designed taking into account the requirements of international standard IEC 60669-2.

This standard is specific to "Impulse relays".

Conformity with this standard makes it possible to obtain the following quality labels without the need for additional tests: NF-USE, VDE, CEBEC, etc.

Functions

Modular impulse relays are designed for opening and closing of circuits which are remotely controlled by impulses. The position is mechanically maintained. These impulse relays are used in lighting circuits when there are more than two switching points.

Power switching

Modular impulse relays have multiple applications in industrial, agricultural and commercial premises, hospitals and the home, i.e. wherever switching of a specific lighting supply is required.





TeSys Control Modular Impulse relay

Characteristics

Environment						
Rated insulation voltage (Ui)	Conforming to IEC 60947-1-5	V	400			
	Conforming to VDE 0110	٧	400			
Rated impulse withstand voltage (Uimp)		kV	4 in enclosure			
Conforming to standards			IEC 60669-1 and 60669-2			
Product certifications			NF-USE, CEBEC, ASE, KEMA, N, S, D, FI, VDE			
Degree of protection	Conforming to IEC 60529		Protection against direct finger contact IP 20 open, IP 4	10 in enclosure		
Ambient air temperature around the device	Storage	°C	-40+80			
	Operation	°C	-20+50			
Maximum operating altitude	Without derating	m	2000			
Operating positions	Without derating		±90° in relation to normal vertical mounting plane			
Shock resistance 1/2 sine wave = 10 ms	Impulse relay open		Please consult your Regional Sales Office			
Conforming to Impulse relay closed IEC/EN 60068-2-27			Please consult your Regional Sales Office			
/ibration resistance 5300 Hz	Impulse relay open		4 gn			
Conforming to EC/EN 60068-2-6	Impulse relay closed		4 gn			
Pole characteristics						
Number of poles			1 or 2			
Rated operational current (Ie) (Ue ≤ 250 V)	In AC-7a (heating)	Α	16			
Rated operational voltage		٧	250			
Conventional thermal current (Ith)	θ ≤ 50 °C	Α	16			
Permissible short time rating no current flowing for preceding	For 1 s	Α	320			
5 minutes with θ ≤ 40 °C	For 10 s	Α	96			
	For 30 s	Α	48			
Short-circuit protection by fuse or circuit breaker	gl fuse	Α	16			
	Circuit breaker I ² t (at 3 kA rms prospective)	A²s	5000			
Average impedance per pole	At Ith and 50 Hz	mΩ	4			
Power dissipated per pole		w	1			
Maximum			Min, Max.			

15 minutes w	ith θ ≤ 40 °C	For 10 s	Α	96	
		For 30 s	Α	48	
Short-circuit by fuse or circ		gl fuse	Α	16	
•		Circuit breaker I²t (at 3 kA rms prospective)	A²s	5000	
Average imp	edance per pole	At Ith and 50 Hz	mΩ	4	
Power dissip	ated per pole		w	1	
Maximum				Min.	Max.
cabling c.s.a.	Flexible cable without cable end	1 conductor	mm²	0.5	6
		2 conductors	mm²	0.5	4
	Flexible cable with cable end	1 conductor	mm²	0.5	6
		2 conductors	mm²	0.5	4
	Solid cable without cable end	1 conductor	mm²	0.5	6
		2 conductors	mm²	0.5	4
Tightening to	rque	Power circuit connections	N.m	0.8	ı

	: 2 b /1.1.3			10 04074 0 11 11 11 11 12 13 13 13 13 13 13 13 13 13 13 13 13 13
Rated control circuit voltage (Uc)		V	12240 V, for other voltages, please consult your Regional Sales Office	
Control voltag (θ < 50 °C)	e limits	Operating threshold, dual frequency 50/60 Hz	V	0.851.1 Uc
Average cons at 20 °C and a	umption t Uc	Inrush at 50 Hz	VA	19
Operating time)	Closing "C"	ms	70
		Opening "O"	ms	70
Minimum impu	ulse time		ms	70
Mechanical durability			10 ⁶ operating cycles	
Electrical dura	bility			
		AC-21		200000 operating cycles
		AC-22		100000 operating cycles
Maximum ope	rating rate	Operating cycles per hour		900
Maximum cabling c.s.a.				
casing oldia.	Flexible cable without cable end	1 or 2 conductors	mm²	2.5
	Flexible cable with cable end	1 conductor	mm²	2.5
		2 conductors	mm²	1.5
	Solid cable without cable end	1 or 2 conductors	mm²	1.5
Tightening tor	que		N.m	0.8

TeSys Control Modular Impulse relay

Characteristics

Modular Impulse relay

Characteristics in lighting and heating applications

Lighting circuits									
Fluorescent lamps with starter									
Single fitting	Non corr	rected		With par	allel correc	tion			
Power in W	18	36	58	18	36	58			
Number of lamps	70	35	21	50	25	16			

Twin fitting	With se	eries corre	ction		
Power in W	2 x 18	2 x 36	2 x 58		
Number of lamps	56	28	17		

Incandescent lamps: filament lamps								
Power in W	40	60	75	100	200			
Number of lamps	40	25	20	16	8			

Incandescent lamps: halogen lamps							
Power in W	300	500	1000	1500			
Number of lamps	5	3	1	1			

Incandescent lamps: very low voltage halogen lamps							
Power in W	20	50	75	100			
Number of lamps	70	28	19	4			

Low pressure sodium vapour lamps								
Non corrected								
Power in W	55	90	135	180				
Number of lamps	24	15	10	7				

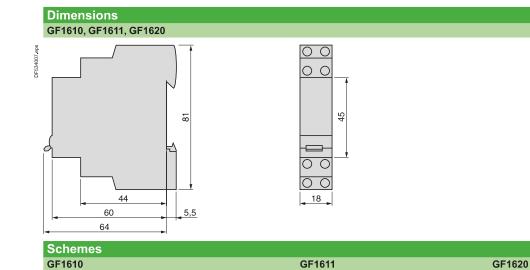
High pressure sodium vapour lamps								
	Non c							
Power in W	250	400	1000					
Number of lamps	5	3	1					

Heating cir	cuits		
Single-phase 2	230 V, 2-pole		
Power in kW	3.6		



Modular Impulse relay

Dimensions and schemes



DF534008.eps









Characteristics: pages B8/123 to B8/126

Contactors

Test conditions according to IEC utilization categories

Contactor characteristics are established following tests and utilization categories whose are conforming IEC 60947-4-1 and 5-1 standards.

Contactors													
a.c. supply	Electrical durability: making and breaking conditions						Occasional duty: making and breaking conditions						
Typical	Utilisation	Makin	a		Breaking			Making			Breaking		
applications	category	I	a U	cos φ	I	U	cosφ	I	์ บ	cos φ	I	U	cos φ
Resistors, non inductive or slightly inductive loads	AC-1	le	Ue	0.95	le	Ue	0.95	1.5 le	1.05 Ue	0.8	1.5 le	1.05 Ue	0.8
Motors													
Slip ring motors: starting, breaking.	AC-2	2.5 le	Ue	0.65	2.5 le	Ue	0.65	4 le	1.05 Ue	0.65	4 le	1.05 Ue	0.65
Squirrel cage motors: starting, breaking whilst motor running.	AC-3												
	le ≤ (1)	6 le	Ue	0.65	1 le	0.17 Ue	0.65	10 le	1.05 Ue	0.45	8 le	1.05 Ue	0.45
	le > (2)	6 le	Ue	0.35	1 le	0.17 Ue	0.35	10 le	1.05 Ue	0.35	8 le	1.05 Ue	0.35
Squirrel cage motors: starting, breaking whilst motor running.	AC-3e												
	le ≤ (1)	6 le	Ue	0.65	1 le	0.17Ue	0.65	13 le	1.05 Ue	0.45 (4)	8.5 le	1.05 Ue	0.45 (4)
	le > (2)	6 le	Ue	0.35	1 le	0.17Ue	0.35	13 le	1.05 Ue	0.35 (5)	8.5 le	1.05 Ue	0.35 (5)
Squirrel cage motors:	AC-4												
starting, reversing, inching	le ≤ (1)	6 le	Ue	0.65	6 le	Ue	0.65	12 le	1.05 Ue	0.45	10 le	1.05 Ue	0.45
	le > (2)	6 le	Ue	0.35	6 le	Ue	0.35	12 le	1.05 Ue	0.35	10 le	1.05 Ue	0.35
d.c. supply													
Typical applications	Utilisation category	Makin	g U	L/R (ms)	Break I	ing U	L/R (ms)	Making	l U	L/R (ms)	Breaki I	ng U	L/R (ms)
Resistors, non inductive or slightly inductive loads	DC-1	le	Ue	1	le	Ue	1	1.5 le	1.05 Ue	1	1.5 le	1.05 Ue	1
Shunt wound motors: starting, reversing, inching	DC-3	2.5 le	Ue	2	2.5 le	Ue	2	4 le	1.05 Ue	2.5	4 le	1.05 Ue	2.5
Series wound motors: starting, reversing, inching	DC-5	2.5 le	Ue	7.5	2.5 le	Ue	7.5	4 le	1.05 Ue	15	4 le	1.05 Ue	15
Control relays and	d auxiliary	cont	acts										
Control relays an	d auxiliary	Electr	ical dura	•	nditio	ns			ional du g and br	•	ndition	าร	
	d auxiliary	Electr	ical dura	ibility: eaking co	onditio	ns				ty: eaking co	nditior	าร	
Control relays and a.c. supply Typical	d auxiliary Utilisation	Electr	ical dura g and br	•	onditio Break				g and br	•	nditior Breaki		
a.c. supply	·	Electr makin	ical dura g and br	•			cos φ	makin	g and br	•			cos φ
a.c. supply Typical applications	Utilisation	Electr makin Makin	ical dura g and br g	eaking co	Break	ing	cos φ	makin	g and br	eaking co	Breaki	ng	cos φ
a.c. supply Typical applications Electromagnets	Utilisation	Electr makin Makin	ical dura g and br g	eaking co	Break	ing	cos φ	makin	g and br	eaking co	Breaki	ng	cos φ
a.c. supply Typical applications Electromagnets ≤ 72 VA	Utilisation category	Electr makin Makin	ical dura g and br g U	eaking co	Break I	ing U		making Making I	g and br	eaking co	Breaki I	ng U	
a.c. supply Typical applications Electromagnets ≤ 72 VA	Utilisation category	Electr makin Makin I	ical dura g and br g U	cos φ	Break I	ing U	-	Making I 6 le	g and br U 1.1 Ue	cos φ	Breaki I 6 le	ng U 1.1 Ue	0.7
a.c. supply Typical applications Electromagnets ≤ 72 VA > 72 VA	Utilisation category	Electr makin Makin I	ical dura g and br g U - Ue	cos φ	Break I	ing U	-	Making I 6 le	g and br U 1.1 Ue 1.1 Ue	cos φ	Breaki I 6 le	1.1 Ue	0.7

⁽¹⁾ le < 17 A for electrical durability, le < 100 A for occasional duty.

(2) le > 17 A for electrical durability, le > 100 A for occasional duty.

(3) The value 6 P (in watts) is based on practical observations and is considered to represent the majority of d.c. magnetic loads up to the maximum limit of P = 50 Wi.e. 6 P = 300 ms = L/R.

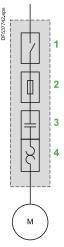
Above this, the loads are made up of smaller loads in parallel. The value 300 ms is therefore a maximum limit whatever the value of current drawn.

(4) le ≤ 100A

(5) le > 100A

TeSys Control Contactors

North American market - UL CSA classification of motor starter applications



- 1 Motor Disconnect (Disconnect switch)
- 2 Motor Branch Circuit Protection (Short-circuit protection)
- 3 Motor Controller (Contactor)
- 4 Motor Overload Protection (Thermal overload relay)

Starters for the North American market

In recent years, the North American market has started to harmonise UL, CSA and ANCE standards, as well as the industrial installation codes provided by national regulations (NEC for the United States, CEC for Canada and MEC for Mexico). (1) Major improvements, carried out by the Canena (2) are aimed at harmonising product requirements based on IEC (3) standards.

However, the North American codes use specific terminology for defining the functions of a starter.

These functions can be fulfilled by standard IEC products, accompanied by appropriate certifications.

Combination Starters

Combination Starters are the most common type of packaged motor starter. They are called "Combination" because of their structure and their combined functions. The figure opposite shows the four combined functions that constitute a complete motor starter circuit, defined as a "Motor branch circuit" by the NEC (US National Electric Code) in article 430. Standard UL508 currently gives different types of combination starter that meet the requirements of a "Motor branch circuit".

Type E, called "self-protected combination starter", covers all these functions and can be controlled manually (thermal-magnetic circuit breaker) or remotely (starter-controller). Type E starters withstand faults within their declared nominal rating without sustaining damage, after which they can be put back into service. In addition, they can withstand more severe short-circuit and durability performance tests without welding or excessive wear of the contact tips.

Type F, called "Combination motor starter", consists of a type E manual starter (thermal-magnetic circuit breaker) combined with a contactor. These starters are evaluated by means of basic short-circuit tests, but are not considered as "self-protected".

For this combination, the type E starter must be marked "Combination Motor Controller when used with ...", followed by the reference of the load side contactor.

- (1) UL: Underwriters Laboratories, CSA: Canadian Standards Association, ACNE: Association of Standardization and Certification, NEC: National Electric Code, CEC: Canadian Electrical Code, MEC: Mexican Electrical Code.
- (2) Canena: Council for Harmonization of Electrotechnical Standardization of North America.
- (3) IEC: International Electrotechnical Commission.

Contactors

North American market - UL CSA classification of motor starter applications

Control panels

To help users properly coordinate their motor control equipment with their distribution system in the event of a fault, article 409 of the 2005 NEC requires panel builders to list the short-circuit withstand rating of their motor control panels. According to standard UL508A, manufacturers must use the short-circuit withstand value of the lowest rated device as the nominal withstand rating of the panel, unless the devices have been tested together for a higher coordinated rating. The minimum "short-circuit current rating" (SCCR), on motor control components for horsepower ratings of 50 hp or below is 5000 A.

Using a type E or type F combination starter eliminates the coordination problems of using individual components for the "motor branch circuit protection", "motor controller" and "motor overload protection" functions.

The panel builder uses the declared short-circuit current rating for the combination starter. This value is generally higher than 5000 A.

This makes it easier to list the short-circuit current ratings and to check the compatibility of a UL508A motor control panel within a given distribution system.

Group protection

Article 430.53 of the NEC allows a single short-circuit protection device to be used for more than one motor circuit if the components used are marked and listed for such use.

Components suitable for use in group protection, known as "motor group installations", can be marked in one of the following two ways:

Case n° 1

The contactor and the motor overload relay are both listed as suitable for group installation.

An inverse time circuit breaker can be used as the short-circuit protection device if it is also listed as suitable for group installation.

The panel builder must therefore make sure that the short-circuit protection device selected (fuses or inverse time circuit breaker) does not exceed the value allowed by article 430.40 for the smallest overload relay used in the circuit.

Once these conditions have been met, the panel builder can reduce the size of the conductor connecting the short-circuit protection device to the individual motor contactor/overload relay, to one third of the size of the upstream circuit conductor supplying the protection device.

The panel builder must limit the length of the motor starter conductor (connecting the short-circuit protection device to the motor contactor/overload relay) to a maximum of 7.6 m (25 feet).

Case n° 2

The motor contactor and overload relay are listed as suitable for "tap conductor protection" in group installations.

This category allows the panel designer to reduce the size of the conductor connecting the short-circuit protection device to the individual motor contactor/overload relay, to one tenth of the size of the upstream circuit conductor supplying the protection device.

The designer must limit the length of this conductor to a maximum of 3.05 m

In both cases, the supply circuits must not be less than 125 % of the connected motor FLA (Full Load Amps) rating.

For panel builders, using type F combination starters in group installations simplifies group motor considerations.

Each starter is a fully coordinated motor branch circuit.

The panel builder follows the same NEC requirements for sizing the supply conductors as those required for single motor branch circuits.

The size of the supply conductors can be reduced in accordance with the specifications of article 430.28.

This allows the same flexibility in conductor sizing as that offered in article 430.53 (D), without a requirement to check the short-circuit protection rating marked on the components and the overload relay limit.

A UL508A panel does not need a short-circuit protection device when each motor starter installed is a type F.

The upstream short-circuit protection device supplying the starter protects the panel. The panel builder only has to consider the panel/enclosure disconnect requirements specified by the NEC or local codes.