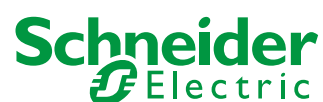


TeSys Control

SK, K, SKGC, Deca, Modular and other Contactors



Life Is On



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	 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 S207 series contactors for railways applications. Click on image to download.	 TeSys S335 series contactors for electrodomestic application. Click on image to download.	
TeSys Deca contactors		
AC-3, AC-1, UL CSA applications- TeSys Deca green contactors (with AC/DC compatible coil)	From 9 to 80 A	B8/16
AC-3 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
Auxiliary contact blocks – accessories – spare coils for TeSys Deca		B8/36
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	 B8/53
Auxiliary contact blocks - accessories		B8/54

Contactors

TeSys Control

SK Contactors

Product references

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

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



LC1SK0600●●

Mini-contactors for motor in category AC-3

Standard power ratings of 3-phase motors 50/60 Hz in category AC-3 ⁽¹⁾			Rated operational voltage in AC-3 up to 400 V	Number of poles	Instantaneous auxiliary contacts	Basic reference. Complete with code indicating control circuit voltage ⁽²⁾⁽³⁾
220 V	380 V	660 V	—	2	—	LC1SK0600●●
230 V	415 V	690 V				
kW	kW	kW	A			
1.1	2.2	2.2	6	2	—	—

Mini-contactors for motor in category AC-1

Non inductive loads maximum current ($\theta \leq 55^\circ\text{C}$) utilisation category AC-1	Control circuit supply	Number of poles	Instantaneous auxiliary contacts	Basic reference. Complete with code indicating control circuit voltage ⁽²⁾⁽³⁾
A	a.c.	2	—	LC1SK0600●●
	d.c.	2	—	LP1SK0600●●

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

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

Mini-contactors LC1SK

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

Mini-contactors LP1SK

Volts —	12	24	36	48	72
Code	JD	BD	CD	ED	SD

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

Add-on power pole (for 3-phase circuits) with aux. contact

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

Instantaneous auxiliary contact blocks

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

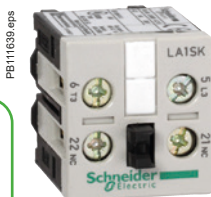
Coil suppressor modules

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

For use on contactors	Type	For voltages	Sold in lots of	Unit reference
LC1SK0600●●	Varistor ⁽¹⁾	~ and — 24 V...48 V	10	LA4SKE1E
LP1SK0600●●, LC1SKGC	Diode ⁽²⁾	~ and — 110 V...250 V	10	LA4SKE1U
		— 24 V...250 V	10	LA4SKC1U

(1) Protection provided by limiting the transient voltage to 2 Uc max. Maximum reduction of transient voltage peaks. Slight increase in drop-out time (1.1 to 1.5 times the normal time).

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



LA1SK01



LA4SK●1●

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

Mini-contactors, width 27 mm

Standard power ratings of 3-phase motors 50/60 Hz in category AC-3			Rated operational current in AC-3 up to 400 V	Non inductive loads category AC-1 maximum current $\theta \leq 50^\circ\text{C}$	No. of poles			Basic reference, to be completed by adding the voltage code ⁽¹⁾⁽²⁾
220 V	380 V	660 V			1	2	3	
230 V	415 V	690 V						
kW	kW	kW	A	A				
-	-	-	5	20	2	-	-	LC1SKGC200●●



LC1SKGC300

Mini-contactors, width 45 mm

Standard power ratings of 3-phase motors 50/60 Hz in category AC-3			Rated operational current in AC-3 up to 400 V	Non inductive loads category AC-1 maximum current $\theta \leq 50^\circ\text{C}$	No. of poles			Basic reference, to be completed by adding the voltage code ⁽¹⁾⁽²⁾
220 V	380 V	660 V			1	2	3	
230 V	415 V	690 V						
kW	kW	kW	A	A				
1.1	4	4	9	20	3	1	-	LC1SKGC310●●
					3	-	1	LC1SKGC301●●

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

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

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



Contactors

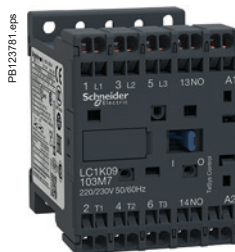
TeSys Control

K Contactors

Product references



LC1K0910●●



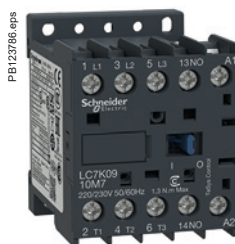
LC1K09103●●



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

Standard power ratings of 3-phase motors 50-60 Hz in category AC-3			Rated operational current in category AC-3 440 V up to	Instantaneous auxiliary contacts 	Basic reference, to be completed by adding the voltage code (1) (2)
220 V 230 V	380 V 415 V	440/500 V 660/690 V			
kW	kW	kW	A		
Screw clamp connections					
1.5	2.2	3	6	1 -	LC1K0610●●
				- 1	LC1K0601●●
2.2	4	4	9	1 -	LC1K0910●●
				- 1	LC1K0901●●
3	5.5	4 (> 440) 5.5 (440)	12	1 -	LC1K1210●●
				- 1	LC1K1201●●
4	7.5	4 (> 440) 5.5 (440)	16	1 -	LC1K1610●●
				- 1	LC1K1601●●

Spring terminal connections (3)

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

Faston connectors, 1 x 6.35 or 2 x 2.8

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

Solder pins for printed circuit boards

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

3-pole silent contactors

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

Screw clamp connections

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

Faston connectors, 1 x 6.35 or 2 x 2.8

In the references selected above, insert a figure 7 before the voltage code.
Example: LC7K0610●● becomes LC7K06107●●.

Solder pins for printed circuit boards

In the references selected above, insert a figure 5 before the voltage code.
Example: LC7K0610●● becomes LC7K06105●●.

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

Coil voltage codes - a.c. (4)

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

Volts	12	20	24 (1)	36	42	48	110	115	120	127	200/208	220/230	230	230/240
50 Hz (5)			B5		D5	E5							P5	
50/60 Hz	J7	Z7	B7	C7	D7	E7	F7	FE7	G7	FC7	L7	M7	P7	U7
Volts	256	277	380/400	400	400/415	440	480	500	575	600	660/690			
50/60 Hz	W7	UE7	Q7	-	V7	N7	R7	T7	S7	SC7	X7	Y7	-	-

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

Contactors LC7K (0.85...1.1 Uc)

Volts	24	42	48	110	115	220	230/240
50/60 Hz	B7	D7	E7	F7	FE7	M7	U7

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

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

(3) For LC●K●●●●3 / LP●K●●●●3 with spring terminal, lth max = 10 A.

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

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

TeSys Control

K Contactors

Product references



LP1K0910●●



LP1K09103●●



LP1K09105●●



LP4K0910●●

Contactors selection according to utilisation category, see pages A5/34 to A5/39 and A5/42 to A5/45.
Mounting on 35 mm rail or Ø4 screw fixing.
Screws in the open "ready-to-tighten" position.

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

3-pole contactors - Motor control 6 to 12 A in categories AC-3 AC-4 - d.c. coil

Standard power ratings of 3-phase motors 50-60 Hz in category AC-3			Rated operational current in category AC-3 440 V up to	Instantaneous auxiliary contacts	Basic reference, to be completed by adding the voltage code (1) (2)
220 V	380 V	440/500 V			
230 V	415 V	660/690 V			
kW	kW	kW	A		
Screw clamp connections					
1.5	2.2	3	6	1 -	LP1K0610●●
				- 1	LP1K0601●●
2.2	4	4	9	1 -	LP1K0910●●
				- 1	LP1K0901●●
3	5.5	4 (> 440)	12	1 -	LP1K1210●●
		5.5 (440)		- 1	LP1K1201●●

Spring terminal connections (3)

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

Example: LP1K0610●● becomes LP1K06103●●.

Faston connectors, 1 x 6.35 or 2 x 2.8

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

Example: LP1K0610●● becomes LP1K06107●●.

Solder pins for printed circuit boards

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

Example: LP1K0610●● becomes LP1K06105●●.

3-pole low consumption contactors

Compatible with programmable controller outputs.

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

Screw clamp connections

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●●

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)																	
Volts	12	20	24 (1)	36	48	60	72	100	110	125	155	174	200	220	230	240	250
Code	JD	ZD	BD	CD	ED	ND	SD	KD	FD	GD	PD	QD	LD	MD	MPD	MUD	UD

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

Low consumption (contactors 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.

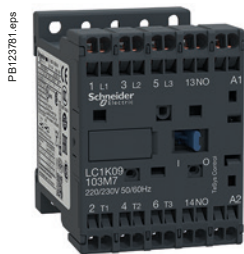
(1) For LP1K only, when connecting an electronic sensor or timer in series with the contactor coil, select a 20 V coil (~ control circuit voltage code Z7, --- control circuit voltage code ZD) so as to compensate for the incurred voltage drop.

(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, I_{th} max = 10 A.



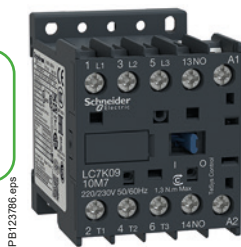
LC1K09004●●



LC1K09103●●



LC1K09107●●



LC7K0910●●

Contactor selection according to utilisation category, see pages A5/40 and A5/41.
 Mounting on 35 mm rail or Ø4 screw fixing.
 Screws in the open "ready-to-tighten" position.
 Add-on auxiliary contact blocks and accessories, see pages B8/13 to B8/15.

3 or 4-pole contactors - Load control up to 20 A in category AC-1 - a.c. coil ⁽¹⁾

Non-inductive loads Category AC-1 Maximum current at $\theta \leq 50^\circ\text{C}$	Number of poles	Instantaneous auxiliary contacts	Basic reference, to be completed by adding the voltage code ⁽²⁾⁽³⁾

Screw clamp connections					
20	3	-	1	-	LC1K0910●● or LC1K1210●●
	3	-	-	1	LC1K0901●● or LC1K1201●●
	4	-	-	-	LC1K09004●● or LC1K12004●●
	2	2	-	-	LC1K09008●●

Spring terminal connections ⁽⁴⁾

In the references selected above, insert a figure 3 before the voltage code.
 Example: LC1K0910●● becomes LC1K09103●●.

Faston connectors, 1 x 6.35 or 2 x 2.8

In the references selected above, insert a figure 7 before the voltage code.
 Example: LC1K0910●● becomes LC1K09107●●.

Solder pins for printed circuit boards

In the references selected above, insert a figure 5 before the voltage code.
 Example: LC1K0910●● becomes LC1K09105●●.

3 or 4-pole silent contactors ⁽¹⁾

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

Screw clamp connections

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 A5/40.

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

Coil voltage codes - a.c. ⁽⁵⁾

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

Volts	12	20	24 ⁽²⁾	36	42	48	48	110	115	120	127	200/208	220/230	230	230/240
50 Hz ⁽⁶⁾			B5		D5	E5								P5	
50/60 Hz	J7	Z7	B7	C7	D7	E7	F7	FE7	G7	FC7	L7		M7	P7	U7
Volts	256	277	380/400		400	400/415	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, I_{th} max = 10 A.

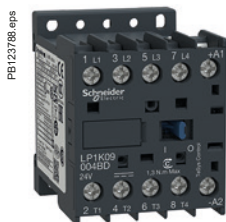
⁽⁵⁾ (0.8...1.15 Uc) for single voltage coil; (0.85...1.1 Uc) for dual voltage coil, exemple 200/208 V AC.

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

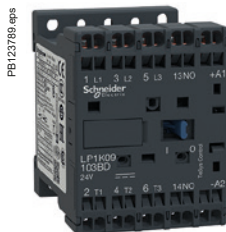
TeSys Control K Contactors

Product references

Contactor selection according to utilisation category, see pages A5/40 and A5/41.
Mounting on 35 mm rail or Ø4 screw fixing.
Screws in the open "ready-to-tighten" position.
Add-on auxiliary contact blocks and accessories, see pages B8/13 to B8/15.



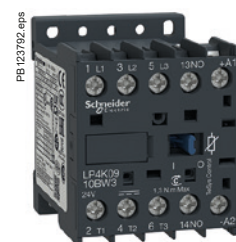
LP1K09004●●



LP1K09103●●





LP1K09105●●



LP4K0910●●●

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

Non-inductive loads Category AC-1 Maximum current at $\theta \leq 50^\circ\text{C}$	Number of poles 	Instantaneous auxiliary contacts 	Basic reference, to be completed by adding the voltage code ⁽²⁾⁽³⁾		
A					
Screw clamp connections					
20	3	–	1	–	LP1K0910●● or LP1K1210●●
	3	–	–	1	LP1K0901●● or LP1K1201●●
	4	–	–	–	LP1K09004●● or LP1K12004●●
	2	2	–	–	LP1K09008●●

Spring terminal connections ⁽⁴⁾

In the references selected above, insert a figure 3 before the voltage code.
Example: LP1K0910●● becomes LP1K09103●●.

Faston connectors, 1 x 6.35 or 2 x 2.8

In the references selected above, insert a figure 7 before the voltage code.
Example: LP1K0910●● becomes LP1K09107●●.

Solder pins for printed circuit boards

In the references selected above, insert a figure 5 before the voltage code.
Example: LP1K0910●● becomes LP1K09105●●.

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

Compatible with programmable controller outputs.
Wide range coil (0.7...1.30 Uc), suppressor fitted as standard, consumption 1.8 W.

Screw clamp connections

20	3	–	1	–	LP4K0910●●● or LP4K1210●●●
	3	–	–	1	LP4K0901●●● or LP4K1201●●●
	4	–	–	–	LP4K09004●●● or LP4K12004●●●
	2	2	–	–	LP4K09008●●●

Spring terminal connections

In the references selected above, insert a figure 3 before the voltage code.
Example: LP4K0910●● becomes LP4K09103●●.

Faston connectors, 1 x 6.35 or 2 x 2.8

In the references selected above, insert a figure 7 before the voltage code.
Example: LP4K0910●● becomes LP4K09107●●.

Solder pins for printed circuit boards

In the references selected above, insert a figure 5 before the voltage code.
Example: LP4K0910●● becomes LP4K09105●●.

⁽¹⁾ Coordination tables between 9 and 12 A ratings according to number of operating cycles, see AC-1 curve on page A5/40.

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

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

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

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

Coil voltage codes - low consumption d.c. (contactors LP4K: 0.7...1.3 Uc)

Volts $\overline{\text{---}}$	12	20	24	48	72	110	120
Code	JW3	ZW3	BW3	EW3	SW3	FW3	GW3

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

- ⁽²⁾ For LP1K only, when connecting an electronic sensor or timer in series with the contactor coil, select a 20 V coil (~ control circuit voltage code Z7, $\overline{\text{---}}$ 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, lth max = 10 A.

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

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

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

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

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

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

Standard power ratings of 3-phase motors 50/60 Hz in category AC-3			Rated operational current in category AC-3 440 V up to	Instantaneous auxiliary contacts per contactor	Basic reference, to be completed by adding the voltage code ⁽¹⁾⁽²⁾
220 V	380 V	440/500 V			
230 V	415 V	660/690 V			

kW	kW	kW	A		
1.5	2.2	3	6	1 -	LC2K0610●●

				- 1	LC2K0601●●
2.2	4	4	9	1 -	LC2K0910●●
				- 1	LC2K0901●●

3	5.5	4 (> 440)	12	1 -	LC2K1210●●
		5.5 (440)		- 1	LC2K1201●●

4	7.5	4 (> 440)	16	1 -	LC2K1610●●
		5.5 (440)		- 1	LC2K1601●●

				- 1	LC2K1601●●
--	--	--	--	-----	------------

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: 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	200/208	220/230	230	230/240
50/60 Hz	J7	Z7	B7	C7	D7	E7	F7	FE7	G7	FC7	L7	M7	P7	U7
Volts	256	277	380/400	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.

⁽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, I_{th} max = 10 A.

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

PE123764.tif



LC2K0910●●

PE123765.eps



LC2K09105●●



Reversing contactor selection according to utilisation category, see pages A5/34 to A5/39 and A5/42 to A5/45.
Integral mechanical interlock.
It is essential to link the contacts of the electrical interlock.
Pre-wired power circuit connections as standard on screw clamp versions.
Mounting on 35 mm rail or Ø4 screw fixing.
Screws in the open "ready-to-tighten" position.
Add-on auxiliary contact blocks and accessories, see pages B8/13 to B8/15.

3-pole reversing contactors - Motor control 6 to 12 A in categories AC-3 AC-4 - d.c. coil

Standard power ratings of 3-phase motors 50-60 Hz in category AC-3			Rated operational current in category AC-3 440 V up to	Instantaneous auxiliary contacts per contactor	Basic reference, to be completed by adding the voltage code ⁽¹⁾⁽²⁾
220 V	380 V	440/500 V			
kW	kW	kW	A		
230 V	415 V	660/690 V			
Screw clamp connections					
1.5	2.2	3	6	1 –	LP2K0610●●
				– 1	LP2K0601●●
2.2	4	4	9	1 –	LP2K0910●●
				– 1	LP2K0901●●
3	5.5	4 (> 440)	12	1 –	LP2K1210●●
		5.5 (440)		– 1	LP2K1201●●

Spring terminal connections⁽³⁾

In the references selected above, insert a figure 3 before the voltage code.
Example: LP2K0610●● becomes LP2K06103●●.

Faston connectors, 1 x 6.35 or 2 x 2.8

In the references selected above, insert a figure 7 before the voltage code.
Example: LC2K0610●● becomes LC2K06107●●.

Solder pins for printed circuit boards

For 6 to 16 A ratings, in the references selected above, insert a figure 5 before the voltage code.
Example: LC2K0610●● becomes LC2K06105●●.

3-pole low consumption reversing contactors

Compatible with programmable controller outputs.
Wide range coil (0.7...1.30 Uc), suppressor fitted as standard, consumption 1.8 W.

Screw clamp connections

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

Spring terminal connections

In the references selected above, insert a figure 3 before the voltage code.
Example: LP5K0610●● becomes LP5K06103●●.

Faston connectors, 1 x 6.35 or 2 x 2.8

In the references selected above, insert a figure 7 before the voltage code.
Example: LP5K0610●● becomes 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 (~ 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, lth max = 10 A.

PE123784.tif



LC2K0910●●

PE123785.eps



LC2K09105●●



Contactors

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

Reversing contactor selection according to utilisation category, see pages A5/40 and A5/41. Integral mechanical interlock.

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

Mounting on 35 mm rail or Ø4 screw fixing.

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

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

3 or 4-pole reversing contactors - Load control - 20 A in category AC-1 - a.c. coil ⁽¹⁾

Non-inductive loads Category AC-1 Maximum current at $\theta \leq 50^\circ\text{C}$	Number of poles	Instantaneous auxiliary contacts per contactor	Basic reference, to be completed by adding the voltage code ⁽²⁾⁽³⁾

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 A5/40.

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	Z7	B7	C7	D7	E7	F7	FE7	G7	FC7	L7	M7	P7	U7
Volts	256	277	380/400	400	400/415	440	480	500	575	600	660/690			
50/60 Hz	W7	UE7	Q7	V7	N7	R7	T7	S7	SC7	X7	Y7			

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

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

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

⁽⁴⁾ For LC●K●●●●3 / LP●K●●●●3 with spring terminal, I_{th} max = 10 A.

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

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

Reversing contactor selection according to utilisation category, see pages A5/40 and A5/41.
Integral mechanical interlock.



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

Mounting on 35 mm rail or Ø4 screw fixing.

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

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

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

Non-inductive loads Category AC-1 Maximum current at $\theta \leq 50^\circ\text{C}$	Number of poles	Instantaneous auxiliary contacts per contactor	Basic reference, to be completed by adding the voltage code ^{(2) (3)}		
					
A					
Screw clamp connections					
20	3	-	1	-	LP2K0910●● or LP2K1210●●
	3	-	-	1	LP2K0901●● or LP2K1201●●
	4	-	-	-	LP2K09004●● or 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 U_c), suppressor fitted as standard, consumption 1.8 W.

Screw clamp connections

20	3	-	1	-	LP5K0910●●● or LP5K1210●●●
	3	-	-	1	LP5K0901●●● or LP5K1201●●●
	4	-	-	-	LP5K09004●●● or LP5K12004●●●

Spring terminal connections

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

Example: LP5K0910●● becomes LP5K09103●●.

Faston connectors, 1 x 6.35 or 2 x 2.8

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

Example: LP5K0910●● becomes LP5K09107●●.

Solder pins for printed circuit boards

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

Example: LP5K0910●● becomes LP5K09105●●.

⁽¹⁾ Coordination tables between 9 and 12 A ratings according to number of operating cycles, see AC-1 curve on page A5/40.

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 U_c)

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

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

Coil voltage codes - low consumption d.c. (reversing contactors LP5K: 0.7...1.3 U_c)

Volts ∴	12	20	24	48	72	110	120
Code	JW3	ZW3	BW3	EW3	SW3	FW3	GW3

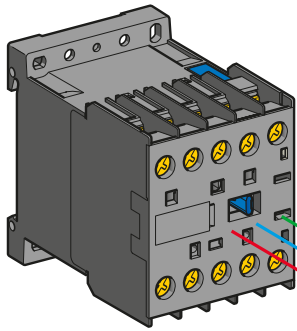
Coil with integral suppression device fitted as standard, by bi-directional peak limiting diode.

⁽²⁾ For LP2K only, when connecting an electronic sensor or timer in series with the contactor coil, select a 20 V coil (∴ control circuit voltage code Z7, ∴ control circuit voltage code ZD) so as to compensate for the incurred voltage drop.

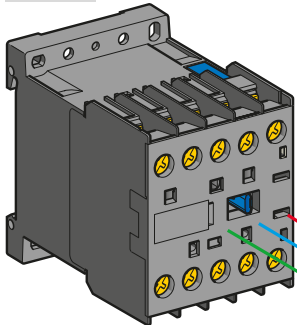
⁽³⁾ Please check the availability of your variant in the index page B8/55. The SEARCH function of your viewer can be used.

⁽⁴⁾ For LC●K●●●●3 / LP●K●●●●3 with spring terminal, I_{th} max = 10 A.

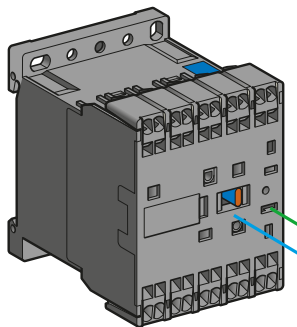
DB4394106 eps



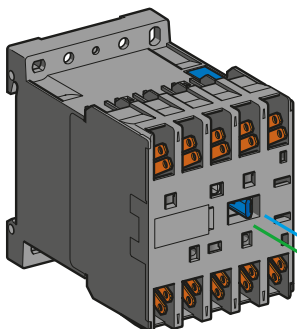
LC1, LC7, LP1 K



LC1, LC7, LP1 K



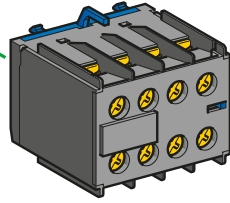
LC1, LP1 K



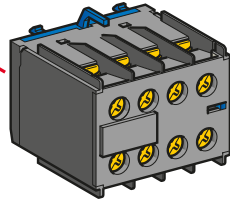
LC1, LC7, LP1 K



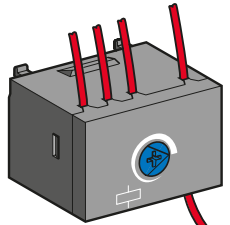
Contactor



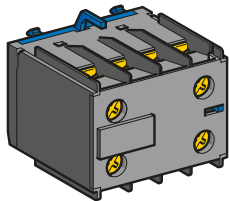
LA1 KN...M



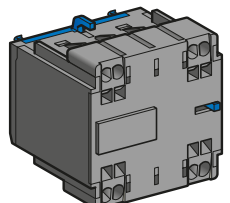
LA1 KN.../



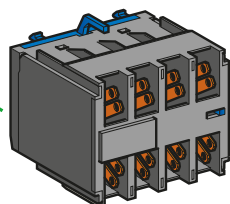
LA2 KT2.../



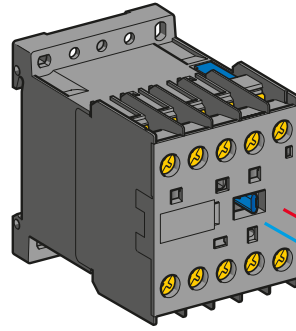
LA1 KN...P/



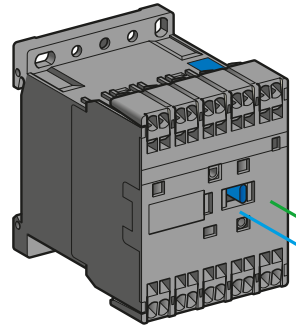
LA1 KN...3/



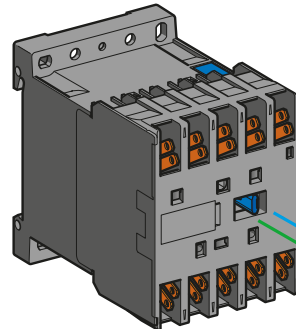
LA1 KN...7/



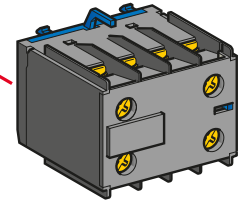
LP4



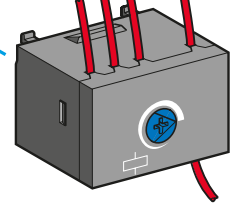
LP4



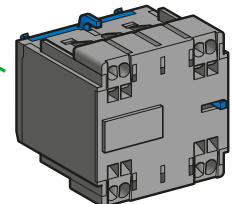
LP4



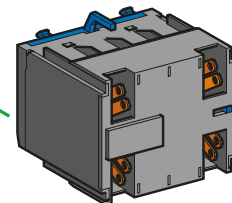
LA1 KN.../



LA2 KT2.../



LA1 KN...3/



LA1 KN...7/

TeSys Control

K Contactors - Auxiliary contacts blocks

Product references



LA1KN22



LA1KN223



LA1KN407

Instantaneous auxiliary contact blocks

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

Connection	For use on contactors	Composition	Reference
Screw clamp terminals	All products with screw clamp terminals	2 –	LA1KN20
		– 2	LA1KN02
		1 1	LA1KN11
		4 –	LA1KN40
	All products with screw clamp terminals except low consumption	3 1	LA1KN31
		2 2	LA1KN22
		1 3	LA1KN13
		– 4	LA1KN04
Spring terminals	All products with spring terminals	2 –	LA1KN203
		– 2	LA1KN023
		1 1	LA1KN113
		4 –	LA1KN403
	All products with spring terminals except low consumption	3 1	LA1KN313
		2 2	LA1KN223
		1 3	LA1KN133
		– 4	LA1KN043
Faston connectors, 1 x 6.35 or 2 x 2.8	All products with Faston connectors	2 –	LA1KN207
	All products with Faston connectors except low consumption	4 –	LA1KN407
		3 1	LA1KN317

With terminal referencing to standard EN 50012. Clip-on front mounting, 1 block per contactor

Screw clamp terminals with referencing	All 3-pole + N/O products with screw clamp terminals except LP4 and LP5K12	– 2	LA1KN02M
		1 1	LA1KN11M
conforming to standard EN 50012	All 3-pole + N/O products with screw clamp terminals except LP4 or LP5K06, K09 and K12	3 1	LA1KN31M
		2 2	LA1KN22M

Electronic time delay auxiliary contact blocks

Relay output with common point changeover contact, \sim or $\overline{\sim}$ 240 V, 2 A maximum.

Control voltage 0.85...1.1 U_c .

Maximum switching capacity 250 VA or 150 W.

Operating temperature -10...+60 °C.

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

Clip-on front mounting, 1 block per contactor

Voltage	Type	Timing range	Composition	Reference
\sim or $\overline{\sim}$	On-delay	1...30	1	LA2KT2E
24...48				
\sim 110...240	On-delay	1...30	1	LA2KT2U



TeSys Control

K Contactors - Suppressor modules

Product references



LA4K●●●

PB123798_R.eps

References

Mounting and connection	Type	For voltages	Sold in lots of	Unit reference
Clip-on fixing on the front of contactors LC1 and LP1, with locating device. No tools required.	Varistor ⁽¹⁾	~ and ≍ 12...24 V	5	LA4KE1B
		~ and ≍ 32...48 V	5	LA4KE1E
		~ and ≍ 50...129 V	5	LA4KE1FC
		~ and ≍ 130...250 V	5	LA4KE1UG
Diode + Zener diode ⁽²⁾		≍ 12...24 V	5	LA4KC1B
		≍ 32...48 V	5	LA4KC1E
	RC ⁽³⁾	~ 110...250 V	5	LA4KA1U

(1) Protection provided by limiting the transient voltage to 2 Uc max. Maximum reduction of transient voltage peaks. Slight increase in drop-out time (1.1 to 1.5 times the normal time).

(2) No overvoltage or oscillating frequency.

Polarised component.

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

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

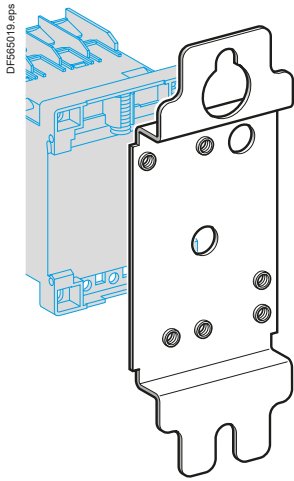
Slight increase in drop-out time (1.2 to 2 times the normal time).



TeSys Control

K Contactors - Accessories

Product references



DX1AP25



LA9E01

Mounting and marking accessories

Description	Application		Sold in lots of	Unit reference
Mounting plates ⁽¹⁾	For fixing on 2 U 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 0...9	25	AB1R● ⁽²⁾
		Strips of 10 identical letters A...Z	25	AB1G● ⁽²⁾

Connection 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

⁽¹⁾ Order 1 mounting plate for fixing a contactor and 2 mounting plates for fixing a reversing contactor.

⁽²⁾ Complete the reference by replacing the dot with the required character.



Contactors



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 green, enriching Deca family

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.

TeSys Control

Deca Contactors

Introduction



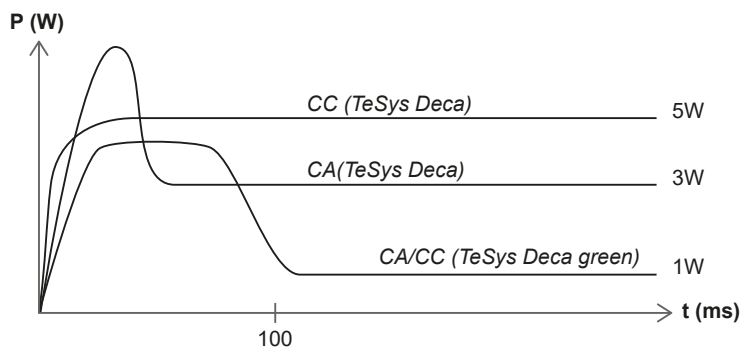
Highly competitive coil consumption

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

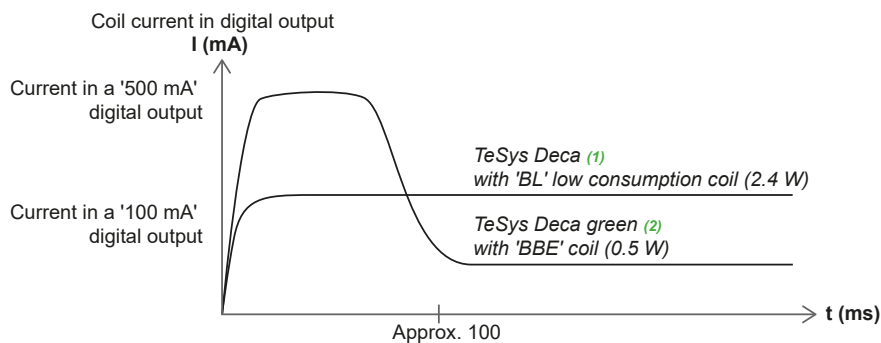
Coil currents comparison

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.

Contactors

TeSys Control

Deca green Contactors

Product references



LC1D09●●●



LC1D40A●●●

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

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

Standard power ratings of 3-phase motors 50-60 Hz in category AC-3 ($\theta \leq 60^\circ\text{C}$)						Rated operational current in AC-3 440 V up to	Instan- taneous auxiliary contacts	Basic reference, to be completed by adding the control voltage code ⁽¹⁾ Fixing ⁽²⁾	Weight
220 V 230 V	380 V 400 V	415 V	440 V	500 V	660 V 690 V				
kW	kW	kW	kW	kW	kW	A			kg

Connection by screw clamp terminals

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

Power connections by EverLink® BTR ⁽³⁾ screw connectors 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
18.5	30	37	37	37	37	65	1	1	LC1D65A●●●	1.002
22	37	37	37	37	37	66	1	1	LC1D80A●●●	1.002

Connection for lugs or bars

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

Example: LC1D40A●●● becomes LC1D40A6●●●

Auxiliary contact blocks and add-on modules

See pages B8/36 to B8/42.

Control voltage codes

AC/DC or 24 V DC supply

Volts	24 (DC only)	24-60	48-130	100-250
LC1D09 ... D38, LC1D40A ... D80A				
U 0.85...1.1 Uc		BNE	EHE	KUE
LC1D09 ... D38				
U 0.8 ... 1.2 Uc	BNE			
LC1D40A ... D80A				
U 0.8...1.2 Uc	BBE			

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

⁽²⁾ LC1D09 to D80A: clip-on mounting on 35 mm rail NSYSR 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).



PB121708.tif



LC1D09●●●

PB121710.tif



LC1D40●●●

PB121712.eps



LC1DT60●●●

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

3-pole contactors - Load control from 25 to 80 A - Category AC-1

Non inductive loads maximum current ($\theta \leq 60^\circ\text{C}$) utilisation category AC-1	Number of poles	Instantaneous auxiliary contacts		Partial reference, to be completed by adding the control voltage code ⁽¹⁾	Weight
				Fixing ⁽²⁾	
Connection by screw clamp terminals					kg
25	3	1	1	LC1D09●●● or LC1D12●●●	0.368 0.373
32	3	1	1	LC1D18●●●	0.378
40	3	1	1	LC1D25●●●	0.433
50	3	1	1	LC1D32●●● or LC1D38●●●	0.438 0.442
Connection by EverLink®, BTR screw connectors ⁽³⁾					
60	3	1	1	LC1D40A●●●	0.992
80	3	1	1	LC1D50A●●● or LC1D65A●●● ⁽⁴⁾ or LC1D80A●●● ⁽⁴⁾	0.997 1.002 1.002

Connection for lugs or bars

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

Example: LC1D40A●●● becomes LC1D40A6●●●

4-pole contactors

Connection by EverLink®, BTR ⁽³⁾ screw connectors

60	4	1	1	LC1DT60A●●●	1.230
80	4	1	1	LC1DT80A●●●	1.290

Connection for lugs or bars

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

Example: LC1DT60A●●● becomes LC1DT60A6●●●

4-pole changeover contactors

Connection by EverLink®, BTR ⁽³⁾ screw connectors

60	4	1	1	LC2DT60A●●●	2.460
80	4	1	1	LC2DT80A●●●	2.580

Control voltage codes

AC/DC 24 V DC supply

Volts	24 (DC only)	24-60	48-130	100-250
LC1D09...D80A and LC●DT60A...DT80A				
U 0.85 1.1 Uc		BNE	EHE	KUE
LC1D09 D38				
U 0.8 1.2 Uc	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 \perp 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.



PE121708.fr



LC1D09●●●

PE121710.fr



LC1D40A●●●



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

3-pole contactors conforming to UL and CSA standards (North American market) - 25 to 80 A

Standard power ratings of motors 50/60 Hz						Associated cable type 75 °C-Cu	Continuous current	Type of contactor required Partial reference, to be completed by adding the control voltage code ⁽¹⁾ Fixing, connection ⁽²⁾
Single-phase 1 Ø		3-phase 3 Ø						
115 V	230 V	200 V	230 V	460 V	575 V			
	240 V	208 V	240 V	480 V	600 V			
HP	HP	HP	HP	HP	HP		A	

Connection by screw clamp terminals

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●●●

Power connections by EverLink® BTR ⁽³⁾ screw connectors and control by spring terminals

3	5	10	10	30	30	AWG 16 - 2	60	LC1D40A●●●
3	7.5	15	15	40	40	AWG 16 - 2	70	LC1D50A●●●
5	10	20	20	40	50	AWG 16 - 2	80	LC1D65A●●●
5	10	20	20	40	50	AWG 16 - 2	80	LC1D80A●●●

Connection for lugs or bars

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

Example: LC1D40A●●● becomes LC1D40A6●●●

Applications with High-Fault Short-Circuit Current ratings

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

Control voltage codes

AC/DC 24 V DC supply

Volts	24 (DC only)	24-60	48-130	100-250
LC1D09 ... D32, LC1D40A ... D80A				
U 0.85 ... 1.1 Uc		BNE	EHE	KUE
LC1D09 ... D38				
U 0.8 ... 1.2 Uc		BNE		
LC1D40A ... D80A				
U 0.8...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 D80: clip-on mounting on 35 mm rail NSYS DR or screw fixing.

(3) BTR screws: hexagon socket head. In accordance with local electrical wiring regulations, a size 4 insulated Allen key must be used (reference LADALLEN4, see page B8/42).

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

Selection of PLC coordinated contactors

Laboratory tests have been carried out in order to validate trouble free contactor closings and openings with different PLC output modules. The coil must be defined according to the contactor rating range and output module. See selection table below.

The PLC your are using				>>>	Compatible contactors ⁽¹⁾	Coil code
PLC type	Output type	Output I (A)	Output module commercial reference			
M221 / M241 / M251	Static output: 24 V DC	0.5	TM3DQ8●●● and Q16●●● (T, TG, U, UG)	>>>	LC1D09●● to LC1D38●●, LC1D40A●●● to LC1D80A, LC1DT60A●●● to LC1DT80A●●●	BL, BNE 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)	>>>	LC1D09●● to LC1D38●●, LC1D40A●●● to LC1D80A, LC1DT60A●●● to LC1DT80A●●●	Code of any DC coil up to 24 V or any AC coil up to 230 V
M340 / M580	Static output: 24 V DC	0.5	BMXDDO1602 and DM16022	>>>	LC1D09●● to LC1D38●●, LC1D40A●●● to LC1D80A, LC1DT60A●●● to LC1DT80A●●●	BL, BNE BBE
		0.1	BMXDDO3202, BMXDDM3202K, BMXDDO6402K	>>>	LC1D09●● to LC1D38●●	BL
	Relay output: 24 V DC / 230 V AC	2	BMXDRA0805 and DM16025	>>>	LC1D09●● to LC1D38●●, LC1D40A●●● to LC1D80A, LC1DT60A●●● to LC1DT80A●●●	Code of any DC coil up to 24 V or any AC coil up to 230 V
	Triac output: 230 V AC	0.6	BMXDAO1605	>>>	LC1D09●● to LC1D38●●, LC1D40●●● to LC1D80A●●●, LC1DT60A●●● to LC1DT80A●●●	Code of any AC coil up to 230 V (P7 code = 230 V)
ADVANTYS	Static output: 24 V DC	0.5	STBDDO3200	>>>	LC1D09●● to LC1D38●●, LC1D40A●●● to LC1D80A, LC1DT60A●●● to LC1DT80A●●●	BL, BNE BBE
	Triac output: 230 V AC	2	STBDAO8210	>>>	LC1D09●● to LC1D38●●, LC1D40A●●● to LC1D80A, LC1DT60A●●● to LC1DT80A●●●	Code of any AC coil up to 230 V (P7 code = 230 V AC)

Coils consumption characteristics

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

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

TeSys Control

Deca Contactors

Product references



LC1D09●●



LC1D25●●



LC1D80A●●



LC1D95●●



LC1D115●●

3-pole contactors - Motor control up to 75 kW at 400 V, in category AC-3

Standard power ratings of 3-phase motors 50-60 Hz in category AC-3 ($\theta \leq 60^\circ\text{C}$)							Rated operational current in AC-3 440 V up to	Instan- taneous auxiliary contacts	Basic reference, to be completed by adding the control voltage code ⁽¹⁾	Weight ⁽³⁾	
220 V	380 V	415 V	440 V	500 V	660 V	1000 V	A			Fixing ⁽²⁾	kg
230 V	400 V				690 V						
2.2	4	4	4	5.5	5.5	—	9	1	1	LC1D09●●	0.320
3	5.5	5.5	5.5	7.5	7.5	—	12	1	1	LC1D12●●	0.325
4	7.5	9	9	10	10	—	18	1	1	LC1D18●●	0.330
5.5	11	11	11	15	15	—	25	1	1	LC1D25●●	0.370
7.5	15	15	15	18.5	18.5	—	32	1	1	LC1D32●●	0.375
9	18.5	18.5	18.5	18.5	18.5	—	38	1	1	LC1D38●●	0.380
Power connections by EverLink® BTR screw connectors ⁽⁴⁾ and control 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
Connection by screw clamp terminals or connectors											
22	37	45	45	55	45	45	80	1	1	LC1D80●●	1.590
25	45	45	45	55	45	45	95	1	1	LC1D95●●	1.610
30	55	59	59	75	80	65	115	1	1	LC1D115●●	2.500
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 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...D150 (D115 and D150 coils with built-in suppression as standard, by bi-directional peak limiting diode).													
50/60 Hz	B7	D7	E7	F7	FE7	M7	P7	U7	Q7	V7	N7	R7	S7
LC1D09...D65 (not available with "connection for lugs or bars")													
50 Hz	B5	D5	E5				P5						
LC1D80...D115													
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
LC1D09...D38 (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)											
U 0.75...1.25 Uc	JD	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	RD
LC1D80...D95											
U 0.85...1.1 Uc	JD	BD	CD	ED	ND	SD	FD	GD	MD	UD	RD
U 0.75...1.2 Uc	JW	BW	CW	EW	—	SW	FW	—	MW	—	—
LC1D115 and D150 (coil with built-in suppression device as standard)											
U 0.75...1.2 Uc	—	BD	—	ED	ND	SD	FD	GD	MD	UD	RD

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

Volts	5	12	20	24	48	110	220	250
LC1D09...D38 (coils with integral suppression device fitted as standard, by bi-directional peak limiting diode)								
U 0.8...1.25 Uc	AL	JL	ZL	BL	EL	FL	ML	UL

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

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

(2) LC1D09 to D80A: clip-on mounting on 35 mm rail NSYSR or screw fixing.
LC1D80 to D95 ~: clip-on mounting on 35 mm rail NSYSR or 75 mm rail AM1DL or screw fixing.
LC1D80 to D95 —: clip-on mounting on 75 mm rail AM1DL or screw fixing.
LC1D115 and D150: clip-on mounting on 2 x 35 mm rails NSYSR 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. Example: LC1D40ABBE.

TeSys Control

Deca Contactors

Product references

PB121713.tif



LC1D123●●

PB121720.eps



LC1D80A3●●

3-pole contactors - Motor control up to 30 kW at 400 V, in category AC-3

Standard power ratings of 3-phase motors 50-60 Hz in category AC-3 ($\theta \leq 60^\circ\text{C}$)	Rated operational current in AC-3 440 V up to	Instan- taneous auxiliary contacts	Basic reference, to be completed by adding the control voltage code ⁽¹⁾
220 V 380 V 415 V 440 V 500 V 660 V 1000 V 230 V 400 V			Fixing ⁽²⁾

kW	kW	kW	kW	kW	kW	kW	A			
Power and control connections by spring terminals										
2.2	4	4	4	5.5	5.5		9	1	1	LC1D093●●
3	5.5	5.5	5.5	7.5	7.5		12	1	1	LC1D123●●
4	7.5	9	9	10	10		18	1	1	LC1D183●●
5.5	11	11	11	15	15		25	1	1	LC1D253●●
7.5	15	15	15	18.5	18.5		32 ⁽³⁾	1	1	LC1D323●●

Power connections by EverLink® BTR screw connectors ⁽⁴⁾ and control by spring terminals										
11	18.5	22	22	22	30	30	40	1	1	LC1D40A3●●
15	22	25	30	30	33	33	50	1	1	LC1D50A3●●
18.5	30	37	37	37	37	37	65	1	1	LC1D65A3●●
22	37	37	37	37	37	37	66	1	1	LC1D80A3●●

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 and auxiliary terminals.

For contactors LC1D09 and LC1D12 only, replace the figure **3** with a **9** in the references selected above.

Example: LC1D093●● becomes LC1D099●●.

Separate components

Auxiliary contact blocks and add-on modules: see pages B8/36 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	
LC1D09...D80A													
50/60 Hz	B7	D7	E7	F7	FE7	M7	P7	U7	Q7	V7	N7	R7	
d.c. supply													
Volts	12	24	36	48	60	72	110	125	220	250	440		
LC1D09...D32 (coils with integral suppression device fitted as standard, by bi-directional peak limiting diode)													
U 0.7...1.25 U _c	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)													
U 0.75...1.25 U _c	JD	BD	CD	ED	ND	SD	FD	GD	MD	UD	RD		
Low consumption													
Volts ~	5	12	20	24	48	110	220	250					
LC1D09...D32 (coils with integral suppression device fitted as standard, by bi-directional peak limiting diode)													
U 0.8...1.25 U _c	AL	JL	ZL	BL	EL	FL	ML	UL					

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

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

(2) LC1D09 to D32: clip-on mounting on 35 mm rail NSYSDR or screw fixing.

(3) Must be wired with 2 x 4 mm² cables in parallel on the upstream side. On the downstream side, outgoing terminal block LAD331 may be used (Quickfit technology, see page B1/18). When wired with a single cable, the product is limited to 25 A (11 kW/400 V motors).

(4) BTR screws: hexagon socket head. In accordance with local electrical wiring regulations, a size 4 insulated Allen key must be used (reference LADALLEN4, see page B8/42).



Contactors

TeSys Control

Deca Contactors

Product references



LC1D09●●



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 used.
- (2) **LC1D09 to D80A**: clip-on mounting on 35 mm rail NSYSR or screw fixing.
LC1D80 and D95: clip-on mounting on 35 mm rail NSYSR 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 rails NSYSR 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) Coordination tables according to the number of operating cycles, see AC-1 curve, page A5/40.
- (6) 32 A with 2 x 4 mm² cables connected in parallel.
- (7) For these coil voltages, choose from Deca green contactors. Same product ref. radical, just add BBE coil voltage code for 24 V DC, BNE for 24-60 V AC/DC, EHE for 48-130 V AC/DC, KUE for 100-250 V AC/DC. Exemple: **LC1D40ABBE**.

3-pole contactors - Load control from 25 to 200 A in category AC-1

Non inductive loads maximum current (θ ≤ 60 °C) utilisation category AC-1	Number of poles	Instantaneous auxiliary contacts	Basic reference, to be completed by adding the control voltage code ⁽¹⁾	Weight ⁽³⁾
			Fixing ⁽²⁾	
A				kg
Connection by screw clamp terminals				
25	3	1	1	LC1D09●● 0.320 or LC1D12●● 0.325 LC1D18●● 0.330
32	3	1	1	LC1D25●● 0.370
40	3	1	1	LC1D32●● 0.375 or LC1D38●● 0.380
Connection by EverLink®, BTR screw connectors ⁽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 screw clamp terminals or connectors				
125	3	1	1	LC1D80●● 1.590 or LC1D95●● ⁽⁵⁾ 1.610
200	3	1	1	LC1D115●● 2.500 or LC1D150●● ⁽⁶⁾ 2.500

3-pole contactors for connection by lugs

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

Standard control circuit voltages

(for other voltages, please consult your Regional Sales Office)

a.c. supply

Volts	24	42	48	110	115	220	230	240	380	400	415	440	500
LC1D09...D150 (LC1D115 and D150 coils with built-in suppression device as standard)													
50/60 Hz	B7	D7	E7	F7	FE7	M7	P7	U7	Q7	V7	N7	R7	S7
LC1D09...D65 (not available with "connection for lugs or bars")													
50 Hz	B5	D5	E5				P5						
LC1D80...D150													
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	
LC1D09...D38 (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)												
U 0.75...1.25 Uc	JD	(7)	(7)	(7)	(7)	(7)	(7)	(7)	(7)	(7)	RD	
LC1 or LP1D80 and D95												
U 0.85...1.1 Uc	JD	BD	CD	ED	ND	SD	FD	GD	MD	UD	RD	
U 0.75...1.2 Uc	JW	BW	CW	EW	-	SW	FW	-	MW	-	-	
LC1D115 and D150 (coils with built-in suppression device fitted as standard)												
U 0.75...1.2 Uc	-	BD	-	ED	ND	SD	FD	GD	MD	UD	RD	
Low consumption												
Volts ---	5	12	20	24	48	110	220	250				
LC1D09...D38 (coils with integral suppression device fitted as standard, by bi-directional peak limiting diode)												
U 0.8...1.25 Uc	AL	JL	ZL	BL	EL	FL	ML	UL				



LC1D123●●



LC1D80A3●●

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

Non inductive loads maximum current ($\theta \leq 60^\circ\text{C}$) utilisation category AC-1	Number of poles	Instantaneous auxiliary contacts	Basic reference, to be completed by adding the control voltage code ⁽¹⁾	Weight ⁽³⁾
			Fixing ⁽²⁾	

A	Connection by spring terminals			kg	
16	3	1	1	LC1D093●● ⁽⁴⁾ or LC1D123●● ⁽⁴⁾	0.320 0.325
25	3	1	1	LC1D183●● ⁽⁵⁾ or LC1D253●● ⁽⁶⁾ or LC1D323●● ⁽⁶⁾	0.335 0.325 0.325

Power connections by EverLink® BTR screw connectors ⁽⁷⁾ and control by spring terminals

60	3	1	1	LC1D40A3●●	0.850
80	3	1	1	LC1D50A3●● ⁽⁸⁾ or LC1D65A3●● ⁽⁸⁾ or LC1D80A3●● ⁽⁸⁾	0.855 0.860 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●●**.

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...D80A													
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		
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)													
U 0.75...1.25 Uc	JD	BD	CD	ED	ND	SD	FD	GD	MD	UD	RD		
Low consumption													
Volts	5	12	20	24	48	110	220	250					
LC1D09...D32 (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 B8/45 to B8/48.
(1) Please check the availability of your variant in the index page B8/55. The SEARCH function of your viewer can be used.
(2) LC1D09 to D80A: clip-on mounting on 35 mm rail NSYSR 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 A5/40.

TeSys Control

Deca Contactors

Product references

PB121714.fr



LC1DT20●●

PB121715.fr



LC1DT80A●●

PB123776.eps



LC1D65008●●



Contactors

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

Non inductive loads maximum current ($\theta \leq 60^\circ\text{C}$) utilisation category AC-1	Number of poles	Instantaneous auxiliary contacts	Basic reference, to be completed by adding the control voltage code ⁽¹⁾ Fixing ⁽²⁾	Weight ⁽³⁾

A kg

Connection by screw clamp terminals

20	4	–	1	1	LC1DT20●●	0.365
	2	2	1	1	LC1D098●●	0.365
25	4	–	1	1	LC1DT25●●	0.365
	2	2	1	1	LC1D128●●	0.365
32	4	–	1	1	LC1DT32●●	0.425
	2	2	1	1	LC1D188●●	0.425
40	4	–	1	1	LC1DT40●●	0.425
	2	2	1	1	LC1D258●●	0.425

Connection by EverLink®, BTR screw connectors

60	4	–	1	1	LC1DT60A●●	1.090
80	4	–	1	1	LC1DT80A●●	1.150

Connection by screw clamp terminals or connectors

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 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...D150 and LC1DT20...DT80A (LC1D115 and D150 coils with built-in suppression device as standard)													
50/60 Hz	B7	D7	E7	F7	FE7	M7	P7	U7	Q7	V7	N7	R7	–
LC1D80...D115													
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
LC1D09...D25 and LC1DT20...DT40 (coils with integral suppression device fitted as standard, by bi-directional peak limiting diode)											
U 0.75...1.25 Uc	JD	BD	CD	ED	ND	SD	FD	GD	MD	UD	RD
LC1DT60A ...DT80A (coils with integral suppression device fitted as standard, by bi-directional peak limiting diode)											
U 0.75...1.25 Uc	JD	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	RD
LP1D40...D80											
U 0.85...1.1 Uc	JD	BD	CD	ED	ND	SD	FD	GD	MD	UD	RD
U 0.75...1.2 Uc	JW	BW	CW	EW	–	SW	FW	–	MW	–	–
LC1D115 (coil with built-in suppression device as standard)											
U 0.75...1.2 Uc	–	BD	–	ED	ND	SD	FD	GD	MD	UD	RD

Low consumption

Volts	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)								
U 0.8...1.25 Uc	AL	JL	ZL	BL	EL	FL	ML	UL

For other voltages between 5 and 690 V, see pages B8/45 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 NSYSR or screw fixing.

LC1D80 ~: clip-on mounting on 35 mm rail NSYSR or 75 mm rail AM1DL or screw fixing.

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

LC1D115 and D150: clip-on mounting on 2 x 35 mm rails NSYSR 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. Example: LC1DT60ABBE.



LC1DT253●●



LC1DT80A3●●

4-pole contactors - Load control, 20 to 80 A in category AC-1

Non inductive loads maximum current ($\theta \leq 60^\circ\text{C}$) utilisation category AC-1	Number of poles	Instantaneous auxiliary contacts	Basic reference, to be completed by adding the voltage code ⁽¹⁾	Weight ⁽³⁾
			Fixing ⁽²⁾	

A **kg**

Connection by spring terminals

20	4	–	1	1	LC1DT203●●	0.380
	2	2	1	1	LC1D0983●●	0.380
25	4	–	1	1	LC1DT253●●	0.380
	2	2	1	1	LC1D1283●●	0.380
32	4	–	1	1	LC1DT323●●	0.425
	2	2	1	1	LC1D1883●●	0.425
40	4	–	1	1	LC1DT403●●	0.425
	2	2	1	1	LC1D2583●●	0.425

Connection by EverLink®, BTR screw connectors and control circuit by spring terminals

60	4	–	1	1	LC1DT60A3●●	1.090
80	4	–	1	1	LC1DT80A3●●	1.150

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
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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	–
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d.c. supply

Volts	12	24	36	48	60	72	110	125	220	250	440
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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	JD	BD	CD	ED	ND	SD	FD	GD	MD	UD	RD
------------------	----	----	----	----	----	----	----	----	----	----	----

Low consumption

Volts	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)

U 0.8...1.25 Uc	AL	JL	ZL	BL	EL	FL	ML	UL
-----------------	----	----	----	----	----	----	----	----

For other voltages between 5 and 690 V, see pages B8/45 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 NSYS DR 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 for LC1DT60A and DT80A.





LC1D09●●



LC1D25●●



LC1D80A●●



LC1D95●●

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

Standard power ratings of motors 50/60 Hz						Associated cable type 75 °C-Cu	UL continuous current	Type of contactor required Basic reference, to be completed by adding the control voltage code ⁽¹⁾ Fixing, connection ⁽²⁾
Single-phase 1 Ø		3-phase 3 Ø						
120 V	240 V	208 V	240 V	480 V	600 V			
HP	HP	HP	HP	HP	HP		A	

Connection by screw clamp terminals								
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⁾

Power connections by EverLink® BTR screw connectors and control by spring terminals								
3	5	10	10	30	30	AWG 16 - 2	60	LC1D40A●●
3	7.5	15	15	40	40	AWG 16 - 2	70	LC1D50A●●
5	10	20	20	40	50	AWG 16 - 2	80	LC1D65A●●
5	10	20	20	40	50	AWG 16 - 2	80	LC1D80A●●

Connection by screw clamp terminals or connectors								
7.5	15	25	30	60	60	AWG 10 - 2	110	LC1D80●●
7.5	15	25	30	60	60	AWG 10 - 2	110	LC1D95●●
-	-	30	40	75	100	AWG 8-1/0	160	LC1D115●●
-	-	40	50	100	125	AWG 8-1/0	160	LC1D150●●

Applications with High-Fault Short-Circuit ratings

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

Application example

For a 15 HP-230 V motor

Select a contactor type **LC1D50A**.

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

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

a.c. supply																
Volts	24	42	48	110	115	120	208	220	230	240	380	400	415	440	480	500
LC1D09...D150 (D115 and D150 coils with built-in suppression device as standard)																
50/60 Hz	B7	D7	E7	F7	FE7	G7 ⁽⁴⁾	LE7 ⁽⁴⁾	M7	P7	Q7	V7	N7	R7	T7 ⁽⁴⁾	S7	
LC1D09...D65 (not available with "connection for lugs or bars")																
50 Hz	B5	D5	E5						P5							
LC1D80...D115																
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					
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)																
U 0.75...1.25 Uc	JD	⁽⁵⁾	⁽⁵⁾	⁽⁵⁾	⁽⁵⁾	⁽⁵⁾	⁽⁵⁾	⁽⁵⁾	⁽⁵⁾	⁽⁵⁾	RD					
LC1D80 and D95																
U 0.85...1.1 Uc	JD	BD	CD	ED	ND	SD	FD	GD	MD	UD	RD					
U 0.75...1.2 Uc	JW	BW	CW	EW	-	SW	FW	-	MW	-	-					
LC1D115 and D150 (coils with built-in suppression device as standard)																
U 0.75...1.2 Uc	-	BD	-	ED	ND	SD	FD	GD	MD	UD	RD					

Low consumption											
Volts ~	5	12	20	24	48	72	110	220	250		
LC1D09...D38 (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	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.

⁽²⁾ LC1D09 to D65A: clip-on mounting on 35 mm L rail NSYSR or screw fixing.

LC1D80 and LC1D95: clip-on mounting on 35 mm L rail NSYSR or 75 mm L rail AM1DL or screw fixing.

LC1D115 and D150: clip-on mounting on 2 x 35 mm L rails NSYSR 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. Example: LC1D40ABBE.

TeSys Control

Deca Reversing contactors

Product references



LC2D12●●



LC2D65A●●



LC2D1156●●

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

Horizontally mounted - Pre-wired power connections.

Standard power ratings of 3-phase motors 50-60 Hz in category AC-3 ($\theta \leq 60^\circ\text{C}$)								Rated opera- tional current in AC-3 440 V up to	Instan- taneous auxiliary contacts per contactor	Contactors supplied with coil Basic reference, to be completed by adding the control voltage code ⁽¹⁾		Weight ⁽³⁾
220 V	380 V	415 V	440 V	500 V	660 V	1000 V	Fixing ⁽²⁾					
230 V	400 V				690 V							
kW	kW	kW	kW	kW	kW	kW	A					kg

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

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

With mechanical interlock and electrical interlocking, for connection by screw clamp terminals 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 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
LC2D09...D150 (D115 and D150 coils with built-in suppression device as standard)													
50/60 Hz	B7	D7	E7	F7	FE7	M7	P7	U7	Q7	V7	N7	R7	S7
LC2D80...D115													
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
LC2D09...D38 (coils with integral suppression device fitted as standard, by bi-directional peak limiting diode)											
U 0.7...1.25 U _c	JD	BD	CD	ED	ND	SD	FD	GD	MD	UD	RD
LC2D40A...D65A (coils with integral suppression device fitted as standard, by bi-directional peak limiting diode)											
U 0.75...1.25 U _c	JD	BD	CD	ED	ND	SD	FD	GD	MD	UD	RD

Low consumption

Volts ---	5	12	20	24	48	110	220	250
LC2D09...D38 (coils with integral suppression device fitted as standard, by bi-directional peak limiting diode)								
U 0.8...1.25 U _c	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 NSYS DR or screw fixing.

LC2D80 and D95: clip-on mounting on 35 mm rail NSYS DR or 75 mm rail AM1 DL or screw fixing.

LC2D115 and D150: clip-on mounting on 35 mm rail NSYS DR 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.



TeSys Control

Deca Reversing contactors

Product references

PB1217/16/1F



LC2D123●●

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

Pre-wired power connections.

Mechanical interlock without electrical interlocking.

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

For connection by spring terminals

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

Power connection by EverLink[®], BTR screw connectors ⁽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 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
LC2D09...D65A													
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
LC2D09...D32 (coils with integral suppression device fitted as standard, by bi-directional peak limiting diode)											
U 0.7...1.25 U _c	JD	BD	CD	ED	ND	SD	FD	GD	MD	UD	RD
LC2D40A...D65A (coils with integral suppression device fitted as standard, by bi-directional peak limiting diode)											
U 0.75...1.25 U _c	JD	BD	CD	ED	ND	SD	FD	GD	MD	UD	RD

Low consumption

Volts ---	5	12	20	24	48	110	220	250
LC2D09...D32 (coils with integral suppression device fitted as standard, by bi-directional peak limiting diode)								
U 0.8...1.25 U _c	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 rail NSYS DR 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 D32, 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).



Contactors

TeSys Control

Deca Changeover contactors

Product references



LC2DT20●●



LC2D115004●●

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

Pre-assembled. Pre-wired power connections

LC2DT20 to LC2DT40: mechanical interlock without electrical interlocking.

LC2D80004: order separately 2 auxiliary contact blocks LADN●1 to obtain electrical interlocking between the 2 contactors (see page B8/36).

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

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

For connection by screw clamp terminals or connectors

Utilisation category AC-1 Non-inductive loads Maximum rated operational current ($\theta \leq 60^\circ\text{C}$)	Instantaneous auxiliary contacts per contactor		Contactors supplied with coil	Weight kg
			Basic reference, to be completed by adding the voltage code ⁽¹⁾⁽²⁾ Fixing ⁽³⁾	
20	1	1	LC2DT20●●	0.730
25	1	1	LC2DT25●●	0.730
32	1	1	LC2DT32●●	0.850
40	1	1	LC2DT40●●	0.850
125	–	–	LC2D80004●●	3.200
200	–	–	LC2D115004●●	7.400

For connection by lugs or bars

20	1	1	LC2DT206●●	0.730
25	1	1	LC2DT256●●	0.730
32	1	1	LC2DT326●●	0.850
40	1	1	LC2DT406●●	0.850

For customer assembly

For connection by screw clamp terminals or connectors

60	1	1	LC1DT60A●● ⁽⁴⁾	–
80	1	1	LC1DT80A●● ⁽⁴⁾	–

For connection by lugs or 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 \perp rail NSYS DR or screw fixing.
LC2D80: clip-on mounting on 35 mm \perp rail NSYS DR or 75 mm \perp rail AM1 DL or screw fixing.

LC2D115: clip-on mounting on 2 x 35 mm \perp rails NSYS DR 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

Pre-assembled, for customer assembly

Pre-wired power connections, for connection by spring terminals.

Utilisation category AC-1 Non-inductive loads Maximum rated operational current ($\theta \leq 60^\circ\text{C}$)	Instantaneous auxiliary contacts per contactor	Contactors supplied with coil
		Basic reference, to be completed by adding the control voltage code ⁽¹⁾
		Fixing ⁽²⁾

A			
20	1	1	LC2DT203●●

Power connection by EverLink®, BTR screw connectors ⁽³⁾ and control by spring terminals

60	1	1	LC1DT60A3●● ⁽⁴⁾
80	1	1	LC1DT80A3●● ⁽⁴⁾

Separate components

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
-------	----	----	----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

LC2DT20...DT40, LC2DT60A...DT80A

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

LC2D80004...D115004

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
-------	----	----	----	----	----	----	-----	-----	-----	-----	-----

LC2DT20...DT40, LC1DT60...DT80 (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
-----------------	----	----	----	----	----	----	----	----	----	----	----

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 rail NSYSR 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).



SELECT

TeSys Control

Deca green Reversing contactors

Product references

PE121720.fr



LC2D09●●●

PE121721.fr



LC2D40●●●

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

Pre-wired power connections

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

With mechanical interlock, without electrical interlocking, for connection by screw clamp terminals or Everlink BTR screw connectors ^{(3) (4)}

2.2	4	4	4	5.5	5.5	9	1	1	LC2D09●●●	0.783
3	5.5	5.5	5.5	7.5	7.5	12	1	1	LC2D12●●●	0.793
4	7.5	9	9	10	10	18	1	1	LC2D18●●●	0.803
5.5	11	11	11	15	15	25	1	1	LC2D25●●●	0.913
7.5	15	15	15	18.5	18.5	32	1	1	LC2D32●●●	0.923
9	18.5	18.5	18.5	18.5	18.5	38	1	1	LC2D38●●●	0.933
11	18.5	22	22	22	30	40	1	1	LC2D40A●●● ⁽³⁾	2.154
15	22	25	30	30	33	50	1	1	LC2D50A●●● ⁽³⁾	2.164
18.5	30	37	37	37	37	65	1	1	LC2D65A●●● ⁽³⁾	2.174
22	37	37	37	37	37	66	1	1	LC2D80A●●● ⁽³⁾	2.174

Auxiliary contact blocks and add-on modules

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
LC2D09...D32, LC2D40A ... D80A				
U 0.85...1.1 Uc		BNE	EHE	KUE
LC2D09...D38				
U 0.8...1.2 Uc		BNE		
LC2D40A ...D80A				
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) LC2D09 to D80A: clip-on mounting on 35 mm rail NSYSR or screw fixing.

(3) BTR screws: hexagon socket head. In accordance with local electrical wiring regulations, a size 4 insulated Allen key must be used (reference LADALLEN4, see page B8/42).

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



TeSys Control

Deca Contactors for switching capacitor banks

Product references



LC1DGK●●, LC1DLK●●, LC1DMK●●



LC1DWK12●●



Contactors

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

Special contactors **LC1D●K** are designed for switching 3-phase, single or multiple-step capacitor banks (up to 6 steps). Over 6 steps, it is recommended to use chokes in order to limit the inrush current and thus improve the lifetime of the installation. The contactors 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 I_n 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 I_n. 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 I _n
Maximum operating rate	LC1DFK, DGK, DLK, DMK	240 operating cycles/hour
	LC1DPK, DTK, DWK	240 operating cycles/hour
Electrical durability at nominal load	All contactor ratings	400 V 300 000 operating cycles
		690 V 200 000 operating cycles

Operational power at 50/60 Hz ⁽¹⁾ θ ≤ 60 °C ⁽²⁾				Instantaneous auxiliary contacts		Tightening torque on cable end	Basic reference, to be completed by adding the voltage code ^{(3) (4)}	Weight
230 V	400 V	440 V	690 V	N/O	N/C			
kVAR	kVAR	kVAR	kVAR			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.

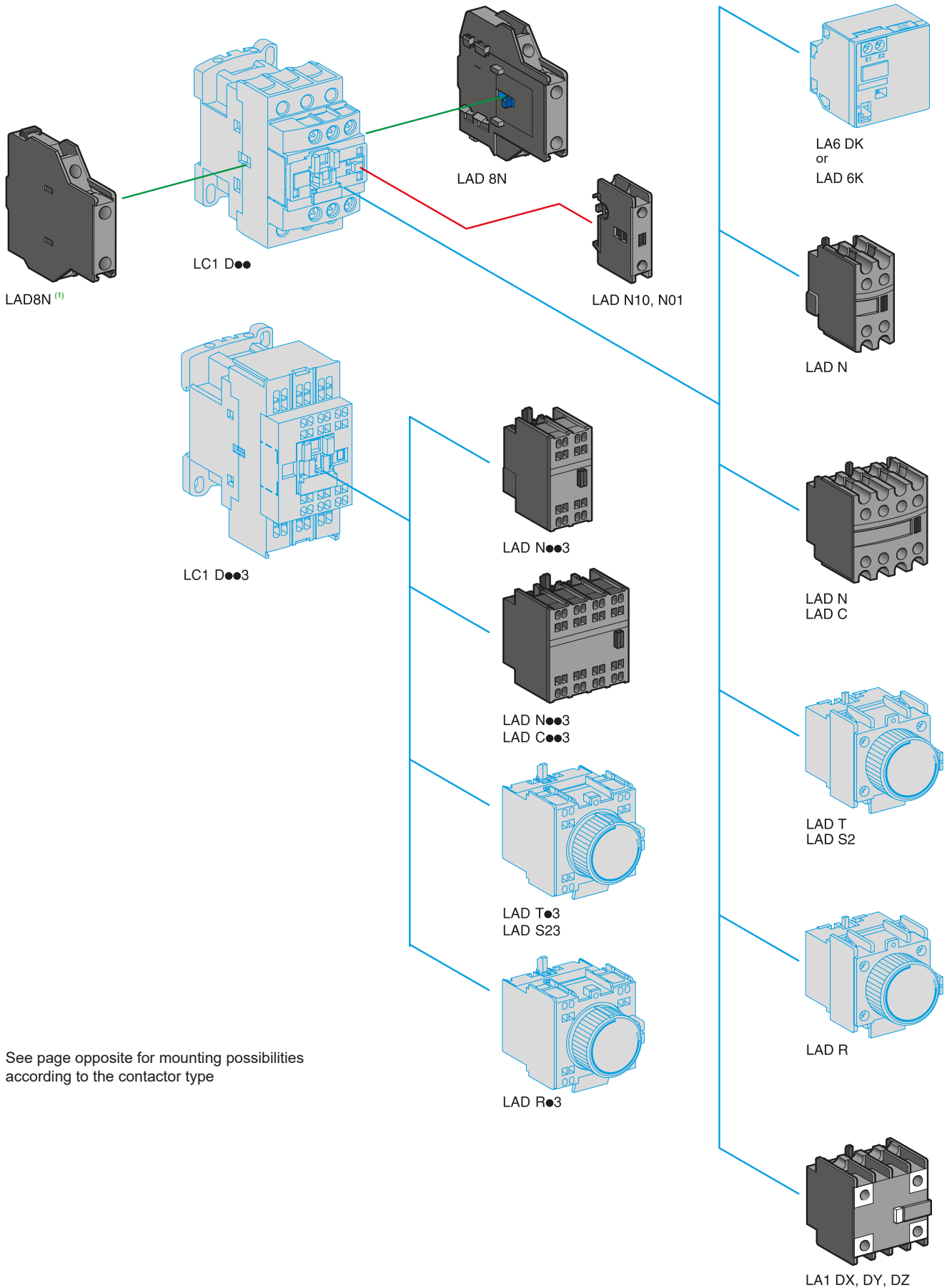
(1) Operational power of the contactor according to the scheme on the page opposite.

(2) The average temperature over a 24-hour period, in accordance with standards IEC 60070 and 60831 is 45 °C.

(3) Standard control circuit voltages (the delivery time is variable, please consult your Regional Sales Office):

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

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



See page opposite for mounting possibilities according to the contactor type

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

TeSys Control

Deca Contactors - Auxilliary contact blocks

Product references



LADN22



LAD8N11



LA1DX●●, LA1DZ●●

Instantaneous auxiliary contact blocks for connection by screw clamp terminals

For use in normal operating environments

Clip-on mounting	Number of contacts per block	Composition					Reference
Front	1	-	-	-	1	-	LADN10
		-	-	-	-	1	LADN01
	2	-	-	-	1	1	LADN11
		-	-	-	2	-	LADN20
	4	-	-	-	-	2	LADN02
		-	-	-	1	3	LADN13
		-	-	-	4	-	LADN40
		-	-	-	-	4	LADN04
		-	-	-	3	1	LADN31
		-	-	-	2	2	LADC22
Side (contact blocks compatible with AC coil contactors only)	2	-	-	-	1	1	LAD8N11
		-	-	-	2	-	LAD8N20
		-	-	-	-	2	LAD8N02

For terminal referencing conforming to EN 50012

Front on 3P contactors and 4P contactors 20 to 80 A	2	-	-	-	1	1	LADN11G
Front on 4P contactors 125 to 200 A	4	-	-	-	2	2	LADN22G
	2	-	-	-	1	1	LADN11P
	4	-	-	-	2	2	LADN22P

With dust and damp protected contacts, for use in particularly harsh industrial environments

Front	2	-	2	-	-	-	LA1DX20
		1	1	-	-	-	LA1DX11
		2	-	-	-	-	LA1DX02
	4	-	2	2	-	-	LA1DY20 ⁽²⁾
		-	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:

Contactors	Type	Number of poles and size	Instantaneous auxiliary contacts				Time delay Front mounted	
			Side mounted	Front mounted				
				1 contact	2 contacts	4 contacts		
AC	3P	LC1D09...D38	1 on LH or 1 on RH side ⁽³⁾	and -	1	or 1	or 1	
		LC1D40A...D80A	1 on LH or 1 on RH side	and -	1	or 1	or 1	
		LC1D80 and D95 (50/60 Hz)	1 on each side	or 2	and 1	or 1	or 1	
		LC1D80 and D95 (50 or 60 Hz)	1 on each side	and 2	and 1	or 1	or 1	
		LC1D115 and D150	1 on LH side	and -	1	or 1	or 1	
		4P	LC1DT20...DT40	1 on LH side	and -	1	or 1	or 1
			LC1DT60A and DT80A	1 on LH or 1 on RH side	and -	1	or 1	or 1
			LC1D40008, D65008 and D80	1 on each side	or 1	or 1	or 1	or 1
			LC1D115	1 on each side	and 1	or 1	or 1	or 1
		DC	3P	LC1D09...D38	-	-	1	or 1
LC1D40A...D80A	-			-	1	or 1	or 1	
LC1D80 and D95	-			1	or 1	or 1	or 1	
LC1D115 and D150	1 on LH side			and -	1	or 1	or 1	
4P	LC1DT20...DT40		-	-	1	or 1	or 1	
	LC1DT60A and DT80A		-	-	1	or 1	or 1	
	LC1D40008, D65008 and D80		-	2	and 1	or 1	or 1	
	LC1D115		1 on each side	-	and 1	or 1	or 1	
	LC ⁽⁴⁾ (5)		3P	LC1D09...D38	-	1	-	-
				4P	LC1DT20...DT40	-	1	-

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

(4) LC: low consumption.

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

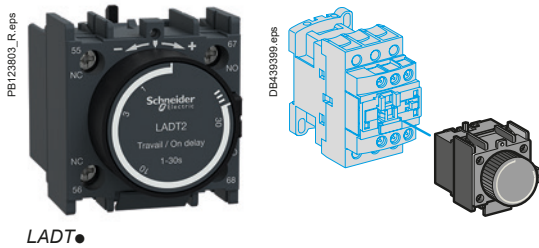
(5) LA1D●●● dust & damp proof auxiliary contact blocks not allowed.

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

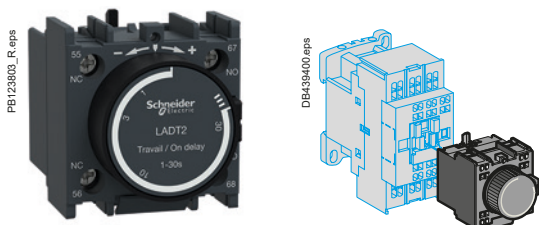
TeSys Control

Deca Contactors - Time delay auxiliary contact blocks

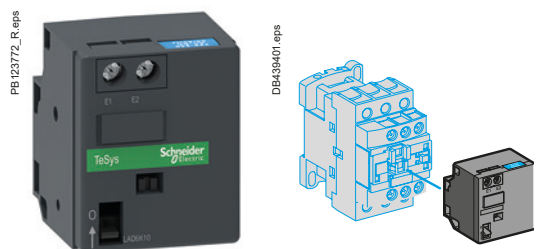
Product references



LADT●



LADT●.3



LAD6K10●

Time delay auxiliary contact blocks for connection by screw clamp terminals

Maximum number of auxiliary contact blocks that can be fitted per contactor, see page B8/36.
Sealing cover to be ordered separately, see page B8/42.
LADS2: with switching time of 40 ms ± 15 ms between opening of the N/C contact and closing of the N/O contact.

Clip-on mounting	Number of contacts	Time delay		Reference
		Type	Setting range	
Front	1 N/O + 1 N/C	On-delay	0.3...3 s	LADT0
			1...30 s	LADT2
			10...180 s	LADT4
		Off-delay	1...30 s	LADS2
			0.3...3 s	LADR0
			1...30 s	LADR2
		10...180 s	LADR4	

Time delay auxiliary contact blocks for connection by lugs

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

Time delay auxiliary contact blocks for connection by spring terminals

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

Mechanical latch blocks ⁽¹⁾

Clip-on mounting	Unlatching control	For use on contactor	Basic reference, to be completed by adding the control voltage code ^{(2) (3)}
Front	Manual or electric	LC1D09...D38 (∩ or ∩∩) ⁽⁴⁾	LAD6K10●
		LC1DT20...DT40 (∩ or ∩∩)	
		LC1D40A...D80A (3 P ∩ or ∩∩)	LAD6K10●
		LC1DT60A and DT80A (4 P ∩ or ∩∩)	
		LC1D80...D150 (3 P ∩)	LA6DK20●
		LC1D80 and D150 (3 P ∩∩)	
		LC1D80 (4 P ∩)	
		LC1D80 and D115 (4 P ∩)	
		LP1D80 and LC1D115 (4 P ∩∩)	
		LC1D40 and D65 (4 P ∩)	LAD6K10●
LP1D40 and D65 (4 P ∩∩)			

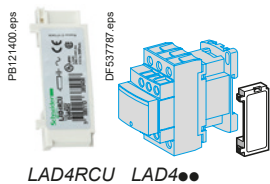
- (1) The mechanical latch block must not be powered up at the same time as the contactor. The duration of the control signal for the mechanical latch block and the contactor should be: ≥ 100 ms for a contactor operating on an a.c. supply, ≥ 250 ms for a contactor operating on a d.c. supply. Maximum 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		B	C	E	EN	K	F	M	U	Q

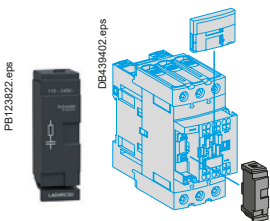
(3) Please check the availability of your variant in the index page B8/55. The SEARCH function of your viewer can be used.

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





LAD4RCU LAD4●●



LAD4RC3●, LAD4V3●,
LAD4D3U, LAD4T3●

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⁾ Rating	Type		Reference
		V ~	V ---	
Clip-on side mounting ⁽²⁾⁽³⁾	D09...D38 (3P) DT20...DT40	24...48	–	LAD4RCE
		50...127	–	LAD4RCG
		110...250	–	LAD4RCU
Clip-on front mounting ⁽²⁾⁽³⁾	D40A...D65A (3P) DT60A...DT80A (4P)	24...48	–	LAD4RC3E
		50...127	–	LAD4RC3G
		110...240	–	LAD4RC3U
		380...415	–	LAD4RC3N
Screw fixing ⁽⁴⁾	D80...D150 (3P) D40...D115 (4P)	24...48	–	LA4DA2E
		50...127	–	LA4DA2G
		110...240	–	LA4DA2U
		380...415	–	LA4DA2N
		–	–	–

Varistors (peak limiting)

Protection provided by limiting the transient voltage to 2 Uc max. Maximum reduction of transient voltage peaks. Slight increase in drop-out time (1.1 to 1.5 times the normal time).

Clip-on side mounting ⁽²⁾⁽³⁾	D09...D38 (3P) DT20...DT40	24...48	–	LAD4VE
		50...127	–	LAD4VG
		110...250	–	LAD4VU
Clip-on front mounting ⁽²⁾⁽³⁾	D40A...D65A (3P) DT60A...DT80A (4P)	24...48	24...48	LAD4V3E
		50...127	50...127	LAD4V3G
		110...250	110...250	LAD4V3U
Screw fixing ⁽⁴⁾	D80...D115 (3P) D80...D115 (4P)	24...48	–	LA4DE2E
		50...127	–	LA4DE2G
		110...250	–	LA4DE2U
		–	24...48	LA4DE3E
		–	110...250	LA4DE3U

Flywheel diodes

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

Clip-on side mounting ⁽³⁾⁽⁵⁾	D09...D38 (3P), DT20...DT40	–	5...600	LAD4DDL
Clip-on front mounting ⁽³⁾	D40A...D65A (3P), DT60A...DT80A (4P)	–	24...250	LAD4D3U
Screw fixing ⁽⁴⁾	D80 and D95 (3P), D40...D80 (4P)	–	24...250	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⁾	D09...D38 (3P) DT20...DT40 (4P) ⁽⁶⁾	24	–	LAD4TB
		–	24	LAD4TBDL
		72	–	LAD4TS
		–	72	LAD4TSDL
		–	125	LAD4TGDL
Clip-on front mounting ⁽²⁾	D40A...D65A (3P) DT60A...DT80A (4P) ⁽⁶⁾	–	250	LAD4TUDL
		12...24	12...24	LAD4T3B
		25...72	25...72	LAD4T3S
		73...125	73...125	LAD4T3G
		126...250	126...250	LAD4T3U
Screw fixing ⁽⁴⁾	–	251...440	251...440	LAD4T3R
		–	24	LA4DB3B
		–	72	LA4DB3S

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

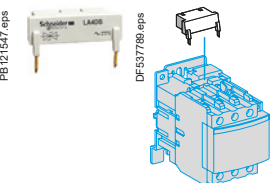
(2) Clipping-on makes the electrical connection. The overall size of the contactor remains unchanged.

(3) In order to install these accessories, the existing suppression device must first be removed.

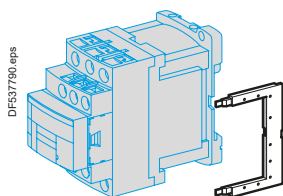
(4) Mounting at the top of the contactor on coil terminals A1 and A2.

(5) Not compatible with low consumption contactors.

(6) From D09 to D65A and from LC1DT20 to DT80A, d.c. low consumption are fitted with a built-in bidirectional peak limiting diode suppressor as standard. This bidirectional peak limiting diode is removable and can therefore be replaced by the user. (See reference above).



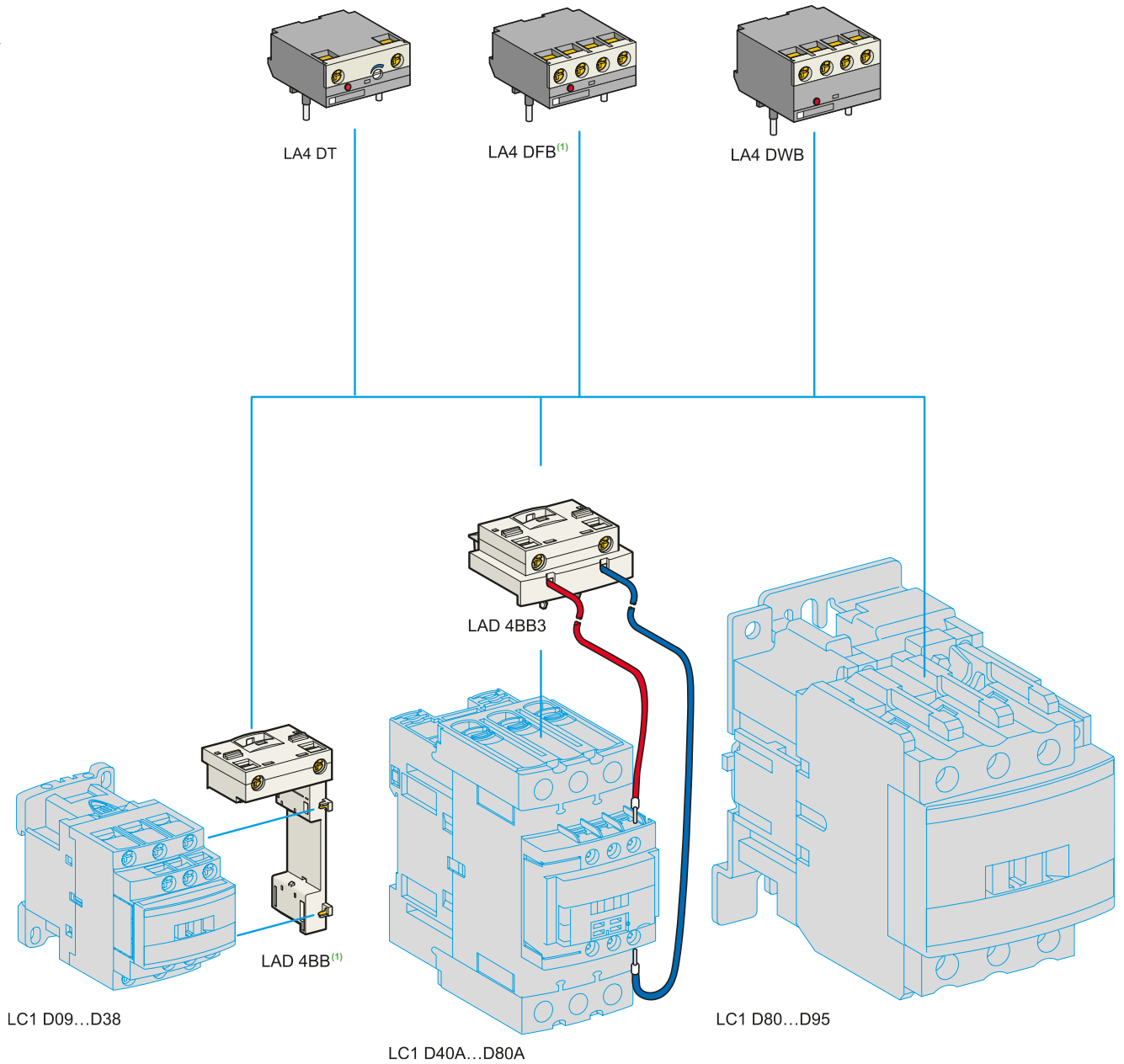
LA4DC3U



LAD4DDL or LAD4TDL



LAD4DDL



Contactors

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

⁽¹⁾ For Deca contactor with AC coil only.



LA4DT●●



LA4DFB



LA4DBL



LAD4BBVU



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 ~		Time delay	Reference
24...250 V	100...250 V		
LC1D09...D80A (3P)	LC1D80...D150 (3P)	0.1...2 s	LA4DT0U
		1.5...30 s	LA4DT2U
		25...500 s	LA4DT4U

Interface modules

- 3-pole contactors LC1D09 to D38: mounted using adapter LAD4BB, to be ordered separately, see below.
- 3-pole contactors LC1D40A to D80A: mounted using adapter LAD4BB3, to be ordered separately, see below.

Relay interface

Operational voltage ~		Supply voltage E1-E2 (---)	Reference
24...250 V			
LC1D09...D150 (3P)		24 V	LA4DFB

Static relay interface

Operational voltage ~		Supply voltage E1-E2 (---)	Reference
24...250 V	100...250 V		
LC1D09...D80A (3P)	LC1D80...D115 (3P)	24 V	LA4DWB

Adapter kit for low control signal

For use on contactors	Composition	Reference
LC1D40A...D80A (3P) ⁽²⁾	<ul style="list-style-type: none"> ■ 1 LAD4BB3 coil wiring adapter ■ 1 LA4DFB relay interface module 	LA4DBL

Wiring adapters for coil retrofit of 3 pole contactors

For adapting existing wiring to a new product

For use on contactors		Reference	
LC1D09...D38	Without coil suppression	LAD4BB ⁽³⁾	
	With coil suppression	~ 24...48 V	LAD4BBVE
		~ 50...127 V	LAD4BBVG
LC1D40A...80A	Without coil suppression	~ 110...250 V	LAD4BBVU
			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.

TeSys Control

Deca Contactors - Accessories

Product references



LA9D3260



LA9D11560



LA9D115503



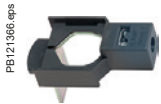
LAD96570



LA9D11570



LA9D80962



LA9D11567

Accessories for main pole and control connections

Description		For use with contactors LC1		Sold in lots of	Unit reference
		~	...		
Connectors for cable, size (1 connector)	4-pole 10 mm ²	DT20, DT25	DT20, DT25	1	LA9D2560
	3-pole 25 mm ²	D09...D38	D09...D38	1	LA9D3260
EverLink® terminal block	3-pole	D40A...D80A	D40A...D80A	1	LA9D96560
Connectors for cables (2 connectors)	3-pole 120 mm ²	D115, D150	D115, D150	1	LA9D115603
	4-pole 120 mm ²	D115	D115	1	LA9D115604
Connectors for lug type terminals (2 connectors)	3-pole	D1156, D1506	D1156, D1506	1	LA9D115503
	Protective covers for connectors for lug type terminals	3-pole	D40A6...D80A6	D40A6...D80A6	1
IP 20 covers for lug type terminals (for mounting with circuit breakers GV3 P●●6 and GV3 L●●6)		D1156, D1506	D1156, D1506	1	LA9D115703 ⁽¹⁾
	4-pole	D60A6...D80A6	D60A6...D80A6	1	LAD96580
		D1156, D1506	D1156, D1506	1	LA9D115704
Links for parallel connection of	2 poles	D40A6...D80A6	D40A6...D80A6	1	LAD96575
		D09...D38	D09...D38	10	LA9D2561
		DT32, DT40 (4P)	DT32, DT40 (4P)	10	LAD96061
	3 poles	D40A...D80A	D40A...D80A	1	LAD9P32
		D80, D95	D80, D95	2	LA9D80961
4 poles	D09...D38	D09...D38	10	LAD9P3 ⁽²⁾	
	D40A...D80A	D40A...D80A	1	LAD9P33	
	D80, D95	D80, D95	1	LA9D80962	
Staggered coil connection		DT20, DT25	DT20, DT25	2	LA9D1263
		D80	D80	2	LA9D80963
Control circuit take-off from main pole		–	D80	10	LA9D09966
		D80, D95	D80, D95	10	LA9D8067
		D115, D150	D115, D150	10	LA9D11567
Spreaders for increasing the pole pitch to 45 mm		D115, D150	D115, D150	3	GV7AC03

(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.

Contactors



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GV2G245



PB121388.eps
PB121389.eps
GV1G09 GV3S



PB123823.eps
LAD9ET1



PB123804.eps
LAD9ET1S



PB123824.eps
LAD21...22



PB123825.eps
LAD90



PB121374.eps
LAD7X3

Sets of contacts and arc chambers

Description	For contactor	Reference
Sets of contacts	3-pole	LC1D115 LA5D1158031
		LC1D150 LA5D150803
	4-pole	LC1D115004 LA5D115804
Arc chambers	3-pole	LC1D115 LA5D11550

Power connection accessories

Terminal block	For supply to one or more GV2G busbar sets	GV1G09
Set of 63 A busbars for parallelling of contactors	2 contactors LC1D09...D18 or D25...D38	GV2G245
	4 contactors LC1D09...D18 or D25...D38	GV2G445
Set of 115 A busbars for parallelling of contactors	2 contactors LC1D40A...D80A	GV3G264
	3 contactors LC1D40A...D80A	GV3G364 ⁽¹⁾
Set of S-shape busbars	For circuit breakers GV3P●● and GV3L●● ⁽³⁾ and contactors LC1D40A...D73A	GV3S

Protection accessories

Description	Use	Sold in lots of	Reference
Sealing cover	For LADT, LADR	1	LA9D901
Safety cover preventing access to the moving contact carrier	LC1D09...D80A and DT20...DT80A	1	LAD9ET1
	Red cover (for safety chain indication)	1	LAD9ET1S
	Red cover (for safety chain indication)	1	LAD9ET3S
	LC1D115 and D150	1	LAD9ET4
	Red cover (for safety chain indication)	1	LAD9ET4S

Marking accessories

Description	Use	Sold in lots of	Unit reference
Sheet of 64 blank legends, self-adhesive, 8 x 33 mm ⁽²⁾	Contactors (except 4P) LC1D80...D115, 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, LC1D80...D115, LA6DK	100	LA9D92
Marker holder snap-in, 8 x 18 mm	LC1D09...D65A, LC1DT20...DT80A, LADN (4 contacts), LADT, LADR	100	LAD90
Bag of 300 blank legends self-adhesive, 7 x 21 mm	On holder LA9D92	1	LA9D93

Mounting accessories

Retrofit plate for screw fixing	For replacement of LC1D40 to D80 with LC1D40A to D80A	1	LAD7X3
Mounting plate	For replacement of LC1F115 or F150 with LC1D115 or D150	1	LA9D730
Size 4 Allen key, insulated, 1000 V	For use on contactors LC1D40A to LC1D150	5	LADALLEN4

⁽¹⁾ With this set of busbars, any one contactor can be supplied directly by its EverLink® double cage power terminal block. The other two contactors are supplied by the busbar set. The 115 A limitation is therefore applied to these two contactors. Example: 1 LC1D65A supplied directly + 1 contactor LC1D65A and 1 contactor LC1D50A supplied via the busbar set = 115 A. This combination is compatible with busbar set GV3G364.

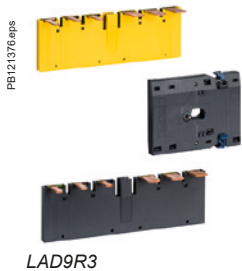
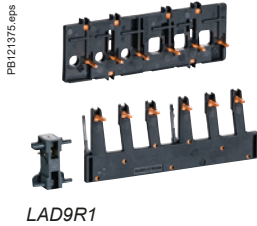
⁽²⁾ These legends are for sticking onto the safety cover of the contactors or add-on block, if fitted.

⁽³⁾ With 73 A current limit for GV3L73, GV3P73.

TeSys Control

Deca Contactors - Assembly kits

Product references



For 3-pole reversing contactors for motor control

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

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).	LC1D09 to D38	LAD9R1V
Kit comprising: ■ a mechanical interlock LAD9V2 without electrical interlocking ■ a set of power connections LAD9V5 (parallel) and LAD9V6 (reversing).	LC1D09 to D38	LAD9R1
Kit comprising: ■ a mechanical interlock LAD4CM ■ a set of power connections LA9D65A69 .	LC1D40A to D80A	LAD9R3

Mechanical interlocks

Mechanical interlock with integral electrical interlocking	LC1D80 and D95 (~)	LA9D4002
	LC1D80 and D95 (---)	LA9D8002
	LC1D115 and D150	LA9D11502
Mechanical interlock without integral electrical interlocking	LC1D09 to D38	LAD9V2
	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.	LC1D09 to D38 with screw clamp terminals or connectors	LAD9V5 + LAD9V6
	LC1D09...D32 with spring terminal connections	LAD9V12 + LAD9V13 ⁽²⁾
	LC1D40A to D80A	LA9D65A69
	LC1D80 and D95 (~)	LA9D8069
	LC1D80 and D95 (---)	LA9D8069
	LC1D115 and D150	LA9D11569

For star-delta starter

Description	For contactors	Reference	Without timer LADS2
Mounting kit comprising: ■ 1 time delay contact block LADS2 (LC1D09...D80) , ■ power circuit connections (LC1D09...D80), ■ hardware required for fixing the contactors onto the mounting plate (LC1D80).	LC1D09 to D38 ⁽³⁾	LAD91217	LAD91218
	LC1D25 to D38 ⁽⁴⁾	LAD93217	LAD93218
	LC1D40A to D80A	LAD9SD3	-
Equipment mounting plates	LC1D80	LA9D8017	-
	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**.



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Contactors

TeSys Control

Deca Contactors - Assembly kits

Product references

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LADT9R1V

PB121381.eps



LA9D50978



PB121380.eps



LA9D8070

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

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 LAD9V2 with electrical interlocking LAD9V1, ■ a set of power connections (changeover) LAD9V7.	LC1DT20 to DT40 with screw clamps or connectors	LADT9R1V

Kit comprising: ■ a mechanical interlock LAD9V2 without electrical interlocking, ■ a set of power connections (changeover) LAD9V7.	LC1DT20 to DT40 with screw clamps or connectors	LADT9R1
--	---	---------

Mechanical interlocks

With integral electrical interlocking	LC1D80004	LA9D4002
	LP1D80004	LA9D8002
	LC1D115004	LA9D11502
Without integral electrical interlocking	LC1DT20 to DT40 with screw clamps or connectors	LA9D9V2 ⁽²⁾
	LC1DT203 to DT403 with spring terminals	LA9D9V2 ⁽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.

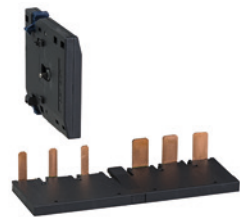
Description	For contactors ⁽¹⁾ (2 identical contactors)	Reference
Kits for assembly of changeover contactor pairs		
Kit comprising: ■ a mechanical interlock LAD4CM ■ a set of parallel bars LA9D65A6	LC1D40A...D80A	LAD9R3S
Mechanical interlocks		
Without integral electrical interlocking	LC1D40A...D80A	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 LADN●1 to build the electrical interlock, see page B8/36.

Contactors

PB121382.eps



LAD9R3S



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LXD1●●

a.c coils for ~ contactors LC1D09...D38 and LC1DT20...DT40

Specifications

Average consumption at 20 °C:

- inrush ($\cos \phi = 0.75$) 70 VA,
- sealed ($\cos \phi = 0.3$) 50 Hz: 7 VA, 60 Hz: 7.5 VA.

Operating range ($\theta \leq 60$ °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	H	
			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).



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LXD3●●

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

Specifications

Average consumption at 20 °C:

- inrush ($\cos \phi = 0.75$) 160 VA,
- sealed ($\cos \phi = 0.3$) 50 Hz: 15 VA, 60 Hz: 15 VA.

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

Control circuit voltage Uc	Average resistance at 20 °C $\pm 10\%$	Inductance of closed circuit	Reference ⁽¹⁾
V	Ω	H	
			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).

PB121385.eps



LX1D6●●

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

Specifications

Average consumption at 20 °C:

■ inrush ($\cos \phi = 0.75$) 50 Hz: 200 VA, 60 Hz: 220 VA

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

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

Control circuit voltage Uc	Average resistance at 20°C ±10 %	Inductance of closed circuit	Reference ⁽¹⁾	Average resistance at 20 °C ±10 %		Inductance of closed circuit	Reference ⁽¹⁾
				Ω	H		
V	Ω	H		Ω	H		
			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 ($\cos \phi = 0.75$) 50/60 Hz: 245 VA at 50 Hz

■ sealed ($\cos \phi = 0.3$) 50/60 Hz: 26 VA at 50 Hz.

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

Control circuit voltage Uc	Average resistance at 20°C ±10 %	Inductance of closed circuit	Reference ⁽¹⁾	Average resistance at 20 °C ±10 %		Inductance of closed circuit	Reference ⁽¹⁾
				Ω	H		
V	Ω	H		Ω	H		
						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	

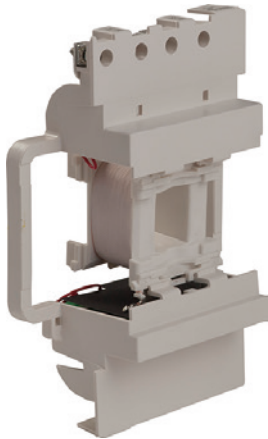
(1) The last 2 digits in the reference represent the voltage code.

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

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

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

PE121366.eps



LX1D8●●

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

Specifications

Average consumption at 20 °C:

■ inrush (cos ϕ = 0.8) 50 or 60 Hz: 300 VA

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

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

Control circuit voltage Uc	Average resistance at 20 °C ± 10 %	Inductance of closed circuit	Reference ⁽¹⁾	Average resistance at 20 °C ± 10 %	Inductance of closed circuit	Reference ⁽¹⁾
V	Ω	H		Ω	H	
			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 ($\theta \leq 55$ °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 ⁽¹⁾	Average resistance at 20 °C ± 10 %	Inductance of closed circuit	Reference ⁽¹⁾
V	Ω	H		Ω	H	
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.

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

Specifications

Average consumption: 22 W.

Operating range: 0.85...1.1 Uc.

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

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

PB12.1307.4ps



LX4D7JD

Contactors

d.c. coils for contactors LC1D115, D150

Specifications

Consumption: inrush 270 to 365 W, sealed 2.4 to 5.1 W.

Operating range: 0.75...1.2 U_c.

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



LX4D8●D

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

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

TeSys Control

Modular Contactors

Product references



GC2520



GC4040



GC10020

Modular Contactors - 17.5 mm pitch for modular panels								
No. of poles	Number of 17.5 mm modules	Commercial reference 50 Hz coil - different voltages					Sold in lots of	
		12 V	24 V	48 V	110 V	220/240 V		
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	–	–
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
–	4	3	–	–	GC6304B5	–	–	GC6304M5 4
2	–	2	–	–	–	–	–	GC6320M5 6
3	–	3	–	–	–	–	–	GC6330M5 ★ 4
4	–	3	–	–	GC6340B5	GC6340E5	–	GC6340M5 ★ 4
Maximum current rating category AC-7a - 100 A								
2	–	3	–	–	–	–	–	GC10020M5 4
4	–	6	–	–	GC10040B5	–	–	GC10040M5 ★ 2

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



Contactors

TeSys Control

Modular "Dual tariff" contactors

Product references



GY2520M5



GY6340M5

Modular "dual tariff" contactors - 17.5 mm pitch for modular panels							
No. of poles	Number of 17.5 mm modules	Commercial reference 50 Hz coil - different voltages					Sold in lots of
		12 V	24 V	48 V	110 V	220/240 V	
Maximum current rating category AC-7a - 16 A							
2	1	–	GY1620B5	–	–	GY1620M5	12
4	2	–	–	–	–	GY1640M5	6
Maximum current rating category AC-7a - 25 A							
2	1	–	–	–	–	GY2520M5 ★	12
4	2	–	–	–	–	GY2540M5	6
Maximum current rating category AC-7a - 40 A							
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

Product references

D043251.eps



GF1620B7

Modular impulse relays - 17.5 mm pitch for modular panels

Maximum current rating category AC-1	Composition	Coil voltages		Sold in lots of	Unit reference	
		~ 50/60 Hz	DC			
16	2 -	V	V	12	GF1620J7	
		12	6			
		24	12			
		110	48			
	1 1	1 1	230/240	110	12	GF1620U7
			12	6	12	GF1611J7
			24	12	12	GF1611B7
			220	-	12	GF1611M7
		230/240	110	12	GF1611U7	



Contactors

TeSys Control

Modular Contactors - Accessories

Product references



GAP23

Instantaneous auxiliary contact blocks					
Number of contacts	Number of poles			Reference	
2					
	1	1	-	GAC0521	
	-	2	-	GAC0531	
-	-	1	GAC0511		



GAC5

Accessories					
Description	For use on contactor	Number of modules	Operational voltage in V	Sold in lots of	Unit reference
Coil suppression blocks comprising 2 RC circuits	-	1	12...48	1	GAP21
	-	-	110...240	1	GAP23
Ventilation 1/2 module clips onto rail	-	1/2	-	10	GAC5
Set of screw shields (10 top parts + 10 bottom parts)	40 or 63 A	2 contacts	-	1	A9A15922
	40 or 63 A	3 or 4 contacts	-	1	A9A15923



A9A15922



A9A15923



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
GAC0521	GV2G254	LA4DE2E	LA9D65A6	LAD8N11	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	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
GC2520M5	LA1KN113	LA6DK20M	LAD4BB3	LAD9ET3S	LADN406
GC2520M6	LA1KN11M	LA6DK20Q	LAD4BBVE	LAD9ET4	LADN40G
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	LAD4T3G	LAD9V11	LADT03
GC4020M5	LA1KN40	LA9D11570	LAD4T3R	LAD9V12	LADT06
GC4020M6	LA1KN403	LA9D115703	LAD4T3S	LAD9V13	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

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TeSys Control

Contactors

Product references

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
LC1D093P7	LC1D09Q7	LC1D115L7	LC1D12BNE	LC1D150Q7	LC1D18FL
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
LC1D096FD	LC1D09V7	LC1D115P7	LC1D12ED	LC1D17000M7CS003	LC1D18KUE
LC1D096FL	LC1D09W7	LC1D115Q7	LC1D12EHE	LC1D183B7	LC1D18L7
LC1D096G7	LC1D09X7	LC1D115R7	LC1D12EL	LC1D183BD	LC1D18LE7
LC1D096KD	LC1D09Y7	LC1D115RD	LC1D12F7	LC1D183BL	LC1D18M7
LC1D096L7	LC1D1150046BD	LC1D115S7	LC1D12FD	LC1D183E7	LC1D18MD
LC1D096M7	LC1D1150046F7	LC1D115SD	LC1D12FE7	LC1D183ED	LC1D18ML
LC1D096MD	LC1D1150046M5	LC1D115T6	LC1D12G7	LC1D183F7	LC1D18N7
LC1D096ND	LC1D1150046M7	LC1D115T7	LC1D12GD	LC1D183FE7	LC1D18ND
LC1D096P7	LC1D1150046N5	LC1D115U5	LC1D12JD	LC1D183FL	LC1D18P5
LC1D096Q7	LC1D1150046P7	LC1D115U7	LC1D12JL	LC1D183G7	LC1D18P7
LC1D096R7	LC1D1150046U5	LC1D115V7	LC1D12K7	LC1D183M7	LC1D18Q7
LC1D096SD	LC1D1150046U7	LC1D123B7	LC1D12KUE	LC1D183MD	LC1D18R7
LC1D096SL	LC1D115004B7	LC1D123BD	LC1D12L7	LC1D183P7	LC1D18SC7
LC1D0986FD	LC1D115004BD	LC1D123BL	LC1D12LE7	LC1D183U7	LC1D18SD
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Contactors

Product references

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Product references

LC2K09013P7	LC3D18AB7	LP1K0601ND	LP1K120043BD3	LP4K0610EW3	LX1D8F7
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