

TeSys Control

Deca Contactors

Product references



Characteristics:
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Dimensions:
p. B8/107 to B8/106

Schemes:
p. B8/111 to B8/112



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LC1D09●●



LC1D25●●



LC1D80A●●



LC1D95●●

3-pole contactors - Motor control up to 45 kW at 400 V, in category AC-3/AC-3e

Standard power ratings of 3-phase motors 50-60 Hz in category AC-3/AC-3e (θ ≤ 60 °C)								Rated operational current in AC-3/AC-3e 440 V up to	Instantaneous 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 230 V 400 V 690 V											Fixing ⁽²⁾		
kW	kW	kW	kW	kW	kW	kW	A						
Connection by screw clamp terminals													
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	

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 B8/43 to B8/51.

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

AC supply

Volts	24	42	48	110	115	220	230	240	380	400	415	440	500
LC1D09...D95													
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...D95													
50 Hz	B5	D5	E5	F5	FE5	M5	P5	U5	Q5	V5	N5	R5	S5
60 Hz	B6	—	E6	F6	—	M6	—	U6	Q6	—	—	R6	—

DC 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	—	—

Low consumption DC (for low consumption AC/DC: Deca Advanced contactors, page B8/24)

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 B8/55 to B8/57.

(1) Please check the availability of your variant in the index page B8/63. 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.

(3) The weights indicated are for contactors with AC control circuit. For DC 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 B8/51).

(5) For these coil voltages, choose from Deca Advanced contactors. Same product ref. radical, just add BBE coil voltage code for 24 V DC, BNE for 24-60 V AC/DC, EHE for 48-130 V AC/DC, KUE for 100-250 V AC/DC. Example: LC1D40ABBE.

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LC1D123●●



LC1D80A3●●

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

Standard power ratings of 3-phase motors
50-60 Hz in category AC-3/AC-3e
($\theta \leq 60^\circ\text{C}$)

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

Instantaneous
auxiliary
contacts

Basic reference,
to be completed by adding
the control voltage code ⁽¹⁾
Fixing ⁽²⁾

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

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	11	11	11	15	15	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	40	1	1	LC1D40A3●●
15	22	25	30	30	33	50	1	1	LC1D50A3●●
18.5	30	37	37	37	37	65	1	1	LC1D65A3●●
22	37	37	37	37	37	66	1	1	LC1D80A3●●

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 B8/43 to B8/51.

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

AC 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

DC 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 B8/55 to B8/57.

⁽¹⁾ Please check the availability of your variant in the index page B8/63. 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 B8/51).

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LC1D09●●



LC1D80A●●

3-pole contactors - Load control from 25 to 125 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				kg
Connection by screw clamp terminals				
25	3	1 1	LC1D09●● or LC1D12●●	0.320 0.325
32	3	1 1	LC1D18●●	0.330
40	3	1 1	LC1D25●●	0.370
50	3	1 1	LC1D32●● or LC1D38●●	0.375 0.380
Connection by EverLink®, BTR screw connectors ⁽⁴⁾				
60	3	1 1	LC1D40A●●	0.850
80	3	1 1	LC1D50A●● or LC1D65A●● ⁽⁵⁾ or LC1D80A●● ⁽⁵⁾	0.855 0.860 0.860
Connection by screw clamp terminals or connectors				
125	3	1 1	LC1D80●● or LC1D95●● ⁽⁵⁾	1.590 1.610

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)

AC supply

Volts	24	42	48	110	115	220	230	240	380	400	415	440	500
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LC1D09...D95

50/60 Hz	B7	D7	E7	F7	FE7	M7	P7	U7	Q7	V7	N7	R7	S7
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LC1D09...D65 (not available with "connection for lugs or bars")

50 Hz	B5	D5	E5				P5						
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LC1D80 and D95

50 Hz	B5	D5	E5	F5	FE5	M5	P5	U5	Q5	V5	N5	R5	S5
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60 Hz	B6	—	E6	F6	—	M6	—	U6	Q6	—	—	R6	—
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DC supply

Volts	12	24	36	48	60	72	110	125	220	250	440
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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
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LC1D40A...D65A (coils with integral suppression device fitted as standard, by bi-directional peak limiting diode)

U 0.75...1.25 Uc	JD	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)	RD
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LC1 or LP1D80 and D95

U 0.85...1.1 Uc	JD	BD	CD	ED	ND	SD	FD	GD	MD	UD	RD
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U 0.75...1.2 Uc	JW	BW	CW	EW	—	SW	FW	—	MW	—	—
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Low consumption

Volts DC	5	12	20	24	48	110	220	250
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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
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For other voltages between 5 and 690 V,
see pages B8/55 to B8/57.

- (1) Please check the availability of your variant in the index page B8/63. 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.
- (3) The weights indicated are for contactors with AC control circuit. For DC 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 B8/51).
- (5) Coordination tables according to the number of operating cycles, see AC-1 curve, page A5/114.
- (6) For these coil voltages, choose from Deca Advanced contactors. Same product ref. radical, just add BBE coil voltage code for 24 V DC, BNE for 24-60 V AC/DC, EHE for 48-130 V AC/DC, KUE for 100-250 V AC/DC. Example: LC1D40ABBE.



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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⁾ Fixing ⁽²⁾	Weight ⁽³⁾
A				kg

Connection by spring terminals

16	3	1	1	LC1D093●● ⁽⁴⁾	0.320
				or LC1D123●● ⁽⁴⁾	0.325
25	3	1	1	LC1D183●● ⁽⁵⁾	0.335
				or LC1D253●● ⁽⁶⁾	0.325
				or LC1D323●● ⁽⁶⁾	0.325

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⁾	0.855
				or LC1D65A3●● ⁽⁸⁾	0.860
				or LC1D80A3●● ⁽⁸⁾	0.860

3-pole contactors for connection by Faston connectors

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

Separate components

Auxiliary contact blocks and add-on modules: see pages B8/43 to B8/51.

Standard control circuit voltages

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

AC supply

Volts AC	24	42	48	110	115	220	230	240	380	400	415	440	500
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LC1D09...D80A

50/60 Hz	B7	D7	E7	F7	FE7	M7	P7	U7	Q7	V7	N7	R7	S7
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DC supply

Volts DC	12	24	36	48	60	72	110	125	220	250	440
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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
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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
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Low consumption

Volts DC	5	12	20	24	48	110	220	250
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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
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For other voltages between 5 and 690 V, see pages B8/55 to B8/57.

⁽¹⁾ Please check the availability of your variant in the index page B8/63. 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 AC control circuit. For DC 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 B8/51).

⁽⁸⁾ Coordination tables according to the number of operating cycles, see AC-1 curve, page A5/114.