

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.

Available in



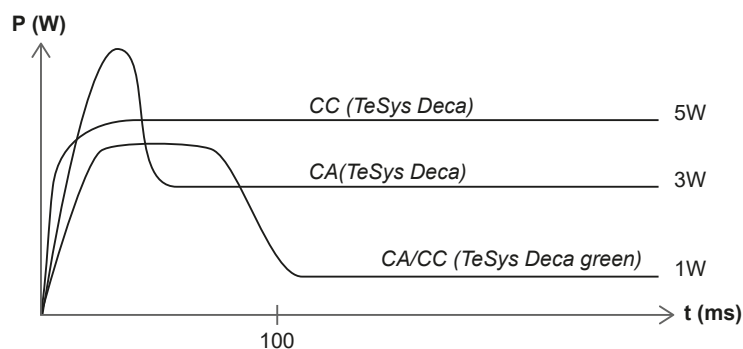
09-12-18 A

25-32-38 A

40-50-65-80 A

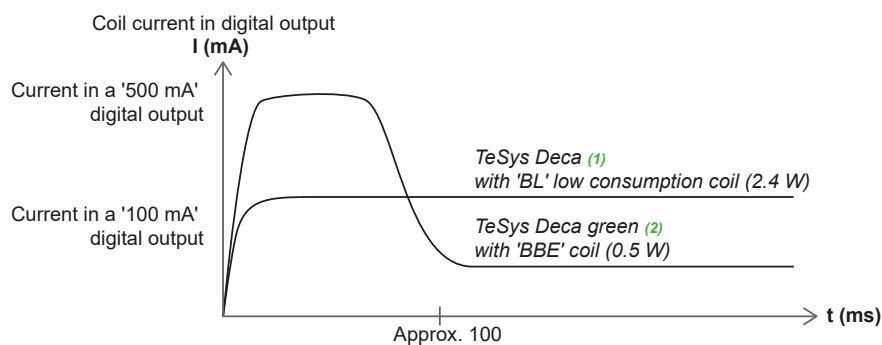
Coil currents comparison

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.



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 opera- tional 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
220 V 230 V	380 V 400 V	415 V	440 V	500 V	660 V 690 V	A		Fixing ⁽²⁾	

kW	kW	kW	kW	kW	kW	A			kg
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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 NSYSDR or screw fixing.

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



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 (θ ≤ 60 °C)								Rated opera- tional current in AC-3 440 V up to			Basic reference, to be completed by adding the control voltage code ⁽¹⁾		Weight ⁽³⁾
											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	
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**.