Low voltage
Extract from **TeSys** Catalogue | 2022

TeSys Control

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

Life Is On | Schneider Electric

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

Chapter B8

TeSys SK, K contactors

TeSys S207 series contactors for railways applications.
Click on image to download.

TeSys S335 series contactors for electrodomestic application.
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TeSys Deca contactors

Modular 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 auxilliary contact block, LP1SK and LC1SKGC contactors can't.

PB111641.eps

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 230 V	380 V 415 V	660 V 690 V					
kW	kW	kW	A				
1.1	2.2	2.2	6	2	–	–	**LC1SK0600●●**

Mini-contactors for motor in category AC-1

Non inductive loads maximum current (θ ⩽ 55 °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					
12	a.c.	2	–	–	**LC1SK0600●●**
	d.c.	2	–	–	**LP1SK0600●●**

*(1) For use in AC-3 category and 3-phase circuits, an **LA1SK●●** auxiliary contact block should be ordered separately for mounting on the contactor.*
(2) Standard control circuit voltages (variable delivery times, please consult your Regional Sales Office):

Mini-contactors LC1SK									
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.

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LA1SK01

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**

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LA4SK●1●

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●● LP1SK0600●●, LC1SKGC	Varistor (1)	∼ and ⎓ 24 V…48 V	10	**LA4SKE1E**
		∼ and ⎓ 110 V…250 V	10	**LA4SKE1U**
	Diode (2)	⎓ 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).

Characteristics: pages B8/62 to B8/65
Dimensions, schemes: page B8/66
Click **HERE** for access to online contactor selector

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.

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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 θ ≤ 50 °C	No. of poles			Basic reference, to be completed by adding the voltage code (1) (2)
220 V 230 V	380 V 415 V	660 V 690 V						
kW	kW	kW	A	A				
–	–	–	5	20	2	–	–	**LC1SKGC200●●**

PB111644.eps

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 θ ≤ 50 °C	No. of poles			Basic reference, to be completed by adding the voltage code (1) (2)
220 V 230 V	380 V 415 V	660 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

Characteristics: pages B8/67 to B8/69
Curves: page B8/70
Dimensions, schemes: page B8/71
Click **HERE** for access to online contactor selector

PB123779.tif

LC1K0910●●

PB123781.eps

LC1K09103●●

PB123783.eps

LC1K09107●●

PB123782.eps

LC1K09105●●

PB123786.eps

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)	**12**	1	-	**LC1K1210●●**
		5.5 (440)		-	1	**LC1K1201●●**
4	7.5	4 (> 440)	**16**	1	-	**LC1K1610●●**
		5.5 (440)		-	1	**LC1K1601●●**

Spring terminal connections (3)

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

Faston connectors, 1 x 6.35 or 2 x 2.8

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

Solder pins for printed circuit boards

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

3-pole silent contactors

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

Screw clamp 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)	**12**	1	-	**LC7K1210●●**
		5.5 (440)		-	1	**LC7K1201●●**

Faston connectors, 1 x 6.35 or 2 x 2.8

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

Solder pins for printed circuit boards

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

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

Coil voltage codes - a.c. (4)

Contactors LC1K (0.8…1.15 Uc) *(0.85…1.1 Uc)*

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, Ith max = 10 A.*
(4) (0.8…1.15 Uc) for single voltage coil; (0.85…1.1 Uc) for dual voltage coil, exemple 200/208 V AC.
(5) Only available for 'screw clamp terminals' versions.

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

PB123787.eps

LP1K0910●●

PB123789.eps

LP1K09103●●

PB123790.eps

LP1K09105●●

PB123792.eps

LP4K0910●●

Contactor selection according to utilisation category, see pages A5/34 to A5/39 and A5/42 to A5/45.
Mounting on 35 mm ⎓ rail or Ø4 screw fixing.
Screws in the open “ready-to-tighten” position.
Add-on auxiliary contact blocks and accessories, see pages B8/13 to B8/15.

3-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	Instan-taneous 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	–	**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), Ith max = 10 A.*

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


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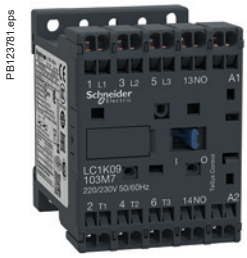
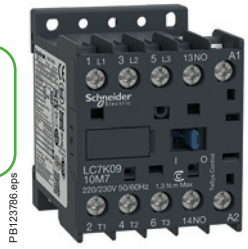
LC1K09004●●


PB123781.eps

LC1K09103●●


PB123783.eps

LC1K09107●●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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 θ ≤ 50 °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	–	**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**	**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, Ith max = 10 A.*
(5) (0.8…1.15 Uc) for single voltage coil; (0.85…1.1 Uc) for dual voltage coil, exemple 200/208 V AC.
(6) Only available for 'screw clamp terminals' versions.

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

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 θ ≤ 50 °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 ⎓	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 ⎓	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, ⎓ control circuit voltage code ZD) so as to compensate for the incurred voltage drop.*

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

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

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

PB123784.tif

LC2K0910●●

PB123785.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 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 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	–	**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●●**

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, Ith max = 10 A.*
(4) (0.8…1.15 Uc) for single voltage coil; (0.85…1.1 Uc) for dual voltage coil, exemple 200/208 V AC.

Contactors

Characteristics: pages B8/72 to B8/74
Dimensions: page B8/78
Schemes: page B8/79
Click **HERE** for access to online contactor selector

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 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	–	**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, Ith max = 10 A.*

Characteristics: pages B8/72 to B8/75
Dimensions: page B8/78
Schemes: page B8/79
Click HERE for access to online contactor selector

PB123784.tif

LC2K0910●●

PB123785.eps

LC2K09105●●

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 θ ≤ 50 °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	–		**LC2K0910●●**
					or	**LC2K1210●●**
	3	–	–	1		**LC2K0901●●**
					or	**LC2K1201●●**
	4	–	–	–		**LC2K09004●●**
					or	**LC2K12004●●**

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, Ith max = 10 A.*
(5) (0.8…1.15 Uc) for single voltage coil; (0.85…1.1 Uc) for dual voltage coil, exemple 200/208 V AC.

Contactors

Characteristics: pages B8/72 to B8/75
Dimensions: page B8/78
Schemes: page B8/79
Click **HERE** for access to online contactor selector

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 θ ≤ 50 °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 Uc), suppressor fitted as standard, consumption 1.8 W.

Screw clamp connections						
20	3	–	1	–		**LP5K0910●●●**
					or	**LP5K1210●●●**
	3	–	–	1		**LP5K0901●●●**
					or	**LP5K1201●●●**
	4	–	–	–		**LP5K09004●●●**
					or	**LP5K12004●●●**

Spring terminal connections

In the references selected above, insert a figure **3** before the voltage code.
Example: **LP5K0910●●** becomes **LP5K09103●●**.

Faston connectors, 1 x 6.35 or 2 x 2.8

In the references selected above, insert a figure **7** before the voltage code.
Example: **LP5K0910●●** becomes **LP5K09107●●**.

Solder pins for printed circuit boards

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

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

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

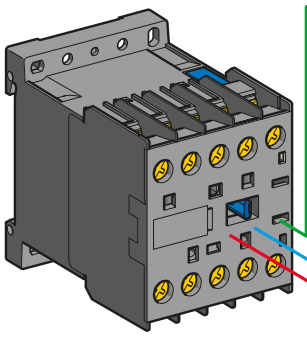
Coil voltage codes - low consumption d.c. (reversing contactors LP5K: 0.7…1.3 Uc)

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

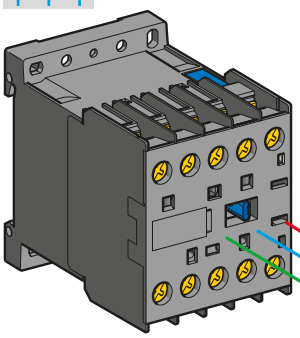
Coil with integral suppression device fitted as standard, by bi-directional peak limiting diode.
*(2) For **LP2K** only, when connecting an electronic sensor or timer in series with the contactor coil, select a 20 V coil (∿ control circuit voltage code Z7, ⎓ control circuit voltage code ZD) so as to 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, Ith max = 10 A.*

Characteristics: pages B8/72 to B8/75
Dimensions: page B8/78
Schemes: page B8/79
Click **HERE** for access to online contactor selector

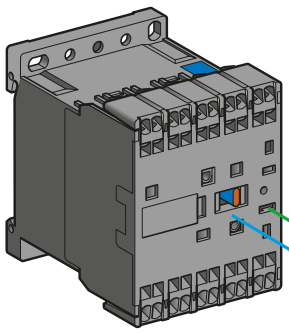
DB439406.eps



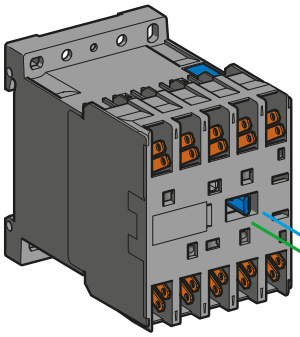
LC1, LC7, LP1 K



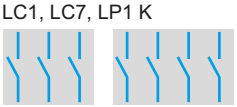
LC1, LC7, LP1 K

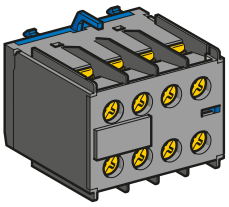


LC1, LP1 K

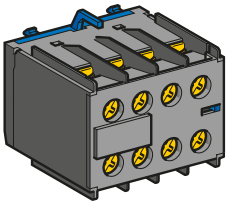


LC1, LC7, LP1 K

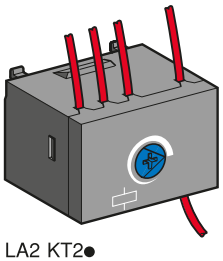




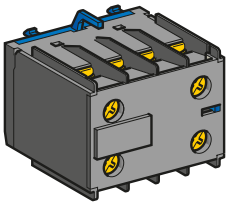
LA1 KN●●M



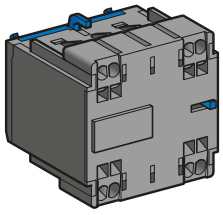
LA1 KN●●



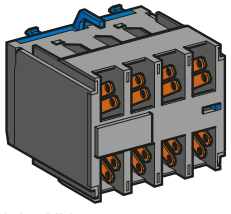
LA2 KT2●



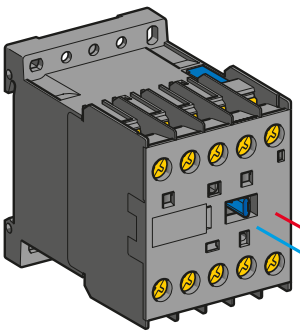
LA1 KN●●P



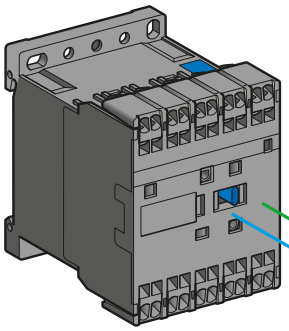
LA1 KN●●3



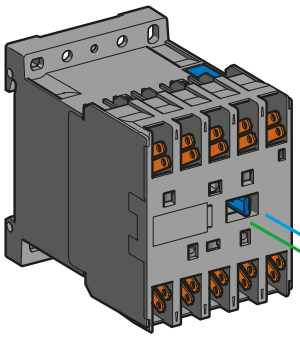
LA1 KN●●7



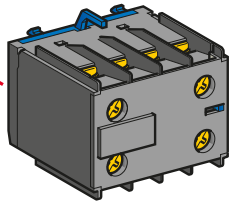
LP4



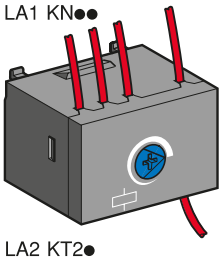
LP4



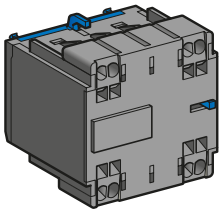
LP4



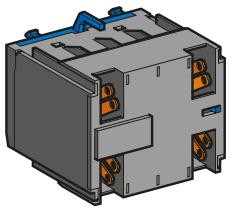
LA1 KN●●



LA2 KT2●



LA1 KN●●3



LA1 KN●●7

Product references

PB121750_R.tif

LA1KN22

PB123817.eps

LA1KN223

PB123818.eps

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**
	All products with screw clamp terminals except low consumption	4	–	**LA1KN40**
		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**
	All products with spring terminals except low consumption	4	–	**LA1KN403**
		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 conforming to standard EN 50012	All 3-pole + N/O products with screw clamp terminals except LP4 and LP5K12	–	2	**LA1KN02M**
		1	1	**LA1KN11M**
	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, ∿ or ⎓ 240 V, 2 A maximum.
Control voltage 0.85…1.1 Uc.
Maximum switching capacity 250 VA or 150 W.
Operating temperature -10…+60 °C.
Reset time: 1.5 s during the time delay period, 0.5 s after the time delay period.

Clip-on front mounting, 1 block per contactor

Voltage	Type	Timing range	Composition	Reference
V		s		
∿ or ⎓ 24…48	On-delay	1…30	1	**LA2KT2E**
∿ 110…240	On-delay	1…30	1	**LA2KT2U**

Contactors

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

Product references

PB123798_R.eps

LA4K●●●

References

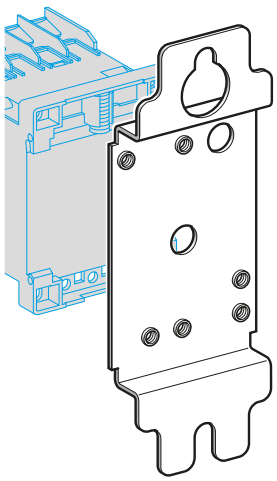
Mounting and connection	Type	For voltages	Sold in lots of	Unit reference
Clip-on fixing on the front of contactors LC1 and LP1, with locating device. No tools required.	Varistor (1)	∿ and ⎓ 12…24 V	5	**LA4KE1B**
		∿ and ⎓ 32…48 V	5	**LA4KE1E**
		∿ and ⎓ 50…129 V	5	**LA4KE1FC**
		∿ and ⎓ 130…250 V	5	**LA4KE1UG**
	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).

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

Product references

DF566019.eps



DX1AP25

PB121398.eps

LA9E01

Mounting and marking accessories

Description	Application		Sold in lots of	Unit reference
Mounting plates (1)	For fixing on 2 ⊏⊐ rails	110/120 mm fixing centres	10	**DX1AP25**
Marker holder	Clip-on	Onto front of contactor	100	**LA9D90**
Clip-in markers	4 maximum per contactor	Strips of 10 identical numbers 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.

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

> Ref. Document: CPTG011_EN

> Click on QR code to download

Dimensions:
pages B8/76 and B8/78

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.

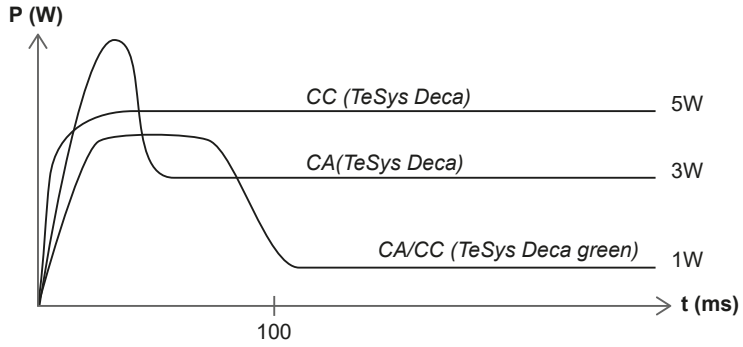
Highly competitive coil consumption

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

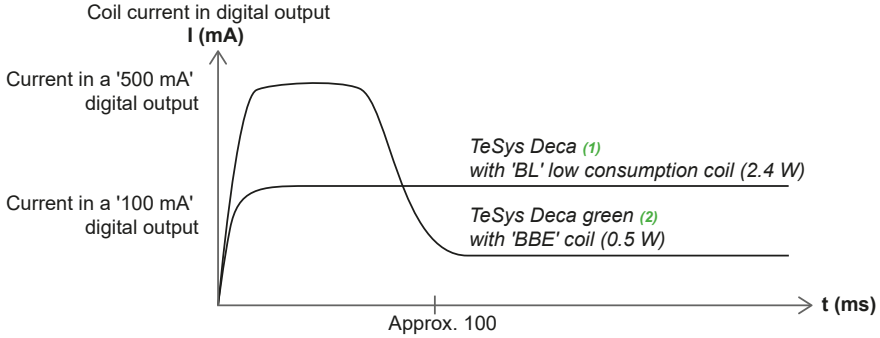
Coil currents comparison

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.

Product references

PB121708.tif

LC1D09●●●

PB121710.tif

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 (θ ≤ 60 °C)						Rated operational current in AC-3 440 V up to	Instantaneous 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 **NSYSDR** or screw fixing.*
(3) BTR screws: hexagon socket head. In accordance with local electrical wiring regulations, a size 4 insulated Allen key must be used (reference LADALLEN4, see B8/42).

Contactors

Characteristics: pages B8/80 to B8/87
Curves: page B8/90
Dimensions: pages B8/98 to B8/100
Schemes: pages B8/101 and B8/102
Click **HERE** for access to online contactor selector

Product references

PB121708.tif

LC1D09●●●

PB121710.tif

LC1D40A●●●

PB121712.eps

LC1DT60A●●●

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

Contactors

Characteristics: pages B8/80 to B8/87
Curves: page B8/90
Dimensions: pages B8/98 to B8/100
Schemes: pages B8/101 and B8/102
Click **HERE** for access to online contactor selector

Product references

PB121708.tif

LC1D09●●●

PB121710.tif

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]
Single-phase 1 Ø		3-phase 3 Ø						Fixing, connection [2]
115 V	230 V 240 V	200 V 208 V	230 V 240 V	460 V 480 V	575 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 **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).*

Contactors

Characteristics: pages B8/80 to B8/87
Curves: page B8/90
Dimensions: pages B8/98 to B8/100
Schemes: pages B8/101 and B8/102
Click **HERE** for access to online contactor selector

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●●,	BL, BNE
					LC1D40A●●● to LC1D80A, LC1DT60A●●● to LC1DT80A●●●	BBE
		0.3 (sealed) 0.8 (inrush)	TM3XTYS4	>>>	LC1D40A●●● to LC1D80A, LC1DT60A●●● to LC1DT80A●●●	BBE, BD, BNE
		0.1	TM3DQ16●● and Q32●● (TK, UK)	>>>	LC1D09●● to LC1D38●●	BL
	Relay output: 24 V DC / 230 V AC	2	TM3DQ8 and DQ16 (R,RG), TM3DM8 and DM24 (R,RG)	>>>	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●●	BL, BNE
					LC1D40A●●● to LC1D80A, LC1DT60A●●● to LC1DT80A●●●	BBE
		0.1	BMXDDO3202, BMXDDM3202K, BMXDDO6402K	>>>	LC1D09●● to LC1D38●●	BL
	Relay output: 24 V DC / 230 V AC	2	BMXDRA0805 and DM16025	>>>	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●●	BL, BNE
					LC1D40A●●● to LC1D80A, LC1DT60A●●● to LC1DT80A●●●	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**.*

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LC1D09●●

PB121706.tif

LC1D25●●

PB121707.tif

LC1D80A●●

PB123774.tif

LC1D95●●

PB123775.tif

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 operational current in AC-3 440 V up to	Instantaneous auxiliary contacts		Basic reference, to be completed by adding the control voltage code [1] / Fixing [2]	Weight [3]
220 V 230 V	380 V 400 V	415 V	440 V	500 V	660 V 690 V	1000 V					
kW	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●●**	0.320
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 NSYSDR *or screw fixing.*
LC1D80 to D95 ∿: clip-on mounting on 35 mm ⊔ rail NSYSDR *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 NSYSDR *or screw fixing.*

*(3) The weights indicated are for contactors with a.c. control circuit. For d.c. or low consumption control circuit, add 0.160 kg from **LC1D09** to **D38**, 0.075 kg from **LC1D40A** to **D80A** and 1 kg for **LC1D80** and **D95**.*

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

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

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

PB121713.tif

LC1D123●●

PB121723.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 (θ ≤ 60 °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 230 V	380 V 400 V	415 V	440 V	500 V	660 V 690 V	1000 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		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 B8/36 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 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 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

PB121681.eps

LC1D09●●

PB121723.eps

LC1D80A●●

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

Non inductive loads maximum current ($\theta \leq 60$ °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					
25	3	1	1	**LC1D09●●**	0.320
				or **LC1D12●●**	0.325
32	3	1	1	**LC1D18●●**	0.330
40	3	1	1	**LC1D25●●**	0.370
50	3	1	1	**LC1D32●●**	0.375
				or **LC1D38●●**	0.380
Connection by 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

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

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

*(2) **LC1D09** to **D80A**: clip-on mounting on 35 mm ⊔ rail **NSYSDR** or screw fixing.*
***LC1D80** and **D95** ∿: clip-on mounting on 35 mm ⊔ rail **NSYSDR** or 75 mm ⊔ rail **AM1DL** or screw fixing.*
***LC1** or **LP1D80** to **D95** ⎓: clip-on mounting on 75 mm ⊔ rail **AM1DL** or screw fixing.*
***LC1D115** and **D150**: clip-on mounting on 2 x 35 mm ⊔ rails **NSYSDR** or screw fixing.*

*(3) The weights indicated are for contactors with a.c. control circuit. For d.c. or low consumption control circuit, add 0.160 kg from **LC1D09** to **D38**, 0.075 kg from **LC1D40A** to **D80A** and 1 kg for **LC1D80** and **D95**.*

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

(5) 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**.*

Product references

PB121713.tif

LC1D123●●

PB121723.eps

LC1D80A3●●

3-pole contactors - Load control from 16 to 80 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) / 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 B8/36 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 **NSYSDR** or screw fixing.*

*(3) The weights indicated are for contactors with a.c. control circuit. For d.c. or low consumption control circuit, add 0.160 kg from **LC1D09** to **D38** and 0.075 kg from **LC1D40A** to **D80A**.*

(4) 20 A with 2 x 2.5 mm² cables connected in parallel.

(5) 32 A with 2 x 4 mm² cables connected in parallel.

(6) 40 A with 2 x 4 mm² cables connected in parallel.

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

(8) Coordination tables according to the number of operating cycles, see AC-1 curve, page A5/40.

Contactors

PB121714.tif

LC1DT20●●

PB121715.tif

LC1DT80A●●

PB123776.eps

LC1D65008●●

4-pole contactors - Load control, 20 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) / 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 **NSYSDR** or screw fixing.*
*__LC1D80__ ∿: clip-on mounting on 35 mm ⊔ rail **NSYSDR** 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 **NSYSDR** or screw fixing.*

*(3) The weights indicated are for contactors with a.c. control circuit. For d.c. or low consumption control circuit, add 0.160 kg from **LC1D09** to **D38**, 0.075 kg from **LC1DT60A** and **D80A** and 1 kg for **LC1D80**.*

*(4) For these coil voltages, choose from Deca green contactors. Same product ref. radical, just add BBE coil voltage code for 24 V DC, BNE for 24-60 V AC/DC, EHE for 48-130 V AC/DC, KUE for 100-250 V AC/DC. Exemple: **LC1DT60ABBE**.*

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

PB121716.tif

LC1DT253●●

PB121715.tif

LC1DT80A3●●

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

Non inductive loads maximum current ($\theta \leq 60$ °C) utilisation category AC-1	Number of poles		Instantaneous auxiliary contacts		Basic reference, to be completed by adding the voltage code (1) / Fixing (2)	Weight (3)
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
LC1D09...D25 and LC1DT20...DT80A (coils with integral suppression device fitted as standard, by bi-directional peak limiting diode)													
50/60 Hz	B7	D7	E7	F7	FE7	M7	P7	U7	Q7	V7	N7	R7	–

d.c. supply

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 0.7…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 **NSYSDR** or screw fixing.*

*(3) The weights indicated are for contactors with a.c. control circuit. For d.c. or low consumption control circuit, add 0.160 kg from **LC1D09** to **D38**, 0.075 kg for **LC1DT60A** and **DT80A**.*

Contactors

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

PB121681.eps

LC1D09●●

PB121706.tif

LC1D25●●

PB121707.tif

LC1D80A●●

PB123774.eps

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)
Single-phase 1 Ø		3-phase 3 Ø						Fixing, connection (2)
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	U7	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 ⊥ rail **NSYSDR** or screw fixing.*
__LC1D80__ and __LC1D95__: clip-on mounting on 35 mm ⊥ rail __NSYSDR__ or 75 mm ⊥ rail __AM1DL__ or screw fixing.
__LC1D115__ and __D150__: clip-on mounting on 2 x 35 mm ⊥ rails __NSYSDR__ or screw fixing.
(3) Versions with spring terminals __LC1D323__ and __LC1D383__ are not certified UL/CSA.
(4) Contactors __LC1D40A__, __50A__, __65A__, __80A__: for this coil voltage use is only on 60 Hz.
(5) For these coil voltages, choose from Deca green contactors. Same product ref. radical, just add BBE coil voltage code for 24 V DC, BNE for 24-60 V AC/DC, EHE for 48-130 V AC/DC, KUE for 100-250 V AC/DC. Exemple: __LC1D40ABBE__.

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

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LC2D12●●

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 (θ ≤ 60 °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 control voltage code [1]	Weight [3]
220 V 230 V	380 V 400 V	415 V	440 V	500 V	660 V 690 V	1000 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 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

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LC2D65A●●

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LC2D1156●●

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 Uc	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 Uc	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 Uc	AL	JL	ZL	BL	EL	FL	ML	UL

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

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

*(2) LC2D09 to D65A: clip-on mounting on 35 mm ⊔ rail **NSYSDR** or screw fixing.*
*LC2D80 and D95: clip-on mounting on 35 mm ⊔ rail **NSYSDR** or 75 mm ⊔ rail **AM1DL** or screw fixing.*
*LC2D115 and D150: clip-on mounting on 35 mm ⊔ rail **NSYSDR** or screw fixing.*

*(3) The weights indicated are for contactors with a.c. control circuit. For d.c. or low consumption control circuit, add 0.330 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.*

Characteristics: pages B8/80 to B8/87
Dimensions: pages B8/103 and B8/104
Schemes: pages B8/105 and B8/106
Click **HERE** for access to online contactor selector

PB121718.tif

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 (θ ≤ 60 °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	660 V 690 V				Fixing [2]	
kW	kW	kW	kW	kW	kW	A				kg
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 Uc	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 Uc	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 Uc	AL	JL	ZL	BL	EL	FL	ML	UL

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

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

*(2) LC2D09 to D32: clip-on mounting on 35 mm ⊔ rail **NSYSDR** or screw fixing.*

*(3) The weights indicated are for reversing contactors with a.c. control circuit. For d.c. or low consumption control circuit, add 0.330 kg for **LC2D09** to **D38**, 0.150 kg for **LC1D40A** to **D65A**.*

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

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

Contactors

Characteristics: pages B8/80 to B8/87
Dimensions: pages B8/103 and B8/104
Schemes: pages B8/105 and B8/106
Click HERE for access to online contactor selector

PB121719.eps

LC2DT20●●

PB123820.eps

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 ($\theta \leq 60$ °C)	Instantaneous auxiliary contacts per contactor		Contactors supplied with coil Basic reference, to be completed by adding the voltage code (1) (2) Fixing (3)	Weight
A				kg
20	1	1	**LC2DT20●●**	0.730
25	1	1	**LC2DT25●●**	0.730
32	1	1	**LC2DT32●●**	0.850
40	1	1	**LC2DT40●●**	0.850
125	–	–	**LC2D80004●●**	3.200
200	–	–	**LC2D115004●●**	7.400

For connection by 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 ⊥ rail **NSYSDR** or screw fixing.*
***LC2D80:** clip-on mounting on 35 mm ⊥ rail **NSYSDR** or 75 mm ⊥ rail **AM1DL** or screw fixing.*
***LC2D115**: clip-on mounting on 2 x 35 mm ⊥ rails **NSYSDR** or screw fixing.*
*(4) For these operational currents, order 2 identical contactors and a mechanical interlock **LAD4CM** (see page B8/43).*

Contactors

Characteristics: pages B8/80 to B8/87
Dimensions: pages B8/103 and B8/104
Schemes: pages B8/105 and B8/106
Click HERE for access to online contactor selector

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 (θ ≤ 60 °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 **NSYSDR** or screw fixing.*

*(3) BTR screws: hexagon socket head. In accordance with local electrical wiring regulations, a size 4 insulated Allen key must be used (reference **LADALLEN4**, see page B8/19).*

*(4) For these operational currents, order 2 identical contactors and a mechanical interlock **LAD4CM** (see page B8/19).*

Contactors

Characteristics: pages B8/80 to B8/87
Dimensions: pages B8/103 and B8/104
Schemes: pages B8/105 and B8/106
Click **HERE** for access to online contactor selector

PB121720.tif

LC2D09●●●

PB121721.tif

LC2D40A●●●

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

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

Pre-wired power connections

Standard power ratings of 3-phase motors 50-60 Hz in category AC-3 (θ ≤ 60 °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 230 V	380 V 400 V	415 V	440 V	500 V	660 V 690 V				Fixing [2]	
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 **NSYSDR** or screw fixing.*
*(3) BTR screws: hexagon socket head. In accordance with local electrical wiring regulations, a size 4 insulated Allen key must be used (reference **LADALLEN4**, see page B8/42).*
(4) Electrical interlocking is recommended when 2 orders (direct and reverse) could appeared in the same time.

PB121722.eps

LC1DGK●●, LC1DLK●●, LC1DMK●●

PB123777.eps

LC1DWK12●●

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

Special contactors **LC1D●K** are designed for switching 3-phase, single or multiple-step capacitor banks (up to 6 steps). Over 6 steps, it is recommanded to use chokes in order to limit the inrush current and thus improve the lifetime of the installation. The contactors are conform to standards IEC 60070 and 60831, UL and CSA.

Contactor applications

Specification

Contactors fitted with a block of early make poles and damping resistors, limiting the value of the current on closing to 60 In max.
This current limitation increases the life of all the components of the installation, in particular that of the fuses and capacitors.

Operating conditions

Short-circuit protection must be provided by gI type fuses rated at 1.7…2 In.
It will ensure the service continuity of the whole installation in case of a capacitor contactor end of life

Maximum operational power

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

Prospective peak current at switch-on	LC1D●K		200 In
Maximum operating rate	LC1DFK, DGK, DLK, DMK		240 operating cycles/hour
	LC1DPK, DTK, DWK		240 operating cycles/hour
Electrical durability at 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 415 V	440 V	690 V					
kVAR	kVAR	kVAR	kVAR	N/O	N/C	N.m		kg
7	12.5	12.5	21	1	2	1.7	**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.

Dimensions, schemes:
page B8/107

Click **HERE** for access to online contactor selector

See page opposite for mounting possibilities according to the contactor type

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

Product references

PB121689.eps

LADN22

PB123773.eps

LAD8N11

PB123821.eps

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**	
		–	–	–	–	2	**LADN02**	
	4	–	–	–	2	2	**LADN22**	**LADN22S** (1)
		–	–	–	1	3	**LADN13**	
		–	–	–	4	–	**LADN40**	
		–	–	–	–	4	**LADN04**	
		–	–	–	3	1	**LADN31**	
	4 incl. 1 N/O & 1 N/C make before break	–	–	–	2	2	**LADC22**	
Side (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**	
	4	–	–	–	2	2	**LADN22G**	
Front on 4P contactors 125 to 200 A	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**	
		–	2	2	–	–	**LA1DY20** (2)	
	4	–	2	–	2	–	**LA1DZ40**	
		–	2	–	1	1	**LA1DZ31**	

Instantaneous auxiliary contact blocks for connection by lugs

This type of connection is not possible for blocks with 1 contact or blocks with dust and damp protected contacts. For all other instantaneous auxiliary contact blocks, add the figure **6** to the end of the references selected above. Example: **LADN11** becomes **LADN116**.

Instantaneous auxiliary contact blocks for connection by spring terminals

This type of connection is not possible for LAD8, LADN with 1 contact or blocks with dust and damp protected contacts. For all other contact blocks, add the figure **3** to the end of the references selected above.
Example: **LADN11** becomes **LADN113**.

Maximum number of auxiliary contacts that can be fitted:

Contactors			Instantaneous auxiliary contacts					Time delay Front mounted
Type	Number of poles and size		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
AC/DC		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	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.
(2) Device fitted with 4 earth screen continuity terminals.
(3) 1 on LH side for AC coils - 1 on RH side for AC/DC coils.
(4) LC: low consumption.
(5) LA1D●●● dust & damp proof auxiliary contact blocks not allowed.

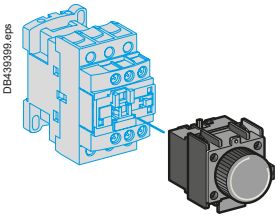
Contactors

Characteristics:
pages B8/88 and B8/89

Curves:
page B8/90

Dimensions:
pages B8/94 and B8/95

Product references

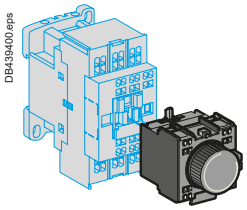


LADT●

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**
			1…30 s	**LADS2**
		Off-delay	0.3…3 s	**LADR0**
			1…30 s	**LADR2**
			10…180 s	**LADR4**



LADT●3

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

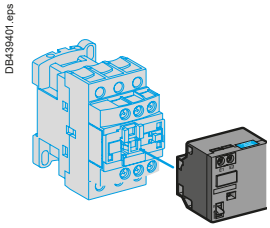
Add the figure **3** to the end of the references selected above. Example: **LADT0** becomes **LADT03.**

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) LC1DT20…DT40 (∿ or ⎓)	**LAD6K10●**
		LC1D40A…D80A (3 P ∿ or ⎓) LC1DT60A and DT80A (4 P ∿ or ⎓)	**LAD6K10●**
		LC1D80…D150 (3 P ∿) LC1D80 and D150 (3 P ⎓) LC1D80 (4 P ∿) LC1D80 and D115 (4 P ∿) LP1D80 and LC1D115 (4 P ⎓)	**LA6DK20●**
		LC1D40 and D65 (4 P ∿) LP1D40 and D65 (4 P ⎓)	**LA6DK10●**



LAD6K10●

(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):

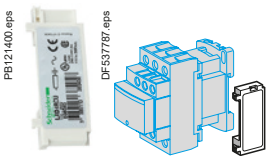
Volts 50/60 Hz, ⎓	24	32/36	42/48	60/72	100	110/127	220/240	256/277	380/415
Code	B	C	E	EN	K	F	M	U	Q

(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●**.*

Characteristics:
pages B8/88 to B8/90

Dimensions:
pages B8/94 to B8/97

Schemes:
pages B8/101 to B8/102

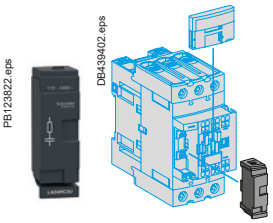


LAD4RCU LAD4●●

RC circuits (Resistor-Capacitor)

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

Mounting	For use with contactor (1)			Reference
	Rating	Type		
		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**

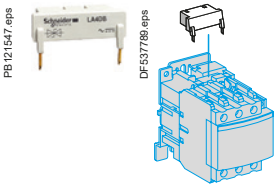


LAD4RC3●, LAD4V3●, LAD4D3U, LAD4T3●

Varistors (peak limiting)

Protection provided by limiting the transient voltage to 2 Uc max. Maximum reduction of transient voltage peaks. Slight increase in drop-out time (1.1 to 1.5 times the 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**
	D80…D95 (3P) D80 (4P)	–	24…48	**LA4DE3E**
		–	110…250	**LA4DE3U**



LA4DC3U

Flywheel diodes

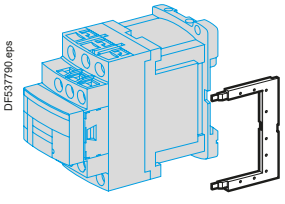
No overvoltage or oscillating frequency. Increase in drop-out time (6 to 10 times the normal time). Polarised component.

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**
		–	250	**LAD4TUDL**
Clip-on front mounting (2)	D40A…D65A (3P) DT60A…DT80A (4P) (6)	12…24	12…24	**LAD4T3B**
		25…72	25…72	**LAD4T3S**
		73…125	73…125	**LAD4T3G**
		126…250	126…250	**LAD4T3U**
		251…440	251…440	**LAD4T3R**
Screw fixing (4)		–	24	**LA4DB3B**
		–	72	**LA4DB3S**



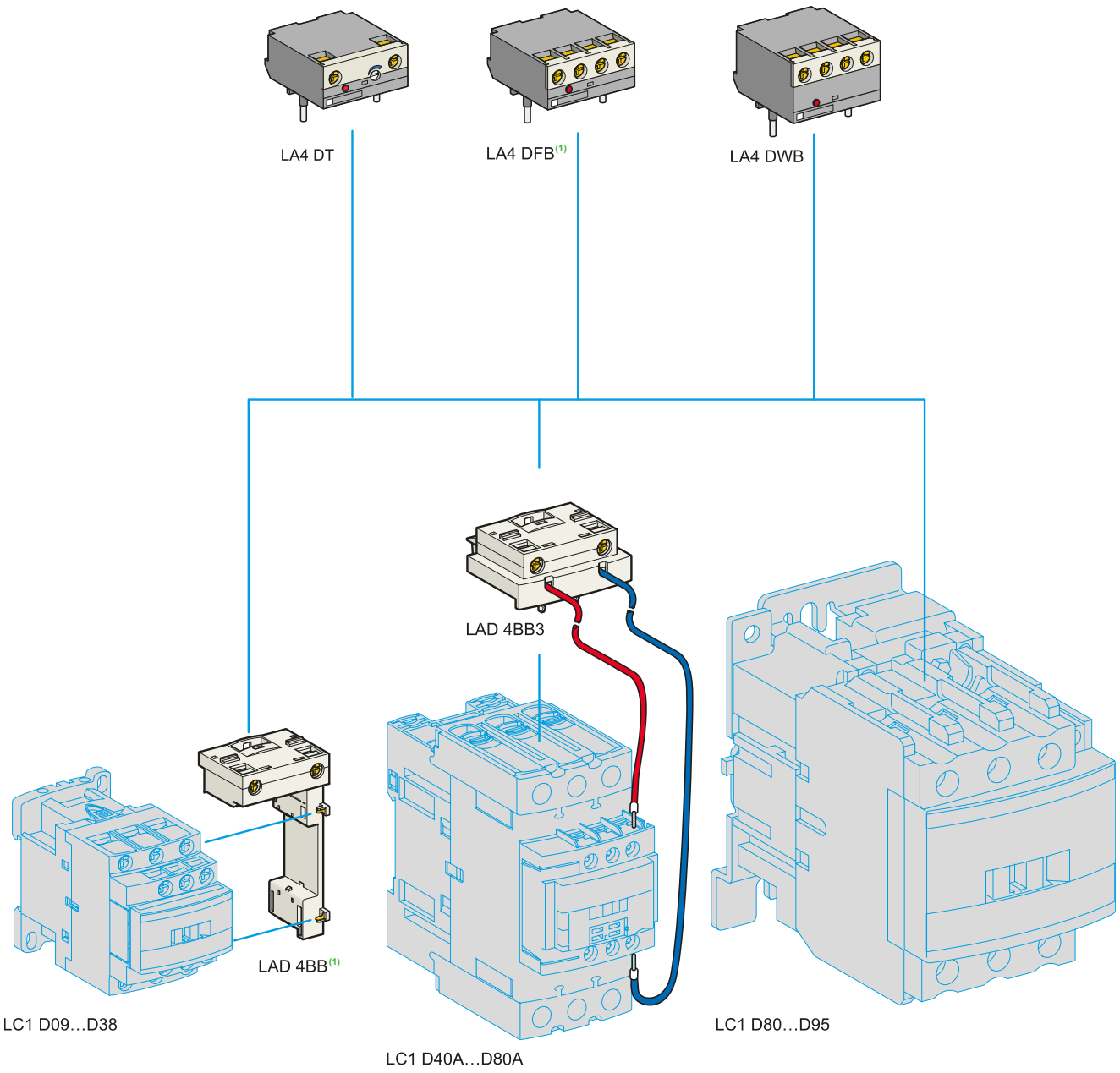
LAD4DDL or LAD4T●DL

LAD4DDL

(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).*

Characteristics:
page B8/91

DB425486.eps



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

(1) For Deca contactor with AC coil only.

Product references

PB121548.eps

LA4DT●●

PB121549.eps

LA4DFB

PB121550.eps

LA4DBL

PB121402.eps

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)	■ 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**
		∿ 110…250 V	**LAD4BBVU**
LC1D40A…80A	Without coil suppression		**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.*

Contactors

Characteristics: page B8/92
Dimensions: page B8/94
Schemes: page B8/102

Product references


PB121360.eps

LA9D3260


PB121363.eps

LA9D11560●


PB121361.eps

LA9D115503


PB121362.eps

LAD96570


PB121364.eps

LA9D11570●


PB121365.eps

LA9D80962


PB121366.eps

LA9D11567

Accessories for main pole and control connections

Description		For use with contactors LC1 ~	For use with contactors LC1 ⎓	Sold in lots of	Unit reference
Connectors for cable, size (1 connector)	4-pole 10 mm²	DT20, DT25	DT20, DT25	1	**LAD92560**
	3-pole 25 mm²	D09…D38	D09…D38	1	**LA9D3260**
EverLink® terminal block	3-pole	D40A…D80A	D40A…D80A	1	**LAD96560**
Connectors for cables (2 connectors)	3-pole 120 mm²	D115, D150	D115, D150	1	**LA9D115603**
	4-pole 120 mm²	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	**LAD96570**
		D1156, D1506	D1156, D1506	1	**LA9D115703** (1)
	4-pole	D60A6…D80A6	D60A6…D80A6	1	**LAD96580**
		D1156, D1506	D1156, D1506	1	**LA9D115704**
IP 20 covers for lug type terminals (for mounting with circuit breakers GV3 P●●6 and GV3 L●●6)	3 poles	D40A6…D80A6	D40A6…D80A6	1	**LAD96575**
Links for parallel connection of	2 poles	D09…D38	D09…D38	10	**LA9D2561**
		DT32, DT40 (4P)	DT32, DT40 (4P)	10	**LAD96061**
		D40A…D80A	D40A…D80A	1	**LAD9P32**
		D80, D95	D80, D95	2	**LA9D80961**
	3 poles	D09…D38	D09…D38	10	**LAD9P3** (2)
		D40A…D80A	D40A…D80A	1	**LAD9P33**
		D80, D95	D80, D95	1	**LA9D80962**
	4 poles	DT20, DT25	DT20, DT25	2	**LA9D1263**
		D80	D80	2	**LA9D80963**
Staggered coil connection		–	D80	10	**LA9D09966**
Control circuit take-off from main pole		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.

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

Product references


PB121367.eps
GV2G245


PB121368.eps
GV1G09


PB121369.eps
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**

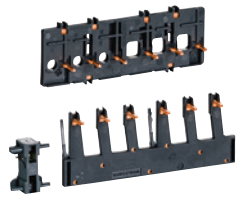
Mounting accessories

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**.*

Product references

PB121375.eps



LAD9R1

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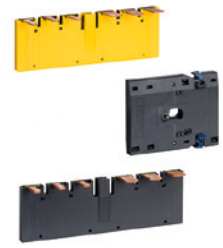

LAD9R3

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LA9D8069

PB123826.eps

LAD91217

Discover in video

PB121378.eps

LAD91218

Discover in video

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**	–
	LC1D80	**LA9D8017**	–
Equipment mounting plates	LC1D09 to D38	**LA9D12974**	
	LC1D40A to D80A	–	
	LC1D80	**LA9D80973**	

(1) To order the 2 contactors: see pages B8/23 and B8/29.
(2) To assemble a reversing contactor with spring terminal connections, the following components must be ordered:
*- 1 mechanical interlock **LAD9V2**,*
- 1 upstream power connection kit and 1 downstream power connection kit.
*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**.*

Control Panel Technical Guide:

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

> Ref. Document: CPTG011_EN

> Click on QR code to download

Dimensions:
pages B8/103 and B8/104

Schemes:
pages B8/105 and B8/106

Product references

PB121379.eps

LADT9R1V

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	**LAD9V2** [2]
	LC1DT203 to DT403 with spring terminals	**LAD9V2** [2]
	LC1DT60A and DT80A	**LAD4CM**
	LC1D80004	**LA9D50978**
	LP1D80004	**LA9D80978**
Sets of power connections		
Comprising a set of parallel bars	LC1D80004	**LA9D8070**
	LP1D80004	**LA9D8070**
	LC1D115004	**LA9D11570**
	LC1D80004	**LA9D8070** [2]
	LP1D80004	**LA9D8070** [2]

PB121381.eps

LA9D50978

PB121380.eps

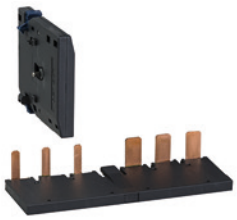
LA9D8070

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**

PB121382.eps



LAD9R3S

(1) To order the 2 contactors: see pages B8/23 and B8/29.
*(2) Order 2 contact blocks **LADN●1** to build the electrical interlock, see page B8/36.*

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

> Ref. Document: CPTG011_EN

> Click on QR code to download

Dimensions:
pages B8/103 and B8/104

Schemes:
pages B8/105 and B8/106

PB121383.eps

LXD1●●

a.c coils for ∿ contactors LC1D09...D38 and LC1DT20…DT40

Specifications

Average consumption at 20 °C:
- inrush (cos ϕ = 0.75) 70 VA,
- sealed (cos ϕ = 0.3) 50 Hz: 7 VA, 60 Hz: 7.5 VA.

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

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

PB121384.eps

LXD3●●

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

Specifications

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

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

Control circuit voltage Uc	Average resistance at 20 °C ±10%	Inductance of closed circuit	Reference (1)
V	Ω	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 ϕ = 0.75) 50 Hz: 200 VA, 60 Hz: 220 VA
- sealed (cos ϕ = 0.3) 50 Hz: 20 VA, 60 Hz: 22 VA.

Operating range (θ ⩽ 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	1.4	0.09	**LX1D6B5**	1.05	0.06	**LX1D6B6**
110	31	1.9	**LX1D6F5**	22	1.2	
115	31	1.9	**LX1D6FE5**	–	–	–
208	–	–	**–**	86	4.3	**LX1D6L6**
220	–	–	**–**	98	4.8	**LX1D6M6**
220/230	127	7.5	**LX1D6M5**	–	–	–
240	152	8.7	**LX1D6U5**	120	5.7	**LX1D6U6**
380	–	–	**–**	300	14	**LX1D6Q6**
440	513	30	**LX1D6R5**	392	19	
480	–	–	**–**	480	23	**LX1D6T6**

Specifications

Average consumption at 20 °C:
- inrush (cos ϕ = 0.75) 50/60 Hz: 245 VA at 50 Hz
- sealed (cos ϕ= 0.3) 50/60 Hz: 26 VA at 50 Hz.

Operating range (θ ⩽ 55 °C): 0.85…1.1 Uc.

						50/60 Hz
24	–	–	–	1.22	0.08	**LX1D6B7**
48	–	–	–	5	0.32	**LX1D6E7**
110	–	–	–	26	1.7	**LX1D6F7**
120	–	–	–	32	2	**LX1D6G7**
220/230 (2)	–	–	–	102	6.7	**LX1D6M7**
230	–	–	–	115	7.7	**LX1D6P7**
230/240 (3)	–	–	–	131	8.3	**LX1D6U7**
380/400 (4)	–	–	–	310	20	**LX1D6Q7**
400	–	–	–	349	23	**LX1D6V7**
415	–	–	–	390	24	**LX1D6N7**
440	–	–	–	410	27	**LX1D6R7**

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

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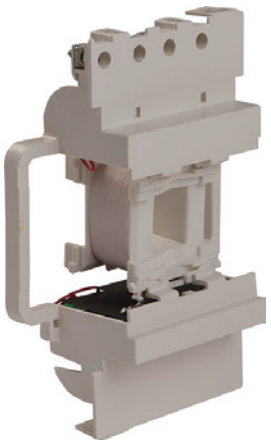


LX1D8●●

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 (θ ⩽ 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 (θ ⩽ 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.

PB121387.eps

LX4D7JD

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.

LX4D8●D

d.c. coils for contactors LC1D115, D150

Specifications

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

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

Product references

PB113075_12.eps

GC2520

PB113078_18.eps

GC4040

PB113079_24.eps

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	–	–	GC2520M5 ★	12
2	2	2	–	GC2522B5	–	–	GC2522M5 ★	6
3	–	2	–	–	–	GC2530F5	GC2530M5 ★	6
3	1	2	–	–	–	–	GC2531M5	6
4	–	2	–	–	GC2540E5	GC2540F5 ★	GC2540M5 ★	6
Maximum current rating category AC-7a - 40 A								
–	2	2	–	–	–	–	GC4002M5 ★	6
–	4	3	–	–	–	–	GC4004M5	4
1	1	2	–	–	–	–	GC4011M5 ★	6
2	–	2	–	–	–	GC4020F5 ★	GC4020M5 ★	6
2	2	3	–	–	–	–	GC4022M5	4
3	–	3	–	–	–	–	GC4030M5 ★	4
4	–	3	–	–	–	–	GC4040M5 ★	4
Maximum current rating category AC-7a - 63 A								
–	2	2	–	–	–	–	GC6302M5	6
–	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

Characteristics:
pages B8/108 to B8/114

Dimensions, schemes:
pages B8/115 to B8/117

Product references

PB113083_13.eps

GY2520M5

PB113087_26.eps

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.*

Characteristics:
pages B8/118 to B8/120

Dimensions, schemes:
pages B8/121 and B8/122

Schemes:
page B8/122

Product references

DB438291.eps

GF1620B7

Modular impulse relays - 17.5 mm pitch for modular panels						
Maximum current rating category AC-1	Composition		Coil voltages ~ 50/60 Hz	Coil voltages ⎓	Sold in lots of	Unit reference
A			V	V		
16	2	–	12	6	12	**GF1620J7**
			24	12	12	**GF1620B7**
			110	48	12	**GF1620F7**
			230/240	110	12	**GF1620U7**
	1	1	12	6	12	**GF1611J7**
			24	12	12	**GF1611B7**
			220	–	12	**GF1611M7**
			230/240	110	12	**GF1611U7**

Contactors

Characteristics:
pages B8/123 to B8/126

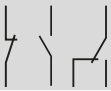
Dimensions, schemes:
page B8/127

Product references

PB113093_13.eps

GAP23

Instantaneous auxiliary contact blocks

Number of contacts	Number of poles			Reference
				
2	1	1	–	**GAC0521**
	–	2	–	**GAC0531**
	–	–	1	**GAC0511**

PB104483-40.eps

GAC5

PB104486_34.eps

A9A15922

PB104487_49.eps

A9A15923

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	2	–	1	**A9A15922**
	40 or 63 A 3 or 4 contacts	3	–	1	**A9A15923**

Dimensions, schemes: page B8/116
Schemes: page B8/117

Product references

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