TeSys contactors

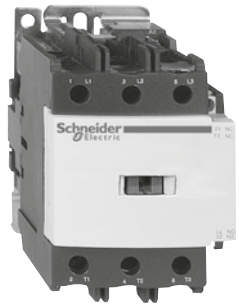
TeSys D contactors for motor control up to 75 kW at 400 V, in category AC-3

For connection by screw clamp terminals and lugs

LC1 D09●●

LC1 D25●●

LC1 D80A●●



LC1 D95●●

LC1 D115●●

3-pole contactors

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 [2] / Fixing [1]	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: **LC1 D09●●** becomes **LC1 D096●●**.

Separate components

Auxiliary contact blocks and add-on modules: see pages B8/23 to B8/29.

(1) LC1 D09 to D80A: clip-on mounting on 35 mm ⊔ rail AM1 DP or screw fixing.
LC1 D80 to D95 ∿: clip-on mounting on 35 mm ⊔ rail AM1 DP or 75 mm ⊔ rail AM1 DL or screw fixing.
LC1 D80 to D95 ⎓: clip-on mounting on 75 mm ⊔ rail AM1 DL or screw fixing.
LC1 D115 and D150: clip-on mounting on 2 x 35 mm ⊔ rails AM1 DP or screw fixing.

(2) 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**
LC1 D09…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
LC1 D09…D65 (not available with "connection for lugs or bars")													
50 Hz	B5	D5	E5				P5						
LC1 D80…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**
LC1 D09…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
LC1 D40A …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
LC1 D80…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	–	–
LC1 D115 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								
Volts ⎓	**5**	**12**	**20**	**24**	**48**	**110**	**220**	**250**
LC1 D09…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

a.c. / d.c. supply - low consumption

See TeSys D Green, page B8/13

For other voltages between 5 and 690 V, see pages B8/32 to B8/35.

*(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 **LC1 D09** to **D38**, 0.075 kg from **LC1 D40A** to **D80A** and 1 kg for **LC1 D80** 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 **LAD ALLEN4**, see page B8/29).*

Contactors

Selection: pages A6/25 to A6/49
Characteristics: pages B8/61 to B8/73
Dimensions: pages B8/74 to B8/77
Schemes: pages B8/81 to B8/82
Click HERE for access to online contactor selector

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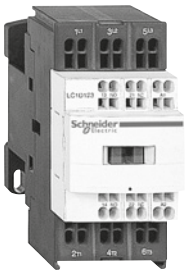
TeSys contactors

TeSys D contactors for motor control up to 30 kW at 400 V, in category AC-3

For connection by spring terminals

PF526221R.eps



LC1 D123●●

PB120690.eps

LCD 80A3●●

3-pole contactors

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 [2]
220 V 230 V	380 V 400 V	415 V	440 V	500 V	660 V 690 V	1000 V				Fixing [1]
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 [4]	1	1	**LC1D323●●**
Power connections by EverLink® BTR screw connectors [5] 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 LC1 D09 and LC1 D12 only, replace the figure **3** with a **9** in the references selected above.
Example: **LC1 D093●●** becomes **LC1 D099●●**.

Separate components

Auxiliary contact blocks and add-on modules: see pages B8/23 to B8/29.

(1) LC1 D09 to D32: clip-on mounting on 35 mm ⊔ rail AM1 DP or screw fixing.
(2) 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**
LC1 D09…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**	
LC1 D09…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	
LC1 D40A…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**				
LC1 D09…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 B8/32 to B8/35.
(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 **LC1 D09** to **D32** and 0.075 kg from **LC1 D40A** to **D80A**.*
*(4) Must be wired with 2 x 4 mm² cables in parallel on the upstream side. On the downstream side, outgoing terminal block **LAD 331** 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 **LAD ALLEN4**, see page B8/29).*

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TeSys contactors

TeSys D, 3-pole contactors

For control in category AC-1, from 25 to 200 A

PF526230R.eps

LC1 D09●●

PB120691.eps

LC1 D80A●●

3-pole contactors

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: **LC1 D09●●** becomes **LC1 D096●●**.

(1) 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**
LC1 D09...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
LC1 D09…D65 (not available with "connection for lugs or bars")													
50 Hz	B5	D5	E5				P5						
LC1 D80...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**
LC1 D09…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
LC1 D40A …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
LC1 or LP1 D80 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	–	–
LC1 D115 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**
LC1 D09…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 B8/32 to B8/35.

*(2) **LC1 D09** to **D80A**: clip-on mounting on 35 mm ⊔ rail **AM1 DP** or screw fixing.*
__LC1 D80__ and __D95__ ∿: clip-on mounting on 35 mm ⊔ rail __AM1 DP__ or 75 mm ⊔ rail __AM1 DL__ or screw fixing.
__LC1__ or __LP1 D80__ to __D95__ ⎓: clip-on mounting on 75 mm ⊔ rail __AM1 DL__ or screw fixing.
__LC1 D115__ and __D150__: clip-on mounting on 2 x 35 mm ⊔ rails __AM1 DP__ 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 **LC1 D09** to **D38**, 0.075 kg from **LC1 D40A** to **D80A** and 1 kg for **LC1 D80** 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 **LAD ALLEN4**, see page B8/29).*

(5) Selection according to the number of operating cycles, see AC-1 curve, page A6/30.

(6) 32 A with 2 x 4 mm² cables connected in parallel.

Contactors

Selection: pages A6/25 to A6/49
Characteristics: pages B8/61 to B8/73
Dimensions: pages B8/74 to B8/77
Schemes: pages B8/81 to B8/82
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TeSys contactors

TeSys D, 3-pole contactors

For control in category AC-1, from 16 to 80 A

PF526232R.eps

LC1 D123●●

PB120692.eps

LC1 D80A3●●

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 LC1 D09 and LC1 D12 only, in the references selected from the previous page, insert a figure **9** before the voltage code. Example: **LC1 D09●●** becomes **LC1 D099●●**.

3-pole contactors

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 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

Separate components

Auxiliary contact blocks and add-on modules: see pages B8/23 to B8/29.

(1) 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**
LC1 D09...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**
LC1 D09…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
LC1 D40A…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**
LC1 D09…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 B8/32 to B8/35.
*(2) **LC1 D09** to **D80A**: clip-on mounting on 35 mm ⊥ rail **AM1 DP** 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 **LC1 D09** to **D38** and 0.075 kg from **LC1 D40A** 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 **LAD ALLEN4**, see page B8/29).*
(8) Selection according to the number of operating cycles, see AC-1 curve, page A6/30.

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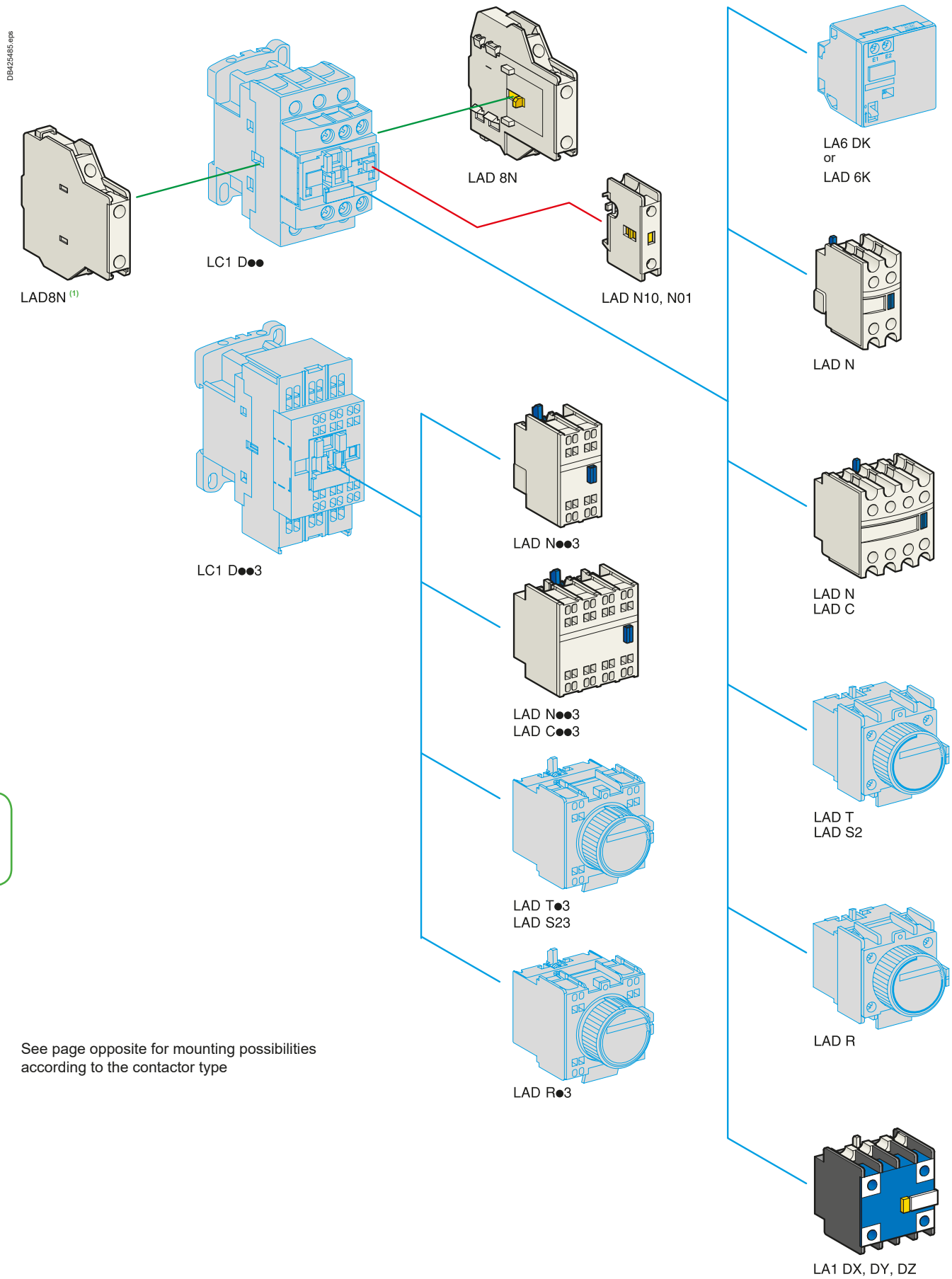

See page opposite for mounting possibilities according to the contactor type

(1) No left side mounting on TeSys D Green contactors.

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TeSys contactors

TeSys D contactors and reversing contactors

Instantaneous auxiliary contact blocks

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** (4)
		–	–	–	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: **LAD N11** becomes **LAD N116**.

Instantaneous auxiliary contact blocks for connection by spring terminals

This type of connection is not possible for LAD 8, LAD N 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: **LAD N11** becomes **LAD N113**.

Instantaneous auxiliary contact blocks for connection by Faston connectors

This type of connection is not possible for LAD 8, LAD N with 1 contact or blocks with dust and damp protected contacts. For all other contact blocks, add the figure **9** to the end of the references selected above.
Example: **LAD N11** becomes **LAD N119**.

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 AC/DC	3P	LC1 D09…D38	1 on LH or 1 on RH side(1)	and	–	1	or 1	or 1
		LC1 D40A…D80A	1 on LH or 1 on RH side	and	–	1	or 1	or 1
		LC1 D80 and D95 (50/60 Hz)	1 on each side	or	2	and 1	or 1	or 1
		LC1 D80 and D95 (50 or 60 Hz)	1 on each side	and	2	and 1	or 1	or 1
		LC1 D115 and D150	1 on LH side	and	–	1	or 1	or 1
	4P	LC1 DT20…DT40	1 on LH side	and	–	1	or 1	or 1
		LC1 DT60A and DT80A	1 on LH or 1 on RH side	and	–	1	or 1	or 1
		LC1 D40008, D65008 and D80	1 on each side	or	1	or 1	or 1	or 1
		LC1 D115	1 on each side	and	1	or 1	or 1	or 1
DC	3P	LC1 D09…D38	–		–	1	or 1	or 1
		LC1 D40A…D80A	–		–	1	or 1	or 1
		LC1 D80 and D95	–		1	or 1	or 1	or 1
		LC1 D115 and D150	1 on LH side	and	–	1	or 1	or 1
	4P	LC1 DT20…DT40	–		–	1	or 1	or 1
		LC1 DT60A and DT80A	–		–	1	or 1	or 1
		LC1 D40008, D65008 and D80	–		2	and 1	or 1	or 1
		LC1 D115	1 on each side		–	and 1	or 1	or 1
LC (3) (5)	3P	LC1 D09…D38	–		–	1	–	–
	4P	LC1 DT20…DT40	–		–	1	–	–

(1) 1 on LH side for AC coils - 1 on RH side for AC/DC coils.
(2) Device fitted with 4 earth screen continuity terminals.
(3) LC: low consumption.
(4) With red front face - for safety chain indication.
(5) LA1D●●● dust & damp proof auxiliary contact blocks not allowed.

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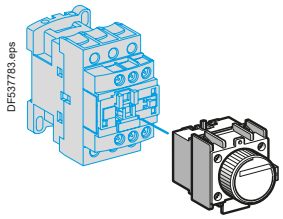
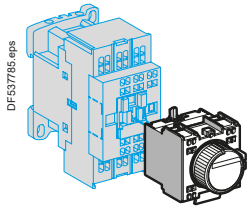
TeSys contactors

TeSys D contactors and reversing contactors

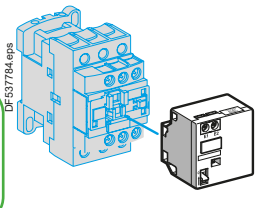
Time delay auxiliary contact blocks Mechanical latch blocks



LAD T●



LAD T●3



LAD 6K10●

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 B8/23.
Sealing cover to be ordered separately, see page B8/29.
LAD T0 and LAD R0: with extended scale from 0.1 to 0.6 s.
LAD S2: 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	0.1…3 s	**LADT0**
			0.1…30 s	**LADT2**
			10…180 s	**LADT4**
			1…30 s	**LADS2**
		Off-delay	0.1…3 s	**LADR0**
			0.1…30 s	**LADR2**
			10…180 s	**LADR4**

Time delay auxiliary contact blocks for connection by lugs

Add the figure **6** to the end of the references selected above. Example: **LAD T0** becomes **LAD T06**.

Time delay auxiliary contact blocks for connection by spring terminals

Add the figure **3** to the end of the references selected above. Example: **LAD T0** becomes **LAD T03.**

Time delay auxiliary contact blocks for connection by Faston connectors

Add the figure **9** to the end of the references selected above. Example: **LAD T0** becomes **LAD T09**.

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)
Front	Manual or electric	LC1 D09…D38 (∿ or ⎓) (3) LC1 DT20…DT40 (∿ or ⎓)	**LAD6K10●**
		LC1 D40A…D80A (3 P ∿ or ⎓) LC1 DT60A and DT80A (4 P ∿ or ⎓)	**LAD6K10●**
		LC1 D80…D150 (3 P ∿) LC1 D80 and D115 (3 P ⎓) LC1 D80 (4 P ∿) LC1 D80 and D115 (4 P ∿) LP1 D80 and LC1 D115 (4 P ⎓)	**LA6DK20●**

(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 LAD 6K10● 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) The DC, low consumption contactors (coil code ●L) are not compatible with the mechanical latch blocks LAD6K10●.

Contactors

Characteristics: pages B8/68 to B8/70
Dimensions: pages B8/74 to B8/77
Schemes: pages B8/81 to B8/82

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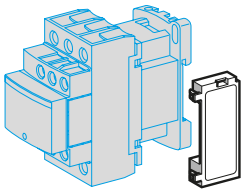
TeSys contactors

TeSys D contactors and reversing contactors

Suppressor modules

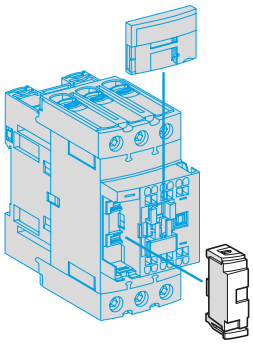


LAD 4●●

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 (3) (5)	D09…D38 (3P) DT20…DT40	24…48	–	**LAD4RCE**
		50…127	–	**LAD4RCG**
		110…250	–	**LAD4RCU**
Clip-on front mounting (3) (5)	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**

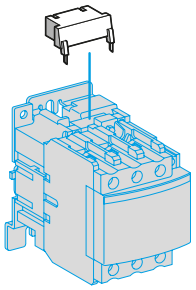


LAD 4RC3●, LAD 4V3●, LAD 4D3U, LAD 4T3●

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 (3) (5)	D09…D38 (3P) DT20…DT40	24…48	–	**LAD4VE**
		50…127	–	**LAD4VG**
		110…250	–	**LAD4VU**
Clip-on front mounting (3) (5)	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**
		–	50…127	**LA4DE3G**
		–	110…250	**LA4DE3U**



LA4 D●●

Flywheel diodes

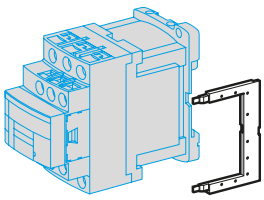
No overvoltage or oscillating frequency. Increase in drop-out time (6 to 10 times the normal time). Polarised component.

Clip-on side mounting (5)	D09…D38 (3P), DT20…DT40	–	5...600	**LAD4DDL**
Clip-on front mounting (5)	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 (3)	D09…D38 (3P) DT20…DT40 (4P) (2)	24	–	**LAD4TB**
		–	24	**LAD4TBDL**
		72	–	**LAD4TS**
		–	72	**LAD4TSDL**
		–	125	**LAD4TGDL**
		–	250	**LAD4TUDL**
		–	600	**LAD4TXDL**
Clip-on front mounting (3)	D40A…D65A (3P) DT60A…DT80A (4P) (2)	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)	D80…D95 (3P) D40…D80 (4P)	12…24	–	**LA4DB2B**
		25…72	–	**LA4DB2S**
		–	24	**LA4DB3B**
		–	72	**LA4DB3S**



LAD 4DDL or LAD 4T●DL

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

*(2) From D09 to D65A and from LC1 DT20 to DT80A, d.c, low consumption or TeSys D Green 3-pole contactors 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). If a d.c. or low consumption contactor is used without suppression, the standard suppressor should be replaced with a blanking plug (reference **LAD 9DL** for LC1 D09 to D38 and LC1 DT20 to DT40; reference **LAD 9DL3** for LC1 D40A to D65A and LC1 DT60A to DT80A).*

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

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

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

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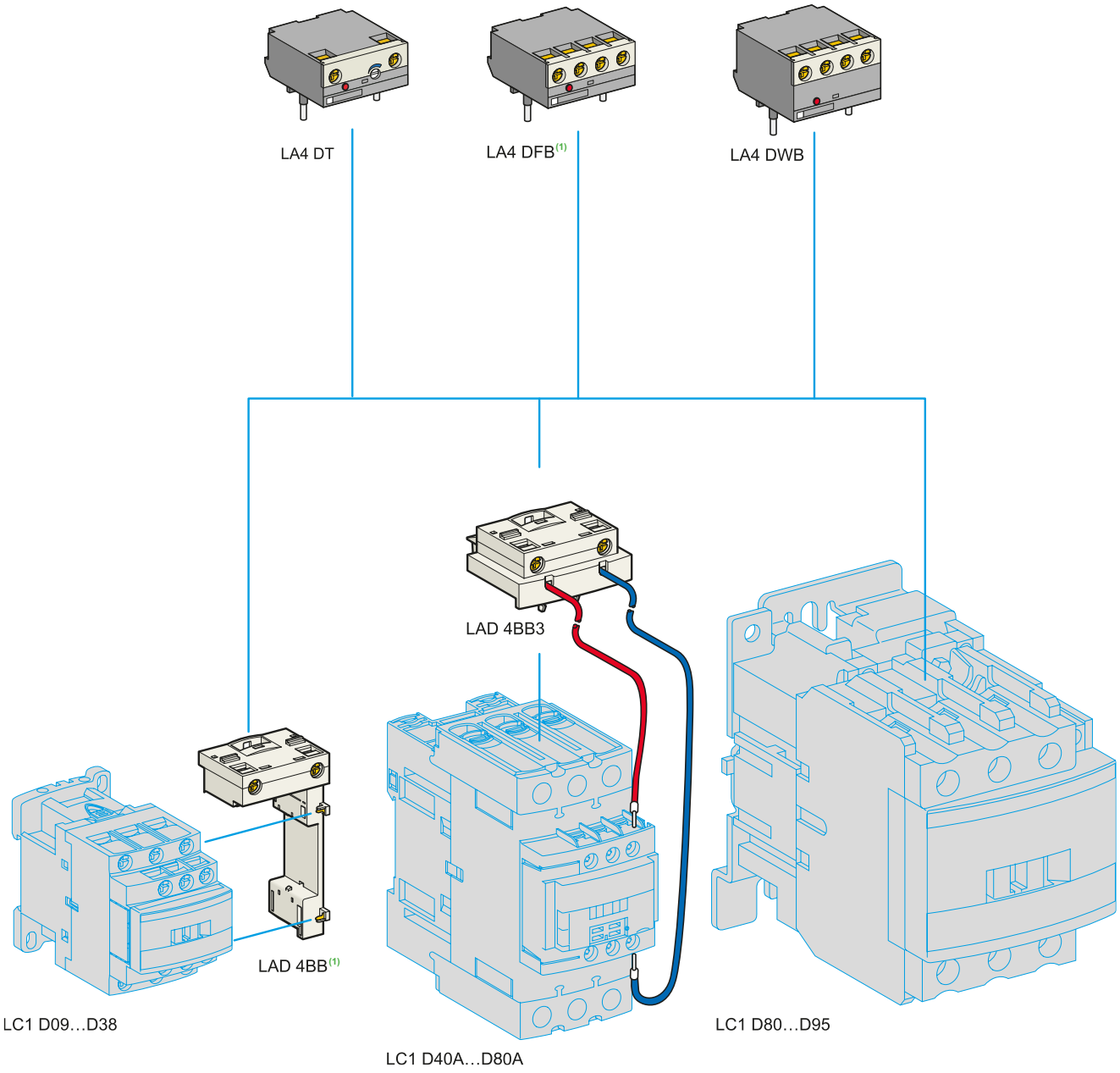

See page opposite for mounting possibilities according to the contactor type.

(1) For TeSys D with AC coil only.

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Electronic serial timer modules (1)

■ 3-pole contactors LC1 D09 to D38: mounted using adapter LAD 4BB, to be ordered separately, see below.
■ 3-pole contactors LC1 D40A to D65A: mounted using adapter LAD 4BB3, to be ordered separately, see below.
■ 3-pole contactors LC1 D80 to D150 and 4-pole contactors LC1 D40 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		
LC1 D09…D80A (3P)	LC1 D80…D150 (3P)	0.1…2 s	**LA4DT0U**
		1.5…30 s	**LA4DT2U**
		25…500 s	**LA4DT4U**

Interface modules

■ 3-pole contactors LC1 D09 to D38: mounted using adapter LAD 4BB, to be ordered separately, see below.
■ 3-pole contactors LC1 D40A to D80A: mounted using adapter LAD4 BB3, to be ordered separately, see below.

Relay interface

Operational voltage ∿	Supply voltage E1-E2 (⎓)	Reference
24…250 V		
LC1 D09…D150 (3P)	24 V	**LA4DFB**

Static relay interface

Operational voltage ∿		Supply voltage E1-E2 (⎓)	Reference
24…250 V	100…250 V		
LC1 D09…D80A (3P)	LC1 D80…D115 (3P)	24 V	**LA4DWB**

Adapter kit for low control signal

For use on contactors	Composition	Reference
LC1 D40A…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
LC1 D09…D38	Without coil suppression		**LAD4BB** (3)
	With coil suppression	∿ 24…48 V	**LAD4BBVE**
		∿ 50…127 V	**LAD4BBVG**
		∿ 110…250 V	**LAD4BBVU**
LC1 D40A…80A	Without coil suppression		**LAD4BB3**

(1) For 24 V operation, the contactor must be fitted with a 21 V coil (code Z). See pages B8/32 to B8/35.
(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.*

Characteristics: pages B8/71 to B8/73
Dimensions: pages B8/74 to B8/77
Schemes: pages B8/81 to B8/82

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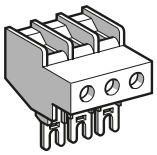
TeSys contactors

TeSys D contactors and reversing contactors

Accessories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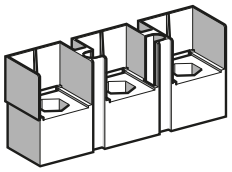
LA9 D3260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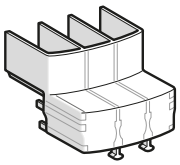
LA9 D11550●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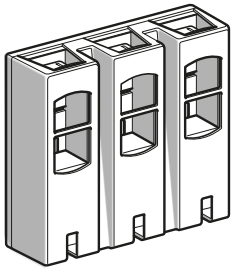
LAD 96570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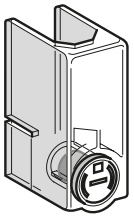
LA9 D11560●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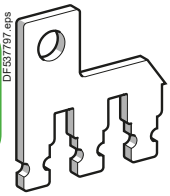
LA9 D11570●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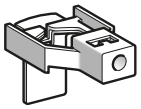
LA9 D80962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LA9 D11567

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**
	4-pole	D1156	D1156	1	**LA9D115504**
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**
		DT20, DT25 (4P)	DT20, DT25 (4P)	10	**LA9D1261**
		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.

Contactors

Dimensions:
pages B8/74 to B8/77

Schemes:
pages B8/81 to B8/82

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TeSys contactors

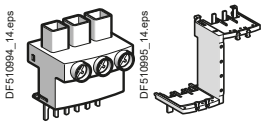
TeSys D contactors and reversing contactors

Accessories

Sets of contacts and arc chambers

Description	For contactor		Reference
Sets of contacts	3-pole	LC1 D115	**LA5D1158031**
		LC1 D150	**LA5D150803**
	4-pole	LC1 D115004	**LA5D115804**
Arc chambers	3-pole	LC1 D115	**LA5D11550**
		LC1 D150	**LA5D15050**
	4-pole	LC1 D115004	**LA5D115450**

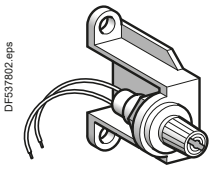
GV2 G245



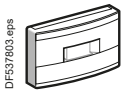
GV1 G09 *GV3 S*

Power connection accessories

Terminal block	For supply to one or more GV2 G busbar sets	**GV1G09**
Set of 63 A busbars for parallelling of contactors	2 contactors LC1 D09…D18 or D25…D38	**GV2G245**
	4 contactors LC1 D09…D18 or D25…D38	**GV2G445**
Set of 115 A busbars for parallelling of contactors	2 contactors LC1 D40A…D80A	**GV3G264**
	3 contactors LC1 D40A…D80A	**GV3G364** (1)
Set of S-shape busbars	For circuit breakers GV3 P●● and GV3 L●● (3) and contactors LC1 D40A…D73A	**GV3S**



LA9 D941



LAD 9ET●

Protection accessories

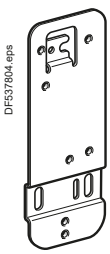
Description	Use	Sold in lots of	Reference
Miniature control circuit fuse holder	5 x 20 with 4 A-250 V fuse	1	**LA9D941**
Sealing cover	For LAD T, LAD R	1	**LA9D901**
Safety cover preventing access to the moving contact carrier	LC1 D09…D80A and DT20…DT80A	1	**LAD9ET1**
	Red cover (for safety chain indication)	1	**LAD9ET1S**
	LC1 D80 and D95	1	**LAD9ET3**
	Red cover (for safety chain indication)	1	**LAD9ET3S**
	LC1 D115 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) LC1 D80…D115, LAD N (4 contacts), LA6 DK	10	**LAD21**
Sheet of 112 blank legends, self-adhesive, 8 x 12 mm (2)	LAD N (2 contacts), LAD T, LAD R, LRD	10	**LAD22**
Sheet of 64 blank legends for marking using plotter or 8 x 33 mm engraver	Contactors (except 4P) LC1 D80…D115, LAD (4 contacts), LA6 DK	10	**LAD23**
Sheet of 440 blank legends for marking using plotter or 8 x 12 mm engraver	All products	35	**LAD24**
Marker holder snap-in, 8 x 22 mm	4-pole contactors, LC1 D80...D115, LA6 DK	100	**LA9D92**
Marker holder snap-in, 8 x 18 mm	LC1 D09...D65A, LC1 DT20...DT80A, LAD N (4 contacts), LAD T, LAD R	100	**LAD90**
Bag of 300 blank legends self-adhesive, 7 x 21 mm	On holder LA9 D92	1	**LA9D93**

Mounting accessories

Retrofit plate for screw fixing	For replacement of LC1 D40 to D80 with LC1 D40A to D80A	1	**LAD7X3**
Mounting plate	For replacement of LC1 F115 or F150 with LC1 D115 or D150	1	**LA9D730**
Size 4 Allen key, insulated, 1000 V	For use on contactors LC1 D40A to LC1 D150	5	**LADALLEN4**



LAD 7X3

*(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 **LC1 D65A** supplied directly + 1 contactor **LC1 D65A** and 1 contactor **LC1 D50 A** supplied via the busbar set = 115 A. This combination is compatible with busbar set **GV3 G364**.*

(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**.*

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TeSys contactors

Component parts for assembling reversing contactors for motor control, low-speed/high-speed starters and star-delta starters

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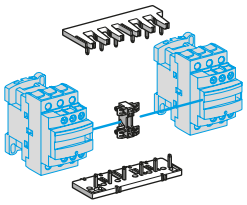

LAD 9R1

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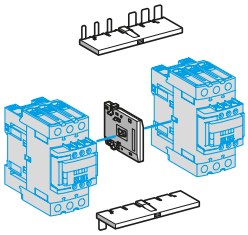

LAD 9R3

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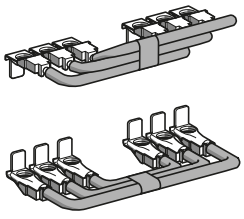

LA9 D8069

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 **LAD 9V2** with electrical interlocking **LAD 9V1** ■ a set of power connections LAD 9V5 (parallel) and **LAD 9V6** (reversing).	LC1 D09 to D38	**LAD9R1V**
Kit comprising: ■ a mechanical interlock **LAD 9V2** without electrical interlocking ■ a set of power connections **LAD 9V5** (parallel) and **LAD 9V6** (reversing).	LC1 D09 to D38	**LAD9R1**
Kit comprising: ■ a mechanical interlock **LAD 4CM** ■ a set of power connections **LA9 D65A69**.	LC1 D40A to D80A	**LAD9R3**
Mechanical interlocks		
Mechanical interlock with integral electrical interlocking	LC1 D80 and D95 (~)	**LA9D4002**
	LC1 D80 and D95 (⎓)	**LA9D8002**
	LC1 D115 and D150	**LA9D11502**
Mechanical interlock without integral electrical interlocking	LC1 D09 to D38	**LAD9V2**
	LC1 D40A to D80A	**LAD4CM**
	LC1 D80 and D95 (~)	**LA9D50978**
	LC1 D80 and D95 (⎓)	**LA9D80978**
Sets of power connections		
Comprising: ■ a set of parallel bars ■ a set of reverser bars.	LC1 D09 to D38 with screw clamp terminals or connectors	**LAD9V5** + **LAD9V6**
	LC1 D09…D32 with spring terminal connections	**LAD9V12** + **LAD9V13** [2]
	LC1 D40A to D80A	**LA9D65A69**
	LC1 D80 and D95 (~)	**LA9D8069**
	LC1 D80 and D95 (⎓)	**LA9D8069**
	LC1 D115 and D150	**LA9D11569**

For low-speed/high-speed starter

Description	For LC1D09... D38 contactors with connection type	Reference
Connection kit enabling reversing of low and high speed directions using a reversing contactor and a 2N/O + 2N/C main pole contactor	Screw clamps or connectors	**LAD9PVGV**
	Spring terminals	**LAD3PVGV**

For star-delta starter

Description	For contactors	Reference	Without timer LADS2
Mounting kit comprising: ■ 1 time delay contact block **LAD S2** (**LC1 D09…D80**), ■ power circuit connections (**LC1 D09…D80**), ■ hardware required for fixing the contactors onto the mounting plate (**LC1 D80**).	LC1 D09 to D38 [3]	**LAD91217**	**LAD91218**
	LC1 D09 to D38 [4]	**LAD93217**	**LAD93218**
	LC1 D40A to D65A	**LAD9SD3**	–
	LC1 D80	**LA9D8017**	–
Equipment mounting plates	LC1 D09 to D38	**LA9D12974**	
	LC1 D40A and D50A	–	
	LC1 D80	**LA9D80973**	

(1) To order the 2 contactors: see pages B8/3 and B8/16.
(2) To assemble a reversing contactor with spring terminal connections, the following components must be ordered:
*- 1 mechanical interlock **LAD 9V2**,*
- 1 upstream power connection kit and 1 downstream power connection kit.
*Upstream power connection kit **LAD 9V10**: installed in the Quickfit system with power connection module **LAD 34**.*
*(If module **LAD 34** is not used, replace **LAD 9V10** with **LAD 9V12**).*
*Downstream power connection kit **LAD 9V11**: installed in the Quickfit system with outgoing terminal block **LAD 331**.*
*(If **LAD 331** is not used, replace **LAD 9V11** with **LAD 9V13**).*
(3) For assembly of 3 contactors of the same physical size (depth).
(4) For assembly of 3 contactors with star contactor physically smaller (depth).

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TeSys contactors

Component parts for assembling changeover contactor pairs

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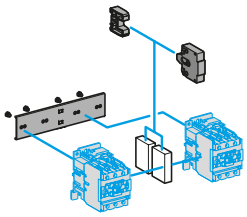

LA9 D50978

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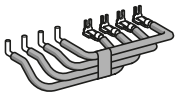

LA9 D6570

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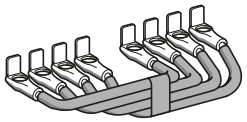

LA9 D8070

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 LAD 9V2 with electrical interlocking LAD 9V1, ■ a set of power connections (changeover) LAD 9V7.	LC1 DT20 to DT40 with screw clamps or connectors	**LADT9R1V**
Kit comprising: ■ a mechanical interlock LAD 9V2 without electrical interlocking, ■ a set of power connections (changeover) LAD 9V7.	LC1 DT20 to DT40 with screw clamps or connectors	**LADT9R1**
Mechanical interlocks		
With integral electrical interlocking	LC1 D80004	**LA9D4002**
	LP1 D80004	**LA9D8002**
	LC1 D115004	**LA9D11502**
Without integral electrical interlocking	LC1 DT20 to DT40 with screw clamps or connectors	**LAD9V2** [2]
	LC1 DT203 to DT403 with spring terminals	**LAD9V2** [2]
	LC1 DT60A and DT80A	**LAD4CM**
	LC1 D80004	**LA9D50978**
	LP1 D80004	**LA9D80978**
Sets of power connections		
Comprising a set of parallel bars	LC1 D80004	**LA9D8070**
	LP1 D80004	**LA9D8070**
	LC1 D115004	**LA9D11570**
	LC1 DT203 to DT403 with spring terminals	**LAD9V9**
	LC1 D80004	**LA9D8070** [2]
	LP1 D80004	**LA9D8070** [2]

For 3-pole changeover contactor pairs

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

Description	For contactors [1] (2 identical contactors)	Reference
Kits for assembly of changeover contactor pairs		
Kit comprising: ■ a mechanical interlock LAD4CM ■ a set of parallel bars LA9D65A6	LC1 D40A…D80A	**LAD9R3S**
Mechanical interlocks		
Without integral electrical interlocking	LC1 D40A…D80A	**LAD4CM**
With integral electrical interlocking	LC1 D115 and D150	**LA9D11502**
Sets of power connections		
Comprising a set of parallel bars	LC1 D40A…D80A	**LA9D65A6**
	LC1 D115 and D150	**LA9D11571**

(1) To order the 2 contactors: see pages B8/3 and B8/16.
*(2) Order 2 contact blocks **LAD N●1** to build the electrical interlock, see page B8/23.*

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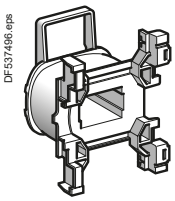

LXD 1●●

For ∿ contactors LC1 D09...D38 and LC1 DT20…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**
21 (2)	4.17	0.17	**LXD1Z7**
24	5.37	0.22	**LXD1B7**
32	10.1	0.39	**LXD1C7**
36	12.8	0.49	**LXD1CC7**
42	17	0.67	**LXD1D7**
48	21.7	0.87	**LXD1E7**
60	34.6	1.4	**LXD1EE7**
100	100.4	3.8	**LXD1K7**
110	124.1	4.6	**LXD1F7**
115	129.8	5	**LXD1FE7**
120	150.6	5.4	**LXD1G7**
127	158.5	6.1	**LXD1FC7**
200	410.7	15	**LXD1L7**
208	430.4	16	**LXD1LE7**
220	515.4	18	**LXD1M7** (3)
230	538.6	20	**LXD1P7**
240	562.3	22	**LXD1U7**
277	800.7	29	**LXD1W7**
380	1551	55	**LXD1Q7** (4)
400	1633	60	**LXD1V7**
415	1694	65	**LXD1N7**
440	1993	73	**LXD1R7**
480	2398	87	**LXD1T7**
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) Voltage for special coils fitted in contactors with serial timer modules, with 24 V supply.
*(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 B8/62 and B8/64).*
*(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 B8/62 and B8/64).*

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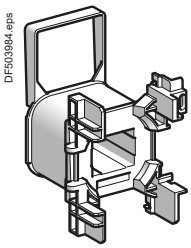

LXD 3●●

For ∼ contactors LC1 D40A…D80A, LC1 DT60A and LC1 DT80A

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
12	0.49	0.03	LXD3J5 (2)
24	1.98	0.12	LXD3B7
32	3.76	0.22	LXD3C7
42	6.18	0.37	LXD3D7
48	7.97	0.48	LXD3E7
100	37.63	2.07	LXD3K7
110	42.28	2.50	LXD3F7
115	48.76	2.74	LXD3FE7
120	37.63	2.07	LXD3G7 (5)
127	60.29	3.34	LXD3FC7
200	149	8.27	LXD3L7
208	105	6.22	LXD3LE7 (5)
220	182	10	LXD3M7 (3)
230	192	10.9	LXD3P7
240	202	11.9	LXD3U7
277	193	11	LXD3W7 (5)
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 (5)
500	878	51.7	LXD3S7
575	1238	68.4	LXD3SC7
600	1304	74.5	LXD3X7
660	1593	90.1	LXD3YC7
690	1683	98.5	LXD3Y7

(1) The last 2 digits in the reference represent the voltage code.
(2) This coil can only be used on 50 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 B8/62 and B8/64).*
*(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 B8/62 and B8/64).*
(5) This coil can only be used on 60 Hz.

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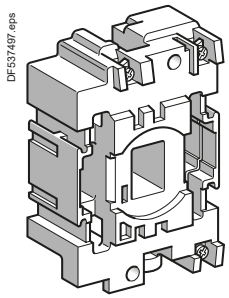

LX1 D6●●

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**
32	2.6	0.16	**LX1D6C5**	–	–	–
42	4.4	0.27	**LX1D6D5**	–	–	–
48	5.5	0.35	**LX1D6E5**	4.2	0.23	**LX1D6E6**
110	31	1.9	**LX1D6F5**	22	1.2	**LX1D6F6**
115	31	1.9	**LX1D6FE5**	–	–	–
120	–	–	–	28	1.5	**LX1D6G6**
127	41	2.4	**LX1D6G5**	–	–	–
208	–	–	–	86	4.3	**LX1D6L6**
220	–	–	–	98	4.8	**LX1D6M6**
220/230	127	7.5	**LX1D6M5**	–	–	–
230	133	8.1	**LX1D6P5**	–	–	–
240	152	8.7	**LX1D6U5**	120	5.7	**LX1D6U6**
256	166	10	**LX1D6W5**	–	–	–
277	–	–	–	157	8	**LX1D6W6**
380	–	–	–	300	14	**LX1D6Q6**
380/400	381	22	**LX1D6Q5**	–	–	–
400	411	25	**LX1D6V5**	–	–	–
415	463	26	**LX1D6N5**	–	–	–
440	513	30	**LX1D6R5**	392	19	**LX1D6R6**
480	–	–	–	480	23	**LX1D6T6**
500	668	38	**LX1D6S5**	–	–	–
575	–	–	–	675	33	**LX1D6S6**
600	–	–	–	775	36	**LX1D6X6**
660	1220	67	**LX1D6Y5**	–	–	–

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**
42	–	–	–	3.5	0.25	**LX1D6D7**
48	–	–	–	5	0.32	**LX1D6E7**
110	–	–	–	26	1.7	**LX1D6F7**
115	–	–	–	–	–	**LX1D6FE7**
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 B8/62 and B8/64. 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 B8/62 and B8/64.*

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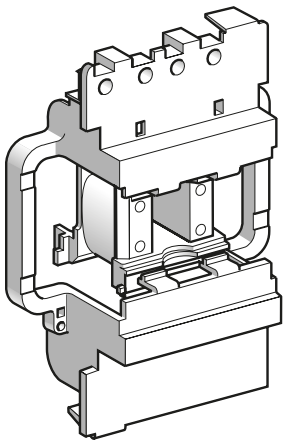

LX1 D8●●

For 3 or 4-pole contactors LC1 D115

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	1.24	0.09	**LX1D8B5**	0.87	0.07	**LX1D8B6**
32	2.14	0.17	**LX1D8C5**	–	–	–
42	3.91	0.28	**LX1D8D5**	–	–	–
48	4.51	0.36	**LX1D8E5**	3.91	0.28	**LX1D8E6**
110	26.53	2.00	**LX1D8F5**	19.97	1.45	**LX1D8F6**
115	26.53	2.00	**LX1D8FE5**	–	–	–
120	–	–	–	24.02	1.70	**LX1D8G6**
127	32.75	2.44	**LX1D8FC5**	–	–	–
208	–	–	–	67.92	5.06	**LX1D8L6**
220	104.77	7.65	**LX1D8M5**	79.61	5.69	**LX1D8M6**
230	104.77	8.29	**LX1D8P5**	–	–	–
240	125.25	8.89	**LX1D8U5**	97.04	6.75	**LX1D8U6**
277	–	–	–	125.75	8.89	**LX1D8W6**
380	338.51	22.26	**LX1D8Q5**	243.07	17.04	**LX1D8Q6**
400	368.43	25.55	**LX1D8V5**	–	–	–
415	368.43	27.65	**LX1D8N5**	–	–	–
440	441.56	30.34	**LX1D8R5**	338.51	22.26	**LX1D8R6**
480	–	–	–	368.43	25.55	**LX1D8T6**
500	566.62	38.12	**LX1D8S5**	–	–	–

For 3 or 4-pole contactors LC1 D115, LC1 D150

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**
42	–	–	–	498	13.32	**LX1D8D7**
48	–	–	–	1061	24.19	**LX1D8E7**
110	–	–	–	4377	109.69	**LX1D8F7**
115	–	–	–	4377	109.69	**LX1D8FE7**
120	–	–	–	4377	109.69	**LX1D8G7**
127	–	–	–	6586	152.65	**LX1D8FC7**
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**
500	–	–	–	32 249	938.41	**LX1D8S7**

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

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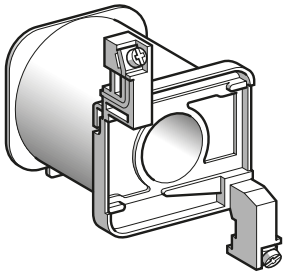

LX4 D7●D

For 3-pole contactors LC1 D80 or 4-pole contactors LP1 D80

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
36	57	4	**LX4D7CD**	0.680
48	107	7.5	**LX4D7ED**	0.680
60	170	11.9	**LX4D7ND**	0.680
72	230	16.1	**LX4D7SD**	0.680
110	564	39.5	**LX4D7FD**	0.680
125	718	50.3	**LX4D7GD**	0.680
220	2215	155	**LX4D7MD**	0.680
250	2850	200	**LX4D7UD**	0.680
440	9195	640	**LX4D7RD**	0.680

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

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TeSys contactors

d.c. coils for TeSys D, 3 or 4-pole contactors

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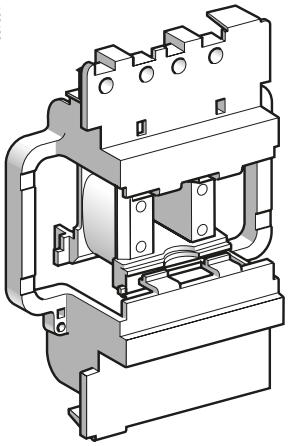

LX4 D8●D

For contactors LC1 D115, 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
48	1061	24.19	**LX4D8ED**	0.300
60	1673	38.44	**LX4D8ND**	0.300
72	2500	56.27	**LX4D8SD**	0.300
110	4377	109.69	**LX4D8FD**	0.300
125	6586	152.65	**LX4D8GD**	0.300
220	9895	210.72	**LX4D8MD**	0.300
250	18 022	345.40	**LX4D8UD**	0.300
440	21 501	684.66	**LX4D8RD**	0.300

For 3-pole contactors LC1 D80 or 4-pole contactors LP1 D80

Specifications

Wide range coils for specific applications
Average consumption: 23 W.
Operating range: 0.75 to 1.2 Uc.
Coils with "TH" treatment as standard.

Control circuit voltage Uc	Average resistance at 20 °C ± 10 %	Inductance of closed circuit	Reference (1)	Weight
V	Ω	H		kg
12	6.2	0.49	**LX4D7JW**	0.680
24	23.5	1.75	**LX4D7BW**	0.680
36	51.9	4.18	**LX4D7CW**	0.680
48	94.2	7	**LX4D7EW**	0.680
72	204	15.7	**LX4D7SW**	0.680
110	483	36	**LX4D7FW**	0.680
220	1922	144	**LX4D7MW**	0.680

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

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