Low voltage
Extract from Tesys Catalogue | 2018

TeSys

Contactors

INTER ELECTRICAS

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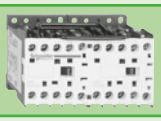
Bogotá Sala de Ventas
Carrera 12 No 13 - 46
PBX: 6013360755 - 6013412439
Celular: 312 3055335

Centro de Distribución
Carrera 18 No 19A - 36
PBX: 6013360755 EXT: 2101

Contactors – TeSys D – TeSys D green

Mini contactors – TeSys SK, K



Contactors for use in modular enclosures / Din rail

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 D65A●●

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	–	80	1	1	**LC1D80A●●** [5]	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 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 B8/33 to B8/36.
*(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) Available end 2017.

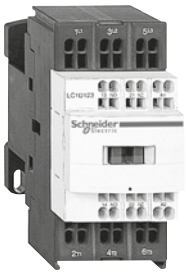
Selection: pages A6/25 to A6/49
Characteristics: pages B8/63 to B8/75
Dimensions: pages B8/76 to B8/79
Schemes: pages B8/83 to B8/84
Click **HERE** for access to online contactor selector

TeSys contactors

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

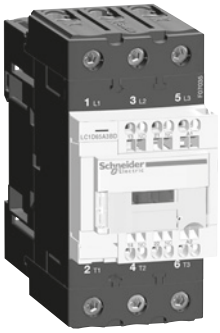
For connection by spring terminals

PF526221R.eps



LC1 D123●●

PF526222R.eps



LC1 D65A3●●

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]
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		80	1	1	**LC1D80A3●●** [6]

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 B8/33 to B8/36.
(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).*
(6) Available in Q2 2018 with AC Coil only.

Selection: pages A6/25 to A6/49
Characteristics: pages B8/63 to B8/75
Dimensions: pages B8/76 to B8/79
Schemes: pages B8/83 to B8/84
Click HERE for access to online contactor selector

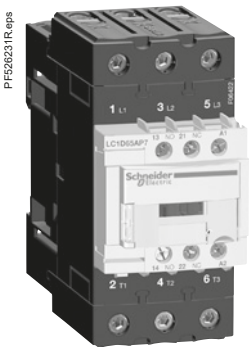
TeSys contactors

TeSys D, 3-pole contactors

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

PF526230R.eps

LC1 D09●●



PF526231R.eps

LC1 D65A●●

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) (7)	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 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 B8/33 to B8/36.

*(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.

(7) Available end 2017.

Selection: pages A6/25 to A6/49
Characteristics: pages B8/63 to B8/75
Dimensions: pages B8/76 to B8/79
Schemes: pages B8/83 to B8/84
Click HERE for access to online contactor selector

TeSys contactors

TeSys D, 3-pole contactors

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

PF526232R.eps

LC1 D123●●

PF526233R.eps

LC1 D65A3●●

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	**LC1D80A●●** [8] [9]	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...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**	
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…D80A (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 B8/33 to B8/36.
*(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.
(9) Available end 2017.

TeSys contactors

TeSys D, 4-pole contactors

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

PF526227R.eps

LC1 DT20●●

PF526228R.eps

LC1 DT80A●●

PF526229R.eps

LC1 D65008●●

4-pole contactors for connection by screw clamp terminals or connectors

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						
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: **LC1 DT20●●** becomes **LC1 DT206●●**.

(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 and LC1 DT20...DT80A (LC1 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	–
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…D25 and LC1 DT20...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
LC1 DT60A …DT80A (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
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	–	–
LC1 D115 (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...D25 and LC1 DT20...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 B8/33 to B8/36.

*(2) **LC1 D09** to **D38** and **LC1 DT20** to **DT80A**: clip-on mounting on 35 mm ⊔ rail **AM1 DP** or screw fixing.*
*__LC1 D80__ ∿: clip-on mounting on 35 mm ⊔ rail **AM1 DP** or 75 mm ⊔ rail **AM1 DL** or screw fixing.*
*__LC1__ or __LP1 D80__ ⎓: 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 DT60A** and **D80A** and 1 kg for **LC1 D80**.*

Selection: pages A6/25 to A6/49
Characteristics: pages B8/63 to B8/75
Dimensions: pages B8/76 to B8/79
Schemes: pages B8/83 to B8/84
Click **HERE** for access to online contactor selector

TeSys contactors

TeSys D, 4-pole contactors

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

4-pole contactors

Non inductive loads maximum current ($\theta \leq 60$ °C) utilisation category AC-1	Number of poles		Instan-taneous 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 B8/23 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...D25 and LC1 DT20...DT80A													
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…D25 and LC1 DT20... 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
LC1 DT60A...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**
LC1 D09...D25 and LC1 DT20...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 B8/33 to B8/36.

*(2) **LC1 D09** to **D38** and **LC1 DT20** to **DT80A**: clip-on mounting on 35 mm ⊔ rail **AM1DP** 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 for **LC1 DT60A** and **DT80A**.*

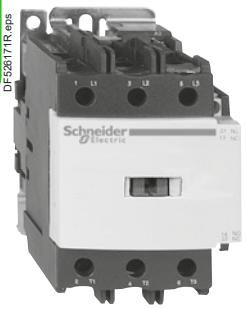
TeSys contactors

For the North American market, Conforming to UL and CSA standards 25 to 160 A

LC1 D09●●

LC1 D25●●

LC1 D65A●●



LC1 D95●●

Contactors

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 (1)
Single-phase 1 Ø		3-phase 3 Ø						
120 V	240 V	208 V	240 V	480 V	600 V			Fixing, connection (2)
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●●**
2	5	10	10	20	25	AWG 14 - 6	50	**LC1D38●●**
Power connections by EverLink® BTR screw connectors (4) 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: 100kA (D09-80, D115-150) at 600V with Class J fuses and 85kA (D09-38), 100kA (D40A-80, D115-150) at 480V and 50kA (D09-80, D115-150) at 600V with circuit breakers.

Application example

For a 15 HP-230 V motor

Select a contactor type **LC1 D50A**.

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

(1) 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**
LC1 D09…D150 (D115 and D150 coils with built-in suppression device as standard)																
50/60 Hz	B7	D7	E7	F7	FE7	G7	LE7	M7	P7	U7	Q7	V7	N7	R7	T7	S7
LC1 D80…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**
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
LC1 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 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**
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	SL	FL	ML	UL

*(2) **LC1 D09** to **D65A**: clip-on mounting on 35 mm ⊥ rail **AM1 DP** or screw fixing.*
__LC1 D80__ and __LC1 D95__: clip-on mounting on 35 mm ⊥ rail __AM1 DP__ or 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.

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

INTER ELECTRICAS

TeSys D Green

The dark grey body identifies the new generation of contactors.

TeSys D Green belongs to it, bringing valuable advantages:

- 80 % less consumption than TeSys D with standard coil, reducted heating
- suitable for direct control by PLC output up to 37 kW (80 A)
- coil embedded electronic control accepting both AC and DC supply in a wide voltage band (except BBE-24 V DC).

TeSys D Green dimensions similar to TeSys D AC coil, making it fully compatible with all TeSys D auxiliaries and accessories.

TeSys D Green is specifically designed for activation by its dedicated wide band coils.

Bogotá Sala de Ventas
Carrera 12 No 13 - 46
PBX: 6013360755 - 6013412439
Celular: 312 3055335

Centro de Distribución
Carrera 18 No 19A - 36
PBX: 6013360755 EXT: 2101

TeSys D Green, enriching TeSys D family

TeSys D conventional contactors 9 to 150 A, for motor control and other applications

TeSys D Green delivers a consistent low consumption range of contactors from 9 A to 80 A, covering control voltage from 24 to 500 V, with same coils for AC and DC

9 - 12 - 18 A

25 - 32 - 38 A

40 - 50 - 65 A

80 A*

80 - 95 A

115 - 150 A

* New available end 2017.

9 - 12 - 18 A

25 - 32 - 38 A

40 - 50 - 65 A

40 - 50 - 65 - 80 A
Direct control by 24 V/500 mA DC I/O, with coil ref. BBE

When implemented with other Schneider Electric products*, TeSys D Green contactors are part of a comprehensive solution that is ideal for all types of industrial machines and processes.

TeSys Solink + PLC

SoLink ensures the compatibility of circuit breaker and contactor assemblies with screw clamp terminals to the RJ45 connection system. It also can be used with the TeSys D Green BBE offer.

With SoLink, we provide prewired motor starters ready to be connected to PLC I/O, which saves you time and labor.

TeSys LR9D

By combining a TeSys D Green contactor with our new TeSys LR9D 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 electronic overload relays LR9D or TeSys T.

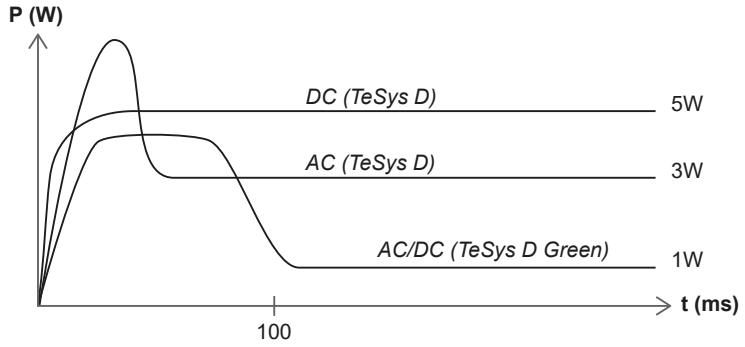
Highly competitive coil consumption

Small changes can generate big savings. The new TeSys D 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

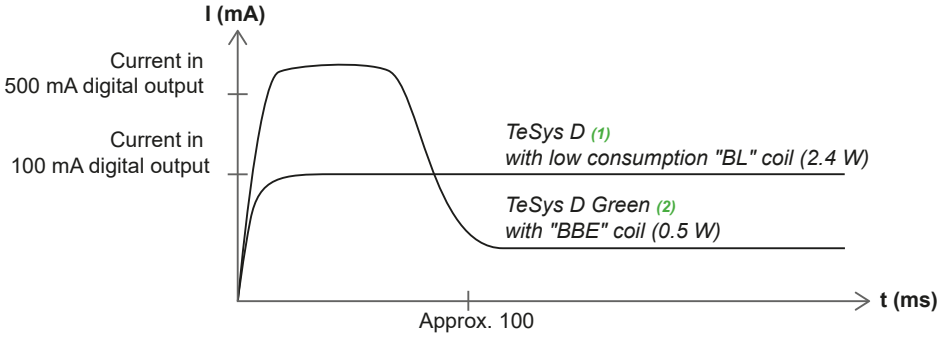
Coil currents comparison

TeSys D Green (AC/DC coil) vs Tesys D (AC, DC coils)



TeSys D Green brings a significant reduction of energy consumption.

TeSys D Green ("BBE" coil) vs TeSys D (low consumption "BL" coil)



(1) Up to 38 A.
(2) 40 to 80 A.

TeSys D Green is well adapted to direct control by PLC static outputs, even in its high ratings.

TeSys contactors

TeSys D Green

Coordination with PLC DC and relay output modules

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

The PLC your are using				>>>	Compatible contactors (1)	Coil code
PLC type	**Output type**	**Output I (A)**	**Output module commercial reference**			
M221 / M241 / M251	Static output: 24 V DC	0.5	TM3DQ8●●● and Q16●●● (T, TG, U, UG)	>>>	LC1D09●● to LC1D38●●, LC1D40A●●● to LC1D80A, LC1DT60A●●● to LC1DT80A●●●	BL, BNE BBE
		0.3 (sealed) 0.8 (inrush)	TM3XTYS4	>>>	LC1D40A●●● to LC1D80A, LC1DT60A●●● to LC1DT80A●●●	BBE, BL, BD, BNE
		0.1	TM3DQ16●● and Q32●● (TK, UK)	>>>	LC1D09●● to LC1D38●●	BL
	Relay output: 24 V DC / 230 V AC	2	TM3DQ8 and DQ16 (R,RG), TM3DM8 and DM24 (R,RG)	>>>	LC1D09●● to LC1D38●●, LC1D40A●●● to LC1D80A, LC1DT60A●●● to LC1DT80A●●●	Code of any DC coil up to 24 V or any AC coil up to 230 V
M340 / M580	Static output: 24 V DC	0.5	BMXDDO1602 and DM16022	>>>	LC1D09●● to LC1D38●● LC1D40A●●● to LC1D80A, LC1DT60A●●● to LC1DT80A●●●	BL, BNE BBE
		0.1	BMXDDO3202, BMXDDM3202K, BMXDDO6402K	>>>	LC1D09●● to LC1D38●●	BL
	Relay output: 24 V DC / 230 V AC	2	BMXDRA0805 and DM16025	>>>	LC1D09●● to LC1D38●●, LC1D40A●●● to LC1D80A, LC1DT60A●●● to LC1DT80A●●●	Code of any DC coil up to 24 V or any AC coil up to 230 V
	Triac output: 230 V AC	0.6	BMXDAO1605	>>>	LC1D09●● to LC1D38●●, LC1D40●●● to LC1D80A●●●, LC1DT60A●●● to LC1DT80A●●●	Code of any AC coil up to 230 V (P7 code = 230 V)
ADVANTYS	Static output: 24 V DC	0.5	STBDDO3200	>>>	LC1D09●● to LC1D38●● LC1D40A●●● to LC1D80A, LC1DT60A●●● to LC1DT80A●●●	BL, BNE BBE
	Triac output: 230 V AC	2	STBDAO8210	>>>	LC1D09●● to LC1D38●●, LC1D40A●●● to LC1D80A, LC1DT60A●●● to LC1DT80A●●●	Code of any AC coil up to 230 V (P7 code = 230 V AC)

Coils consumption characteristics

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

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

TeSys D Green contactors

For motor control up to 37 kW / 400 V Category AC-3

PB116859.eps

LC1 D09●●●

PB116857.eps

LC1 D40A●●●

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	Weight
220 V 230 V	380 V 400 V	415 V	440 V	500 V	660 V 690 V				Fixing [1]	
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 [2] 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	80	1	1	**LC1D80A●●●** [3]	1.002

Auxiliary contact blocks and add-on modules

See pages 10 to 14.

Control voltage codes

AC/DC or 24 V DC supply

Volts	24 (DC only)	24-60	48-130	100-250	250 V - 415 V AC / 250 V - 500 V DC
LC1D09 ...D38, LC1D40A ... D80A					
U 0.85...1.1 Uc		BNE	EHE	KUE	USE [3]
LC1D09 ... D38					
U 0.8 ... 1.2 Uc	BNE				
LC1D40A ... D80A					
U 0.8…1.2 Uc	BBE				

*(1) **LC1 D09** to **D80A**: clip-on mounting on 35 mm ⊔ rail AM1 DP or screw fixing.*
(2) 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 14).
(3) Available in 2018.

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

TeSys D Green contactors

For load control from 25 to 80 A Category AC-1

PB116859.eps

LC1 D09●●●

PB116857.eps

LC1 D40A●●●

DB424871.eps

LC1 DT60A●●●

3-pole contactors

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	Weight
				Fixing [1]	
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 [2]					
60	3	1	1	**LC1D40A●●●**	0.992
80	3	1	1	**LC1D50A●●●**	0.997
				or **LC1D65A●●●** [3]	1.002
				or **LC1D80A●●●** [3] [4]	1.002

4-pole contactors [4]

Connection by EverLink®, BTR [2] screw connectors					
60	4	1	1	**LC1DT60A●●●**	1.230
80	4	1	1	**LC1DT80A●●●**	1.290

4-pole changeover contactors [4]

Connection by EverLink®, BTR [2] 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	250 V - 415 V AC / 250 V - 500 V DC
LC1 D09…D80A and LC●DT60A...DT80A					
U 0.85 .... 1.1 Uc		BNE	EHE	KUE	USE [5]
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) **LC1 D09** to **D80A**, **LC●DT60A** and **LC●DT80A**: clip-on mounting on 35 mm ⊥⌊ rail **AM1 DP** or screw fixing.*
*(2) 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 14).*
(3) Selection according to the number of operation cycles, consult online datasheets for values.
(4) Available end of 2017.
(5) Available 2018.

Contactors

Click HERE for access to online contactor selector

TeSys D Green contactors

For North American market, conforming to UL and CSA standards 25 to 80 A

PB116859.eps

LC1 D09●●●

PB116857.eps

LC1 D40A●●●

Contactors

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
Single-phase 1 Ø		3-phase 3 Ø						Fixing, connection [1]
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 [2] 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●●●** [3]

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	250 V - 415 V AC / 250 V - 500 V DC
LC1D09 ... D32, LC1D40A ... D80A					
U 0.85 .... 1.1 Uc		BNE	EHE	KUE	USE [4]
LC1D09 ... D38					
U 0.8 .... 1.2 Uc	BNE				
LC1D40A ... D80A					
U 0.8…1.2 Uc	BBE				

*(1) **LC1 D09** to **D80**: clip-on mounting on 35 mm ⊥ rail **AM1 DP** or screw fixing.*
*(2) 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 14).*
(3) Available end of 2017.
(4) Available in 2018.

Click HERE for access to online contactor selector

TeSys contactors

TeSys D, 3-pole reversing contactors for motor control up to 75 kW at 400 V, in category AC-3 Horizontally mounted, pre-assembled


DF526172R.eps

LC2 D12●●


DF526173R.eps

LC2 D65A●●


DF526175R.eps

LC2 D115●●

3-pole reversing contactors for connection by screw clamp terminals

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 [2]	Weight [3]
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				kg
With mechanical interlock, without electrical interlocking, for connection by screw clamp terminals or connectors											
2.2	4	4	4	5.5	5.5	–	9	1	1	**LC2D09●●** [4]	0.687
3	5.5	5.5	5.5	7.5	7.5	–	12	1	1	**LC2D12●●** [4]	0.697
4	7.5	9	9	10	10	–	18	1	1	**LC2D18●●** [4]	0.707
5.5	11	11	11	15	15	–	25	1	1	**LC2D25●●** [4]	0.787
7.5	15	15	15	18.5	18.5	–	32	1	1	**LC2D32●●** [4]	0.797
9	18.5	18.5	18.5	18.5	18.5	–	38	1	1	**LC2D38●●** [4]	0.807
11	18.5	22	22	22	30	–	40	1	1	**LC2D40A●●**	1.870
15	22	25	30	30	33	–	50	1	1	**LC2D50A●●**	1.880
18.5	30	37	37	37	37	–	65	1	1	**LC2D65A●●**	1.890
22	37	45	45	55	45	–	80	1	1	**LC2D80●●**	3.200
25	45	45	45	55	45	–	95	1	1	**LC2D95●●**	3.200
With mechanical interlock and electrical interlocking, for connection by screw clamp terminals or connectors											
30	55	59	59	75	80	65	115	1	1	**LC2D115●●**	6.350
40	75	80	80	90	100	75	150	1	1	**LC2D150●●**	6.400

Connection by lugs or bars

For reversing contactors LC2 D09 to LC2 D38, LC2 D115 and LC2 D150, in the references selected above, insert a figure **6** before the voltage code. Example: **LC2 D09●●** becomes **LC2 D096●●**.
To build a 40 to 65 A reversing contactor, for connection by lugs, order 2 contactors **LC1 D●●A6** and mechanical interlock **LAD 4CM** (see page B8/31).

Component parts

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

*(1) LC2 D09 to D65A: clip-on mounting on 35 mm ⊔ rail **AM1 DP** or screw fixing.*
*LC2 D80 and D95: clip-on mounting on 35 mm ⊔ rail **AM1 DP** or 75 mm ⊔ rail **AM1 DL** or screw fixing.*
*LC2 D115 and D150: clip-on mounting on 35 mm ⊔ rail **AM1 DP** or screw fixing.*

(2) Standard control circuit voltages (for other voltages between 16 and 690 V, please consult your Regional Sales Office):

a.c. supply													
Volts	**24**	**42**	**48**	**110**	**115**	**220**	**230**	**240**	**380**	**400**	**415**	**440**	**500**
LC2 D09…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
LC2 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**
LC2 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
LC2 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**
LC2 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 B8/33 to B8/36.

*(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 **LC2 D09** to **D38**, 0.150 kg for **LC1 D40A** to **D65A**.*

*(4) For reversing contactors with electrical interlocking pre-wired at the factory, add suffix **V** to the references selected above.*
*Example: **LC2 D09P7** becomes **LC2 D09P7V**.*

(5) Available end 2017, with AC coil only.

***Note:** when assembling a reversing contactor, it is good practice to incorporate a 50 ms time delay.*

Contactors

Selection: pages A6/25 to A6/49
Characteristics: pages B8/63 to B8/75
Dimensions: pages B8/85 and B8/86
Schemes: pages B8/87 and B8/88
Click HERE for access to online contactor selector

TeSys contactors

TeSys D, 3-pole reversing contactors for motor control up to 15 kW at 400 V, in category AC-3 Horizontally mounted, pre-assembled

DF526174R.eps

LC2 D123●●

3-pole reversing contactors, for connection by spring terminals

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 [2]	Weight [3]
220 V 230 V	380 V 400 V	415 V	440 V	500 V	660 V 690 V				Fixing [1]	
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 LC2 D09 and LC2 D12 only, in the references selected above, replace the figure **3** before the voltage code with a figure **9**.
Example: **LC2 D093●●** becomes **LC2 D099●●**.

Component parts

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

*(1) LC2 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**	**500**
LC2 D09…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**		
LC2 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		
LC2 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**					
LC2 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 B8/33 to B8/36.
*(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 **LC2 D09** to **D38**, 0.150 kg for **LC1 D40A** 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 **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).*

TeSys D Green reversing contactors

For motor control up to 37 kW / 400 V Category AC-3

DB424874.eps

LC2 D09●●●

DB424870.eps

LC2 D40A●●●

3-pole reversing contactors

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	Weight
220 V 230 V	380 V 400 V	415 V	440 V	500 V	660 V 690 V				Fixing [1]	
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 [2] [3]										
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●●●** [4]	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●●●** [2]	2.154
15	22	25	30	30	33	50	1	1	**LC2D50A●●●** [2]	2.164
18.5	30	37	37	37	37	65	1	1	**LC2D65A●●●** [2]	2.174
22	37	37	37	37	37	80	1	1	**LC2D80A●●●** [2] [4]	2.174

Auxiliary contact blocks and add-on modules

See pages 10 to 15.

Coil voltage codes

AC/DC 24 V DC supply

Volts	24 (DC only)	24-60	48-130	100-250	250 V - 415 V AC / 250 V - 500 V DC
LC2D09...D32, LC2D40A ... D80A					
U 0.85...1.1 Uc		BNE	EHE	KUE	USE [4]
LC2D09...D38					
U 0.8...1.2 Uc	BNE				
LC2 D40A ...D80A					
U 0.8...1.2 Uc	BBE				

*(1) **LC2 D09** to **D80A**: clip-on mounting on 35 mm ⊔ rail AM1 DP or screw fixing.*
*(2) 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 14).*
(3) Electrical interlocking is recommended when 2 orders (direct and reverse) could appeared in the same time.
(4) Available 2018.

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

TeSys contactors

TeSys D, 4-pole changeover contactor pairs for control in category AC-1, 20 to 200 A

PF526178R.eps

LC2 DT20●●

Pre-assembled. Pre-wired power connections

For connection by screw clamp terminals or connectors

LC2 DT20 to LC2 DT40: mechanical interlock without electrical interlocking.
LC2 D80004: order separately 2 auxiliary contact blocks LAD N●1 to obtain electrical interlocking between the 2 contactors (see page B8/23).
For electrical interlocking incorporated in the mechanical interlock, please consult your Regional Sales Office.
LC2 D115004: mechanical interlock with integral, pre-wired electrical interlocking.

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) Fixing (2)	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●●** (3)	–
80	1	1	**LC1DT80A●●** (3)	–
For connection by lugs or bars				
60	1	1	**LC1DT60A6●●** (3)	–
80	1	1	**LC1DT80A6●●** (3)	–

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

Note: when assembling changeover contactor pairs, it is good practice to incorporate a 50 ms time delay.
(1) See note (1) on next page.
*(2) **LC2 DT20** to **LC2 DT80**: clip-on mounting on 35 mm ⊔ rail **AM1 DP** or screw fixing.*
*__LC2 D80:__ clip-on mounting on 35 mm ⊔ rail **AM1 DP** or 75 mm ⊔ rail **AM1 DL** or screw fixing.*
*__LC2 D115__: clip-on mounting on 2 x 35 mm ⊔ rails **AM1 DP** or screw fixing.*
*(3) For these operational currents, order 2 identical contactors and a mechanical interlock **LAD 4CM** (see page B8/31).*

TeSys contactors

TeSys D, 4-pole changeover contactor pairs for control in category AC-1, 20 to 80 A

Pre-assembled. Pre-wired power connections

For connection by spring terminals.

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 control voltage code (1) Fixing (2)
A			
20	1	1	**LC2DT203●●**

For customer assembly

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 B8/23 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
LC2 DT20…DT40, LC2 DT60A…DT80A													
50/60 Hz	B7	D7	E7	F7	FE7	M7	P7	U7	Q7	V7	N7	R7	–
LC2 D80004…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
LC2 DT20…DT40, LC1 DT60…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
LC2 DT20...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 B8/33 to B8/36.

*(2) Clip-on mounting on 35 mm ⊔ rail **AM1 DP** 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 **LAD ALLEN4**, see page B8/29).*

*(4) For these operational currents, order 2 identical contactors and a mechanical interlock **LAD 4CM** (see page B8/31).*

TeSys contactors

For switching 3-phase capacitor banks, used for power factor correction

Direct connection without choke inductors

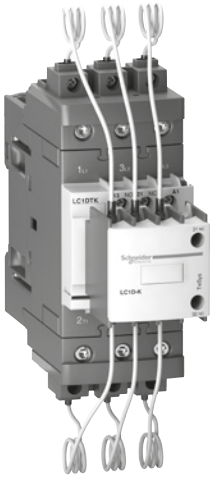
PB114163R.eps

LC1 DFK●●

PB114165R.eps

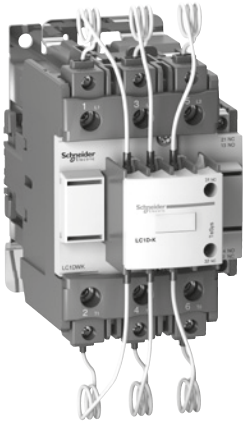
LC1 DGK●●, LC1 DLK●●, LC1 DMK●●

PB115168.eps



LC1 DPK●●, LC1 DTK●●

PB115169.eps



LC1 DWK12●●

Special contactors

Special contactors **LC1 D●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	LC1 D●K		200 In
Maximum operating rate	LC1 DFK, DGK, DLK, DMK		240 operating cycles/hour
	LC1 DPK, DTK, DWK		100 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)	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)

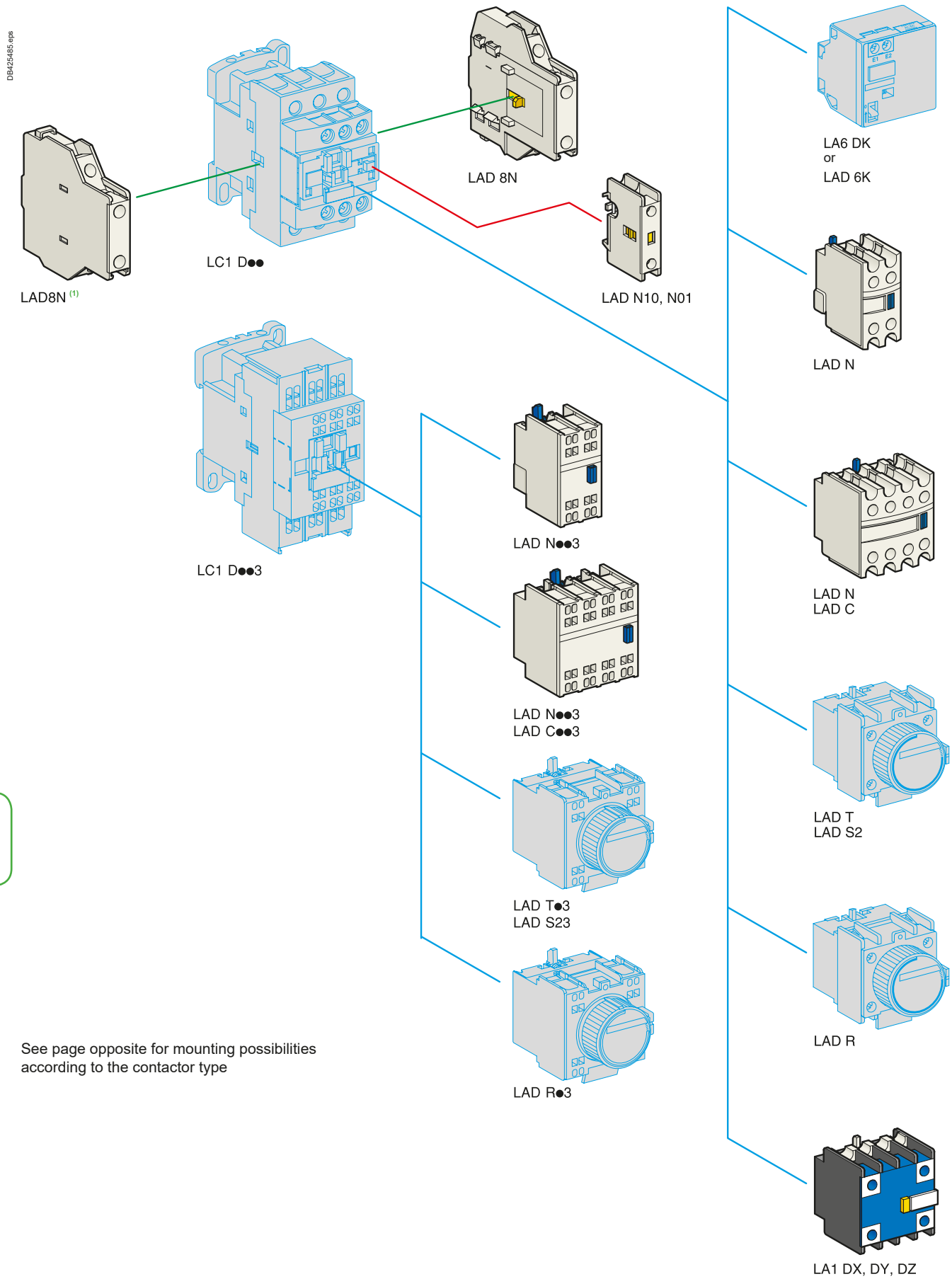
The correct contactor for each step is selected from the above table, according to the power rating of the step to be switched.
Example: 50 kVAR 3-step capacitor bank. Temperature: 50 °C and U = 400 V or 440 V.
One 25 kVAR step: contactor LC1 DMK, one 15 kVAR step: contactor LC1 DGK,
and one 10 kVAR step: contactor LC1 DFK.

(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

Dimensions, schemes:
page B8/89

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 TeSys D Green contactors.

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:

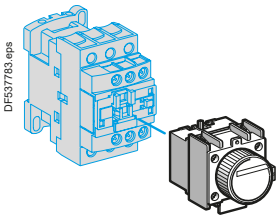
Contactors			Instantaneous auxiliary contacts					Time delay
Type	Number of poles and size		Side mounted		Front mounted			Front mounted
					1 contact	2 contacts	4 contacts	
AC AC/DC	3P	LC1 D09…D38	1 on LH or 1 on RH side(1)	and	–	1	or 1	or 1
		LC1 D40A…D80A	1 on LH or 1 on RH side	and	–	1	or 1	or 1
		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.

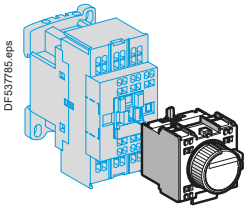
TeSys contactors

TeSys D contactors and reversing contactors

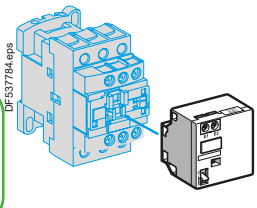
Time delay auxiliary contact blocks Mechanical latch blocks



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

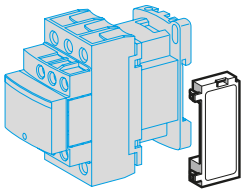
(3) The DC, low consumption contactors (coil code ●L) are not compatible with the mechanical latch blocks LAD6K10●.

Contactors

TeSys contactors

TeSys D contactors and reversing contactors

Suppressor modules

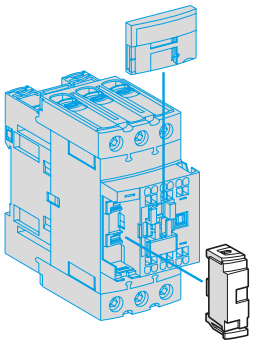


LAD 4●●

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**

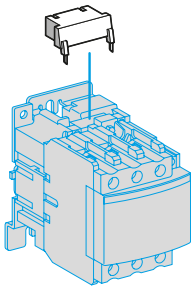


LAD 4RC3●, LAD 4V3●, LAD 4D3U, LAD 4T3●

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

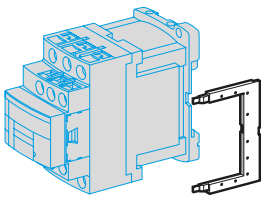
No overvoltage or oscillating frequency. Increase in drop-out time (6 to 10 times the normal time). Polarised component.

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

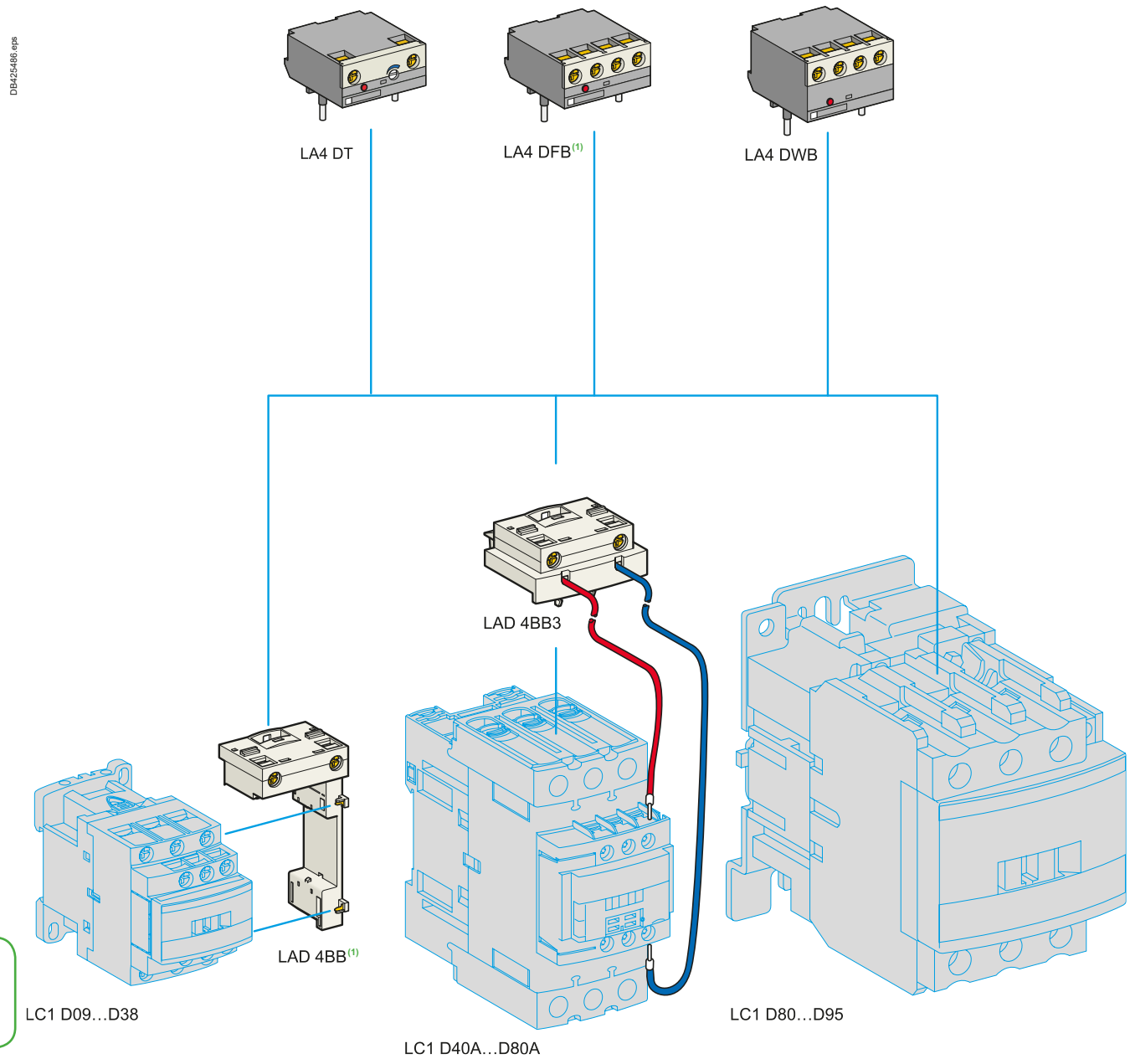
(1) For satisfactory protection, a suppressor module must be fitted across the coil of each contactor except for TeSys D Green (●●E coil), as surge protection is already embedded.

*(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.



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

(1) For TeSys D with AC coil only.

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

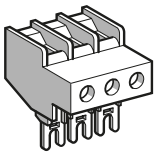
For use on contactors			Reference
LC1 D09…D38	Without coil suppression		**LAD4BB** (3)
	With coil suppression	∼ 24…48 V	**LAD4BBVE**
		∼ 50…127 V	**LAD4BBVG**
		∼ 110…250 V	**LAD4BBVU**
LC1 D40A…80A	Without coil suppression		**LAD4BB3**

(1) For 24 V operation, the contactor must be fitted with a 21 V coil (code Z). See pages B8/33 to B8/36.
(2) The kit is compatible with a coil voltage of ∼ 24 V to ∼ 250 V (B7 to U7) and ⎓ 24 V to ⎓ 250 V (BD to UD).
(3) LAD4BB can not be used with 4 poles contactors.

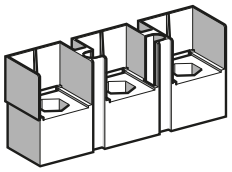
TeSys contactors

TeSys D contactors and reversing contactors

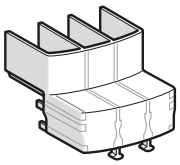
Accessories



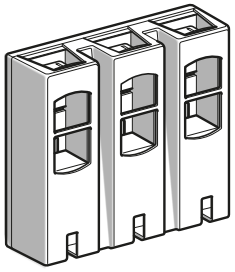
LA9 D3260



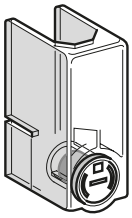
LA9 D11550●



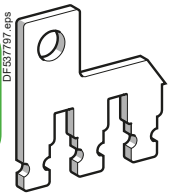
LAD 96570



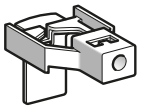
LA9 D11560●



LA9 D11570●



LA9 D80962



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

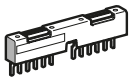
Dimensions:
pages B8/76 to B8/79

Schemes:
pages B8/83 to B8/84

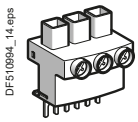
TeSys contactors

TeSys D contactors and reversing contactors

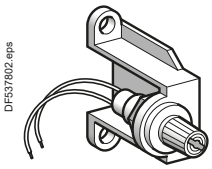
Accessories



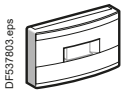
GV2 G245



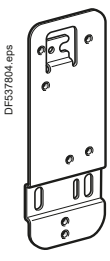
GV1 G09 *GV3 S*



LA9 D941



LAD 9ET●



LAD 7X3

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**

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**

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**

(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.

TeSys contactors

Capacitive delayed opening devices

For TeSys D contactors

PF511116-32-MR.eps

LAZ R90F

PF511117-32-MR.eps

LAZ R91F

References

These devices prevent inadvertent opening of a contactor in the event of a brief volt drop or momentary supply failure.

Control circuit: d.c. supply				
For use with contactor		Corresponding delayed opening device		
Type (1)	Contactor reference to be completed (2)	Supply voltage 50/60 Hz	Non-adjustable delay time (Tr)	Reference
		V	s	
LC1 D09, LC1 D12, LC1 D18, LC1 D25, LC1 D32 or LC1 D38	**LC1 D●●PD**	110…115	1.5…5	**LAZR90F**
	LC1 D●●QD	120…127	2.5…5	**LAZR90F**
	LC1 D●●TD	220	4…8	**LAZR90M**
	LC1 D●●VD	240	5…10	**LAZR90M**
	LC1 D●●WD	380	4…8	**LAZR90Q**
	LC1 D●●XD	415…440	5.5…13	**LAZR90Q**
LC1 D40, LC1 D50 or LC1 D65	**LC1 D●●PD**	110…115	0.5…1	**LAZR90F**
	LC1 D●●TD	220…240	1…2.5	**LAZR90M**
	LC1 D●●WD	380	1…2.5	**LAZR90Q**
	LC1 D●●XD	415…440	1…3	**LAZR90Q**
LC1 D80	**LC1 D●●PD**	110…120	0.4…1	**LAZR90F**
	LC1 D●●QD	120…127	0.5…1	**LAZR90F**
	LC1 D●●TD	220	0.5…2	**LAZR90M**
	LC1 D●●VD	240	1…2.5	**LAZR90M**
	LC1 D●●WD	380	1…2	**LAZR90Q**
	LC1 D●●XD	415…440	1…2.5	**LAZR90Q**

Add-on blocks for delayed opening devices				
Application	For use with delayed opening device	Operational voltage	Non-adjustable delay time	Reference
		V	s	
To double the delay time	LAZ R90F	110…127	Tr x 2	**LAZR91F**
	LAZ R90M	220…240	Tr x 2	**LAZR91M**
	LAZ R90Q	380…440	Tr x 2	**LAZR91Q**

(1) These contactors can be supplied as standard for this application or can be adapted by replacing the coil (except for contactors LC1 D09●●●● to LC1 D38●●●● on which the coil is not replaceable).

(2) Reference to be completed: see page B8/2.

Dimensions

LAZ R9●●

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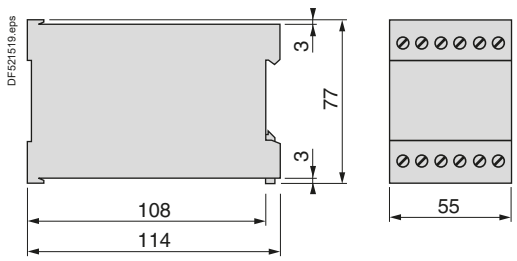

Schemes

LAZ R9●● + LC1 D

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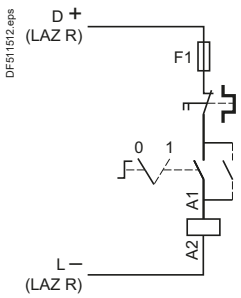

Other versions

Delayed opening devices for use with other types of contactor. Please consult your Regional Sales Office.

TeSys contactors

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

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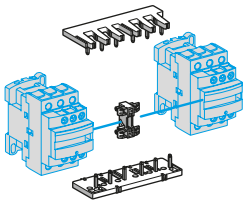

LAD 9R1

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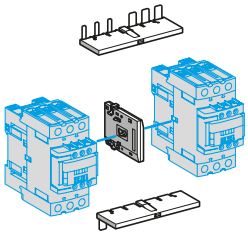

LAD 9R3

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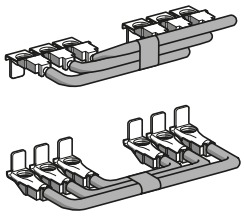

LA9 D8069

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
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 and D12	**LAD91217**
	LC1 D18 to D32	**LAD93217**
	LC1 D40A and D50A	**LAD9SD3**
	LC1 D80	**LA9D8017**
Equipment mounting plates	LC1 D09, D12 and D18	**LA9D12974**
	LC1 D32	**LA9D32974**
	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**).*

TeSys contactors

Component parts for assembling changeover contactor pairs

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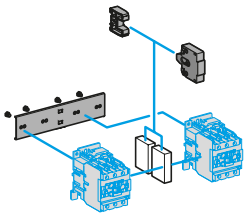

LA9 D50978

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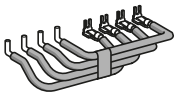

LA9 D6570

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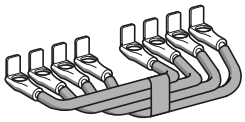


LA9 D8070

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

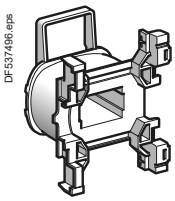
Contactors with screw clamp terminals or connectors. Horizontally mounted, assembled by customer.

Description	For contactors [1] (2 identical contactors)	Reference
Mechanical interlocks		
Without integral electrical interlocking	LC1 D40A…D80A	**LAD9R3S**
With integral electrical interlocking	LC1 D115 and D150	**LA9D11502**
Sets of power connections		
Comprising a set of parallel bars	LC1 D40A…D65A	**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.*

TeSys contactors

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



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 B8/64 and asq*
*(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 B8/64 and B8/66).*

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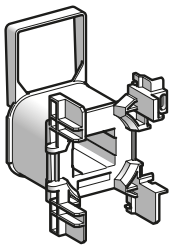


LXD 3●●

For ∼ contactors LC1 D40A…D65A, LC1 DT60A and LC1 DT80A

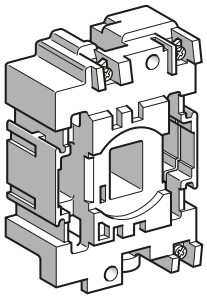
Specifications

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 B8/64 and B8/66).*
*(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 B8/64 and B8/66).*
(5) This coil can only be used on 60 Hz.



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 B8/64 and B8/66. 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 B8/64 and B8/66.*

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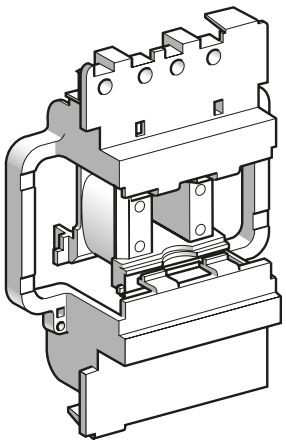


LX1 D8●●

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.

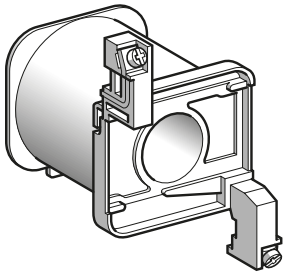
Operating range (θ ≤ 55 °C): 0.8…1.15 Uc.

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.

537503



LX4 D7●D

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

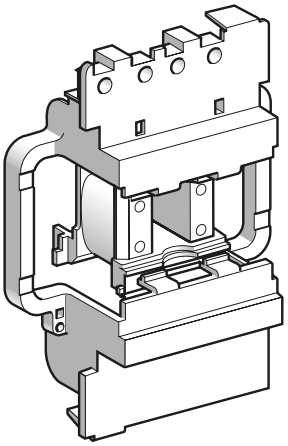
Specifications

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.

537504



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.

TeSys contactors

Mini-contactors TeSys LC1 SK and LP1 SK

PF511131R.eps

LC1 SK06

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

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]
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 ($\theta \leq 55$ °C) utilisation category AC-1	Control circuit supply	Number of poles	Instantaneous auxiliary contacts		Basic reference. Complete with code indicating control circuit voltage [2]
A					
12	a.c.	2	–	–	**LC1SK0600●●**
	d.c.	2	–	–	**LP1SK0600●●**

PF511132R.eps

LA1 SK10

Add-on block with 1 power pole (for 3-phase circuits)

For use on contactor	Number of poles	Instantaneous auxiliary contacts		Reference
LC1 SK06 clip-on front mounting	1	1	–	**LA1SK10**
	1	–	1	**LA1SK01**

Note: *Auxiliary contact blocks and coil suppressor module, see next page.*

(1) For use in AC-3 category and 3-phase circuits, an LA1 SK●● 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 LC1 SK									
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 LP1 SK									
Volts ⎓	**12**	**24**	**36**	**48**	**72**				
Code	JD	BD	CD	ED	SD				

Characteristics: pages B8/90 to B8/93
Dimensions, schemes: page B8/94
Click HERE for access to online contactor selector

TeSys contactors

Mini-contactors TeSys LC1 SK and LP1 SK

Instantaneous auxiliary contacts and coil suppressor modules

PF511133R.eps

LA1 SK11

PF511134R.eps

LA4 SK●1●

Instantaneous auxiliary contact blocks

Clip-on front mounting

For use on contactor	Maximum number of blocks per contactor	Composition		Reference
LC1 SK06	1	2	–	**LA1SK20**
		–	2	**LA1SK02**
		1	1	**LA1SK11**

Coil suppressor modules

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

For use on contactors	Type	For voltages	Sold in lots of	Unit reference
LC1 SK06 and LP1 SK06	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 B8/90 to B8/93
Dimensions, schemes: page B8/94

TeSys contactors

Contactors for motor control, 6 to 16 A in category AC-3 and 6 to 12 A in category AC-4

Control circuit: a.c.

PF511137R.eps

LC1 K0910●●

PF511138R.eps

LC1 K09103●●

PF511139R.eps

LC1 K09107●●

PF511140R.eps

LC1 K09105●●

PF511141R.eps

LC7 K0910●●

Contactor selection according to utilisation category, see pages A6/25 to A6/29 and A6/32 to A6/35.
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 B8/51 to B8/53.

3-pole contactors for standard applications

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: **LC1 K0610●●** becomes **LC1 K06103●●.**

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: **LC1 K0610●●** becomes **LC1 K06107●●**.

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: **LC1 K0610●●** becomes **LC1 K06105●●**.

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: **LC7 K0610●●** becomes **LC7 K06107●●**.

Solder pins for printed circuit boards

In the references selected above, insert a figure **5** before the voltage code.
Example: **LC7 K0610●●** becomes **LC7 K06105●●**.

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

a.c. supply (4)

Contactors LC1 K (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**.

Contactors LC7 K (0.85…1.1 Uc)

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

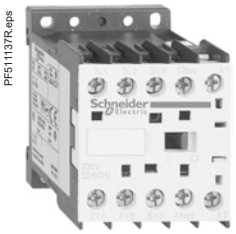
(2) For mains supplies with a high level of interference (voltage surge > 800 V), use a suppressor module LA4 KE1FC (50…129 V) or LA4 KE1UG (130…250 V), see page B8/52.
(3) For LC●K●●●●3 / LP●K●●●●3 with spring terminal, Ith max = 10 A.
(4) (0.8…1.15 Uc) for single voltage coil; (0.85…1.1 Uc) for dual voltage coil, exemple 200/208 V AC.

Contactors

TeSys contactors

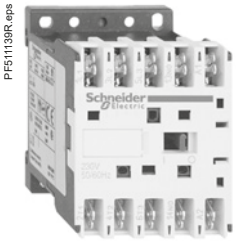
Contactors for motor control, 6 to 12 A in categories AC-3 and AC-4

Control circuit: d.c. or low consumption



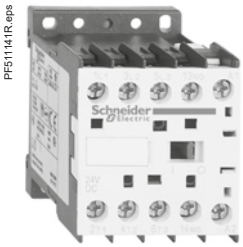
LP1 K0910●●

LP1 K09103●●



LP1 K09107●●

LP1 K09105●●



LP4 K0910●●

Contactor selection according to utilisation category, see pages A6/25 to A6/29 and A6/32 to A6/35.
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 B8/51 to B8/53.

3-pole contactors, d.c. supply

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	–	**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: **LP1 K0610●●** becomes **LP1 K06103●●**.

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: **LP1 K0610●●** becomes **LP1 K06107●●**.

Solder pins for printed circuit boards

In the references selected above, insert a figure **5** before the voltage code.
Example: **LP1 K0610●●** becomes **LP1 K06105●●**.

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: **LP4 K0610●●** becomes **LP4 K06103●●**.

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: **LP4 K0610●●** becomes **LP4 K06107●●**.

Solder pins for printed circuit boards

In the references selected above, insert a figure **5** before the voltage code.
Example: **LP4 K0610●●** becomes **LP4 K06105●●**.

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

d.c. supply (contactors LP1 K: 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**

Low consumption (contactors LP4 K: 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 LP1 K 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) For LC●K●●●●3 / LP●K●●●●3 with spring terminal), Ith max = 10 A.

Contactors

Selection: pages A6/25 and A6/29
Characteristics: pages B8/95 to B8/98
Dimensions: page B8/99
Schemes: page B8/100
Click HERE for access to online contactor selector

TeSys contactors

Contactors for control in category AC-1, 20 A

Control circuit: a.c.

LC1 K09004●●

LC1 K09103●●

LC1 K09107●●

LC1 K09004●●

Contactor selection according to utilisation category, see pages A6/30 and A6/31.
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 B8/51 to B8/53.

3 or 4-pole contactors for standard applications (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: **LC1 K0910●●** becomes **LC1 K09103●●**.

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: **LC1 K0910●●** becomes **LC1 K09107●●**.

Solder pins for printed circuit boards

In the references selected above, insert a figure **5** before the voltage code.
Example: **LC1 K0910●●** becomes **LC1 K09105●●**.

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: **LC7 K0910●●** becomes **LC7 K09107●●**.

Solder pins for printed circuit boards

In the references selected above, insert a figure **5** before the voltage code.
Example: **LC7 K0910●●** becomes **LC7 K09105●●**.

(1) Selection between 9 and 12 A ratings according to number of operating cycles, see AC-1 curve on page A6/30.
(2) Standard control circuit voltages (for other voltages, please consult your Regional Sales Office):

a.c. supply (5)

Contactors LC1 K (0.8…1.15 Uc) *(0.85…1.1 Uc)*

Volts	**12**	**20**	**24** (3)	**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.**

Contactors LC7 K (0.8…1.1 Uc)

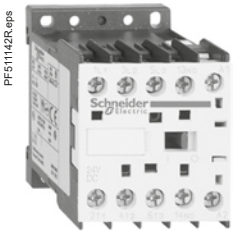
Volts	**24**	**42**	**48**	**110**	**115**	**220**	**230/240**
50/60 Hz	B7	D7	E7	F7	FE7	M7	U7

(3) For mains supplies with a high level of interference (voltage surge > 800 V), use a suppressor module LA4 KE1FC (50…129 V) or LA4 KE1UG (130…250 V), see page B8/52.
(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.

TeSys contactors

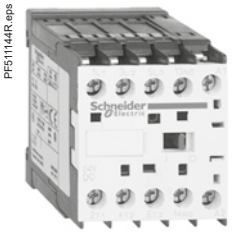
Contactors for control in category AC-1, 20 A

Control circuit: d.c. or low consumption

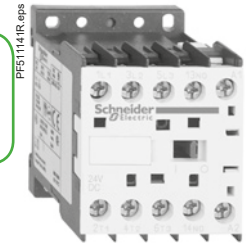


LC1 K09004●●

LC1 K09103●●



LC1 K09105●●



LC1 K09004●●

Contactor selection according to utilisation category, see pages A6/30 and A6/31.
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 B8/51 to B8/53.

3 and 4-pole contactors, d.c. supply (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: **LP1 K0910●●** becomes **LP1 K09103●●**.

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: **LP1 K0910●●** becomes **LP1 K09107●●**.

Solder pins for printed circuit boards

In the references selected above, insert a figure **5** before the voltage code.
Example: **LP1 K0910●●** becomes **LP1 K09105●●**.

3 or 4-pole low consumption contactors (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: **LP4 K0910●●** becomes **LP4 K09103●●**.

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: **LP4 K0910●●** becomes **LP4 K09107●●**.

Solder pins for printed circuit boards

In the references selected above, insert a figure **5** before the voltage code.
Example: **LP4 K0910●●** becomes **LP4 K09105●●**.

(1) Selection between 9 and 12 A ratings according to number of operating cycles, see AC-1 curve on page A6/30.
(2) Standard control circuit voltages (for other voltages, please consult your Regional Sales Office):

d.c. supply (contactors LP1 K: 0.8...1.15 Uc)

Volts ⎓	12	20	24 (3)	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 LP4 K: 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.
(3) For LP1 K 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.
(4) For LC●K●●●●3 / LP●K●●●●3 with spring terminal, Ith max = 10 A.

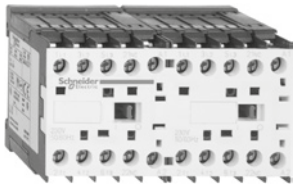
Contactors

Selection: pages A6/30 and A6/31
Characteristics: pages B8/95 to B8/98
Dimensions: page B8/99
Schemes: page B8/100
Click HERE for access to online contactor selector

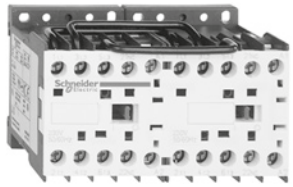
TeSys contactors

Reversing contactors for motor control, 6 to 16 A in category AC-3 and 6 to 12 A in category AC-4

Control circuit: a.c.



LC2 K0910●●



LC2 K09105●●

Reversing contactor selection according to utilisation category, see pages A6/25 to A6/29 and A6/32 to A6/35.
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 B8/51 to B8/53.

3-pole reversing contactors for standard applications

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: **LC2 K0610●●** becomes **LC2 K06103●●**.

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: **LC2 K0610●●** becomes **LC2 K06107●●**.

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: **LC2 K0610●●** becomes **LC2 K06105●●**.

3-pole silent reversing 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	–	**LC8K0610●●**
				–	1	**LC8K0601●●**
2.2	4	4	**9**	1	–	**LC8K0910●●**
				–	1	**LC8K0901●●**
3	5.5	4 (> 440)	**12**	1	–	**LC8K1210●●**
		5.5 (440)		–	1	**LC8K1201●●**

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: **LC8 K0610●●** becomes **LC8 K06107●●**.

Solder pins for printed circuit boards

In the references selected above, insert a figure **5** before the voltage code.
Example: **LC8 K0610●●** becomes **LC8 K06105●●**.

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

a.c. supply (4)

Reversing contactors LC2 K (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.**

Reversing contactors LC8 K (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 LA4 KE1FC (50…129 V) or LA4 KE1UG (130…250 V), see page B8/52.
(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

Selection: pages A6/25 and A6/35
Characteristics: pages B8/95 to B8/98
Dimensions: page B8/99
Schemes: page B8/100
Click HERE for access to online contactor selector

TeSys contactors

Reversing contactors for motor control, 6 to 12 A in categories AC-3 and AC-4

Control circuit: d.c. or low consumption

Reversing contactor selection according to utilisation category, see pages A6/25 to A6/29 and A6/32 to A6/35.
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 B8/51 to B8/53.

3-pole reversing contactors, d.c. supply

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: **LP2 K0610●●** becomes **LP2 K06103●●**.						
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: **LC2 K0610●●** becomes **LC2 K06107●●**.						
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: **LC2 K0610●●** becomes **LC2 K06105●●**.						

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: **LP5 K0610●●** becomes **LP5 K06103●●**.						
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: **LP5 K0610●●** becomes **LP5 K06107●●**.						
Solder pins for printed circuit boards						
In the references selected above, insert a figure **5** before the voltage code. Example: **LP5 K0610●●** becomes **LP5 K06105●●**.						

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

d.c. supply

Reversing contactors LP2 K (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**.

Low consumption

Reversing contactors LP5 K (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 LP2 K 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) For LC●K●●●●3 / LP●K●●●●3 with spring terminal, Ith max = 10 A.

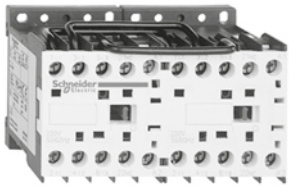
Contactors

Selection: pages A6/25 and A6/35
Characteristics: pages B8/95 to B8/98
Dimensions: page B8/99
Schemes: page B8/100
Click HERE for access to online contactor selector

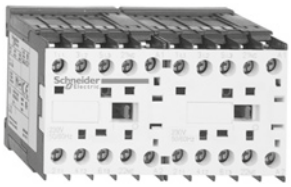
TeSys contactors

Reversing contactors for control in category AC-1, 20 A

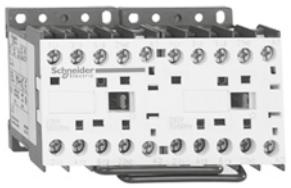
Control circuit: a.c.



LC2 K0910●●



LC2 K09105●●



LC2 K09004●●

Warning: reversing contactors LC2 K0910●● and LC2 K0901●● are pre-wired for reverse motor operation as standard.
Reversing contactor selection according to utilisation category, see pages A6/30 and A6/31.
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 B8/51 to B8/53.

3 or 4-pole reversing contactors for standard applications (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: **LC2 K0910●●** becomes **LC2 K09103●●**.

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: **LC2 K0910●●** becomes **LC2 K09107●●**.

Solder pins for printed circuit boards

In the references selected above, insert a figure **5** before the voltage code.
Example: **LC2 K0910●●** becomes **LC2 K09105●●**.

3 or 4-pole silent reversing 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	–		**LC8K0910●●**
					or	**LC8K1210●●**
	3	–	–	1		**LC8K0901●●**
					or	**LC8K1201●●**
	4	–	–	–		**LC8K09004●●**
					or	**LC8K12004●●**

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: **LC8 K0910●●** becomes **LC8 K09107●●**.

Solder pins for printed circuit boards

In the references selected above, insert a figure **5** before the voltage code.
Example: **LC8 K0910●●** becomes **LC8 K09105●●**.

(1) Selection between 9 and 12 A ratings according to number of operating cycles, see AC-1 curve on page A6/30.
(2) Standard control circuit voltages (for other voltages, please consult your Regional Sales Office):

a.c. supply (5)

Reversing contactors LC2 K (0.8…1.15 Uc) *(0.85…1.1 Uc)*

Volts	**12**	**20**	**24** (3)	**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**.

Reversing contactors LC8 K (0.8…1.1 Uc)

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

(3) For mains supplies with a high level of interference (voltage surge > 800 V), use a suppressor module LA4 KE1FC (50…129 V) or LA4 KE1UG (130…250 V), see page B8/52.
(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

TeSys contactors

Reversing contactors for control in category AC-1, 20 A

Control circuit: d.c. or low consumption

Warning: reversing contactors LP2 K0910●● and LP2 K0901●● are pre-wired for reverse motor operation as standard.
Reversing contactor selection according to utilisation category, see pages A6/30 and A6/31.
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 B8/51 to B8/53.

3 or 4-pole reversing contactors, d.c. supply (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: **LP2 K0910●●** becomes **LP2 K09103●●**.

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: **LP2 K0910●●** becomes **LP2 K09107●●**.

Solder pins for printed circuit boards
In the references selected above, insert a figure **5** before the voltage code.
Example: **LP2 K0910●●** becomes **LP2 K09105●●**.

3 or 4-pole low consumption reversing contactors (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: **LP5 K0910●●** becomes **LP5 K09103●●**.

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: **LP5 K0910●●** becomes **LP5 K09107●●**.

Solder pins for printed circuit boards
In the references selected above, insert a figure **5** before the voltage code.
Example: **LP5 K0910●●** becomes **LP5 K09105●●**.

(1) Selection between 9 and 12 A ratings according to number of operating cycles, see AC-1 curve on page A6/30.
(2) Standard control circuit voltages (for other voltages, please consult your Regional Sales Office):

d.c. supply (reversing contactors LP2 K: 0.8…1.15 Uc)

Volts ⎓	12	20	24 (3)	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**.

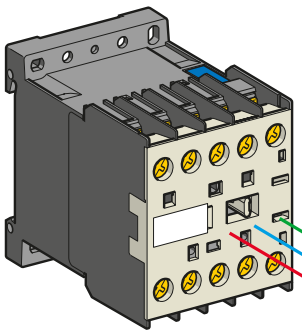
Low consumption (reversing contactors LP5 K: 0.7…1.3 Uc)

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

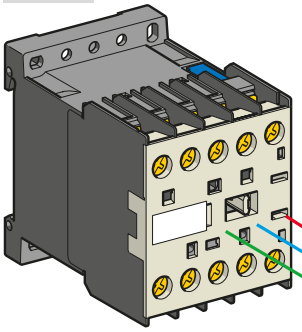
Coil with integral suppression device fitted as standard, by bi-directional peak limiting diode.
(3) For LP2 K only, when connecting an electronic sensor or timer in series with the contactor coil, select a 20 V coil (∿ control circuit voltage code Z7, ⎓ control circuit voltage code ZD) so as to compensate for the incurred voltage drop.
(4) For LC●K●●●●3 / LP●K●●●●3 with spring terminal, Ith max = 10 A.

Selection: pages A6/30 and A6/31
Characteristics: pages B8/95 to B8/98
Dimensions: page B8/99
Schemes: page B8/100
Click HERE for access to online contactor selector

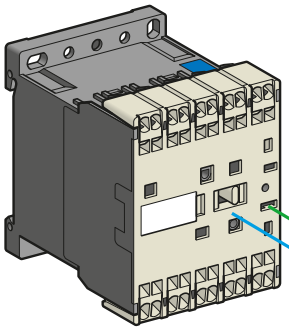
DB404209.eps



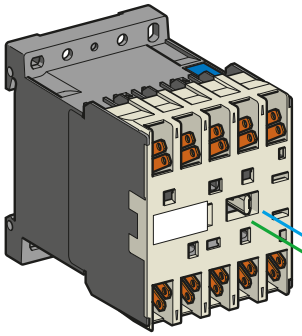
LC1, LC7, LP1 K



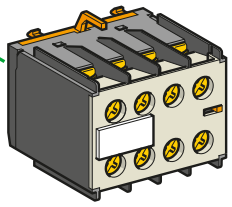
LC1, LC7, LP1 K



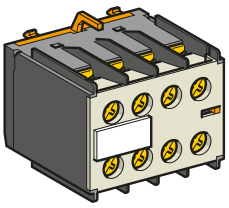
LC1, LP1 K



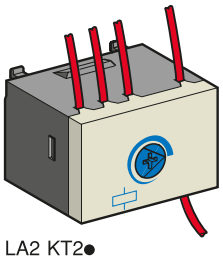
LC1, LC7, LP1 K



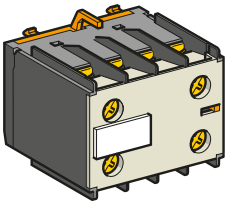
LA1 KN●●M



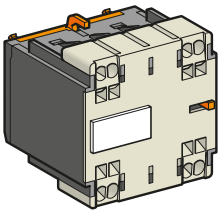
LA1 KN●●



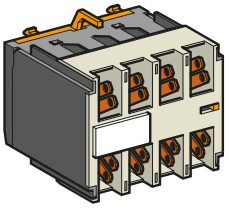
LA2 KT2●



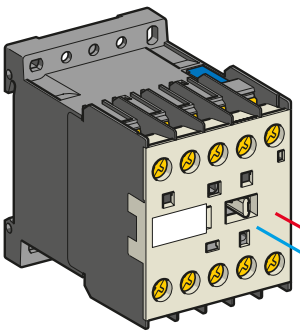
LA1 KN●●P



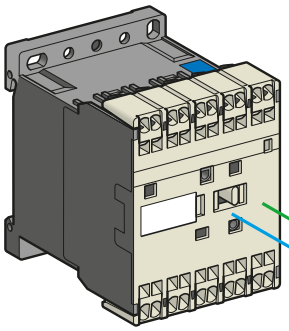
LA1 KN●●3



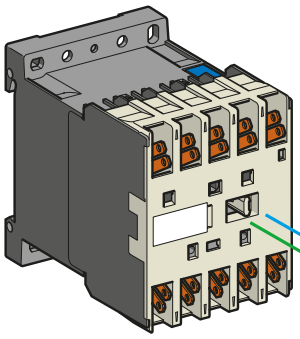
LA1 KN●●7



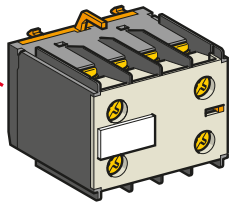
LP4



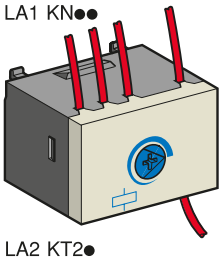
LP4



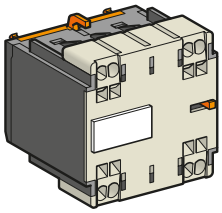
LP4



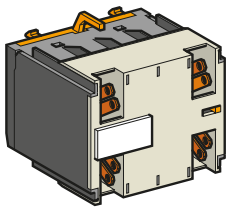
LA1 KN●●



LA2 KT2●



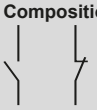
LA1 KN●●3



LA1 KN●●7

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**
		–	2	**LA1KN027**
		1	1	**LA1KN117**
	All products with Faston connectors except low consumption	4	–	**LA1KN407**
		3	1	**LA1KN317**
		2	2	**LA1KN227**
		1	3	**LA1KN137**
		–	4	**LA1KN047**

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 LP5 K12	–	2	**LA1KN02M**
		1	1	**LA1KN11M**
	All 3-pole + N/O products with screw clamp terminals except LP4 or LP5 K06, K09 and K12	3	1	**LA1KN31M**
		2	2	**LA1KN22M**
		1	3	**LA1KN13M**
	All 4-pole products with screw clamp terminals except LP4 or LP5 K12	1	1	**LA1KN11P**
	All 4-pole products with screw clamp terminals except LP4 or LP5 K09 and K12	2	2	**LA1KN22P**

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**

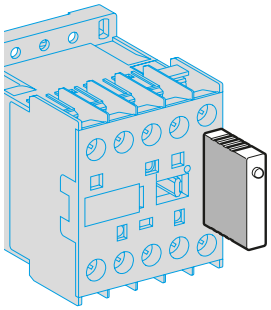
Contactors

TeSys contactors

TeSys K contactors and reversing contactors

Suppressor modules incorporating LED indicator

DF565018.eps



LA4 K●●●

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 B8/98
Dimensions: pages B8/99 and B8/101
Schemes: pages B8/100 and B8/102

TeSys contactors

TeSys K contactors and reversing contactors

Accessories

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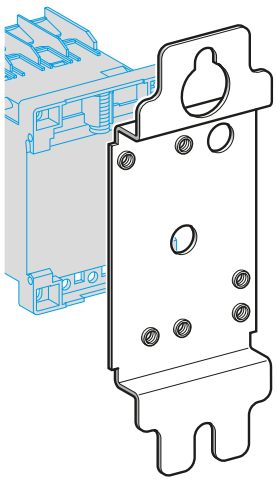

DX1 AP25

Mounting and marking accessories

Description	Application		Sold in lots of	Unit reference
Mounting plates (1)	For fixing on 1 ⊔ rail	Clip-on	1	**LA9D973**
	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)

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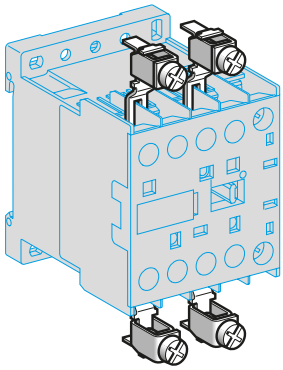


LA9 E01

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**
Set of 4 power connections	For 4-pole changeover contactor pairs	For contactors with screw clamp terminals	100	**LA9K0970**

(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.

Characteristics: page B8/98
Dimensions: pages B8/99 and B8/101
Schemes: pages B8/100 and B8/102

TeSys contactors

Mini-contactors TeSys LC1 SKGC, for use in modular panels

- Mounting on 35 mm ⊔ rail or fixing by four Ø4 screws, except for LC1 SKGC200.
- Connection by connectors.
- Mini-contactor fitted with transparent, sealable protective cover to prevent front face access.

PF511135R.eps

LC1 SKGC200

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)
220 V 230 V	380 V 415 V	660 V 690 V						
kW	kW	kW	A	A				
–	–	–	5	20	2	–	–	**LC1SKGC200●●**

PF511136R.eps

LC1 SKGC400

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)
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●●**
					4	–	–	**LC1SKGC400●●**

(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

Characteristics: pages B8/91 to B8/94
Dimensions, schemes: page B8/95
Click **HERE** for access to online contactor selector

TeSys contactors

Mini-contactors TeSys LC1 SKGC, for use in modular panels

Suppressor modules

PF511134R.eps

LA4 SK●1●

Suppressor modules

Connection without need for tools by clipping onto right-hand side of contactor

For use on contactors	Type	For voltages	Sold in lots of	Unit reference
LC1SKGC	Varistor (1)	~ and ⎓ 24…48 V	10	**LA4SKE1E**
		~ and ⎓ 110…250 V	10	**LA4SKE1U**
	Diode (2)	⎓ 24…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 B8/91 to B8/94

Dimensions, schemes:
page B8/107

Modular equipment

Standard contactors TeSys GC

GC 2520

GC 4040

GC 10020

Standard contactors, TeSys GC

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	**GC1610J5**	**GC1610B5**	**GC1610E5**	**GC1610F5**	**GC1610M5** ★	12
1	1	1	**GC1611J5**	**GC1611B5**	–	**GC1611F5**	**GC1611M5** ★	12
2	–	1	**GC1620J5**	**GC1620B5**	**GC1620E5**	**GC1620F5** ★	**GC1620M5** ★	12
2	2	2	–	**GC1622B5**	**GC1622E5**	**GC1622F5** ★	**GC1622M5**	6
3	–	2	–	–	–	–	**GC1630B5** **GC1630M5** ★	6
4	–	2	–	**GC1640B5**	–	**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	–	**GC2511B5**	–	**GC2511F5**	**GC2511M5** ★	12
2	–	1	**GC2520J5**	**GC2520B5**	**GC2520E5**	**GC2520F5** ★	**GC2520M5** ★	12
2	2	2	–	**GC2522B5**	**GC2522E5**	**GC2522F5**	**GC2522M5** ★	6
3	–	2	–	**GC2530B5**	–	**GC2530F5**	**GC2530M5** ★	6
3	1	2	–	–	–	–	**GC2531M5**	6
4	–	2	**GC2540J5**	**GC2540B5**	**GC2540E5**	**GC2540F5** ★	**GC2540M5** ★	6
Maximum current rating category AC-7a - 40 A								
–	2	2	–	**GC4002B5**	–	–	**GC4002M5** ★	6
–	4	3	–	**GC4004B5**	–	**GC4004F5** ★	**GC4004M5**	4
1	1	2	–	**GC4011B5**	–	–	**GC4011M5** ★	6
2	–	2	–	**GC4020B5**	–	**GC4020F5** ★	**GC4020M5** ★	6
2	2	3	–	–	–	–	**GC4022M5**	4
3	–	3	–	**GC4030B5**	–	**GC4030F5**	**GC4030M5** ★	4
4	–	3	–	**GC4040B5**	**GC4040E5**	**GC4040F5** ★	**GC4040M5** ★	4
Maximum current rating category AC-7a - 63 A								
–	2	2	–	–	–	–	**GC6302M5**	6
–	4	3	–	**GC6304B5**	–	–	**GC6304M5**	4
1	1	2	–	–	–	–	**GC6311M5**	6
2	–	2	–	–	–	–	**GC6320M5**	6
2	2	3	–	–	–	**GC6322F5**	**GC6322M5**	4
3	–	3	–	**GC6330B5**	–	**GC6330F5**	**GC6330M5** ★	4
4	–	3		**GC6340B5**	**GC6340E5**	**GC6340F5** ★	**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.*

Modular equipment

TeSys GY "dual tariff" contactors

PB113083_13.eps

GY 2520M5

PB113087_26.eps

GY 6340M5

TeSys GY "dual tariff" contactors

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	–	**GY2520B5**	–	–	**GY2520M5** ★	12
3	–	2	–	–	–	–	**GY2530M5**	6
4	–	2	–	**GY2540B5**	–	–	**GY2540M5**	6
Maximum current rating category AC-7a - 40 A								
2	–	2	–	–	–	–	**GY4020M5**	6
3	–	3	–	–	–	–	**GY4030M5**	4
4	–	3	–	**GY4040B5**	–	–	**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.*

PF526284R.eps

GF 1611M7

TeSys GF impulse relays

Maximum current rating category AC-1	Composition		Coil voltages ~ 50/60 Hz	Coil voltages ⎓	Sold in lots of	Unit reference
A			V	V		
16	1	–	12	6	12	**GF1610J7**
			24	12	12	**GF1610B7**
			48	24	12	**GF1610E7**
			110	48	12	**GF1610F7**
			220	–	12	**GF1610M7**
			230/240	110	12	**GF1610U7**
	2	–	12	6	12	**GF1620J7**
			24	12	12	**GF1620B7**
			48	24	12	**GF1620E7**
			110	48	12	**GF1620F7**
			220	–	12	**GF1620M7**
			230/240	110	12	**GF1620U7**
	1	1	12	6	12	**GF1611J7**
			24	12	12	**GF1611B7**
			48	24	12	**GF1611E7**
			110	48	12	**GF1611F7**
			220	–	12	**GF1611M7**
			230/240	110	12	**GF1611U7**

Modular equipment

TeSys GC, GY accessories

PB113093_13.eps

GAP 23

PB104483-40.eps

GAC 5

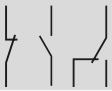
PB104486_34.eps

A9A15922

PB104487_49.eps

A9A15923

Instantaneous auxiliary contact blocks

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

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**

INTER ELECTRICAS

Bogotá Sala de Ventas
Carrera 12 No 13 - 46
PBX: 6013360755 - 6013412439
Celular: 312 3055335

Centro de Distribución
Carrera 18 No 19A - 36
PBX: 6013360755 EXT: 2101