

Characteristics

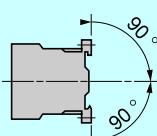
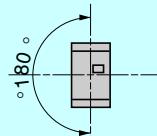
Contactors

Contactors and reversing contactors
types LC•-K and LP•-K

2

2.2

Environment

Conforming to standards	IEC/EN 60947-1, IEC/EN 60947-4-1, NF C 63-110, VDE 0660		
Approvals	LC• and LP•-K06 to K12		UL, CSA, DEMKO, NEMKO, SEMKO, FI
Operating positions	Vertical axis 	Horizontal axis 	Possible positions for LC•-K only. Contactor energisation voltage: 0.85 Uc
	Without derating	Without derating	
Cabling			
Screw clamp connections	Solid conductor	mm²	Min 1 x 1.5 Max 2 x 4 Max to IEC/EN 60947 1 x 4 + 1 x 2.5
	Flexible cable without cable end	mm²	1 x 0.75 2 x 4 2 x 2.5
	Flexible cable with cable end	mm²	1 x 0.34 1 x 1.5 + 1 x 2.5 1 x 1.5 + 1 x 2.5
Spring terminal connections	Solid conductor	mm²	1 x 0.75 1 x 1.5 2 x 1.5
	Flexible conductor without cable end	mm²	1 x 0.75 1 x 1.5 2 x 1.5
Faston connectors	Clip	mm	2 x 2.8 or 1 x 6.35
Solder pins for printed circuit board	With locating device between power and control circuits		4 mm x 35 microns
Tightening torque	Philips head n° 2 and Ø 6	N.m	0.8...1.3
Terminal referencing	Conforming to standards EN 50005 and EN 50012		Up to 5 contacts
Rated insulation voltage (Ui)	Conforming to IEC/EN 60947-4-1	V	690
	Conforming to VDE 0110 gr C	V	750
	Conforming to NF C 20-040	V	690
	Conforming to CSA 22-2 n° 14, UL 508	V	600
Rated impulse withstand voltage (Uimp)		kV	8
Protective treatment	Conforming to IEC 68 (DIN 50016)		"TC" (Klimafest, Climateproof)
Degree of protection	Conforming to VDE 0106		Protection against direct finger contact
Ambient air temperature around the device	Storage	°C	- 50...+ 80
	Operation	°C	- 25...+ 50
Maximum operating altitude	Without derating	m	2000
Vibration resistance 5 ... 300 Hz	Contactor open		2 gn
	Contactor closed		4 gn
Flame resistance	Conforming to UL 94		Self-extinguishing materials V1
	Conforming to NF F 16-101 and 16-102		Conforming to requirement 2
Shock resistance (1/2 sine wave, 11 ms)	Contactor open		10 g
	Contactor closed		15 g
Safe circuit separation	Conforming to VDE 0106 and IEC 536		VLSV (Very Low Safety voltage), up to 400 V

Selection:
pages 1/12 to 1/35References:
pages 2/22 to 2/35Dimensions:
pages 2/40 and 2/42Schemes:
pages 2/41 and 2/43

2/18

Telemecanique

Schneider Electric

Characteristics

Contactors

Contactors and reversing contactors
types LC•K and LP•K

2

2.2

Pole characteristics

Conventional thermal current (I_{th})	For ambient temperature ≤ 50 °C	A	20						
Rated operational frequency		Hz	50/60						
Frequency limits of operational current		Hz	Up to 400						
Rated operational voltage (U_e)		V	690						
Rated making capacity	I rms to NF C 63-110 and IEC/EN 60947-4-1 LC•K06, LP•K06, LC•K09, LP•K09 LC•K12, LP•K12	A	110						
		A	144						
Rated breaking capacity		V	220/ 240 380/ 400 415 440 500 660/ 690						
	I rms to NF C 63-110 and IEC/EN 60947-4-1 LC•K06, LP•K06, LC•K09, LP•K09 LC•K12, LP•K12	A	110 110 110 110 80 70						
		A	— — — 110 80 70						
Permissible short time rating	In free air for a time "t" from cold state ($\theta \leq 50^\circ\text{C}$) LC•K06, LP•K06, LC•K09, LP•K09 LC•K12, LP•K12		1 s 5 s 10 s 30 s 1 min 3 min $\geq 15 \text{ min}$						
		A	90 85 80 60 45 40 20						
		A	115 105 100 75 55 50 25						
Short-circuit protection	gG fuse U ≤ 440 V (aM fuse, see page 2/46)	A	25						
Average impedance per pole	At I _{th} and 50 Hz	mΩ	3						
Utilisation in category AC-1 resistive circuits, heating, lighting (U _e ≤ 440 V)	Maximum rated operational current for a temperature ≤ 50 °C	A	20						
	Maximum rated operational current for a temperature ≤ 70 °C	A	16 for U _e only						
	Rated operational current limits in relation to on-load factor and operating frequency	A	On-load factor 90% 60 % 30 % 300 op. cycles/hour 13 15 18 120 op. cycles/hour 15 18 19 30 op. cycles/hour 19 20 20						
	Increase in operational current by paralleling of poles		Apply the following coefficients to the current values above. These take into account the often unbalanced current distribution between poles						
			2 poles in parallel: K = 1.60						
			3 poles in parallel: K = 2.25						
			4 poles in parallel: K = 2.80						
Utilisation in category AC-3 squirrel cage motors	Operational power according to the voltage	V	115 220 220/ 240 380/ 415 440/ 480 500/ 600 660/ 690						
		kW	1-ph 1-ph 3-ph 3-ph 3-ph 3-ph						
	LC•K06, LP•K06	kW	0.37 0.75 1.5 2.2 3 3 3						
	LC•K09, LP•K09	kW	0.55 1.1 2.2 4 4 4 4						
	LC•K12, LP•K12	kW	— — 3 5.5 5.5/ 4 (480) 4 4						
	% utilisation of operational power in relation to the maximum operating rate		Op. cycles/hr 600 900 1200						
			Power 100% 75% 50%						

Selection:
pages 1/12 to 1/35

References:
pages 2/22 to 2/35

Dimensions:
pages 2/40 and 2/42

Schemes:
pages 2/41 and 2/43

Schneider Electric

Telemecanique

2/19

*Characteristics (continued)***Contactors**Contactors and reversing contactors
types LC•-K and LP•-K**2****2.2****Control circuit characteristics**

Contactor type			LC1	LC2	LC7	LC8	LP1	LP2
Rated control circuit voltage (Uc)		V	~ 12...690 (1)	~ 24...240	— 12...250 (1)			
Control voltage limits (≤ 50 °C) single voltage coil	Operation		0.8...1.15 Uc	0.85...1.1 Uc	0.8...1.15 Uc			
	Drop-out		≥ 0.20 Uc	≥ 0.10 Uc	≥ 0.10 Uc			
Average consumption at 20 °C and at Uc	Inrush		30 VA	3 VA	3 W			
	Sealed		4.5 VA	3 VA	3 W			
Heat dissipation		W	1.3	3	3			
Operating time at 20 °C and at Uc	Between coil energisation and: - opening of the N/C contacts - closing of the N/O contacts	ms ms	5...15 10...20	25...35 30...40	25...35 30...40			
	Between coil de-energisation and: - opening of the N/O contacts - closing of the N/C contacts	ms ms	10...20 15...25	30 40	10 15			
Maximum immunity to micro-breaks		ms	2	2	2			
Maximum operating rate	In operating cycles per hour		3600	3600	3600			
Mechanical durability at Uc In millions of operating cycles	50/60 Hz coil		10	5	10	5	—	—
	— coil		—	—	—	—	10	5

(1) For mains supplies with a high level of interference (voltage surge > 800 V), use a suppressor module LA4-KE1FC (50...129 V) or LAF-KE1UG (130...250 V), see page 2/38.

Characteristics

Contactors

Contactors and reversing contactors
types LC•K and LP•K

Characteristics of contactor auxiliary contacts and instantaneous contact blocks

Number of auxiliary contacts	On LC•K or LP•K	1	
	On LA1-K	2 or 4	
Rated operational voltage (Ue)	Up to	V	690
Rated insulation voltage (Ui)	Conforming to IEC/EN 60947-4-1	V	690
	Conforming to VDE 0110 group C	V	750
	Conforming to CSA C 22-2 n° 14	V	600
Conventional thermal current (Ith)	For ambient temperature ≤ 50 °C	A	10
Frequency of operational current		Hz	Up to 400
Minimum switching capacity	U min (DIN 19 240)	V	17 ($2 < 10^{-3}$)
	I min	mA	5
Short-circuit protection	Conforming to IEC/EN 60947-4-1 and VDE 0660, gG fuse	A	10
Rated making capacity	Conforming to IEC/EN 60947-4-1	I rms	A
Overload current	Permissible for		
	1 s	A	80
	500 ms	A	90
	100 ms	A	110
Insulation resistance		MΩ	> 10
Non-overlap distance	LA1-K: linked contacts to INRS, BIA and CNA specs.	mm	0.5 (see schemes, pages 2/41 and 2/43)

2

2.2

Operational power of contacts
conforming to IEC/EN 60947

1 million operating cycles
3 million operating cycles
10 million operating cycles
Occasional making capacity

a.c. supply, category AC-15
Electrical durability (valid up to 3600 operating cycles per hour) on an inductive load such as the coil of an electromagnet: making current ($\cos \phi 0.7$) = 10 times the breaking current ($\cos \phi 0.4$).

V	24	48	110/ 220/	380/	600/
VA	48	96	240 440	800 880	1200
VA	17	34	86 158	288 317	500
VA	7	14	36 66	120 132	200
VA	1000	2050	5000 10 000	14 000 13 000	9000

d.c. supply, category DC-13

Electrical durability (valid up to 1200 operating cycles per hour), on an inductive load such as the coil of an electromagnet, without economy resistor, the time constant increasing with the load.

V	24	48	110	220	440	600
W	120	80	60	52	51	50
W	55	38	30	28	26	25
W	15	11	9	8	7	6
W	720	600	400	300	230	200

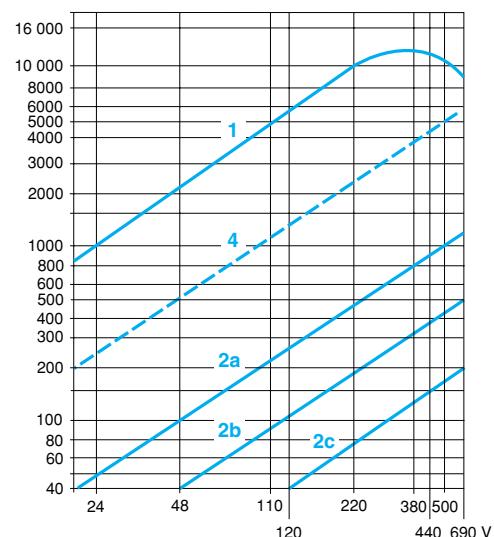
1 Breaking limit of contacts valid for:
- maximum of 50 operating cycles
at 10 s intervals
(breaking current = making current
 $x \cos \phi 0.7$).

2 Electrical durability of contacts for:
- 1 million operating cycles (2a)
- 3 million operating cycles (2b)
- 10 million operating cycles (2c).

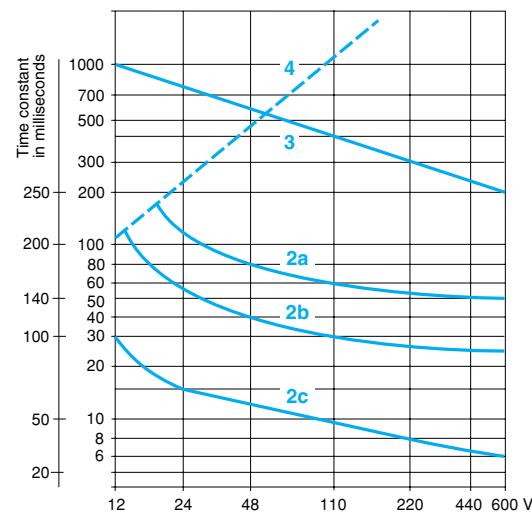
3 Breaking limit of contacts valid for:
- maximum of 20 operating cycles
at 10 s intervals with current passing
for 0.5 s per operating cycle.

4 Thermal limit.

Power broken in VA



Power broken in W



Selection:
pages 1/12 to 1/35

References:
pages 2/22 to 2/35

Dimensions:
pages 2/40 and 2/42

Schemes:
pages 2/41 and 2/43

Schneider Electric

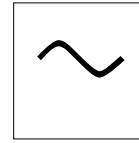
Telemecanique

2/21

References

Contactors

Contactors for motor control,
6 to 12 A in utilisation category AC-3
Control circuit: a.c.



3-pole general purpose contactors



2

LC1-K0610••

2.2

- Contactor selection according to the utilisation category, see pages 1/14 to 1/21.
- Mounting on 35 mm rail or Ø 4 screw fixing.
- Screws in open "ready-to-tighten" position.
- [Auxiliary contact blocks and accessories, see pages 2/36 to 2/39.](#)

Standard power ratings of 3-phase motors 50/60 Hz in category AC-3	Rated operational voltage in AC-3 up to 440 V	Instantaneous auxiliary contacts	Basic reference. Complete with code indicating control circuit voltage (1) (2)	Weight
220 V 380 V 440/500 V 240 V 415 V 660/690 V	kW kW kW	A	N/O N/C	kg

Screw clamp connections

1.5	2.2	3	6	1	—	LC1-K0610••	0.180
—	—	—	—	—	1	LC1-K0601••	0.180
2.2	4	4	9	1	—	LC1-K0910••	0.180
—	—	—	—	—	1	LC1-K0901••	0.180
3	5.5	4 (> 440) 5.5 (440)	12	1	—	LC1-K1210••	0.180
—	—	—	—	—	1	LC1-K1201••	0.180

Spring terminal connections

1.5	2.2	3	6	1	—	LC1-K06103••	0.180
—	—	—	—	—	1	LC1-K06013••	0.180
2.2	4	4	9	1	—	LC1-K09103••	0.180
—	—	—	—	—	1	LC1-K09013••	0.180
3	5.5	4 (> 440) 5.5 (440)	12	1	—	LC1-K12103••	0.180
—	—	—	—	—	1	LC1-K12013••	0.180

(1) Standard control circuit voltages (for other voltages, please call our Customer information centre on 0870 608 8 608).
Contactors LC1K (0.8...1.15 Uc) (0.85...1.1 Uc)

Volts ~ 50/60 Hz	12	20	24(3)	36	42	48	110	115	120	127	200/ 208	220/ 230	230/ 240	256	277	380/ 400		
Code	J7	Z7	B7	C7	D7	E7	F7	FE7	G7	FC7	L7	M7	P7	U7	W7	UE7	Q7	V7
Volts ~ 50/60 Hz	400/ 415	440	480	500	575	600	660/ 690	690	720	750	770	800	830	860	890	920	950	980
Code	N7	R7	T7	S7	SC7	X7	Y7	Y7	Y7	Y7	Y7	Y7	Y7	Y7	Y7	Y7	Y7	Y7

Up to and including 240 V, coil with integral suppression device available: add 2 to the code required. Example: **J72**

(2) For mains supplies with a high level of interference (voltage surge > 800 V), use a suppressor module LA4-KE1FC (50...129 V) or LA4-KE1UG (130...250 V), see page 2/38.

Selection:
pages 1/14 to 1/21

Characteristics:
pages 2/18 to 2/21

Dimensions:
page 2/40

Schemes:
page 2/41

2/22

Telemecanique

Schneider Electric

2/22

References

Contactors

Contactors for motor control,
6 to 12 A in utilisation category AC-3
Control circuit: a.c.



LC1-K06107**

3-pole general purpose contactors

- Contactor selection according to the utilisation category, see pages 1/14 to 1/21.
- Mounting on 35 mm rail or Ø 4 screw fixing.
- Screws in open "ready-to-tighten" position.
- [Auxiliary contact blocks and accessories, see pages 2/36 to 2/39.](#)

Standard power ratings of 3-phase motors 50/60 Hz in category AC-3	Rated operational voltage in AC-3 up to 440 V	Instantaneous auxiliary contacts	Basic reference. Complete with code indicating control circuit voltage (1) (2)	Weight	
kW	kW	kW	A	N/O N/C	kg
220 V 380 V 440/500 V 240 V 415 V 660/690 V					

2

Faston connectors, 1 x 6.35 or 2 x 2.8

1.5	2.2	3	6	1	-	LC1-K06107**	0.180
				-	1	LC1-K06017**	0.180

2.2	4	4	9	1	-	LC1-K09107**	0.180
				-	1	LC1-K09017**	0.180

3	5.5	4 (> 440) 5.5 (440)	12	1	-	LC1-K12107**	0.180
				-	1	LC1-K12017**	0.180

2.2

Solder pins for printed circuit boards

1.5	2.2	3	6	1	-	LC1-K06105**	0.210
				-	1	LC1-K06015**	0.210

2.2	4	4	9	1	-	LC1-K09105**	0.210
				-	1	LC1-K09015**	0.210

3	5.5	4 (> 440) 5.5 (440)	12	1	-	LC1-K12105**	0.210
				-	1	LC1-K12015**	0.210

(1) Standard control circuit voltages (for other voltages, please call our Customer information centre on 0870 608 8 608).
Contactors LC1K (0.8...1.15 Uc) (0.85...1.1 Uc)

Volts ~ 12 20 24(3) 36 42 48 110 115 120 127 200/ 220/ 230/ 230/ 256 277 380/ 400

50/60 Hz 208 230 240

Code J7 Z7 B7 C7 D7 E7 F7 FE7 G7 FC7 L7 M7 P7 U7 W7 UE7 Q7 V7

Volts ~ 400/ 440 480 500 575 600 660/ 690

50/60 Hz 415

Code N7 R7 T7 S7 SC7 X7 Y7

Up to and including 240 V, coil with integral suppression device available: add 2 to the code required. Example: **J72**

(2) For mains supplies with a high level of interference (voltage surge > 800 V), use a suppressor module LA4-KE1FC (50...129 V) or LA4-KE1UG (130...250 V), see page 2/38.

LC1-K06105**

Selection:
pages 1/14 to 1/21

Characteristics:
pages 2/18 to 2/21

Dimensions:
page 2/40

Schemes:
page 2/41

Schneider Electric

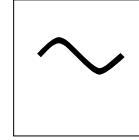
Telemecanique

2/23

References (continued)

Contactors

Contactors for motor control,
6 to 12 A in utilisation category AC-3
Control circuit: a.c.



2



LC7-K06105••

2.2

3-pole contactors for use in sensitive environments

Recommended for use in areas sensitive to noise, high interference mains supplies, etc.

- Contactor selection according to utilisation category, see pages 1/14 to 1/21.
- Coil with rectifier incorporated, suppressor fitted as standard.
- Mounting on 35 mm rail or Ø 4 screw fixing.
- Screws in open "ready-to-tighten" position.

- [Auxiliary contact blocks and accessories, see pages 2/36 to 2/39.](#)

Standard power ratings of 3-phase motors 50/60 Hz in category AC-3	Rated operational current in AC-3 up to 440 V	Instantaneous auxiliary contacts	Basic reference. Complete with code indicating control circuit voltage (1) (2)	Weight
220 V kW	380 V kW	440/500 V kW	A	N/O N/C kg
240 V	415 V	660/690 V	A	

Screw clamp connections

1.5	2.2	3	6	1	—	LC7-K0610••	0.225
				—	1	LC7-K0601••	0.225
2.2	4	4	9	1	—	LC7-K0910••	0.225
				—	1	LC7-K0901••	0.225
3	5.5	4 (> 440) 5.5 (440)	12	1	—	LC7-K1210••	0.225
				—	1	LC7-K1201••	0.225

Faston connectors, 1 x 6.35 or 2 x 2.8

1.5	2.2	3	6	1	—	LC7-K06107••	0.225
				—	1	LC7-K06017••	0.225
2.2	4	4	9	1	—	LC7-K09107••	0.225
				—	1	LC7-K09017••	0.225
3	5.5	4 (> 440) 5.5 (440)	12	1	—	LC7-K12107••	0.225
				—	1	LC7-K12017••	0.225

Solder pins for printed circuit boards

1.5	2.2	3	6	1	—	LC7-K06105••	0.255
				—	1	LC7-K06015••	0.255
2.2	4	4	9	1	—	LC7-K09105••	0.255
				—	1	LC7-K09015••	0.255
3	5.5	4 (> 440) 5.5 (440)	12	1	—	LC7-K12105••	0.255
				—	1	LC7-K12015••	0.255

(1) Standard control circuit voltages (for other voltages, please call our Customer information centre on 0870 608 8 608).

Contactors LC7-K (0.85...1.1 Uc)

Volts ~ 50/60 Hz	24	42	48	110	115	220	230/ 240
Code	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 2/38.

Selection:
pages 1/14 to 1/21

Characteristics:
pages 2/18 to 2/21

Dimensions:
page 2/40

Schemes:
page 2/41

2/24

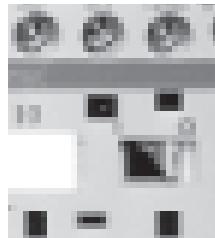
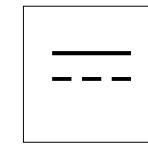
Telemecanique

Schneider Electric

References

Contactors

Contactors for motor control,
6 to 12 A in utilisation category AC-3
Control circuit: d.c.



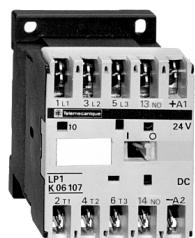
LP1-K0610●●

3-pole contactors

- Contactor selection according to the utilisation category, see pages 1/14 to 1/21.
- Mounting on 35 mm rail or Ø 4 screw fixing.
- Screws in open "ready-to-tighten" position.
- [Auxiliary contact blocks and accessories, see pages 2/36 to 2/39.](#)

Standard power ratings of 3-phase motors 50/60 Hz in category AC-3	Rated operational voltage in AC-3 up to 440 V	Instantaneous auxiliary contacts	Basic reference. Complete with code indicating control circuit voltage (1)	Weight
220 V 380 V 440/500 V 240 V 415 V 660/690 V	kW kW kW	A	N/O N/C	kg

2



LP1-K06107●●

Screw clamp connections

1.5	2.2	3	6	1 -	LP1-K0610●●●	0.225
				- 1	LP1-K0601●●●	0.225
2.2	4	4	9	1 -	LP1-K0910●●●	0.225
				- 1	LP1-K0901●●●	0.225
3	5.5	4 (> 440 V) 5.5 (440 V)	12	1 -	LP1-K1210●●●	0.225
				- 1	LP1-K1201●●●	0.225

2.2

Spring terminal connections

1.5	2.2	3	6	1 -	LP1-K06103●●●	0.225
				- 1	LP1-K06013●●●	0.225
2.2	4	4	9	1 -	LP1-K09103●●●	0.225
				- 1	LP1-K09013●●●	0.225
3	5.5	4 (> 440 V) 5.5 (440 V)	12	1 -	LP1-K12103●●●	0.225
				- 1	LP1-K12013●●●	0.225



Faston connectors, 1 x 6.35 or 2 x 2.8

1.5	2.2	3	6	1 -	LP1-K06107●●●	0.225
				- 1	LP1-K06017●●●	0.225
2.2	4	4	9	1 -	LP1-K09107●●●	0.225
				- 1	LP1-K09017●●●	0.225
3	5.5	4 (> 440 V) 5.5 (440 V)	12	1 -	LP1-K12107●●●	0.225
				- 1	LP1-K12017●●●	0.225



Solder pins for printed circuit boards

1.5	2.2	3	6	1 -	LP1-K06105●●●	0.255
				- 1	LP1-K06015●●●	0.255
2.2	4	4	9	1 -	LP1-K09105●●●	0.255
				- 1	LP1-K09015●●●	0.255
3	5.5	4 (> 440 V) 5.5 (440 V)	12	1 -	LP1-K12105●●●	0.255
				- 1	LP1-K12015●●●	0.255

(1) Standard control circuit voltages (for other voltages, please call our Customer information centre on 0870 608 8 608).

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 suppression device available: add 3 to the code required. Example: JD3.

(2) When connecting an electronic sensor or timer in series with the coil of the contactor, select a 20 V coil (~ control circuit voltage code Z7, ___ control circuit voltage code ZD) so as to compensate for the incurred voltage drop.

Selection:
pages 1/14 to 1/21

Characteristics:
pages 2/18 to 2/21

Dimensions:
page 2/40

Schemes:
page 2/41

Schneider Electric

Telemecanique

2/25



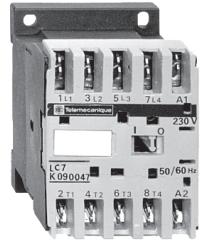
References

2



LC1-K09004••

2.2



LC7-K09004••

Contactors

K 3 and 4-pole contactors for control in utilisation category AC-1
Control circuit: a.c.



General purpose contactors

Non inductive loads Category AC-1 Maximum current at $\theta \leq 50^\circ\text{C}$	Type of connection	Number of poles	Instantaneous auxiliary contacts	Basic reference. Complete with code indicating control circuit voltage (1)	Weight kg
				d b /	
20	Screw clamp (2)	3	—	1 —	LC1-K0910•• 0.225
		3	—	— 1	LC1-K0901•• 0.225
		4	—	— —	LC1-K0904•• 0.180
		2	2	— —	LC1-K09008•• 0.180
	Faston connectors 1 x 6.35 or 2 x 2.8	3	—	1 —	LC1-K09107•• 0.225
		3	—	— 1	LC1-K09017•• 0.225
		4	—	— —	LC1-K090047•• 0.180
		2	2	— —	LC1-K090087•• 0.180
	Solder pins for printed circuit boards	3	—	1 —	LC1-K09105•• 0.255
		3	—	— 1	LC1-K09015•• 0.255
		4	—	— —	LC1-K090045•• 0.210
		2	2	— —	LC1-K090085•• 0.210

Contactors for use in sensitive environments

Recommended for use in areas sensitive to noise, high interference mains supplies, etc.

- Coil with rectifier incorporated, suppressor fitted as standard.
- Mounting on 35 mm rail or Ø 4 screw fixing.
- Screws in open "ready-to-tighten" position.

- Auxiliary contact blocks and accessories, see pages 2/36 to 2/39.

20	Screw clamp (2)	3	—	1 —	LC7-K0910•• 0.225
		3	—	— 1	LC7-K0901•• 0.225
		4	—	— —	LC7-K0904•• 0.225
		2	2	— —	LC7-K09008•• 0.225
	Faston connectors 1 x 6.35 or 2 x 2.8	3	—	1 —	LC7-K09107•• 0.225
		3	—	— 1	LC7-K09017•• 0.225
		4	—	— —	LC7-K090047•• 0.225
		2	2	— —	LC7-K090087•• 0.225
	Solder pins for printed circuit boards	3	—	1 —	LC7-K09105•• 0.255
		3	—	— 1	LC7-K09015•• 0.255
		4	—	— —	LC7-K090045•• 0.255
		2	2	— —	LC7-K090085•• 0.255

(1) Standard control circuit voltages, see page opposite.

(2) To order a spring terminal version, add 3 immediately before the coil code. Example: LC1-K09103••.

Selection:
pages 1/12 and 1/13

Characteristics:
pages 2/18 to 2/21

Dimensions:
page 2/40

Schemes:
page 2/41

2/26

Telemecanique

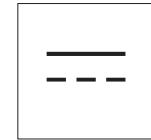
Schneider Electric



References

Contactors

K 3 and 4-pole contactors for control in utilisation category AC-1
Control circuit: d.c.



LP1-K09004••

3 and 4-pole contactors

Non inductive loads Category AC-1 Maximum current at $\theta \leq 50^\circ\text{C}$ A	Type of connection	Number of poles 	Instantaneous auxiliary contacts 	Basic reference. Complete with code indicating control circuit voltage (1)		Weight kg
				N/O	N/C	
20	Screw clamp (2)	3 -	1 -	LP1-K0910••	0.225	
		3 -	- 1	LP1-K0901••	0.225	
		4 -	- -	LP1-K09004••	0.225	
		2 2	- -	LP1-K09008••	0.225	
Faston connectors 1 x 6.35 or 2 x 2.8		3 -	1 -	LP1-K09107••	0.225	
		3 -	- 1	LP1-K09017••	0.225	
		4 -	- -	LP1-K090047••	0.225	
		2 2	- -	LP1-K090087••	0.225	
Solder pins for printed circuit boards		3 -	1 -	LP1-K09105••	0.255	
		3 -	- 1	LP1-K09015••	0.255	
		4 -	- -	LP1-K090045••	0.255	
		2 2	- -	LP1-K090085••	0.255	

2

2.3



(1) Standard control circuit voltages (for other voltages, please call our Customer information centre on 0870 608 8 608).
Contactors LC1-K (0.8...1.15 Uc) (0.85...1.1 Uc)

Volts \sim 50/60 Hz	12	20	24	36	42	48	110	120	127	200/ 208	220/ 230	230/ 240	230/ 240	256	277	380/ 400	
Code	J7	Z7	B7	C7	D7	E7	F7	G7	FC7	L7	M7	P7	U7	W7	UE7	Q7	V7
Volts \sim 50/60 Hz	400/ 440	500	575	600	660/												
Code	415																

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 \sim 50/60 Hz	24	42	48	110	220	230/
Code	B7	D7	E7	F7	M7	U7

Contactors LP1-K (0.8...1.15 Uc)

Volts \sim	12	20	24	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**

(2) To order a spring terminal version, add 3 immediately before the coil code. Example: **LP1-K09103••**.

Selection:
pages 1/12 and 1/13

Characteristics:
pages 2/18 to 2/21

Dimensions:
page 2/40

Schemes:
page 2/41

Schneider Electric

Telemecanique

2/27

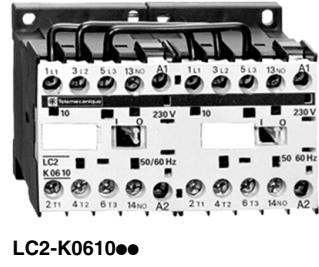
References

Contactors

Reversing contactors for motor control
6 to 12 A in utilisation category AC-3
Control circuit: a.c.



2



LC2-K0610●●

2.2

3-pole general purpose reversing contactors

- Reversing contactor selection according to utilisation category, see pages 1/14 to 1/21.
- 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 \square or Ø 4 mm screw fixing.
- Screws in open "ready-to-tighten" position.

- [Auxiliary contact blocks and accessories, see pages 2/36 to 2/39.](#)

Standard power ratings of 3-phase motors 50/60 Hz in category AC-3	Rated operational current in AC-3 up to 400 V	Instantan. auxiliary contacts	Basic reference. Complete with code indicating control circuit voltage (1) (2)	Weight
220 V 380 V 440/500 V 240 V 415 V 660/690 V	220 V 380 V 440/500 V 240 V 415 V 660/690 V	A	N/O N/C	kg
kW kW kW				

Screw clamp connections

1.5 2.2 3	6	1 -	LC2-K0610●●	0.390
		- 1	LC2-K0601●●	0.390
2.2 4 4	9	1 -	LC2-K0910●●	0.390
		- 1	LC2-K0901●●	0.390
3 5.5 4 (> 440) 5.5 (440)	12	1 -	LC2-K1210●●	0.390
		- 1	LC2-K1201●●	0.390

Spring terminal connections

1.5 2.2 3	6	1 -	LC2-K06103●●	0.430
		- 1	LC2-K06013●●	0.430
2.2 4 4	9	1 -	LC2-K09103●●	0.430
		- 1	LC2-K09013●●	0.430
3 5.5 4 (> 440) 5.5 (440)	12	1 -	LC2-K12103●●	0.430
		- 1	LC2-K12013●●	0.430

(1) Standard control circuit voltages (for other voltages, please call our Customer information centre on 0870 608 8608).
Reversing contactors LC2-K (0.8...1.15 Uc) (0.85...1.1 Uc)

Volts \sim 50/60 Hz	12	20	24	36	42	48	110	115	120	127	200/ 208	220/ 230	230	230/ 240	256	277	380/ 400	
Code	J7	Z7	B7	C7	D7	E7	F7	FE7	G7	FC7	L7	M7	P7	U7	W7	UE7	Q7	V7
Volts \sim 50/60 Hz	400/ 415		440		480		500		575		600		660/ 690					

Up to and including 240 V, coil with integral suppression device available: add 2 to the code required. Example: **J72**

(2) For mains supplies with a high level of interference (voltage surge > 800 V), use a suppressor module LA4-KE1FC (50...129 V) or LA4-KE1UG (130...250 V), see page 2/38.

Selection:
pages 1/14 to 1/21

Characteristics:
pages 2/18 to 2/21

Dimensions:
page 2/42

Schemes:
page 2/43

2/28

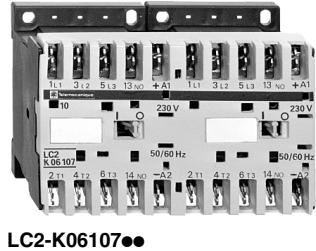
Telemecanique

Schneider Electric

References

Contactors

Reversing contactors for motor control
6 to 12 A in utilisation category AC-3
Control circuit: a.c.



LC2-K06107••

3-pole general purpose reversing contactors

- Reversing contactor selection according to utilisation category, see pages 1/14 to 1/21.
- 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 \sim or Ø 4 mm screw fixing.
- Screws in open "ready-to-tighten" position.

- **Auxiliary contact blocks and accessories, see pages 2/36 to 2/39.**

Standard power ratings of 3-phase motors 50/60 Hz in category AC-3	Rated operational current in AC-3 up to 400 V	Instant. auxiliary contacts	Basic reference. Complete with code indicating control circuit voltage (1) (2)	Weight kg
kW	kW	kW	A	N/O N/C

Faston connectors, 1 x 6.35 or 2 x 2.8

1.5	2.2	3	6	1	-	LC2-K06107••	0.370
				-	1	LC2-K06107••	0.370
2.2	4	4	9	1	-	LC2-K09107••	0.370
				-	1	LC2-K09107••	0.370
3	5.5	4 (> 440) 5.5 (440)	12	1	-	LC2-K12107••	0.370
				-	1	LC2-K12107••	0.370

Solder pins for printed circuit boards

1.5	2.2	3	6	1	-	LC2-K06105••	0.430
				-	1	LC2-K06105••	0.430
2.2	4	4	9	1	-	LC2-K09105••	0.430
				-	1	LC2-K09105••	0.430
3	5.5	4 (> 440) 5.5 (440)	12	1	-	LC2-K12105••	0.430
				-	1	LC2-K12105••	0.430

(1) Standard control circuit voltages (for other voltages, please call our Customer information centre on 0870 608 8608).
Reversing contactors LC2-K (0.8...1.15 Uc) (0.85...1.1 Uc)

Volts \sim	12	20	24	36	42	48	110	115	120	127	200/ 208	220/ 230	230/ 256	277	380/ 400
50/60 Hz											208	230	240		400

Code	J7	Z7	B7	C7	D7	E7	F7	FE7	G7	FC7	L7	M7	P7	U7	W7	UE7	Q7	V7	
Volts \sim	400/ 415		440		480		500		575		600		660/ 690						

Up to and including 240 V, coil with integral suppression device available: add 2 to the code required. Example: J72

(2) For mains supplies with a high level of interference (voltage surge > 800 V), use a suppressor module LA4-KE1FC (50...129 V) or LA4-KE1UG (130...250 V), see page 2/38.

2

2.2

Selection:
pages 1/14 to 1/21

Characteristics:
pages 2/18 to 2/21

Dimensions:
page 2/42

Schemes:
page 2/43

Schneider Electric

Telemecanique

2/29

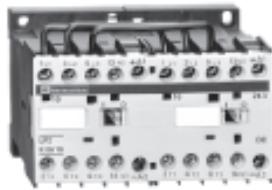
References (continued)

Contactors

Reversing contactors for motor control
6 to 12 A in utilisation category AC-3
Control circuit: a.c.



3-pole reversing contactors for use in sensitive environments



2

LC8-K06105••

2.2

Recommended for use in areas sensitive to noise, high interference mains supplies, etc.

- Reversing contactor selection according to utilisation category, see pages 1/14 to 1/21.
- Coil with rectifier incorporated, suppressor fitted as standard.
- 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 $\varnothing 4$ mm screw fixing.
- Screws in open, "ready-to-tighten" position.
- **Auxiliary contact blocks and accessories, see pages 2/36 to 2/39.**

Standard power ratings of 3-phase motors 50/60 Hz in category AC-3	Rated operational current in AC-3 up to	Instantan. auxiliary contacts	Basic reference. Complete with code indicating control circuit voltage (1) (2)	Weight
220 V 380 V 440/500 V	400 V			
240 V 415 V 660/690 V				

kW	kW	kW	A	N/O	N/C	kg
----	----	----	---	-----	-----	----

Screw clamp connections

1.5	2.2	3	6	1	-	LC8-K0610••	0.480
				-	1	LC8-K0601••	0.480
2.2	4	4	9	1	-	LC8-K0910••	0.480
				-	1	LC8-K0901••	0.480
3	5.5	4 (> 440) 5.5 (440)	12	1	-	LC8-K1210••	0.480
				-	1	LC8-K1201••	0.480

Faston connectors 1 x 6.35 or 2 x 2.8

1.5	2.2	3	6	1	-	LC8-K06107••	0.460
				-	1	LC8-K06017••	0.460
2.2	4	4	9	1	-	LC8-K09107••	0.460
				-	1	LC8-K09017••	0.460
3	5.5	4 (> 440) 5.5 (440)	12	1	-	LC8-K12107••	0.460
				-	1	LC8-K12017••	0.460

Solder pins for printed circuit boards

1.5	2.2	3	6	1	-	LC8-K06105••	0.520
				-	1	LC8-K06015••	0.520
2.2	4	4	9	1	-	LC8-K09105••	0.520
				-	1	LC8-K09015••	0.520
3	5.5	4 (> 440) 5.5 (440)	12	1	-	LC8-K12105••	0.520
				-	1	LC8-K12015••	0.520

(1) Standard control circuit voltages (for other voltages, please call our Customer information centre on 0870 608 8 608).

Reversing contactors LC8-K (0.85...1.1 Uc)

Volts \sim 50/60 Hz	24	42	48	110	115	220	230/ 240
--------------------------	----	----	----	-----	-----	-----	-------------

Code	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 2/38.

Selection:
pages 1/14 to 1/21

Characteristics:
pages 2/18 to 2/21

Dimensions:
page 2/42

Schemes:
page 2/43

2/30

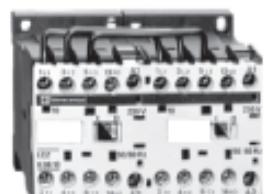
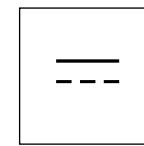
Telemecanique

Schneider Electric

References

Contactors

Reversing contactors for motor control
6 to 12 A in utilisation category AC-3
Control circuit: d.c.



LP2-K061000



LP2-K0610700

3-pole reversing contactors

- Contactor selection according to utilisation category, see pages 1/14 to 1/21.
- 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 \square or Ø 4 mm screw fixing.
- Screws in open "ready-to-tighten" position.

- **Auxiliary contact blocks and accessories, see pages 2/36 to 2/39.**

Standard power ratings of 3-phase motors 50/60 Hz in category AC-3	Rated operational current in AC-3 up to 400 V	Instant. auxiliary contacts	Basic reference. Complete with code indicating control circuit voltage (1) (2)	Weight	
kW	kW	kW	A	N/O N/C	kg
220 V 380 V 440/500 V 240 V 415 V 660/690 V	220 V 380 V 440/500 V 240 V 415 V 660/690 V				

Screw clamp connections

1.5	2.2	3	6	1 - - 1	LP2-K061000 LP2-K060100	0.480 0.480
2.2	4	4	9	1 - - 1	LP2-K091000 LP2-K090100	0.480 0.480
3	5.5	4 (> 440) 5.5 (440)	12	1 - - 1	LP2-K121000 LP2-K120100	0.480 0.480

Spring terminal connections

1.5	2.2	3	6	1 - - 1	LP2-K0610300 LP2-K0601300	0.520 0.520
2.2	4	4	9	1 - - 1	LP2-K0910500 LP2-K0901500	0.520 0.520
3	5.5	4 (> 440) 5.5 (440)	12	1 - - 1	LP2-K1210500 LP2-K1201500	0.520 0.520

Faston connectors, 1 x 6.35 or 2 x 2.8

1.5	2.2	3	6	1 - - 1	LP2-K0610700 LP2-K0601700	0.460 0.460
2.2	4	4	9	1 - - 1	LP2-K0910700 LP2-K0901700	0.460 0.460
3	5.5	4 (> 440) 5.5 (440)	12	1 - - 1	LP2-K1210700 LP2-K1201700	0.460 0.460

Solder pins for printed circuit boards

1.5	2.2	3	6	1 - - 1	LP2-K0610500 LP2-K0601500	0.520 0.520
2.2	4	4	9	1 - - 1	LP2-K0910500 LP2-K0901500	0.520 0.520
3	5.5	4 (> 440) 5.5 (440)	12	1 - - 1	LP2-K1210500 LP2-K1201500	0.520 0.520

(1) Standard control circuit voltages (for other voltages, please call our Customer information centre on 0870 608 8 608).

Reversing contactors LP2-K (0.8...1.15 Uc)

Volts ... 12 20 24 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.

(2) When connecting an electronic sensor or timer in series with the coil of the contactor, select a 20 V coil (\sim control circuit voltage code Z7, --- control circuit voltage code ZD) so as to compensate for the incurred voltage drop.

2

2.2

Selection:
pages 1/14 to 1/21

Characteristics:
pages 2/18 to 2/21

Dimensions:
page 2/42

Schemes:
page 2/43

Schneider Electric

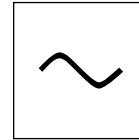
Telemecanique

2/31

References

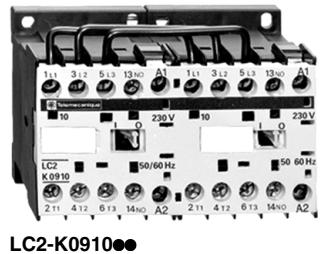
Contactors

Reversing contactors for control in utilisation category AC-1, 20 A
Control circuit: a.c.



2

2.2



LC2-K0910••

3 or 4-pole general purpose reversing contactors (1)

- **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 1/12 and 1/13.
- Integral mechanical interlock.
- It is essential to link the contacts of the electrical interlock.**
- Mounting on 35 mm mm^2 or Ø 4 mm screw fixing.
- Screws in open "ready-to-tighten" position.
- [Auxiliary contact blocks and accessories, see pages 2/36 to 2/39.](#)

Non inductive loads category	Number of poles	Instantan. auxiliary contacts	Basic reference. Complete with code indicating control circuit voltage (2)	Weight
AC-1 Maximum current at $\theta \leq 50^\circ\text{C}$			N/O N/C	kg

Screw clamp connections

20	3 -	1 -	LC2-K0910••	0.390
			or LC2-K1210••	0.390
	3 -	- 1	LC2-K0901••	0.390
			or LC2-K1201••	0.390
	4 -	- -	LC2-K09004••	0.380
			or LC2-K12004••	0.380

Spring terminal connections

20	3 -	1 -	LC2-K09103••	0.390
			or LC2-K12103••	0.390
	3 -	- 1	LC2-K09013••	0.390
			or LC2-K12013••	0.390
	4 -	- -	LC2-K090043••	0.380
			or LC2-K120043••	0.380

(1) Choice between 9 and 12 A depends on number of operating cycles, see AC-1 curve on page 1/12.

(2) Standard control circuit voltages (for other voltages, please call our Customer information centre on 0870 608 8608).

Reversing contactors LC2-K (0.8...1.15 Uc) (0.85...1.1 Uc)

Volts \sim 50/60 Hz	12	20	24(3)	36	42	48	110	115	120	127	200/ 208	220/ 230	230/ 240	256	277	380/ 400

Code J7 Z7 B7 C7 D7 E7 F7 FE7 G7 FC7 L7 M7 P7 U7 W7 UE7 Q7 V7

Volts \sim 50/60 Hz	400/ 415	440	480	500	575	600	660/ 690

Code 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**

(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 2/38.

Selection:
pages 1/12 and 1/13

Characteristics:
pages 2/18 to 2/21

Dimensions:
page 2/42

Schemes:
page 2/43

2/32

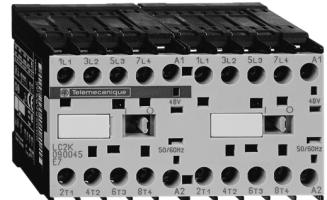
Telemecanique

Schneider Electric

References

Contactors

Reversing contactors for control in utilisation category AC-1, 20 A
Control circuit: a.c.



LC2-K090045**

3 or 4-pole general purpose reversing contactors (1)

- 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 1/12 and 1/13.
- Integral mechanical interlock.
- It is essential to link the contacts of the electrical interlock.**
- Mounting on 35 mm or Ø 4 mm screw fixing.
- Screws in open "ready-to-tighten" position.
- **Auxiliary contact blocks and accessories, see pages 2/36 to 2/39.**

2

Non inductive loads category AC-1	Number of poles	Instantaneous auxiliary contacts	Basic reference. Complete with code indicating control circuit voltage (2)	Weight
Maximum current at $\theta \leq 50^\circ\text{C}$			N/O N/C	kg

Faston connectors, 1 x 6.35 or 2 x 2.8

20	3 -	1 -	LC2-K09107**	0.370
		or LC2-K12107**		0.370
	3 -	- 1	LC2-K09017**	0.370
		or LC2-K12017**		0.370
	4 -	- -	LC2-K090047**	0.370
		or LC2-K120047**		0.370

2.2

Solder pins for printed circuit boards

20	3 -	1 -	LC2-K09105**	0.430
		or LC2-K12105**		0.430
	3 -	- 1	LC2-K09015**	0.430
		or LC2-K12015**		0.430
	4 -	- -	LC2-K090045**	0.430
		or LC2-K120045**		0.430

(1) Choice between 9 and 12 A depends on number of operating cycles, see AC-1 curve on page 1/12.

(2) Standard control circuit voltages (for other voltages, please call our Customer information centre on 0870 608 8 608).

Reversing contactors LC2-K (0.8...1.15 Uc) (0.85...1.1 Uc)

Volts \sim	12	20	24(3)	36	42	48	110	115	120	127	200/208	220/230	230/240	256	277	380/380	400/400	
50/60 Hz																		
Code	J7	Z7	B7	C7	D7	E7	F7	FE7	G7	FC7	L7	M7	P7	U7	W7	UE7	Q7	V7
Volts \sim	400/415		440		480		500		575		600		660/690					
50/60 Hz																		
Code	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**

(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 2/38.

Selection:
pages 1/12 and 1/13

Characteristics:
pages 2/18 to 2/21

Dimensions:
page 2/42

Schemes:
page 2/43

Schneider Electric

Telemecanique

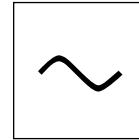
2/33



References (continued)

Contactors

Reversing contactors for control in utilisation category AC-1, 20 A
Control circuit: a.c.



2



2.2

3 or 4-pole reversing contactors for use in sensitive environments (1)

Recommended for use in areas sensitive to noise, high interference mains supplies, etc.

- **Warning:** reversing contactors LC2-K0910 $\bullet\bullet$ and LC2-K0901 $\bullet\bullet$ are pre-wired for reverse motor operation as standard.
- Reversing contactor selection according to utilisation category, see pages 1/12 and 1/13.
- Integral mechanical interlock.
- It is essential to link the contacts of the electrical interlock.**
- Mounting on 35 mm \square or Ø 4 mm screw fixing.
- Screws in open "ready-to-tighten" position.
- Auxiliary contact blocks and accessories, see pages 2/36 to 2/39.

Non inductive loads category AC-1 Maximum current at $0 \leq 50^\circ\text{C}$	Number of poles	Instantaneous auxiliary contacts	Basic reference. Complete with code indicating control circuit voltage (2) (3)	Weight kg
A	2	N/O N/C		

Screw clamp connections

20	3 -	1 -	LC8-K0910 $\bullet\bullet$	0.480
			or LC8-K1210 $\bullet\bullet$	0.480
	3 -	- 1	LC8-K0901 $\bullet\bullet$	0.480
			or LC8-K1201 $\bullet\bullet$	0.480
	4 -	- -	LC8-K09004 $\bullet\bullet$	0.470
			or LC8-K12004 $\bullet\bullet$	0.470

Faston connectors, 1 x 6.35 or 2 x 2.8

20	3 -	1 -	LC8-K09107 $\bullet\bullet$	0.460
			or LC8-K12107 $\bullet\bullet$	0.460
	3 -	- 1	LC8-K09017 $\bullet\bullet$	0.460
			or LC8-K12017 $\bullet\bullet$	0.460
	4 -	- -	LC8-K090047 $\bullet\bullet$	0.460
			or LC8-K120047 $\bullet\bullet$	0.460

Solder pins for printed circuit boards

20	3 -	1 -	LC8-K09105 $\bullet\bullet$	0.520
			or LC8-K12105 $\bullet\bullet$	0.520
	3 -	- 1	LC8-K09015 $\bullet\bullet$	0.520
			or LC8-K12015 $\bullet\bullet$	0.520
	4 -	- -	LC8-K090045 $\bullet\bullet$	0.520
			or LC8-K120045 $\bullet\bullet$	0.520

(1) Choice between 9 and 12 A depends on number of operating cycles, see AC-1 curve on page 1/12.

(2) Standard control circuit voltages (for other voltages, please call our Customer information centre on 0870 608 8 608).

Reversing contactors LC8-K (0.85...1.1 Uc): coil with integral rectifier and suppression device as standard.

Volts \sim 50/60 Hz	24	42	48	110	115	220	230/ 240
Code	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 2/38.

Selection:
pages 1/12 and 1/13

Characteristics:
pages 2/18 to 2/21

Dimensions:
page 2/42

Schemes:
page 2/43

2/34

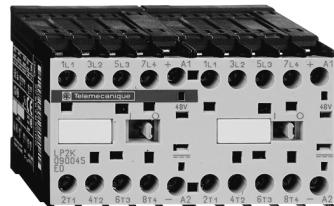
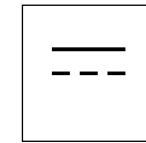
Telemecanique

Schneider Electric

References

Contactors

Reversing contactors for control in utilisation category AC-1, 20 A
Control circuit: d.c.



LP2-K090045**

3 or 4-pole reversing contactors (1)

- 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 1/12 and 1/13.
- Integral mechanical interlock.
- It is essential to link the contacts of the electrical interlock.**
- Mounting on 35 mm mm or $\varnothing 4$ mm screw fixing.
- Screws in open "ready-to-tighten" position.
- **Auxiliary contact blocks and accessories, see pages 2/36 to 2/39.**

2

2.2

Non inductive loads category AC-1 Maximum current at $\theta \leq 50^\circ\text{C}$	Number of poles	Instantaneous auxiliary contacts	Basic reference. Complete with code indicating control circuit voltage (2) (3)	Weight kg
A	3	N/O N/C		

Screw clamp connections

20	3 -	1 -	LP2-K0910** or LP2-K1210**	0.480 0.480
	3 -	- 1	LP2-K0901** or LP2-K1201**	0.480 0.480
	4 -	- -	LP2-K09004** or LP2-K12004**	0.480 0.480

Spring terminal connections				
20	3 -	1 -	LP2-K09103** or LP2-K12103**	0.480 0.480
	3 -	- 1	LP2-K09013** or LP2-K12013**	0.480 0.480
	4 -	- -	LP2-K090043** or LP2-K120043**	0.480 0.480

Faston connectors, 1 x 6.35 or 2 x 2.8				
20	3 -	1 -	LP2-K09107** or LP2-K12107**	0.460 0.460
	3 -	- 1	LP2-K09017** or LP2-K12017**	0.460 0.460
	4 -	- -	LP2-K090047** or LP2-K120047**	0.460 0.460

Solder pins for printed circuit boards				
20	3 -	1 -	LP2-K09105** or LP2-K12105**	0.520 0.520
	3 -	- 1	LP2-K09015** or LP2-K12015**	0.520 0.520
	4 -	- -	LP2-K090045** or LP2-K120045**	0.520 0.520

(1) Choice between 9 and 12 A depends on number of operating cycles, see AC-1 curve on page 1/12.
(2) Standard control circuit voltages (for other voltages, please call our Customer information centre on 0870 608 8 608).

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 suppression device available: add 3 to the code required. Example: JD3

(3) When connecting an electronic sensor or timer in series with the coil of the contactor, select a 20 V coil (\sim control circuit voltage code Z7, \perp control circuit voltage code ZD) in order to compensate for the incurred voltage drop

Selection:
pages 1/12 and 1/13

Characteristics:
pages 2/18 to 2/21

Dimensions:
page 2/42

Schemes:
page 2/43

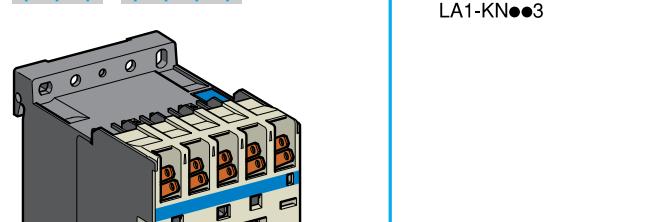
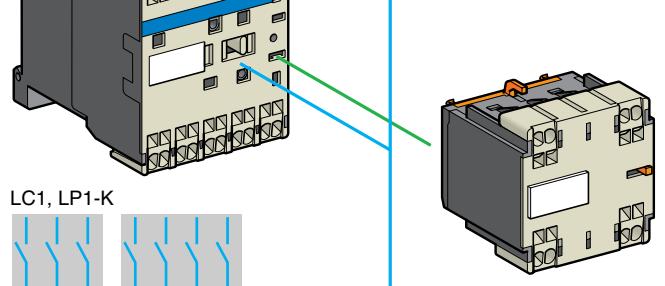
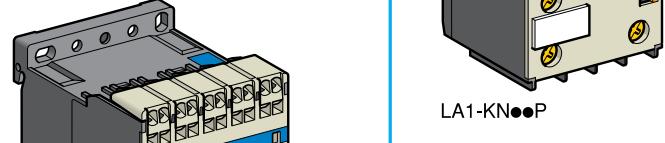
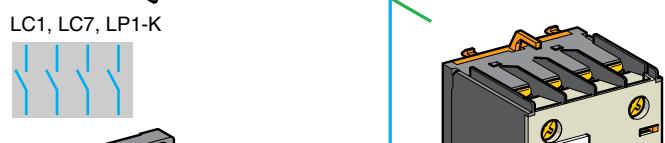
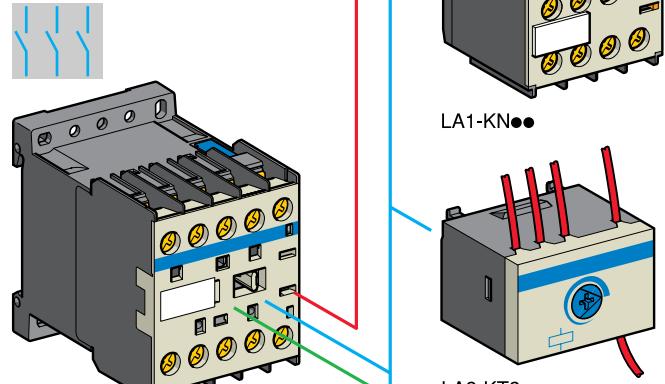
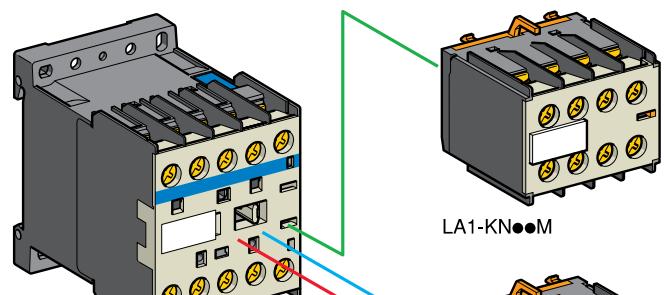
Schneider Electric

Telemecanique

2/35

2

2.2



References

Contactors

Contactors and reversing contactors, types LC●-K and LP●-K
Instantaneous and time delay auxiliary contacts

Instantaneous auxiliary contact blocks

Recommended for standard applications. Clip-on front mounting, 1 block per contactor					
Type of connection	For use with contactors	Composition	Reference	Weight	
		N/O N/C		kg	
Screw clamp	LC1, LC2 LC7, LC8 LP1, LP2 3 or 4-pole	2 – – 2 1 1 4 – 3 1 2 2 1 3 – 4	LA1-KN20 LA1-KN02 LA1-KN11 LA1-KN40 LA1-KN31 LA1-KN22 LA1-KN13 LA1-KN04	0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045	
Spring terminal	LC1, LC2, LP1, LP2 3 or 4-pole	2 – – 2 1 1 4 – 3 1 2 2 1 3 – 4	LA1-KN203 LA1-KN023 LA1-KN113 LA1-KN403 LA1-KN313 LA1-KN223 LA1-KN133 LA1-KN043	0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045	
Faston 1 x 6.35 or 2 x 2.8	LC1, LC2 LC7, LC8 LP1, LP2 3 or 4-pole	2 – – 2 1 1 4 – 3 1 2 2 1 3 – 4	LA1-KN207 LA1-KN027 LA1-KN117 LA1-KN407 LA1-KN317 LA1-KN227 LA1-KN137 LA1-KN047	0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045	

2

2.2

With terminal referencing conforming to standard EN 50012. Clip-on front mounting, 1 block per contactor

Screw clamp with terminal referencing conforming to standard EN 50012	LC1, LC2 LC7, LC8 LP1, LP2 3-pole + N/O	– 2 1 1 3 1 2 2 1 3	LA1-KN02M LA1-KN11M LA1-KN31M LA1-KN22M LA1-KN13M	0.045 0.045 0.045 0.045 0.045
	LC1, LC2 LC7, LC8 LP1, LP2 4-pole	1 1 2 2	LA1-KN11P LA1-KN22P	0.045 0.045

Electronic time delay auxiliary contact blocks

- Relay output, with common point changeover contact, \sim 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	Weight
V			C/O		kg
\sim or $=$ 24...48	On-delay	1...30	1	LA2-KT2E	0.040
\sim 110...240	On-delay	1...30	1	LA2-KT2U	0.040

2/37

Characteristics:
pages 2/18 to 2/21

Dimensions:
pages 2/40 and 2/42

Schemes:
pages 2/41 and 2/43

Schneider Electric

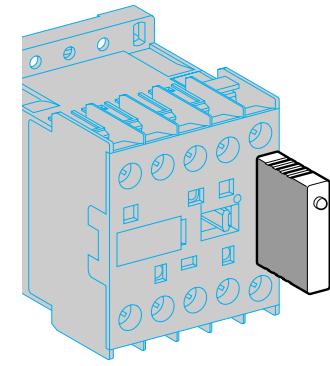
Telemecanique

References

Contactors

Contactors and reversing contactors, types LC●-K and LP●-K
Suppressor modules incorporating LED indicator

2



LA4-Ke●●

2.2

Mounting and connection	Type	For voltages:	Sold in lots of	Unit reference	Weight kg
Clip-on fixing on the front of contactors LC1 and LP1, with locating device. No tools required.	Varistor (1)	~ and 12...24 V	5	LA4-KE1B	0.010
		~ and 32...48 V	5	LA4-KE1E	0.010
		~ and 50...129 V	5	LA4-KE1FC	0.010
		~ and 201...250 V	5	LA4-KE1UG	0.010
	Diode + Zener diode (2)	~ 12...24 V	5	LA4-KC1B	0.010
		~ 32...48 V	5	LA4-KC1E	0.010
	RC (3)	~ 220...250 V	5	LA4-KA1U	0.010

(1) Protection by limitation of the transient voltage up to 2 Uc maximum.

Maximum reduction of transient voltage peaks.

Slight time delay on drop-out (1.1 to 1.5 times the normal time).

(2) No overvoltage or oscillation frequency.

Polarised component.

Slight time delay on drop-out (1.1 to 1.5 times the normal time).

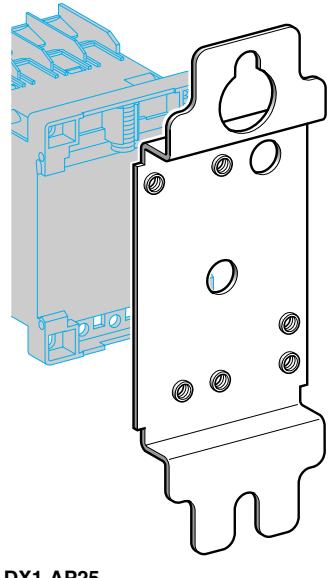
(3) Protection by limitation of the transient voltage up to 3 Uc maximum and limitation of the oscillation frequency.

Slight time delay on drop-out (1.2 to 2 times the normal time).

References

Contactors

Contactors and reversing contactors, types LC●-K and LP●-K
Accessories



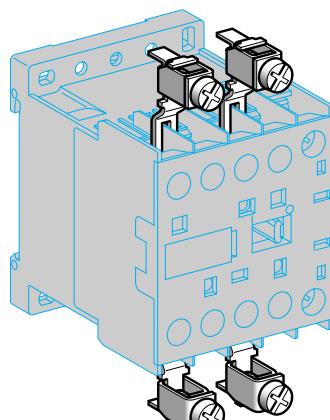
DX1-AP25

Mounting and marking accessories

Description	Application	Sold in lots of	Unit reference	Weight kg
Mounting plates (1)	For fixing on 1 ↗ rail	Clip-on	1	LA9-D973 0.025
	For fixing on 2 ↗ rails	110/120 mm fixing centres	1	DX1-AP25 0.065
Marker holder	Clip-on	Onto front of contactor	100	LA9-D90 0.001
Clip-in markers	4 maximum per contactor	Strips of 10 identical numbers 0...9	25	AB1-R● (2) 0.002
		Strips of 10 identical capital letters A...Z	25	AB1-G● (2) 0.002

2

2.2



LA9-E01

Cabling accessories

Description	Application	Sold in lots of	Unit reference	Weight kg
Paralleling links	For 2 poles	With screw clamp terminals	4	LA9-E01 0.010
	For 4 poles	With screw clamp terminals	2	LA9-E02 0.015
Set of 6 power connections	For 3-pole reversing contactors for motor control	For contactors with screw clamp terminals	100	LA9-K0969 0.010
Set of 4 power connections	For 4-pole changeover contactor pairs	For contactors with screw clamp terminals	100	LA9-K0970 0.010

(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 ● with the required character.

Characteristics:
pages 2/18 to 2/21

Dimensions:
pages 2/40 and 2/42

Schemes:
pages 2/41 and 2/43

Schneider Electric

Telemecanique

2/39



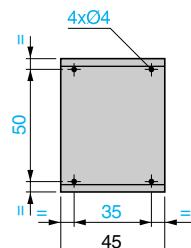
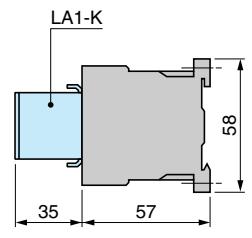
Dimensions, mounting

Contactors

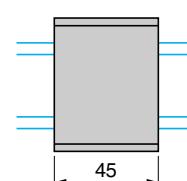
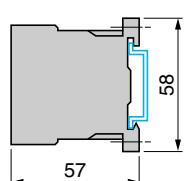
Contactors, types LC•-K and LP1-K

2

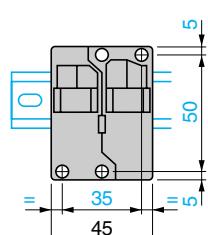
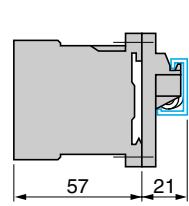
Contactors
LC1-K, LC7-K, LP1-K
On panel



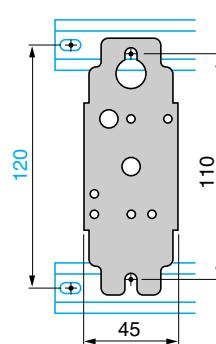
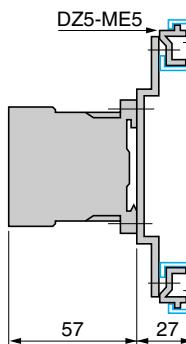
On mounting rail AM1-DP200 or AM1 DE200 (\perp 35 mm)



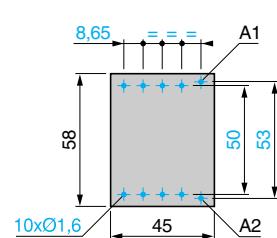
2.2



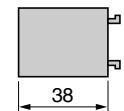
DX1-AP25



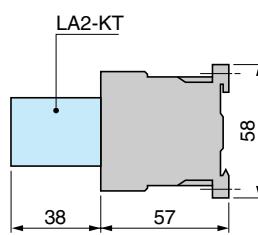
On printed circuit board



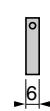
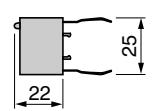
Electronic time delay auxiliary contact blocks
LA2-KT



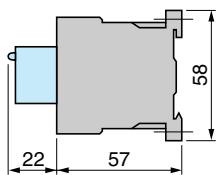
On contactor



Suppressor modules
LA4-K•



On contactor



Selection:
pages 1/12 to 1/35

Characteristics:
pages 2/18 to 2/21

References:
pages 2/22 to 2/35

Schemes:
page 2/41

2/40

Telemecanique

Schneider Electric



Schemes

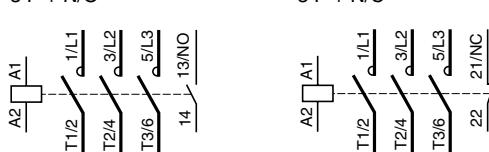
Contactors

Contactors, types LC•-K and LP•-K

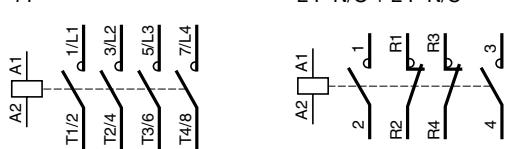
2

2.2

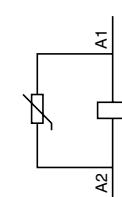
3-pole contactors
LC1-K, LC7-K, LP1-K
3 P + N/O



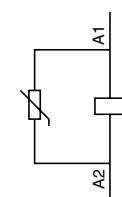
4-pole contactors, 9 A
LC1-K, LC7-K, LP1-K
4 P



Integral suppression device
LC7-K



Integral coil suppression device
LC7-K



Instantaneous auxiliary contacts LA1-K
For contactors LC•-K and LP•-K

2 N/O
LA1-KN20
LA1-KN207

4 N/O
LA1-KN40
LA1-KN407

2 N/C
LA1-KN02
LA1-KN027

3 N/O + 1 N/C
LA1-KN31
LA1-KN317

1 N/O + 1 N/C
LA1-KN11
LA1-KN117

2 N/O + 2 N/C
LA1-KN22
LA1-KN227

4 N/C
LA1-KN04
LA1-KN047

Terminal referencing conforming to standard EN 50012
For 3-pole contactors

2 N/C
LA1-KN02M

1 N/O + 1 N/C
LA1-KN11M

3 N/O + 1 N/C
LA1-KN31M

2 N/O + 2 N/C
LA1-KN22M

1 N/O + 3 N/C
LA1-KN13M

For 4-pole contactors
1 N/O + 1 N/C
LA1-KN11P

14 / 13/NO
22 / 21/NC

22 / 21/NC
34 / 33/NO

22 / 21/NC
35/NO
42 / 43/NO
54 / 55/NO

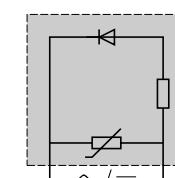
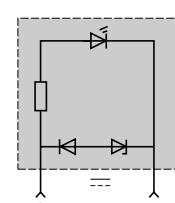
22 / 21/NC
32 / 31/NC
42 / 43/NO
54 / 55/NO

Electronic time delay auxiliary contact blocks
LA2-KT
For contactors LC•-K and LP•-K
1 C/O

A1
A2
16 / 15 / 18

Suppressor modules
LA4-KC

LA4-KE



Schemes:
page 2/41

Selection:
pages 1/12 to 1/35

Characteristics:
pages 2/18 to 2/21

References:
pages 2/22 to 2/35

Schneider Electric

Telemecanique

2/41

Dimensions, mounting

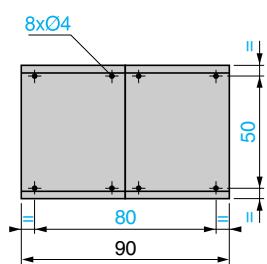
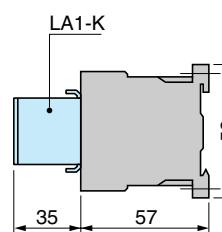
Contactors

Reversing contactors, types LC•-K and LP2-K

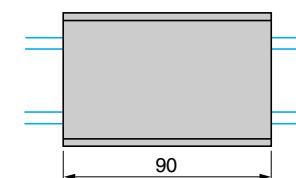
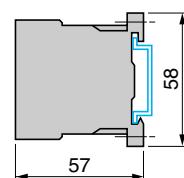
**Reversing contactors
LC2-K, LC8-K, LP2-K**

On panel

2

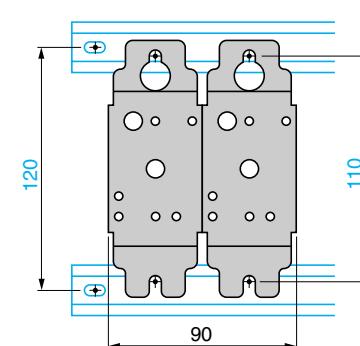
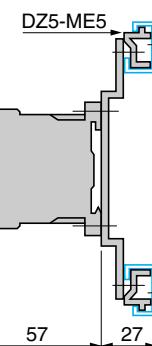
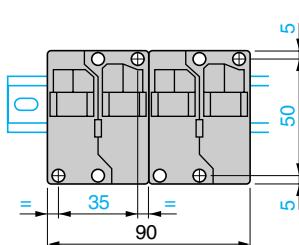
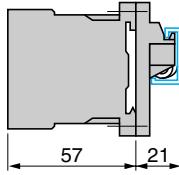


On mounting rail AM1-DP200 or AM1-DE200 (\sim 35 mm)

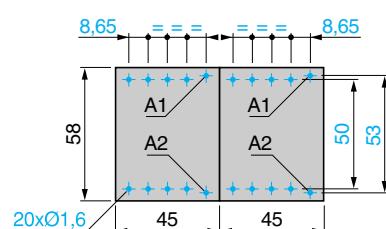


On one asymmetrical rail DZ5-MB with 2 clip-on mounting plates LA9-D973 or on 2 mounting plates DX1-AP25.

2.2

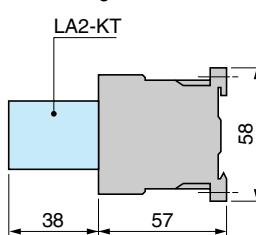
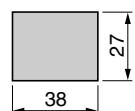
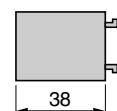


On printed circuit board for reversing contactors or 2 contactors mounted side by side



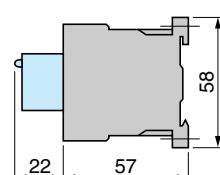
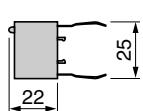
**Electronic time delay contact blocks
LA2-KT**

On reversing contactors



**Suppressor modules
LA4-K•**

On reversing contactors



**Selection:
pages 1/12 to 1/35**

**Characteristics:
pages 2/18 to 2/21**

**References:
pages 2/22 to 2/35**

**Schemes:
page 2/43**

2/42

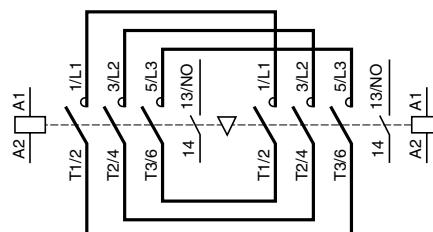
Telemecanique

Schneider Electric

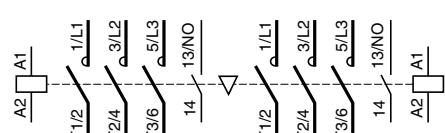
*Schemes***Contactors**

3 and 4-pole reversing contactors, types LC•-K and LP•-K

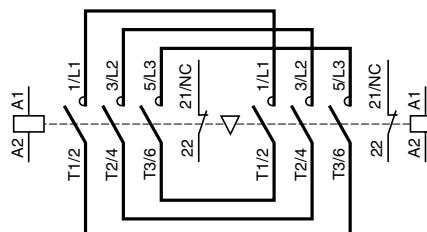
3-pole reversing contactors
LC2-K, LC8-K, LP2-K
With screw clamp terminals
3 P + N/O



With Faston connectors or solder pins (printed circuit board)
3 P + N/O



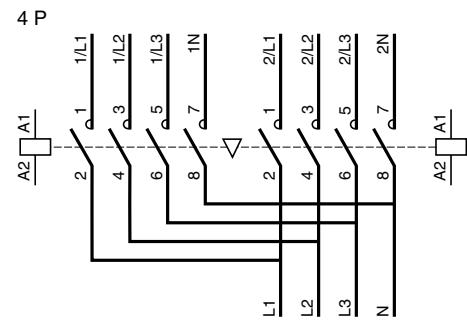
3 P + N/C



Integral suppression device
LC8-K

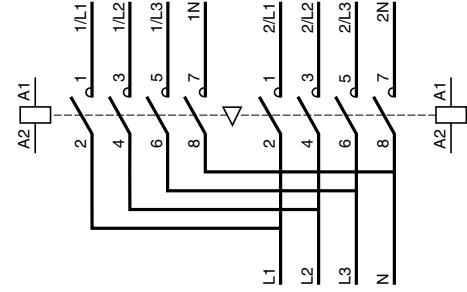
2

4-pole reversing contactors
LC2-K, LC8-K, LP2-K
With screw clamp terminals



With Faston connectors or
solder pins (printed circuit board)

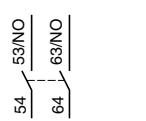
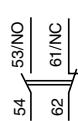
4 P



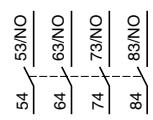
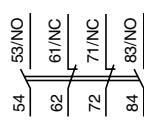
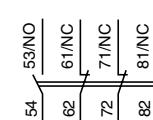
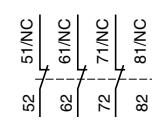
Integral suppression device
LC8-K

2.2

Instantaneous auxiliary contact blocks LA1-K
For contactors LC•-K and LP2-K

2 N/O
LA1-KN20
LA1-KN2072 N/C
LA1-KN02
LA1-KN0271 N/O + 1 N/C
LA1-KN11
LA1-KN117Terminal referencing conforming to standard EN 50012
1 N/O + 1 N/C
LA1-KN11P

For contactors LC•-K, LP2-K

4 N/O
LA1-KN40
LA1-KN4073 N/O + 1 N/C
LA1-KN31
LA1-KN3172 N/O + 2 N/C
LA1-KN22
LA1-KN2271 N/O + 3 N/C
LA1-KN13
LA1-KN1374 N/C
LA1-KN04
LA1-KN047

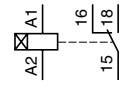
Auxiliary contacts with terminal referencing conforming to standard EN 50012 see page 2/41

Electronic time delay contact blocks

LA2-KT

For contactors LC•-K and LP•-K

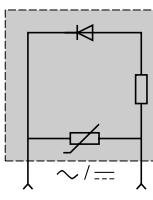
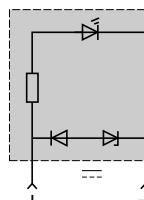
1 C/O



Suppressor modules

LA4-KC

LA4-KE

Selection:
pages 1/12 to 1/35Characteristics:
pages 2/18 to 2/21References:
pages 2/22 to 2/35Dimensions:
page 2/42

Schneider Electric

Telemecanique

2/43

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Solid State Relays - Industrial Mount category:

Click to view products by Schneider manufacturer:

Other Similar products are found below :

[6225XXASRS-DC3](#) [D2440-C](#) [H10CA4890](#) [D4875C](#) [D53TP50DH-10](#) [1395831-1](#) [1616010-6](#) [BR312BY](#) [A-1326](#) [AQY210SXE01](#)
[AQY221N2SYD01](#) [AQY414SXE01](#) [26532764](#) [H10CA4850](#) [H12CA4890VL](#) [RA2410-D06](#) [D1202F](#) [D53TP50-10](#) [W230E-1-12](#) [W230T-3-12](#) [W6125ASX-1](#) [W6225DSX-2](#) [W6240DSX-4](#) [W6240DTX-2](#) [1-1617030-3](#) [1-1617033-9](#) [1-1617033-7](#) [MS2-D2420](#) [MS2-D2430](#) [A-1440](#)
[4-1617080-0](#) [RJ1P60V50E](#) [RN1F48I50](#) [70.362.1028.0](#) [7-1393030-8](#) [Z5.509.0828.0](#) [W230E-2-5](#) [G3RV-SR700-D](#) [AC110](#) [G3RV-SR500-AL](#)
[AC100](#) [G3RV-SR500-D](#) [ACDC24](#) [G3RV-SR500-AL](#) [ACDC24](#) [G3RV-SR700-D](#) [ACDC24](#) [G3RV-SR700-AL](#) [ACDC24](#) [G3RV-SR500-D](#)
[DC12](#) [G3RV-SR700-A](#) [ACDC24](#) [G3RV-SR500-A](#) [ACDC24](#) [2912138](#) [2912141](#) [SSRDAC10](#) [1613353](#)