

Applications		Simple automation systems	
			
Rated operational current	Ie max AC-3 (Ue ≤ 440 V)	6 A	6 A
	Ie AC-1 (θ ≤ 40 °C)	12 A	—
Rated operational voltage		690 V	
Number of poles		2 or 3	3
Rated operational power in category AC-3	220/240 V	1.1 kW	1.5 kW
	380/400 V	2.2 kW	2.2 kW
	415/440 V	2.2 kW	2.2/3 kW
	500 V	—	3 kW
	660/690 V	—	3 kW
	1000 V	—	—
Add-on auxiliary contact blocks	Front	Up to 2 N/C or N/O	Up to 4 N/C or N/O
	Side	—	—
	Front time delay	—	1 N/C
	Front dust and damp protected	—	—
Associated manual-auto thermal overload relays	Class 10 A	—	0.11...16 A
	Class 20 A	—	—
Suppressor modules		Varistor or diode	Varistor, diode + Zener diode or RC circuit
Contactor type references	~	LC1 SK	LC1 or LC7 K06
	...	LP1 SK	LP1 K06
Reversing contactor with mechanical interlock type references	~	—	LC2 or LC8 K06
	...	—	LP2 K06
Pages	Contactors	Pages 5/34 and 5/35	Pages 5/14 to 5/17
	Reversing contactors	—	Pages 5/18 to 5/21



9 A	12 A	16 A
20 A	–	–

3 or 4
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2.2 kW	3 kW	3 kW
4 kW	5.5 kW	7.5 kW
4 kW	5.5 kW	7.5 kW
4 kW	4 kW	5.5 kW
4 kW	4 kW	4 kW
–	–	–

5

LC1 or LC7 K09	LC1 or LC7 K12	LC1 K16
LP1 K09	LP1 K12	–
LC2 or LC8 K09	LC2 or LC8 K12	LC2 K16
LP2 K09	LP2 K12	–

## Environment characteristics

<b>Conforming to standards</b>			IEC 60947, NF C 63-110, VDE 0660, BS 5424		
<b>Product certifications</b> <b>LC● and LP● K06 to K12</b>			UL, CSA		
<b>Operating positions</b>			<div> <div> <b>Vertical axis</b>  </div> <div> <b>Horizontal axis</b>  </div> <div> </div> </div> <p>Without derating      Without derating      Possible positions for <b>LC● K</b> only. Contactor pull-in voltage: 0.85 U<sub>c</sub></p>		
<b>Connection</b>			<b>Min.</b>	<b>Max.</b>	<b>Max. to IEC 60947</b>
Screw clamp terminals	Solid conductor	mm <sup>2</sup>	1 x 1.5	2 x 4	1 x 4 + 1 x 2.5
	Flexible conductor without cable end	mm <sup>2</sup>	1 x 0.75	2 x 4	2 x 2.5
	Flexible conductor with cable end	mm <sup>2</sup>	1 x 0.34	1 x 1.5 + 1 x 2.5	1 x 1.5 + 1 x 2.5
Spring terminals	Solid conductor	mm <sup>2</sup>	1 x 0.75	1 x 1.5	2 x 1.5
	Flexible conductor without cable end	mm <sup>2</sup>	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		
<b>Tightening torque</b>	Philips head n° 2 and Ø 6	N.m	0.8		
<b>Terminal referencing</b>	Conforming to standards EN 50005 and EN 50012		Up to 5 contacts, depending on model		
<b>Rated insulation voltage</b> (U <sub>i</sub> )	Conforming to IEC 60947	V	690		
	Conforming to VDE 0110 gr C	V	750		
	Conforming to BS 5424, NF C 20-040	V	690		
	Conforming to CSA 22-2 n° 14, UL 508	V	600		
<b>Rated impulse withstand voltage</b> (U <sub>imp</sub> )		kV	8		
<b>Protective treatment</b>	Conforming to IEC 60068 (DIN 50016)		"TC" (Klimafest, Climateproof)		
<b>Degree of protection</b>	Conforming to VDE 0106		Protection against direct finger contact		
<b>Ambient air temperature</b> around the device	Storage	°C	- 50...+ 80		
	Operation	°C	- 25...+ 50		
<b>Maximum operating altitude</b>	Without derating	m	2000		
<b>Vibration resistance</b> 5 ... 300 Hz	Contactor open		2 gn		
	Contactor closed		4 gn		
<b>Flame resistance</b>	Conforming to UL 94		Self-extinguishing materials V1		
	Conforming to NF F 16-101 and 16-102		Conforming to requirement 2		
<b>Shock resistance</b> (1/2 sine wave, 11 ms)	Contactor open		On X axis: 6 gn On Y and Z axes: 10 gn		
	Contactor closed		On X axis: 10 gn On Y and Z axes: 15 gn		
<b>Safe separation of circuits</b>	Conforming to VDE 0106 and IEC 60536		SELV (Safety Extra Low Voltage), up to 400 V		

Pole characteristics							
Type	LC● or LP●			K06	K09	K12	K16
Conventional thermal current (I <sub>th</sub> )	For ambient temperature ≤ 50 °C		A	20			
Rated operational frequency			Hz	50/60			
Frequency limits of the operational current			Hz	Up to 400			
Rated operational voltage (U <sub>e</sub> )			V	690			
Rated making capacity	I rms conforming to NF C 63 110 and IEC 60947		A	110	110	144	160
Rated breaking capacity	I rms conforming to NF C 63 110 and IEC 60947	220/230 V	A	110	110	—	—
		380/400 V	A	110	110	—	—
		415 V	A	110	110	—	—
		440 V	A	110	110	110	110
		500 V	A	80	80	80	80
		660/690 V	A	70	70	70	70
Permissible short time rating	In free air for a time "t" from cold state (θ ≤ 50 °C)	1 s	A	90	90	115	115
		5 s	A	85	85	105	105
		10 s	A	80	80	100	100
		30 s	A	60	60	75	75
		1 min	A	45	45	55	55
		3 min	A	40	40	50	50
		≥ 15 min	A	20	20	25	25
Short-circuit protection	gG fuse U ≤ 440 V (aM fuse)		A	25			
Average impedance per pole	At I <sub>th</sub> and 50 Hz		mΩ	3			
Use in category AC-1 resistive circuits, heating, lighting (U <sub>e</sub> ≤ 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 <sub>e</sub> only			
	Rated operational current limits in relation to the on-load factor and operating frequency			On-load factor	90 %	60 %	30 %
			A	300 operating cycles/hour	13	15	18
			A	120 operating cycles/hour	15	18	19
			A	30 operating cycles/hour	19	20	20
	Increase in rated operational current by paralleling of poles			Apply the following coefficients to the above currents; these coefficients take into account an often unbalanced distribution of current between the poles			
				2 poles in parallel: K = 1.60			
				3 poles in parallel: K = 2.25			
				4 poles in parallel: K = 2.80			
Use in category AC-3 squirrel cage motors	Operational power according to the voltage. Voltage 50 or 60 Hz	115 V single-ph.	kW	0.37	0.55	—	—
		220 V single-ph.	kW	0.75	1.1	—	—
		220/230 V 3-	kW	1.5	2.2	3	4
		380/415 V 3-	kW	2.2	4	5.5	7.5
		440/480 V 3-	kW	3	4	5.5/4 (480)	5.5/4 (480)
		500/600 V 3-	kW	3	4	4	4
		660/690 V 3-ph.	kW	3	4	4	4
		Maximum operating rate (in operating cycles/hour in relation to % of rated power)		Op. cycles/h	600	900	1200
				Power	100 %	75 %	50 %

Control circuit characteristics									
Type		LC1	LC2	LC7	LC8	LP1	LP2	LP4	LP5
Rated control circuit voltage (Uc)	V	~ 12...690 (1)		~ 24...240 (1)		~ 12...250 (1)		~ 12...120	
Control voltage limits (≤ 50 °C) single voltage coil	Operation	0.8...1.15 Uc (2)		0.85...1.1 Uc		0.8...1.15 Uc		0.7...1.30 Uc	
	Drop-out	≥ 0.20 Uc		≥ 0.10 Uc		≥ 0.10 Uc		≥ 0.10 Uc	
Average consumption at 20 °C and at Uc	Inrush	30 VA		3 VA		3 W		1.8 W	
	Sealed	4.5 VA		3 VA		3 W		1.8 W	
Heat dissipation	W	1.3		3		3		1.8	
Operating time at 20 °C and at Uc									
Between coil energisation and:	- opening of the N/C contacts	ms		5...15		25...35		25...35	
	- closing of the N/O contacts	ms		10...20		30...40		30...40	
Between coil de-energisation and:	- opening of the N/O contacts	ms		10...20		30		10...20	
	- closing of the N/C contacts	ms		15...25		40		15...25	
Maximum immunity to microbreaks	ms	2		2		2		2	
Maximum operating rate	In operating cycles per hour	3600		3600		3600		3600	
Mechanical durability at Uc In millions of operating cycles	50/60 Hz coil	10	5	10	5	—	—	—	—
	--- coil	—	—	—	—	10	5	—	—
	Wide range coil, Low consumption	—	—	—	—	—	—	30	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 LA4 KE1UG (130...250 V), see page 5/24.

(2) LC1 K16: 0.85...1.15 Uc.

### Auxiliary contact characteristics of contactors and instantaneous contact blocks

Number of auxiliary contacts	On LC● K or LP● K 3-pole		1	
	On LA1 K		2 or 4	
Rated operational voltage (Ue) Up to		V	690	
Rated insulation voltage (Ui)	Conforming to BS 5424	V	690	
	Conforming to IEC 60947	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 the operational current		Hz	Up to 400	
Minimum switching capacity	U min (DIN 19 240)	V	17	
	I min	mA	5	
Short-circuit protection	Conforming to IEC 60947 and VDE 0660, gG fuse	A	10	
Rated making capacity	Conforming to IEC 60947 I rms	A	110	
Short-time rating	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 conforming to INRS, BIA and CNA specifications	mm	0.5 (see schemes pages 5/27 and 5/29)	

**Operational power of contacts**  
conforming to IEC 60947

#### a.c. supply, category AC-15

Electrical durability (valid for up to 3600 operating cycles/hour) on an inductive load such as the coil of an electromagnet: making current ( $\cos \varphi 0.7$ ) = 10 times the power broken ( $\cos \varphi 0.4$ ).

V	24	48	110/127	220/230	380/400	440	600/690
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

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

#### d.c. supply, category DC-13

Electrical durability (valid for up to 1200 operating cycles/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  
(power broken = making current x  $\cos \varphi 0.7$ ).

#### 2 Electrical durability of contacts for:

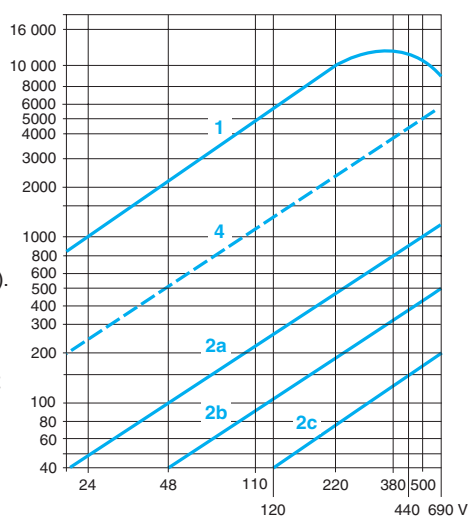
- 1 million operating cycles (2a)  
- 3 million operating cycles (2b)  
- 10 million operating cycles (2c).

#### 3 Breaking limit of contacts valid for:

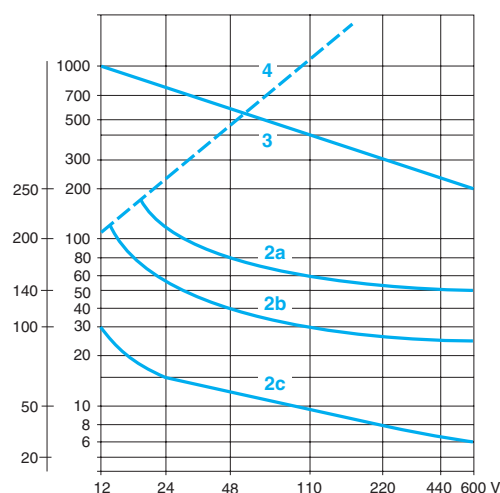
- maximum of 20 operating cycles at 10 s intervals with current passing for 0.5 s per operating cycle.

#### 4 Thermal limit.

Power broken in VA

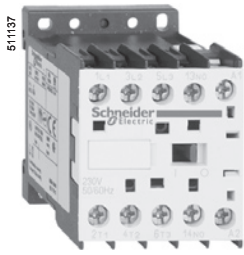


Power broken in W

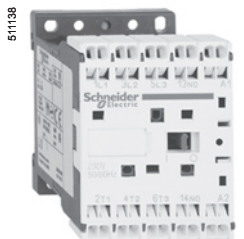


# TeSys contactors

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.



LC1 K0910●●



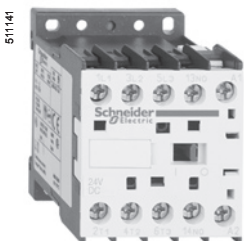
LC1 K09103●●



LC1 K09107●●



LC1 K09105●●



LC7 K0910●●

Contactors selection according to utilisation category, see pages 5/194 to 5/197 and 5/200 to 5/203.  
Mounting on 35 mm rail or Ø 4 screw fixing.  
Screws in the open "ready-to-tighten" position.  
Add-on auxiliary contact blocks and accessories, see pages 5/23 to 5/25.

## 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)	Weight
220 V	380 V	440/500 V					
230 V	415 V	660/690 V					
kW	kW	kW		A			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)		12	1	LC1 K1210●●	0.180
		5.5 (440)			—	1 LC1 K1201●●	0.180
4	7.5	4 (> 440)		16	1	LC1 K1610●●	0.180
		5.5 (440)			—	1 LC1 K1601●●	0.180

## Spring terminal connections

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	—	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)		12	1	—	LC7 K1210●●	0.225
		5.5 (440)			—	1	LC7 K1201●●	0.225

## 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

Contactors LC1 K (0.85...1.15 U<sub>c</sub>) (0.85...1.1 U<sub>c</sub>)

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.

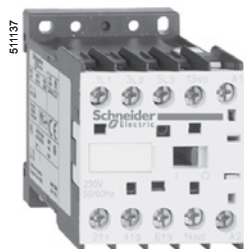
## Contactors LC7 K (0.85...1.1 U<sub>c</sub>)

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 5/24.

## 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●●



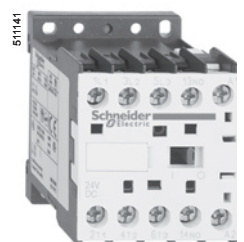
LP1 K09103●●



LP1 K09107●●



LP1 K09105●●



LP4 K0910●●

Contactors selection according to utilisation category, see pages 5/194 to 5/197 and 5/200 to 5/203.

Mounting on 35 mm rail or Ø 4 screw fixing.

Screws in the open "ready-to-tighten" position.

Add-on auxiliary contact blocks and accessories, see pages 5/23 to 5/25.

## 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	Instantaneous auxiliary contacts	Basic reference, to be completed by adding the voltage code (1) (2)	Weight
220 V	380 V	440/500 V		440 V up to			
230 V	415 V	660/690 V					
kW	kW	kW		A			kg
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)	12		1 –	LP1 K1210●●	0.225
		5.5 (440)			– 1	LP1 K1201●●	0.225

## Spring terminal connections

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.

LED indicator incorporated (except models LP4 K●●●FW3 and LP4 K●●●GW3).

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 –	LP4 K0610●●	0.235
					– 1	LP4 K0601●●	0.235
2.2	4	4	9		1 –	LP4 K0910●●	0.235
					– 1	LP4 K0901●●	0.235
3	5.5	4 (> 440)	12		1 –	LP4 K1210●●	0.235
		5.5 (440)			– 1	LP4 K1201●●	0.235

## 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\*130 Uc)

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

(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.

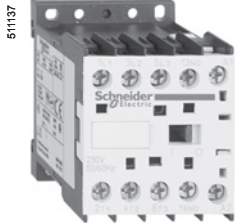


Contactor selection according to utilisation category, see pages 5/198 and 5/199.

Mounting on 35 mm rail or Ø 4 screw fixing.

Screws in the open "ready-to-tighten" position.

Add-on auxiliary contact blocks and accessories, see pages 5/23 to 5/25.



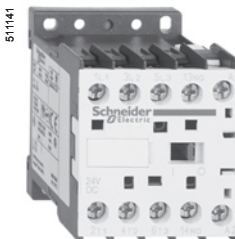
LC1 K09004●●



LC1 K09103●●





LC1 K09107●●



LC1 K09004●●

### 3 or 4-pole contactors for standard applications (1)

Non-inductive loads Category AC-1 Maximum current at $\theta \leq 50\text{ }^{\circ}\text{C}$	Number of poles 	Instantaneous auxiliary contacts 	Basic reference, to be completed by adding the voltage code <sup>(2)</sup> <sup>(3)</sup>	Weight		
A				kg		
Screw clamp connections						
20	3	—	1	—	LC1 K0910●●	0.180
					or LC1 K1210●●	0.180
	3	—	—	1	LC1 K0901●●	0.180
					or LC1 K1201●●	0.180
	4	—	—	—	LC1 K09004●●	0.180
					or LC1 K12004●●	0.180
2	2	—	—	LC1 K09008●●	0.180	

### Spring terminal connections

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	—	LC7 K0910●●	0.225
					or LC7 K1210●●	0.225
	3	—	—	1	LC7 K0901●●	0.225
					or LC7 K1201●●	0.225
	4	—	—	—	LC7 K09004●●	0.225
					or LC7 K12004●●	0.225
	2	2	—	—	LC7 K09008●●	0.225

### 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 5/198.

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

### a.c. supply

#### 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 5/24.

Contactor selection according to utilisation category, see pages 5/198 and 5/199.

Mounting on 35 mm rail or Ø 4 screw fixing.

Screws in the open "ready-to-tighten" position.

Add-on auxiliary contact blocks and accessories, see pages 5/23 to 5/25.

### 3 and 4-pole contactors, d.c. supply (1)

Non-inductive loads Category AC-1 Maximum current at $\theta \leq 50\text{ }^{\circ}\text{C}$	Number of poles		Instantaneous auxiliary contacts		Basic reference, to be completed by adding the voltage code (2) (3)	Weight
A						kg
Screw clamp connections						
20	3	—	1	—	LP1 K0910●●	0.225
					or LP1 K1210●●	0.225
	3	—	—	1	LP1 K0901●●	0.225
					or LP1 K1201●●	0.225
	4	—	—	—	LP1 K09004●●	0.225
					or LP1 K12004●●	0.225
2	2	—	—	LP1 K09008●●	0.225	

### Spring terminal connections

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.

LED indicator incorporated (except models LP4 K●●●●FW3 and LP4 K●●●●GW3).

Wide range coil (0.7...1.30 Uc), suppressor fitted as standard, consumption 1.8 W.

### Screw clamp connections

20	3	—	1	—	LP4 K0910●●●	0.235
					or LP4 K1210●●●	0.235
	3	—	—	1	LP4 K0901●●●	0.235
					or LP4 K1201●●●	0.235
	4	—	—	—	LP4 K09004●●●	0.235
					or LP4 K12004●●●	0.235
	2	2	—	—	LP4 K09008●●●	0.235

### 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 5/24.

(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)

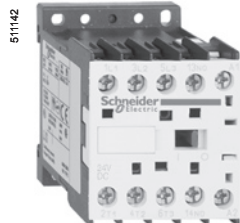
Volts ---	12	20	24 (3)	36	48	60	72	100	110	125	155	174	200	220	230	240	250
Code	JD	ZD	BD	CD	ED	ND	SD	KD	FD	GD	PD	QD	LD	MD	MPD	MUD	UD

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

**Low consumption** (contactors LP4 K: 0.7\*130 Uc)

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

(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.



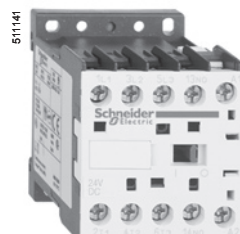
LC1 K09004●●



LC1 K09103●●



LC1 K09105●●



LC1 K09004●●

# 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.

Reversing contactor selection according to utilisation category, see pages 5/194 to 5/197 and 5/200 to 5/203.  
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  $\bar{U}$  rail or Ø 4 screw fixing. Screws in the open "ready-to-tighten" position.

Add-on auxiliary contact blocks and accessories, see pages 5/23 to 5/25.

## 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 440V up to	Instan- taneous auxiliary contacts per contactor	Basic reference, to be completed by adding the voltage code <sup>(1)</sup> <sup>(2)</sup>	Weight	
220 V 230 V	380 V 415 V	440/500 V 660/690 V					
kW	kW	kW	A			kg	
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)	12	1	—	LC2 K1210●●	0.390
		5.5 (440)		—	1	LC2 K1201●●	0.390
4	7.5	4 (> 440)	16	1	—	LC2 K1610●●	0.390
		5.5 (440)		—	1	LC2 K1601●●	0.390

## Spring terminal connections

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	—	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)	12	1	—	LC8 K1210●●	0.480
		5.5 (440)		—	1	LC8 K1201●●	0.480

## 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

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 5/24.

# 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 5/194 to 5/197 and 5/200 to 5/203.  
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 Ø 4 screw fixing.

Screws in the open "ready-to-tighten" position.

Add-on auxiliary contact blocks and accessories, see pages 5/23 to 5/25.

## 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 440V up to	Instan- taneous auxiliary contacts per contactor	Basic reference, to be completed by adding the voltage code (1) (2)	Weight
220 V	380 V	440/500 V				
230 V	415 V	660/690 V				
kW	kW	kW	A			kg
<b>Screw clamp connections</b>						
1.5	2.2	3	6	1 –	LP2 K0610●●	0.480
				– 1	LP2 K0601●●	0.480
2.2	4	4	9	1 –	LP2 K0910●●	0.480
				– 1	LP2 K0901●●	0.480
3	5.5	4 (> 440)	12	1 –	LP2 K1210●●	0.480
		5.5 (440)		– 1	LP2 K1201●●	0.480

## Spring terminal connections

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.

LED indicator incorporated (except models LP5-K●●●●FW3 and LP5-K●●●●GW3).

Wide range coil (0.7...1.30 Uc), suppressor fitted as standard, consumption 1.8 W.

<b>Screw clamp connections</b>						
1.5	2.2	3	6	1 –	LP5 K0610●●	0.490
				– 1	LP5 K0601●●	0.490
2.2	4	4	9	1 –	LP5 K0910●●	0.490
				– 1	LP5 K0901●●	0.490
3	5.5	4 (> 440)	12	1 –	LP5 K1210●●	0.490
		5.5 (440)		– 1	LP5 K1201●●	0.490

## 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 (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...1.30 Uc)

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

(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.

## TeSys contactors

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

**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 5/198 and 5/199.

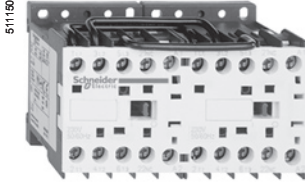
Integral mechanical interlock.

It is essential to link the contacts of the electrical interlock.

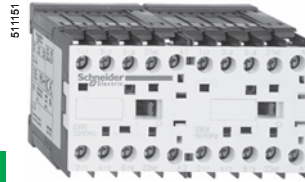
Mounting on 35 mm  $\bar{U}$  rail or Ø 4 screw fixing.

Screws in the open "ready-to-tighten" position.

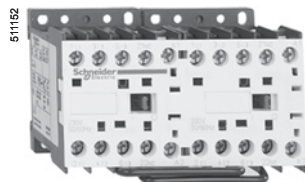
Add-on auxiliary contact blocks and accessories, see pages 5/23 to 5/25.



LC2 K0910●●





LC2 K09105●●



LC2 K09004●●

### 3 or 4-pole reversing contactors for standard applications (1)

Non-inductive loads Category AC-1 Maximum current at $\theta \leq 50\text{ }^{\circ}\text{C}$	Number of poles	Instantaneous auxiliary contacts per contactor	Basic reference, to be completed by adding the voltage code (2) (3)	Weight		
						
A				kg		
Screw clamp connections						
20	3	—	1	—	LC2 K0910●●	0.390
					or	LC2 K1210●●
	3	—	—	1	LC2 K0901●●	0.390
					or	LC2 K1201●●
	4	—	—	—	LC2 K09004●●	0.380
					or	LC2 K12004●●

### Spring terminal connections

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	—	LC8 K0910●●	0.480
				or	LC8 K1210●●	0.480
	3	—	—	1	LC8 K0901●●	0.480
				or	LC8 K1201●●	0.480
	4	—	—	—	LC8 K09004●●	0.470
				or	LC8 K12004●●	0.470

### 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 5/198.

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

### a.c. supply

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 5/24.



# 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 5/198 and 5/199.

Integral mechanical interlock.





**It is essential to link the contacts of the electrical interlock.**

Mounting on 35 mm  $\bar{U}$  rail or Ø 4 screw fixing.

Screws in the open "ready-to-tighten" position.

Add-on auxiliary contact blocks and accessories, see pages 5/23 to 5/25.

### 3 or 4-pole reversing contactors, d.c. supply (1)

Non-inductive loads Category AC-1 Maximum current at $\theta \leq 50\text{ }^{\circ}\text{C}$	Number of poles		Instantaneous auxiliary contacts per contactor		Basic reference, to be completed by adding the voltage code (2) (3)	Weight
						
A						kg
Screw clamp connections						
20	3	—	1	—	LP2 K0910●●	0.480
					or LP2 K1210●●	0.480
	3	—	—	1	LP2 K0901●●	0.480
					or LP2 K1201●●	0.480
	4	—	—	—	LP2 K09004●●	0.480
					or LP2 K12004●●	0.480

### Spring terminal connections

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.

LED indicator incorporated (except models LP5 K●●●●FW3 and LP5 K●●●●GW3).

Wide range coil (0.7...1.30  $U_c$ ), suppressor fitted as standard, consumption 1.8 W.

### Screw clamp connections

<b>20</b>	3	—	1	—	LP5 K0910●●●	0.490
					or LP5 K1210●●●	0.490
	3	—	—	1	LP5 K0901●●●	0.490
					or LP5 K1201●●●	0.490
	4	—	—	—	LP5 K09004●●●	0.490
					or LP5 K12004●●●	0.490

### 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 5/198.

(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 $U_c$ )

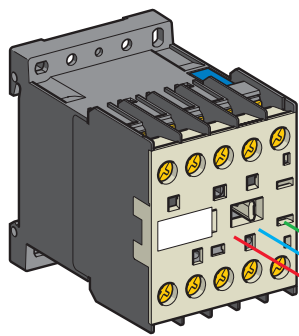
Volts $\bar{U}$	12	20	24 (3)	36	48	60	72	100	110	125	155	174	200	220	230	240	250
Code	JD	ZD	BD	CD	ED	ND	SD	KD	FD	GD	PD	QD	LD	MD	MPD	MUD	UD

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

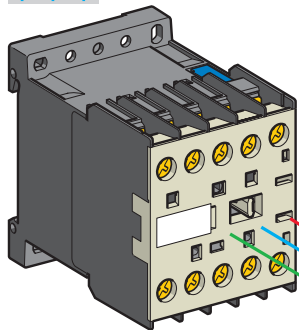
### Low consumption (reversing contactors LP5 K: 0.7...1.30 $U_c$ )

Volts $\bar{U}$	12	20	24	48	72	110	120
Code	JW3	ZW3	BW3	EW3	SW3	FW3	GW3

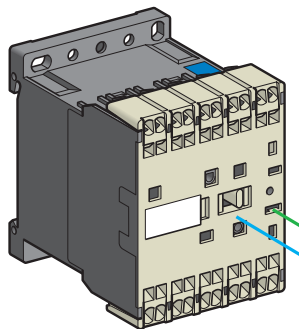
(3) For LP2 K only, when connecting an electronic sensor or timer in series with the contactor coil, select a 20 V coil ( $\sim$  control circuit voltage code Z7,  $\bar{U}$  control circuit voltage code ZD) so as to compensate for the incurred voltage drop.



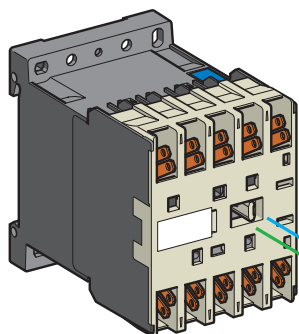
LC1, LC7, LP1 K



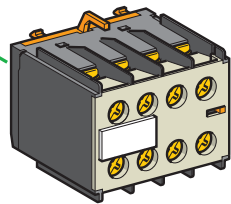
LC1, LC7, LP1 K



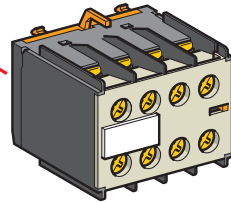
LC1, LP1 K



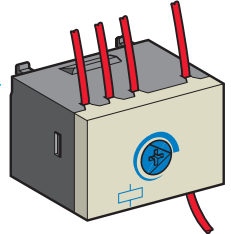
LC1, LC7, LP1 K



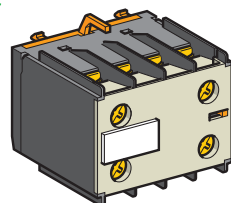
LA1 KN●●M



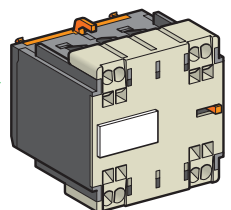
LA1 KN●●



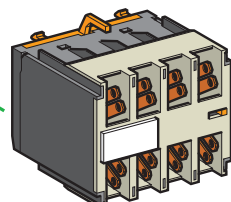
LA2 KT2●



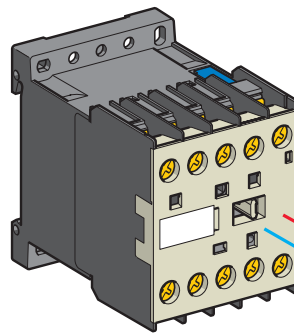
LA1 KN●●P



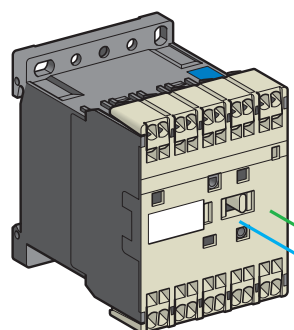
LA1 KN●●3



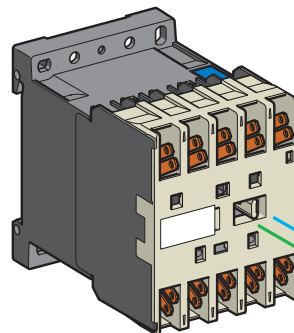
LA1 KN●●7



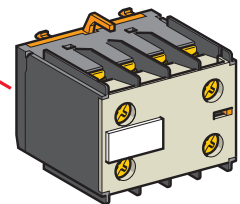
LP4



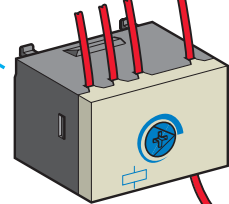
LP4



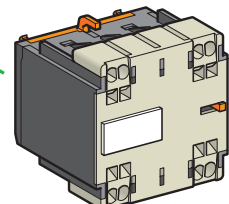
LP4



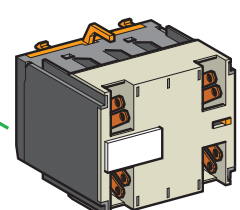
LA1 KN●●



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	Weight
					kg
<b>Screw clamp terminals</b>	All products with screw clamp terminals	2	–	LA1 KN20	0.045
		–	2	LA1 KN02	0.045
		1	1	LA1 KN11	0.045
	All products with screw clamp terminals except low consumption	4	–	LA1 KN40	0.045
		3	1	LA1 KN31	0.045
		2	2	LA1 KN22	0.045
		1	3	LA1 KN13	0.045
		–	4	LA1 KN04	0.045
	All products with spring terminals	2	–	LA1 KN203	0.045
		–	2	LA1 KN023	0.045
		1	1	LA1 KN113	0.045
		4	–	LA1 KN403	0.045
		3	1	LA1 KN313	0.045
		2	2	LA1 KN223	0.045
		1	3	LA1 KN133	0.045
<b>Faston connectors, 1 x 6.35 or 2 x 2.8</b>	All products with Faston connectors	2	–	LA1 KN207	0.045
		–	2	LA1 KN027	0.045
		1	1	LA1 KN117	0.045
	All products with Faston connectors except low consumption	4	–	LA1 KN407	0.045
		3	1	LA1 KN317	0.045
		2	2	LA1 KN227	0.045
		1	3	LA1 KN137	0.045
		–	4	LA1 KN047	0.045


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

<b>Screw clamp terminals with referencing conforming to standard EN 50012</b>	All 3-pole + N/O products with screw clamp terminals except LP4 and LP5 K12	–	2	LA1 KN02M	0.045
		1	1	LA1 KN11M	0.045
		3	1	LA1 KN31M	0.045
	All 3-pole + N/O products with screw clamp terminals except LP4 or LP5 K06, K09 and K12	2	2	LA1 KN22M	0.045
		1	3	LA1 KN13M	0.045
	All 4-pole products with screw clamp terminals except LP4 or LP5 K12	1	1	LA1 KN11P	0.045
	All 4-pole products with screw clamp terminals except LP4 or LP5 K09 and K12	2	2	LA1 KN22P	0.045

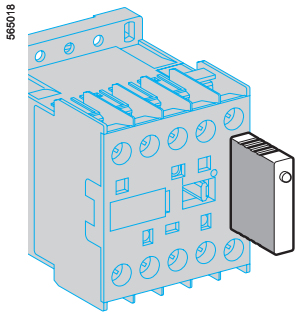
**Electronic time delay auxiliary contact blocks**

Relay output with common point changeover contact, ~ or ≡ 240 V, 2 A maximum.  
 Control voltage 0.85...1.1 U<sub>c</sub>.  
 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
					kg
V		s			
~ or ≡ 240...48	On-delay	1...30	1	LA2 KT2E	0.040
~ 110...240	On-delay	1...30	1	LA2 KT2U	0.040

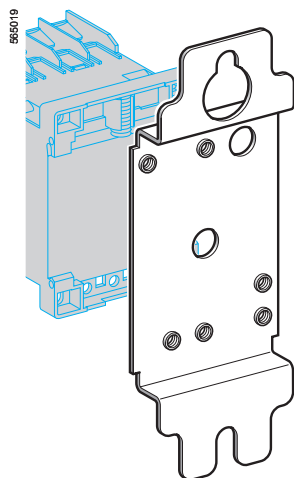




LA4 K●●●

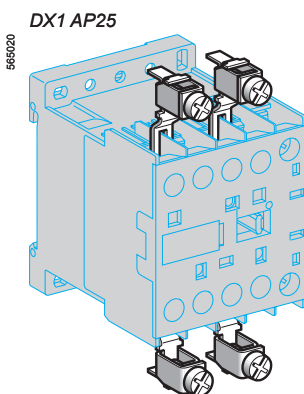
References					
Mounting and connection	Type	For voltages	Sold in lots of	Unit reference	Weight kg
Clip-on fixing on the front of contactors LC1 and LP1, with locating device. No tools required.	Varistor (1)	~ and --- 12...24 V	5	LA4 KE1B	0.010
		~ and --- 32...48 V	5	LA4 KE1E	0.010
		~ and --- 50...129 V	5	LA4 KE1FC	0.010
		~ and --- 130...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)	~ 110...250 V	5	LA4 KA1U	0.010

(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).



## 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	10	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 P● (2)	0.002
		Strips of 10 identical letters A...Z	25	AB1 G● (2)	0.002



## Connection accessories

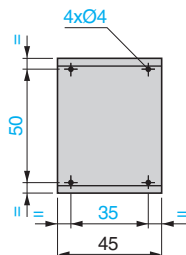
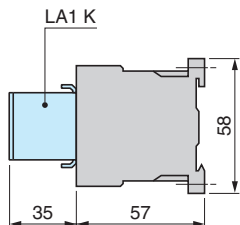
Description	Application		Sold in lots of	Unit preference	Weight kg
Paralleling links	For 2 poles	With screw clamps	4	LA9 E01	0.010
	For 4 poles	With screw clamps	2	LA9 E02	0.015
Set of 6 power connections	For 3-pole reversing contactors for motor control	For contactors with screw clamp terminals	100	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 dot with the required character.

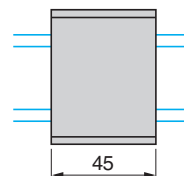
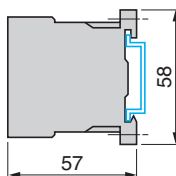
#### Contactors

##### LC1 K, LC7 K, LP1 K, LP4 K

On panel

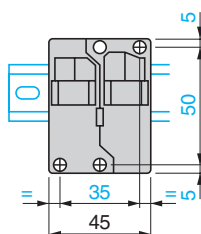
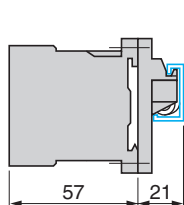


On mounting rail AM1 DP200 or AM1 DE200 (≥ 35 mm)

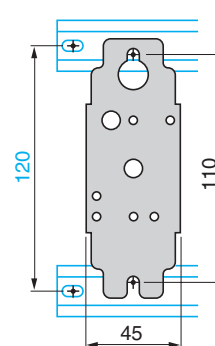
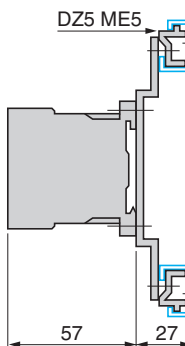


##### LA9 D973

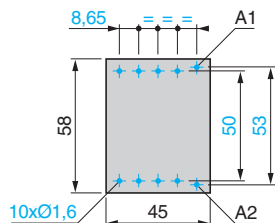
On one asymmetrical rail DZ5 MB with clip-on mounting plates



##### DX1 AP25



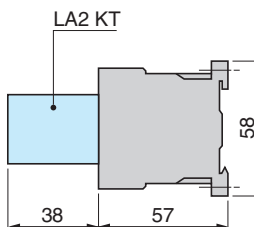
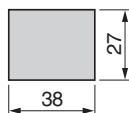
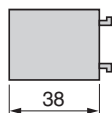
On printed circuit board



#### Electronic time delay contact blocks

##### LA2 KT

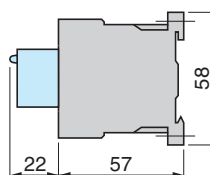
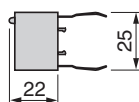
On contactor



#### Suppressor modules

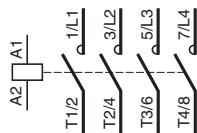
##### LA4 K●

On contactor LC1 K or LP1 K

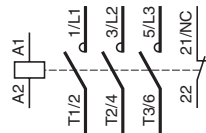


## 3-pole contactors

3 P + N/O

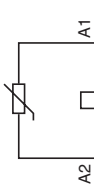


3 P + N/C

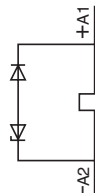


## With integral suppression device

LC7 K

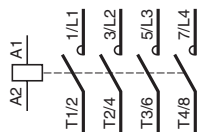


LP4 K

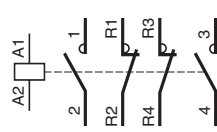


## 4-pole contactors

4 P

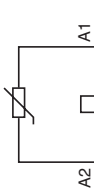


2 P N/O + 2 P N/C

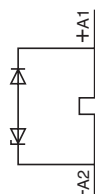


## With integral suppression device

LC7 K



LP4 K



## Instantaneous auxiliary contacts LA1 K

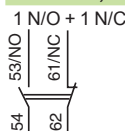
LA1 KN20, KN207, KN203



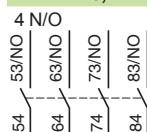
LA1 KN02, KN027, KN023



LA1 KN11, KN117, KN113



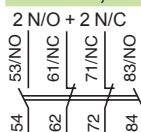
LA1 KN40, KN407, KN403



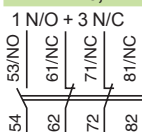
LA1 KN31, KN317, KN313



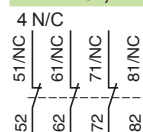
LA1 KN22, KN227, KN223



LA1 KN13, KN137, KN133

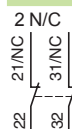


LA1 KN04, KN047, KN043

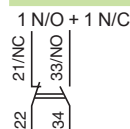


## Terminal referencing conforming to standard EN 50012

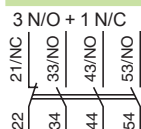
LA1 KN02M



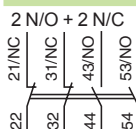
LA1 KN11M



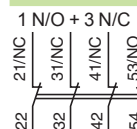
LA1 KN31M



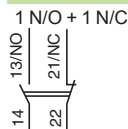
LA1 KN22M



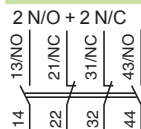
LA1 KN13M



LA1 KN11P



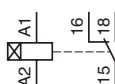
LA1 KN22P



## Electronic time delay contact blocks

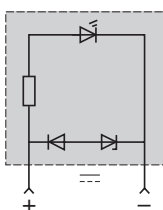
LA2 KT

1 C/O

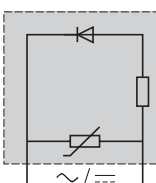


## Suppressor modules

LA4 KC



LA4 KE

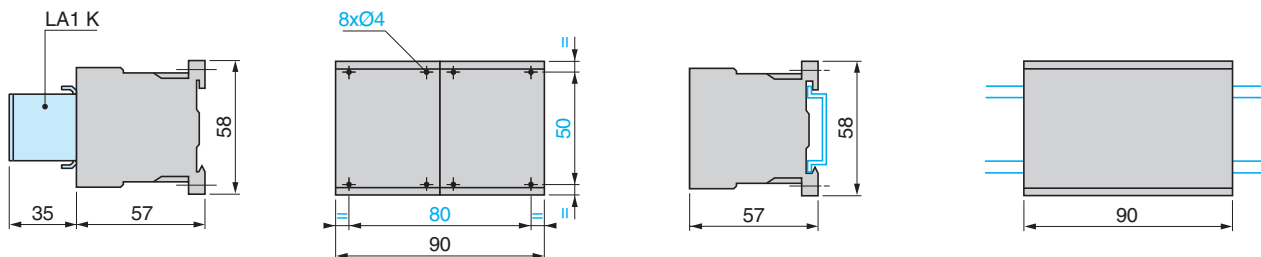


### Reversing contactors

LC2 K, LC8 K, LP2 K, LP5 K

On panel

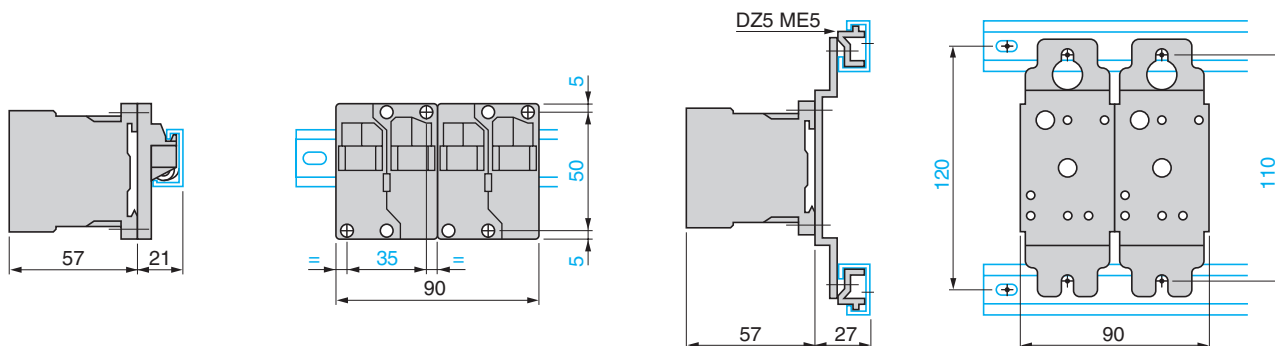
On mounting rail AM1 DP200 or AM1 DE200 (≥ 35 mm)



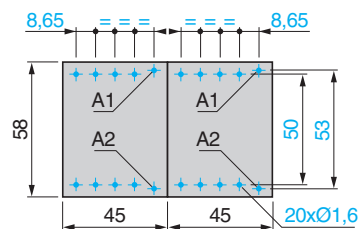
### 2 x LA9 D973

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

### 2 x DX1 AP25



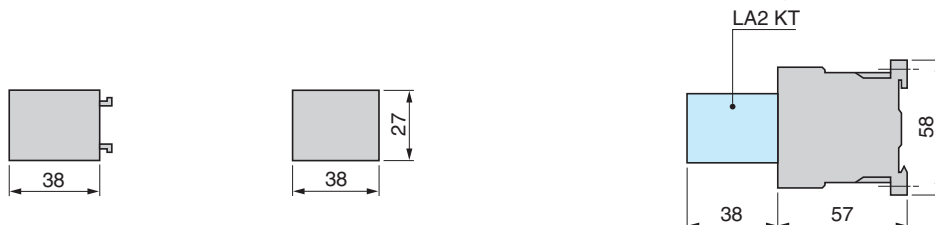
On printed circuit board for reversing contactors or 2 contactors mounted side by side



### Electronic time delay contact blocks

LA2 KT

On reversing contactors



### Suppressor modules

LA4 K●

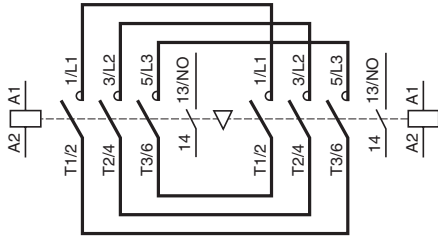
On reversing contactors LC2 K or LP2 K



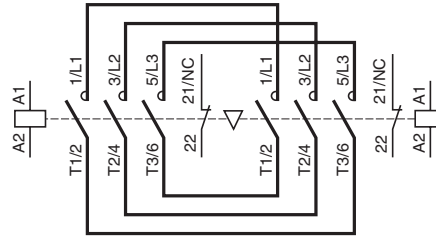
### 3-pole reversing contactors

#### With screw clamp connections

3 P + N/O



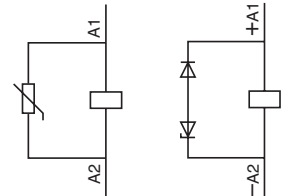
3 P + N/C



#### With integral suppression device

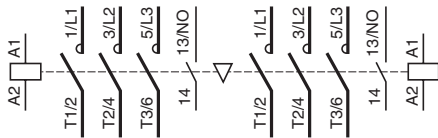
LC8 K

LP5 K

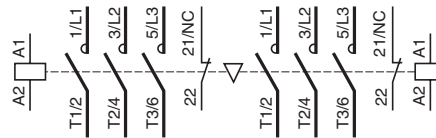


#### With Faston connectors or solder pins (printed circuit board)

3 P + N/O



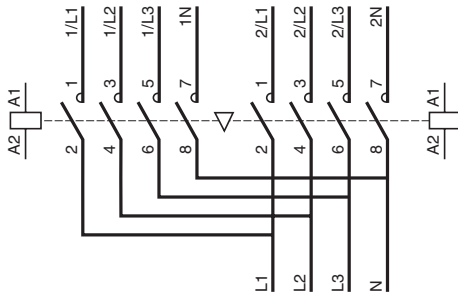
3 P + N/C



### 4-pole reversing contactors

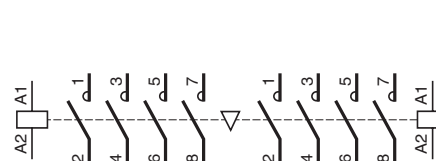
#### With screw clamp connections

4 P



#### With Faston connectors or solder pins (printed circuit board)

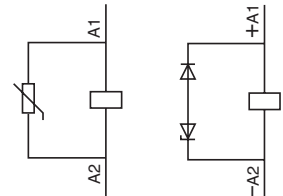
4 P



#### Integral suppression device

LC8 K

LP5 K



### Instantaneous auxiliary contacts LA1 K

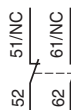
#### LA1 KN20, KN207, KN203

2 N/O



#### LA1 KN02, KN027, KN023

2 N/C



#### LA1 KN11, KN117, KN113

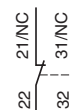
1 N/O + 1 N/C



#### Terminal referencing conforming to standard EN 50012

#### LA KN02M

2 N/C



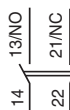
#### LA1 KN11M

1 N/O + 1 N/C



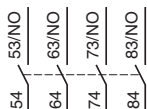
#### LA1 KN11P

1 N/O + 1 N/C



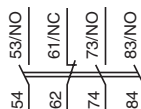
#### LA1 KN40, KN407, KN403

4 N/O



#### LA1 KN31, KN317, KN313

3 N/O + 1 N/C



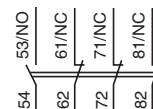
#### LA1 KN22, KN227, KN223

2 N/O + 2 N/C



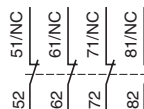
#### LA KN13, KN137, KN133

1 N/O + 3 N/C



#### LA1 KN04, KN047, KN043

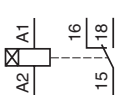
4 N/C



### Electronic time delay contact blocks

#### LA2 KT

1 C/O



### Suppressor modules

#### LA4 KC

#### LA4 KE

