

# 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●●

Contactor 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 5/22 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 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				
kW	kW	kW	A			kg	
<b>Screw clamp connections</b>							
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 (0.8...1.15 Uc) (0.85...1.1 Uc)

Volts	12	20	24 (2)	36	42	48	110	115	120	127	200/208	220/230	230	230/240
50/60 Hz	J7	Z7	B7	C7	D7	E7	F7	FE7	G7	FC7	L7	M7	P7	U7
Volts	256	277	380/400	400	400/415	440	480	500	575	600	660/690			
50/60 Hz	W7	UE7	Q7	–	V7	N7	R7	T7	S7	SC7	X7	Y7	–	–

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

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

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

(2) For mains supplies with a high level of interference (voltage surge > 800 V), use a suppressor module LA4 KE1FC (50...129 V) or LA4 KE1UG (130...250 V), see page 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 5/22 to 5/25

3-pole contactors, d.c. supply					Instantaneous auxiliary contacts	Basic reference, to be completed by adding the voltage code (1) (2)	Weight
Standard power ratings of 3-phase motors 50-60 Hz in category AC-3			Rated operational current in category AC-3	up to			
220 V	380 V	440/500 V	440 V	up to			kg
230 V	415 V	660/690 V					
kW	kW	kW	A				
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.



# TeSys contactors

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

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 5/22 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 $\theta \leq 50^\circ\text{C}$	Number of poles	Instantaneous auxiliary contacts	Basic reference, to be completed by adding the voltage code (2) (3)	Weight		
<b>A</b>				<b>kg</b>		
<b>Screw clamp connections</b>						
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.

# TeSys contactors

Contactors for control in category AC-1, 20 A  
Control circuit: d.c. or low consumption

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 5/22 to 5/25.



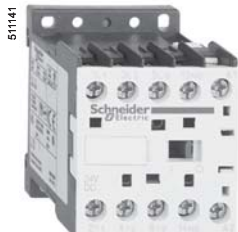
LC1 K09004●●



LC1 K09103●●



LC1 K09105●●



LC1 K09004●●

3 and 4-pole contactors, d.c. supply (1)						
Non-inductive loads Category AC-1 Maximum current at $\theta \leq 50^\circ\text{C}$	Number of poles		Instantaneous auxiliary contacts		Basic reference, to be completed by adding the voltage code (2) (3)	Weight
<b>A</b>						<b>kg</b>
<b>Screw clamp connections</b>						
20	3	–	1	–	LP1 K0910●● or LP1 K1210●●	0.225 0.225
	3	–	–	1	LP1 K0901●● or LP1 K1201●●	0.225 0.225
	4	–	–	–	LP1 K09004●● or LP1 K12004●●	0.225 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●●● or LP4 K1210●●●	0.235 0.235
	3	–	–	1	LP4 K0901●●● or LP4 K1201●●●	0.235 0.235
	4	–	–	–	LP4 K09004●●● or LP4 K12004●●●	0.235 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 5/198.  
(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.

