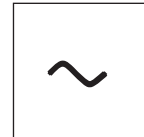


Mini contactors

K 3-pole contactors for motor control, 6 and 9 A
 Utilisation category AC-3
 Control circuit : a.c.



References

a.c. control contactors (1)

- Mounting on 35 mm rail or Ø 4 mm screw fixing.
- Screws in open "ready-to-tighten" position.

| Standard power ratings of 3-phase motors 50/60 Hz in category AC-3 | | | | Rated operational voltage in AC-3 up to | Type of connection | Instantaneous auxiliary contacts | Basic reference. Complete with code indicating control circuit voltage (2) | Weight | | |
|--|-------|-----------|-------|---|---------------------------------------|----------------------------------|--|--------------|--------------|-------|
| 220 V | 380 V | 440/500 V | 400 V | | | | | | | |
| kW | kW | kW | A | | | N/O | N/C | kg | | |
| 1.5 | 2.2 | 3 | 6 | 400 V | Screw clamp | 1 | - | LC1-K0610●● | 0.180 | |
| | | | | | | | - | 1 | LC1-K0601●● | 0.180 |
| | | | | | Faston | 1 | - | | LC1-K06107●● | 0.180 |
| | | | | | 1 x 6.35 | - | 1 | | LC1-K06017●● | 0.180 |
| | | | | | or 2 x 2.8 | | | | | |
| | | | | | Solder pins for printed circuit board | 1 | - | | LC1-K06105●● | 0.210 |
| | | | | | | - | 1 | LC1-K06015●● | 0.210 | |
| 2.2 | 4 | 4 | 9 | 400 V | Screw clamp | 1 | - | LC1-K0910●● | 0.180 | |
| | | | | | | | - | 1 | LC1-K0901●● | 0.180 |
| | | | | | Faston | 1 | - | | LC1-K09107●● | 0.180 |
| | | | | | 1 x 6.35 | - | 1 | | LC1-K09017●● | 0.180 |
| | | | | | or 2 x 2.8 | | | | | |
| | | | | | Solder pins for printed circuit board | 1 | - | | LC1-K09105●● | 0.210 |
| | | | | | | - | 1 | LC1-K09015●● | 0.210 | |



LC1-K0610●●

a.c. control contactors for use in sensitive environments (1)

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 mm screw fixing.
- Screws in the open "ready-to-tighten" position.

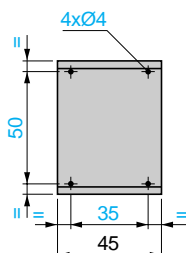
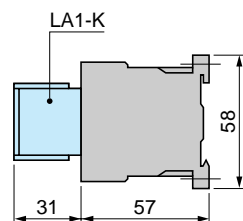
| | | | | | | | | | | |
|-----|-----|---|---|-------|---------------------------------------|---|---|--------------|--------------|-------|
| 1.5 | 2.2 | 3 | 6 | 400 V | Screw clamp | 1 | - | LC7-K0610●● | 0.225 | |
| | | | | | | | - | 1 | LC7-K0601●● | 0.225 |
| | | | | | Faston | 1 | - | | LC7-K06107●● | 0.225 |
| | | | | | 1 x 6.35 | - | 1 | | LC7-K06017●● | 0.225 |
| | | | | | or 2 x 2.8 | | | | | |
| | | | | | Solder pins for printed circuit board | 1 | - | | LC7-K06105●● | 0.255 |
| | | | | | | - | 1 | LC7-K06015●● | 0.255 | |
| 2.2 | 4 | 4 | 9 | 400 V | Screw clamp | 1 | - | LC7-K0910●● | 0.225 | |
| | | | | | | | - | 1 | LC7-K0901●● | 0.225 |
| | | | | | Faston | 1 | - | | LC7-K09107●● | 0.225 |
| | | | | | 1 x 6.35 | - | 1 | | LC7-K09017●● | 0.225 |
| | | | | | or 2 x 2.8 | | | | | |
| | | | | | Solder pins for printed circuit board | 1 | - | | LC7-K09105●● | 0.255 |
| | | | | | | - | 1 | LC7-K09015●● | 0.255 | |

(1) Add-on auxiliary contact blocks and accessories, see pages 1/8 to 1/11.

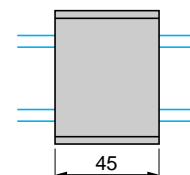
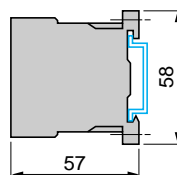
(2) Standard control circuit voltages, see page opposite.

Contactors

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

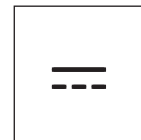


On mounting rail AM1-DP200 or AM1-DE200 (35 mm)



Mini contactors

K 3-pole contactors for motor control, 6 and 9 A
 Utilisation category AC-3
 Control circuit : d.c.



References

d.c. control contactors (1)

- Mounting on 35 mm rail or Ø 4 mm screw fixing.
- Screws in open "ready-to-tighten" position.



LP1-K0610●●

| Standard power ratings of 3-phase motors 50/60 Hz in category AC-3 | Rated operational voltage in AC-3 up to 400 V | Type of connection | Instantaneous auxiliary contacts | Basic reference. Complete with code indicating control circuit voltage (2) | Weight | |
|--|---|--------------------|----------------------------------|--|--------------|-------|
| 220 V 380 V 440/500 V 230 V 415 V 660/690 V | 400 V | | | | | |
| kW | kW | kW | A | | kg | |
| 1.5 | 2.2 | 3 | 6 | N/O N/C | | |
| Screw clamp | | | | | | |
| | | | | 1 - | LP1-K0610●● | 0.225 |
| | | | | - 1 | LP1-K0601●● | 0.225 |
| Faston | | | | | | |
| | | | | 1 - | LP1-K06107●● | 0.225 |
| | | | | - 1 | LP1-K06017●● | 0.225 |
| or 2 x 2.8 | | | | | | |
| Solder pins for printed circuit board | | | | | | |
| | | | | 1 - | LP1-K06105●● | 0.255 |
| | | | | - 1 | LP1-K06015●● | 0.255 |
| 2.2 4 4 9 | | | | | | |
| Screw clamp | | | | | | |
| | | | | 1 - | LP1-K0910●● | 0.225 |
| | | | | - 1 | LP1-K0901●● | 0.225 |
| Faston | | | | | | |
| | | | | 1 - | LP1-K09107●● | 0.225 |
| | | | | - 1 | LP1-K09017●● | 0.225 |
| or 2 x 2.8 | | | | | | |
| Solder pins for printed circuit board | | | | | | |
| | | | | 1 - | LP1-K09105●● | 0.255 |
| | | | | - 1 | LP1-K09015●● | 0.255 |

(1) Add-on auxiliary contact blocks and accessories, see pages 1/8 to 1/11.

(2) Standard control circuit voltages (for other voltages, please consult your Regional customer centre).

Contactors LC1-K (0.8...1.15 Uc) (0.85...1.1 Uc)

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

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

Volts ~ 400/440 500 575 600 660/

50/60 Hz 415

Code N7 R7 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 48 110 220 230/
 50/60 Hz 240

Code B7 D7 E7 F7 M7 U7

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

Volts ~ 12 20 24 36 48 60 72 100 110 125 155 174 200 220 230 240 250

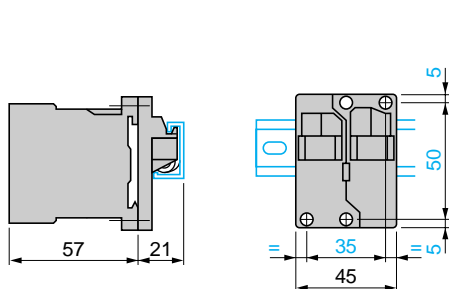
Code JD ZD BD CD ED ND SD KD FD GD PD QD LD MD MPDMUD UD

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

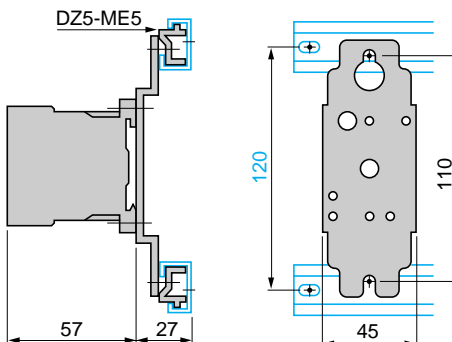
Contactors

LC1-K, LC7-K, LP1-K

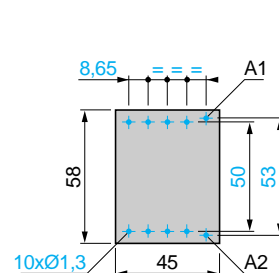
On one asymmetrical rail DZ5-MB with clip-on mounting plate
 LA9-D973



DX1-AP25



On printed circuit board



Mini contactors

K 3 and 4-pole contactors for heating, lighting, etc., 20 A
Utilisation category AC-1
Control circuit : a.c. and d.c.



Dimensions :
pages 1/2 and 1/3

References

a.c. control contactors (1)

- Mounting on 35 mm rail or Ø 4 mm screws.
- Screws in open "ready-to-tighten" position.

| 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 (2) | Weight |
|---|---|-----------------|----------------------------------|--|--------|
| | | | | | |
| A | | | N/O N/C | | kg |
| 20 | Screw clamp | 3 – | 1 – | LC1-K0910●● | 0.225 |
| | | 3 – | – 1 | LC1-K0901●● | 0.225 |
| | | 4 – | – – | LC1-K09004●● | 0.180 |
| | | 2 2 | – – | LC1-K09008●● | 0.180 |
| | Faston 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 board | 3 – | 1 – | LC1-K09105●● | 0.255 |
| | | 3 – | – 1 | LC1-K09015●● | 0.255 |
| | | 4 – | – – | LC1-K090045●● | 0.210 |
| | | 2 2 | – – | LC1-K090085●● | 0.212 |



LC1-K09004●●

a.c. control contactors for use in sensitive environments (1)

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 mm screw fixing.
- Screws in open "ready-to-tighten" position.

| | | | | | |
|-----------|---|-----|-----|----------------------|-------|
| 20 | Screw clamp | 3 – | 1 – | LC7-K0910●● | 0.225 |
| | | 3 – | – 1 | LC7-K0901●● | 0.225 |
| | | 4 – | – – | LC7-K09004●● | 0.225 |
| | | 2 2 | – – | LC7-K09008●● | 0.225 |
| | Faston 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 board | 3 – | 1 – | LC7-K09105●● | 0.255 |
| | | 3 – | – 1 | LC7-K09015●● | 0.255 |
| | | 4 – | – – | LC7-K090045●● | 0.255 |
| | | 2 2 | – – | LC7-K090085●● | 0.255 |

d.c. control contactors (1)

| | | | | | |
|-----------|---|-----|-----|----------------------|-------|
| 20 | Screw clamp | 3 – | 1 – | LP1-K0910●● | 0.225 |
| | | 3 – | – 1 | LP1-K0901●● | 0.225 |
| | | 4 – | – – | LP1-K09004●● | 0.225 |
| | | 2 2 | – – | LP1-K09008●● | 0.225 |
| | Faston 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 board | 3 – | 1 – | LP1-K09105●● | 0.255 |
| | | 3 – | – 1 | LP1-K09015●● | 0.255 |
| | | 4 – | – – | LP1-K090045●● | 0.255 |
| | | 2 2 | – – | LP1-K090085●● | 0.255 |

(1) Add-on auxiliary contact blocks and accessories, see pages 1/8 to 1/11.

(2) Standard control circuit voltages, see page 1/3.

Mini contactors

K 3-pole reversing contactors for motor control, 6 and 9 A
 Utilisation category AC-3
 Control circuit : a.c. and d.c.



Dimensions :
 page 1/6

References

a.c. control reversing contactors (1)

- Integral mechanical interlock.
- Pre-wired power circuit connections as standard on screw clamp versions.
- Mounting on 35 mm rail or Ø 4 mm screw fixing.
- Screws in open "ready-to-tighten" position.

| Standard power ratings of 3-phase motors 50/60 Hz in category AC-3 | | | | Rated operational current in AC-3 up to 400 V | Type of connection | Instantaneous auxiliary contacts | Basic reference. Complete with code indicating control circuit voltage (2) | Weight | |
|--|-------|-----------|-------|---|---------------------------------------|----------------------------------|--|--------------|-------|
| 220 V | 380 V | 440/500 V | 230 V | | | | | | 415 V |
| kW | kW | kW | A | | | N/O | N/C | kg | |
| 1.5 | 2.2 | 3 | 6 | Screw clamp | 1 | – | LC2-K0610●● | 0.390 | |
| | | | | | – | 1 | LC2-K0601●● | 0.390 | |
| | | | | | Faston | 1 | – | LC2-K06107●● | 0.370 |
| | | | | | 1 x 6.35 | – | 1 | LC2-K06017●● | 0.370 |
| | | | | | or 2 x 2.8 | | | | |
| | | | | | Solder pins for printed circuit board | 1 | – | LC2-K06105●● | 0.430 |
| | | | | | – | 1 | LC2-K06015●● | 0.430 | |
| 2.2 | 4 | 4 | 9 | Screw clamp | 1 | – | LC2-K0910●● | 0.390 | |
| | | | | | – | 1 | LC2-K0901●● | 0.390 | |
| | | | | | Faston | 1 | – | LC2-K09107●● | 0.370 |
| | | | | | 1 x 6.35 | – | 1 | LC2-K09017●● | 0.370 |
| | | | | | or 2 x 2.8 | | | | |
| | | | | | Solder pins for printed circuit board | 1 | – | LC2-K09105●● | 0.430 |
| | | | | | – | 1 | LC2-K09015●● | 0.430 | |



LC2-K0610●●

a.c. control reversing contactors for use in sensitive environments (1)

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

- Coil with rectifier incorporated, suppressor fitted as standard.
- Integral mechanical interlock.
- Pre-wired power circuit connections as standard on screw clamp versions.
- Mounting on 35 mm rail or Ø 4 mm screw fixing.
- Screws in open "ready-to-tighten" position.

| | | | | | | | | | |
|-----|-----|---|---|-------------|---------------------------------------|---|--------------|--------------|-------|
| 1.5 | 2.2 | 3 | 6 | Screw clamp | 1 | – | LC8-K0610●● | 0.480 | |
| | | | | | – | 1 | LC8-K0601●● | 0.480 | |
| | | | | | Faston | 1 | – | LC8-K06107●● | 0.460 |
| | | | | | 1 x 6.35 | – | 1 | LC8-K06017●● | 0.460 |
| | | | | | or 2 x 2.8 | | | | |
| | | | | | Solder pins for printed circuit board | 1 | – | LC8-K06105●● | 0.520 |
| | | | | | – | 1 | LC8-K06015●● | 0.520 | |
| 2.2 | 4 | 4 | 9 | Screw clamp | 1 | – | LC8-K0910●● | 0.480 | |
| | | | | | – | 1 | LC8-K0901●● | 0.480 | |
| | | | | | Faston | 1 | – | LC8-K09107●● | 0.460 |
| | | | | | 1 x 6.35 | – | 1 | LC8-K09017●● | 0.460 |
| | | | | | or 2 x 2.8 | | | | |
| | | | | | Solder pins for printed circuit board | 1 | – | LC8-K09105●● | 0.520 |
| | | | | | – | 1 | LC8-K09015●● | 0.520 | |

d.c. control reversing contactors (1)

| | | | | | | | | | |
|-----|-----|---|---|-------------|---------------------------------------|---|--------------|--------------|-------|
| 1.5 | 2.2 | 3 | 6 | Screw clamp | 1 | – | LP2-K0610●● | 0.480 | |
| | | | | | – | 1 | LP2-K0601●● | 0.480 | |
| | | | | | Faston | 1 | – | LP2-K06107●● | 0.460 |
| | | | | | 1 x 6.35 | – | 1 | LP2-K06017●● | 0.460 |
| | | | | | or 2 x 2.8 | | | | |
| | | | | | Solder pins for printed circuit board | 1 | – | LP2-K06105●● | 0.520 |
| | | | | | – | 1 | LP2-K06015●● | 0.520 | |
| 2.2 | 4 | 4 | 9 | Screw clamp | 1 | – | LP2-K0910●● | 0.480 | |
| | | | | | – | 1 | LP2-K0901●● | 0.480 | |
| | | | | | Faston | 1 | – | LP2-K09107●● | 0.460 |
| | | | | | 1 x 6.35 | – | 1 | LP2-K09017●● | 0.460 |
| | | | | | or 2 x 2.8 | | | | |
| | | | | | Solder pins for printed circuit board | 1 | – | LP2-K09105●● | 0.520 |
| | | | | | – | 1 | LP2-K09015●● | 0.520 | |

(1) Auxiliary contact blocks and accessories, see pages 1/8 to 1/11.

(2) Control circuit voltage codes, see page 1/7.

Mini contactors

K 3 and 4-pole changeover contactors for heating, lighting, etc., 20 A
Utilisation category AC-1
Control circuit : a.c.



References

a.c. control reversing contactors (1)

- Integral mechanical interlock.
- Mounting on 35 mm rail or Ø 4 mm screw fixing.
- Screws in open "ready-to-tighten" position.

| 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 (2) | Weight |
|--|---|-----------------|----------------------------------|--|--------|
| | | | | | |
| A | | | N/O N/C | | kg |
| 20 | Screw clamp | 3 - | 1 - | LC2-K0910●● (3) | 0.390 |
| | | 3 - | - 1 | LC2-K0901●● (3) | 0.390 |
| | | 4 - | - - | LC2-K09004●● | 0.380 |
| | Faston 1 x 6.35 or 2 x 2.8 | 3 - | 1 - | LC2-K09107●● | 0.370 |
| | | 3 - | - 1 | LC2-K09017●● | 0.370 |
| | | 4 - | - - | LC2-K090047●● | 0.370 |
| | Solder pins for printed circuit board | 3 - | 1 - | LC2-K09105●● | 0.430 |
| | | 3 - | - 1 | LC2-K09015●● | 0.430 |
| | | 4 - | - - | LC2-K090045●● | 0.430 |



LC2-K0910●●

a.c. control reversing contactors for use in sensitive environments (1)

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

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

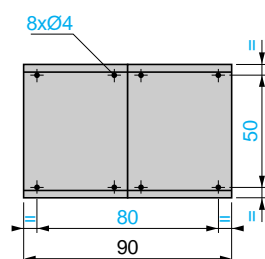
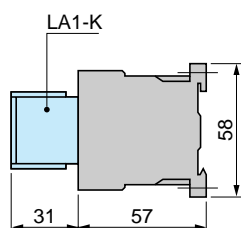
| | | | | | |
|-----------|---|-----|-----|------------------------|-------|
| 20 | Screw clamp | 3 - | 1 - | LC8-K0910●● (3) | 0.480 |
| | | 3 - | - 1 | LC8-K0901●● (3) | 0.480 |
| | | 4 - | - - | LC8-K09004●● | 0.470 |
| | Faston 1 x 6.35 or 2 x 2.8 | 3 - | 1 - | LC8-K09107●● | 0.460 |
| | | 3 - | - 1 | LC8-K09017●● | 0.460 |
| | | 4 - | - - | LC8-K090047●● | 0.460 |
| | Solder pins for printed circuit board | 3 - | 1 - | LC8-K09105●● | 0.520 |
| | | 3 - | - 1 | LC8-K09015●● | 0.520 |
| | | 4 - | - - | LC8-K090045●● | 0.520 |

(1) Add-on auxiliary contact blocks and accessories, see pages 1/8 to 1/11.

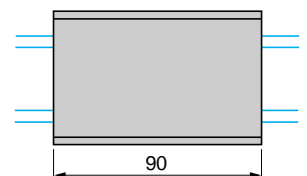
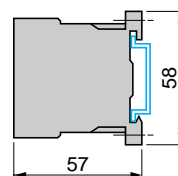
(2) Control circuit voltage codes, see page opposite.

(3) **Warning: this reversing contactor is pre-wired for reverse motor operation as standard.**

Reversing contactors LC2-K, LC8-K, LP2-K On panel



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



Mini contactors

K 3 and 4-pole changeover contactors for heating, lighting, etc., 20 A
Utilisation category AC-1
Control circuit : d.c.



References

d.c. control reversing contactors (1)

- Integral mechanical interlock.
- Mounting on 35 mm rail or Ø 4 mm screw fixing.
- Screws in open "ready-to-tighten" position.



LP2-K0910●●

| 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 (2) | Weight |
|---|---|-----------------|----------------------------------|--|--------|
| | | | | | |
| A | | | N/O N/C | | kg |
| 20 | Screw clamp | 3 - | 1 - | LP2-K0910●● (3) | 0.480 |
| | | 3 - | - 1 | LP2-K09001●● (3) | 0.480 |
| | | 4 - | - - | LP2-K09004●● | 0.480 |
| | Faston 1 x 6.35 or 2 x 2.8 | 3 - | 1 - | LP2-K09107●● | 0.460 |
| | | 3 - | - 1 | LP2-K09017●● | 0.460 |
| | Solder pins for printed circuit board | 4 - | - - | LP2-K090047●● | 0.460 |
| | | 3 - | 1 - | LP2-K09105●● | 0.520 |
| | | 3 - | - 1 | LP2-K09015●● | 0.520 |
| | | 4 - | - - | LP2-K090045●● | 0.520 |

(1) Add-on auxiliary contact blocks and accessories, see pages 1/8 to 1/11.

(2) Standard control circuit voltages (for other voltages, please consult your Regional customer centre).

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

| Volts ~ | 12 | 20 | 24 | 36 | 42 | 48 | 110 | 120 | 127 | 200/ | 220/ | 230 | 230/ | 256 | 277 | 380/ | 400 |
|----------|---------|----|-----|-----|-----|------|-----|-----|-----|------|------|-----|------|-----|-----|------|-----|
| 50/60 Hz | | | | | | | | | | 208 | 230 | | 240 | | | 400 | |
| Code | J7 | Z7 | B7 | C7 | D7 | E7 | F7 | G7 | FC7 | L7 | M7 | P7 | U7 | W7 | UE7 | Q7 | V7 |
| Volts ~ | 400/440 | | 500 | 575 | 600 | 660/ | | | | | | | | | | | |
| 50/60 Hz | 415 | | | | 690 | | | | | | | | | | | | |
| Code | N7 | | R7 | 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 (0.85...1.1 Uc)

| Volts ~ | 24 | 42 | 48 | 110 | 220 | 230/ |
|----------|----|----|----|-----|-----|------|
| 50/60 Hz | | | | | | 240 |
| Code | B7 | D7 | E7 | F7 | M7 | U7 |

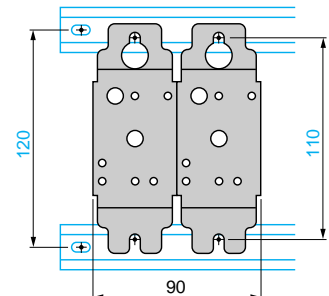
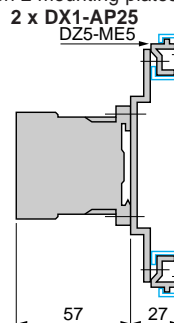
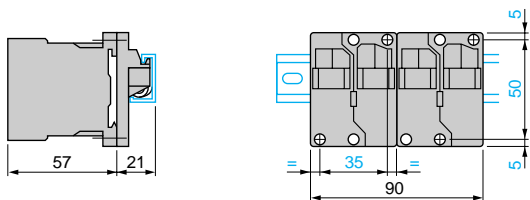
Reversing contactors LP2-K (0.8...1.15 Uc)

| 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 |

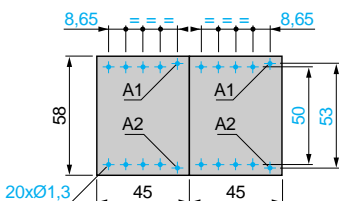
Coil with integral suppression device available : add 3 to the code required. Example : JD3

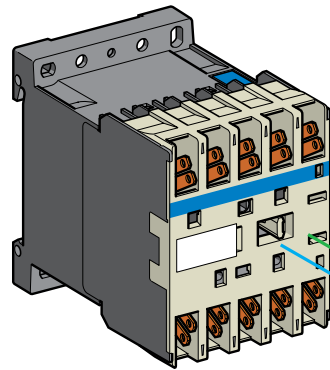
(3) Warning: this reversing contactor is pre-wired for reverse motor operation as standard.

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

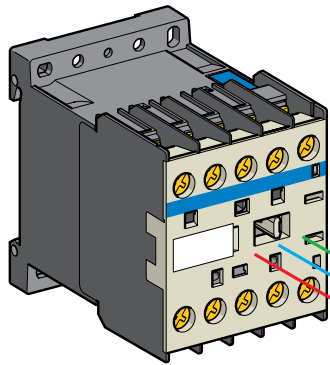


On printed circuit board for reversing contactors or 2 contactors mounted side by side

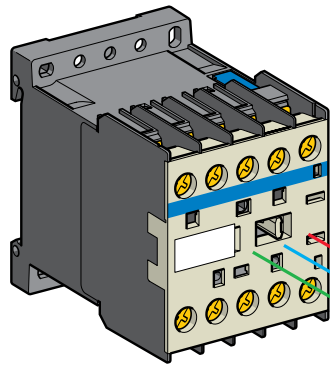




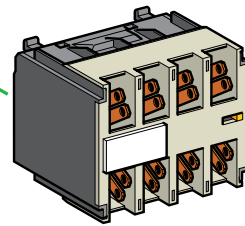
LC1,LC7,LP1-K06 ,K09



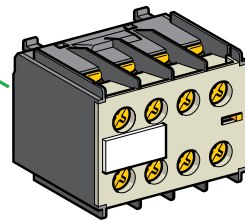
LC1,LC7,LP1-K06 ,K09



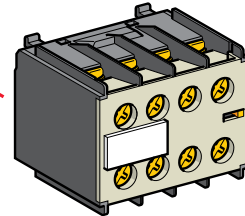
LC1,LC7,LP1-K09



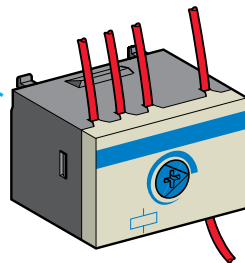
LA1-KN...●●



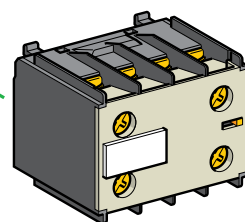
LA1-KN...●M



LA1-KN...●●



LA2-KT2...●



LA1-KN...●●P

Mini contactors

K 3 and 4-pole contactors, reversing and changeover contactors
Instantaneous and time delay auxiliary contacts

References

Illustrations :
page 1/8





LA1-KN40●●

Instantaneous auxiliary contact blocks

Recommended for standard applications

Clip-on front mounting, 1 block per contactor

| Type of connection | Type of contactor | Composition | Reference | Weight |
|----------------------------------|------------------------------|---|--------------|--------|
| | |   | | kg |
| | | N/O N/C | | |
| Screw clamp | LC1, LC7, LP1 3 or 4-pole | 2 - | LA1-KN20 | 0.045 |
| | | - 2 | LA1-KN02 (1) | 0.045 |
| | | 1 1 | LA1-KN11 (2) | 0.045 |
| | | 4 - | LA1-KN40 | 0.045 |
| | | 3 1 | LA1-KN31 | 0.045 |
| | | 2 2 | LA1-KN22 | 0.045 |
| | | 1 3 | LA1-KN13 (3) | 0.045 |
| | | - 4 | LA1-KN04 (4) | 0.045 |
| Faston 1 x 6.35 or 2 x 2.8 | LC1, LC7, LP1 3 or 4-pole | 2 - | LA1-KN207 | 0.045 |
| | | - 2 | LA1-KN027 | 0.045 |
| | | 1 1 | LA1-KN117 | 0.045 |
| | | 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 conforming to standard EN 50012

Clip-on front mounting, 1 block per contactor

| Type of connection | Type of contactor | Composition | Reference | Weight |
|--------------------------------|--------------------------------------|-------------|-----------|--------|
| Screw clamp | LC1, LC7, LP1 3-pole 6 and 9 A | - 2 | LA1-KN02M | 0.045 |
| | | 1 1 | LA1-KN11M | 0.045 |
| | | 3 1 | LA1-KN31M | 0.045 |
| | | 2 2 | LA1-KN22M | 0.045 |
| | | 1 3 | LA1-KN13M | 0.045 |
| LC1, LC7, LP1 4-pole 9 A | LC1, LC7, LP1 4-pole 9 A | 1 1 | LA1-KN11P | 0.045 |
| | | 2 2 | LA1-KN22P | 0.045 |

(1) Cannot be used on contactors : LP4/LP5-K●●01, LP4/LP5-K09008.

(2) Cannot be used on contactors : LP4/LP5-K09008.


(3) Cannot be used on contactors : LC7/LC8/LP1/LP2-K09008.

(4) Cannot be used on contactors : LC7/LC8/LP1/LP2-K●●01, LC7/LC8/LP1/LP2-K09008.

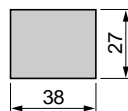
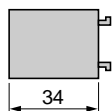
Electronic time delay auxiliary contact blocks

- Relay output, with common point changeover contact, 2 A maximum.
- Control voltage : \sim or \equiv 24...48 V, \sim 110...240 V, 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.

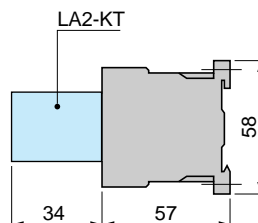
Clip-on front mounting, 1 block per contactor

| Voltage | Type | Timing range | Composition | Reference | Weight |
|----------------------------|----------|--------------|---|-----------|--------|
| | | |  | | kg |
| | | s | C/O | | |
| \sim or \equiv 24...48 | On-delay | 1...30 | 1 | LA2-KT2E | 0.040 |
| \sim 110...240 | On-delay | 1...30 | 1 | LA2-KT2U | 0.040 |

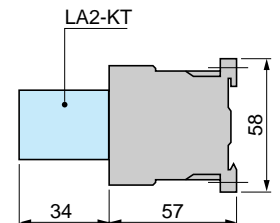
Electronic time delay contact blocks LA2-KT



On contactors



On reversing contactors

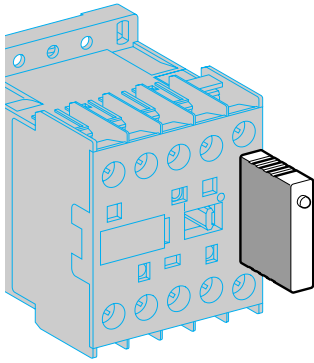


Mini contactors

K 3 and 4-pole contactors, reversing and changeover contactors
Suppressor modules incorporating LED indicator

References

1



LA4-K●●●

| Mounting and connection | Type | For voltages: | Sold in lots of | Unit reference | Weight kg |
|--|--------------|--------------------------|-----------------|----------------|-----------|
| Clip-on fixing on the front of contactors LC1, LC2, LP1 and LP2 | 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) | | ~ 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).

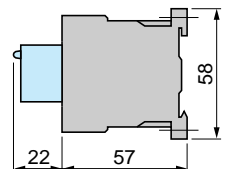
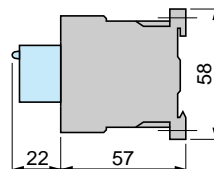
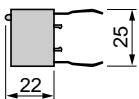
(3) Protection by limitation of the transient voltage up to 3 Uc maximum and limitation of the oscillation frequency.

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

Suppressor modules LA4-K●

On contactors

On reversing contactors



Mini contactors

K 3 and 4-pole contactors, reversing and changeover contactors
Accessories

References

Dimensions :
pages 1/3 and 1/7

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 |

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.

Mini thermal overload relays

K thermal overload relays, adjustable from 0.11 to 11.5 A, for motor protection; compensated and phase failure sensitive, manual or automatic reset

References

3-pole relays with screw clamp terminals

Direct mounting : under the contactor for versions with screw clamp terminals only; pre-wired terminals, see below.

Separate mounting : using terminal block LA7-K0064 (see below).

On the front of the overload relay :

- selection of reset mode : Manual (marked H) or Automatic (marked A),
- red pushbutton : Trip Test function,
- red pushbutton : Trip reset,
- blue pushbutton : Stop and manual Reset,
- yellow trip flag indicator : overload relay tripped.

Protection by fuses or by magnetic circuit-breaker type GV2-L, see page 1/92.



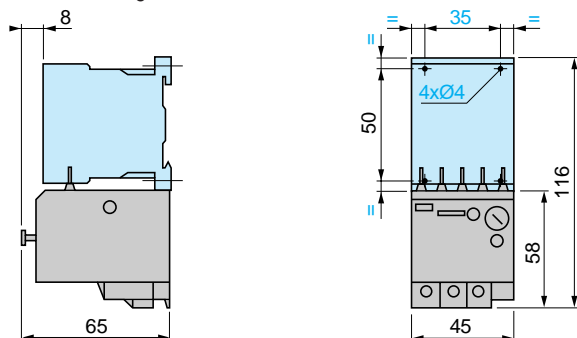
LR2-K030

| Relay setting range | Fuses to be used with selected relay | | Reference | Weight kg |
|---------------------|--------------------------------------|-----------|-----------|--------------|
| | Maximum rating Type | | | |
| | aM | gG (BS88) | | |
| A | A | A | | |

Class 10 A (the standard specifies a tripping time of between 2 and 10 seconds at 7.2 In)

| | | | | |
|-------------|------|----|---------------------------|-------|
| 0.11...0.16 | 0.25 | 2 | LR2-K0301 | 0.145 |
| 0.16...0.23 | 0.25 | 2 | LR2-K0302 | 0.145 |
| 0.23...0.36 | 0.5 | 2 | LR2-K0303 | 0.145 |
| 0.36...0.54 | 1 | 4 | LR2-K0304 | 0.145 |
| 0.54...0.8 | 1 | 4 | LR2-K0305 | 0.145 |
| 0.8...1.2 | 2 | 6 | LR2-K0306 | 0.145 |
| 1.2...1.8 | 2 | 6 | LR2-K0307 | 0.145 |
| 1.8...2.6 | 4 | 10 | LR2-K0308 | 0.145 |
| 2.6...3.7 | 4 | 16 | LR2-K0310 | 0.145 |
| 3.7...5.5 | 6 | 16 | LR2-K0312 | 0.145 |
| 5.5...8 | 8 | 20 | LR2-K0314 | 0.145 |
| 8...11.5 | 10 | 20 | LR2-K0316 | 0.145 |

LR2-K
Direct mounting under the contactor



Mini thermal overload relays

K thermal overload relays, adjustable from 0.11 to 11.5 A, for motor protection; compensated and phase failure sensitive, manual or automatic reset

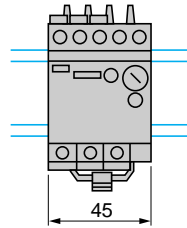
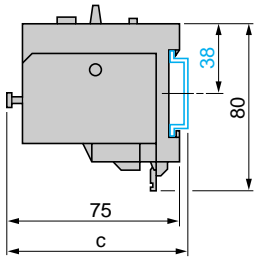
References

Accessories for thermal overload relays

| Description | Type of connection | Reference | Weight kg |
|--|--------------------|------------------|--------------|
| Terminal block for separate clip-on mounting of the overload relay on 35 mm rail | Screw clamp | LA7-K0064 | 0.100 |
| | | | |
| | | | |

1

Separate mounting with terminal block **LA7-K0064**
on 35 mm rail
(AM1-DP200 or AM1-DE200)



| | |
|--------------|------|
| AM1- | C |
| DP200 | 78.5 |
| DE200 | 86 |

Mini contactors

K 3 and 4-pole low consumption contactors
for motor control (AC-3) and heating and lighting, etc. (AC-1)
Control circuit : d.c.



References

d.c. control contactors (1)

- Compatible with programmable controller outputs.
- LED indicator incorporated.
- Wide range coil (0.7...1.30 Uc), suppressor fitted as standard, consumption 1.5 W.
- Mounting on 35 mm rail or Ø 4 mm screw fixing.
- Screws in open "ready-to-tighten" position.



LP4-K0610

| Motor control in category AC-3 | Type of connection | Instantaneous auxiliary contacts | Basic reference. Complete with code indicating control circuit voltage (2) | Weight |
|-----------------------------------|--|----------------------------------|--|--------|
| Maximum operational current 440 V | Standard power ratings of 3-phase motors 220 V 380 V 440/500 V 230 V 415 V 660/690 V | | | |

| A | kW | kW | kW | | N/O | N/C | | kg |
|---|-----|---------------|-------|-------------|-----|-----|---------------|-------|
| 6 | 1.5 | 2.2 | 3 | Screw clamp | 1 | – | LP4-K0610●●● | 0.235 |
| | | | | | – | 1 | LP4-K0601●●● | 0.235 |
| | | | | | 1 | – | LP4-K06107●●● | 0.235 |
| | | | | | – | 1 | LP4-K06017●●● | 0.235 |
| | | | | | 1 | – | LP4-K06105●●● | 0.265 |
| 9 | 2.2 | 4 | 4 | Screw clamp | 1 | – | LP4-K0910●●● | 0.235 |
| | | | | | – | 1 | LP4-K0901●●● | 0.235 |
| | | | | | 1 | – | LP4-K09107●●● | 0.235 |
| | | | | | – | 1 | LP4-K09017●●● | 0.235 |
| | | | | | 1 | – | LP4-K09105●●● | 0.265 |
| – | 1 | LP4-K09015●●● | 0.265 | | | | | |

| Non inductive loads Cat. AC-1 $\theta \leq 50^\circ\text{C}$ Maximum current | Type of connection | Number of poles | Instantaneous auxiliary contacts | Basic reference. Complete with code indicating control circuit voltage (2) | Weight |
|---|--------------------|-----------------|----------------------------------|--|--------|
| | | | | | |

| A | | | | N/O | N/C | | kg |
|----|---------------------------------------|---|---|-----|-----|----------------|-------|
| 20 | Screw clamp | 3 | – | 1 | – | LP4-K0910●●● | 0.235 |
| | | 3 | – | – | 1 | LP4-K0901●●● | 0.235 |
| | | 4 | – | – | – | LP4-K09004●●● | 0.235 |
| | | 2 | 2 | – | – | LP4-K09008●●● | 0.235 |
| | Faston 1 x 6.35 or 2 x 2.8 | 3 | – | 1 | – | LP4-K09107●●● | 0.235 |
| | | 3 | – | – | 1 | LP4-K09017●●● | 0.235 |
| | | 4 | – | – | – | LP4-K090047●●● | 0.235 |
| | | 2 | 2 | – | – | LP4-K090087●●● | 0.235 |
| | Solder pins for printed circuit board | 3 | – | 1 | – | LP4-K09105●●● | 0.265 |
| | | 3 | – | – | 1 | LP4-K09015●●● | 0.265 |
| | | 4 | – | – | – | LP4-K090045●●● | 0.265 |
| | | 2 | 2 | – | – | LP4-K090085●●● | 0.265 |

(1) Add-on auxiliary contact blocks and accessories, see pages 1/16 and 1/17.

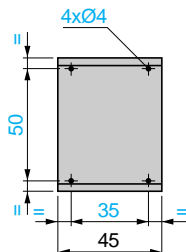
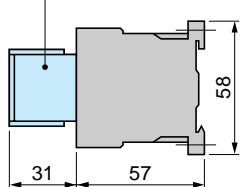
(2) Standard control circuit voltages (for other voltages, please consult your Regional customer centre).

| Volts $\overline{\text{---}}$ | 12 | 24 | 48 | 72 |
|-------------------------------|-----|-----|-----|-----|
| Code | JW3 | BW3 | EW3 | SW3 |

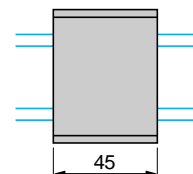
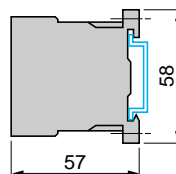
Contactors

LP4-K

On panel
LA1-K



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



Mini contactors

K 3 and 4-pole low consumption reversing and changeover contactors for motor control (AC-3) and heating, lighting etc., (AC-1)
Control circuit : d.c.



References

d.c. control reversing and changeover contactors (1)

- Compatible with programmable controller outputs.
- LED indicator incorporated.
- Wide range coil (0.7...1.30 Uc), suppressor fitted as standard, consumption 1.5 W.
- Mechanical interlock incorporated.
- Pre-wired power circuit connections as standard on screw clamp versions.
- Mounting on 35 mm rail or Ø 4 mm screw fixing.
- Screws in open "ready-to-tighten" position.

| Motor control in category AC-3 | Type of connection | Instantaneous auxiliary contacts | Basic reference. Complete with code indicating control circuit voltage (2) | Weight |
|--------------------------------|--|----------------------------------|--|--------|
| Maximum operational current | Standard power ratings of 3-phase motors | | | |
| 440 V | 220 V 380 V 440/500 V 230 V 415 V 660/690 V | | | |

| A | kW | kW | kW | | N/O | N/C | | kg |
|---|-----|-----|----|---------------------------------------|-----|---------------|---------------|-------|
| 6 | 1.5 | 2.2 | 3 | Screw clamp | 1 | – | LP5-K0610●●● | 0.490 |
| | | | | | – | 1 | LP5-K0601●●● | 0.490 |
| | | | | Faston 1 x 6.35 or 2 x 2.8 | 1 | – | LP5-K06107●●● | 0.470 |
| | | | | | – | 1 | LP5-K06017●●● | 0.470 |
| | | | | Solder pins for printed circuit board | 1 | – | LP5-K06105●●● | 0.530 |
| | | | | – | 1 | LP5-K06015●●● | 0.530 | |
| 9 | 2.2 | 4 | 4 | Screw clamp | 1 | – | LP5-K0910●●● | 0.490 |
| | | | | | – | 1 | LP5-K0901●●● | 0.490 |
| | | | | Faston 1 x 6.35 or 2 x 2.8 | 1 | – | LP5-K09107●●● | 0.470 |
| | | | | | – | 1 | LP5-K09017●●● | 0.470 |
| | | | | Solder pins for printed circuit board | 1 | – | LP5-K09105●●● | 0.530 |
| | | | | – | 1 | LP5-K09015●●● | 0.530 | |



LP5-K0910●●●

| Non inductive loads | Type of connection | Number of poles | Instantaneous auxiliary contacts | Basic reference. Complete with code indicating control circuit voltage (2) | Weight |
|---|--------------------|-----------------|----------------------------------|--|--------|
| Cat. AC-1 θ ≤ 50 °C Maximum current | | | | | |
| | | | | | |

| A | | | | N/O | N/C | | kg |
|----|---------------------------------------|---|---|-----|-----|------------------|----------------|
| 20 | Screw clamp | 3 | – | 1 | – | LP5-K0910●●● (3) | 0.490 |
| | | | – | – | 1 | LP5-K0901●●● (3) | 0.490 |
| | | | – | – | – | – | LP5-K09004●●● |
| | Faston 1 x 6.35 or 2 x 2.8 | 3 | – | 1 | – | LP5-K09107●●● | 0.470 |
| | | | – | – | 1 | LP5-K09017●●● | 0.470 |
| | | | – | – | – | – | LP5-K090047●●● |
| | Solder pins for printed circuit board | 3 | – | 1 | – | LP5-K09105●●● | 0.530 |
| | | | – | – | 1 | LP5-K09015●●● | 0.530 |
| | | | – | – | – | – | LP5-K090045●●● |

(1) Add-on auxiliary contact blocks and accessories, see pages 1/16 and 1/17.

(2) Standard control circuit voltages (for other voltages, please consult your Regional customer centre).

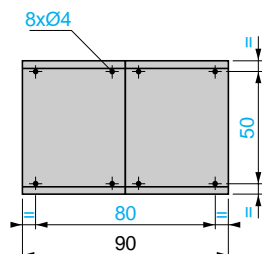
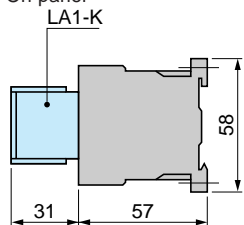
| Volts | 12 | 24 | 48 | 72 |
|-------|-----|-----|-----|-----|
| Code | JW3 | BW3 | EW3 | SW3 |

(3) Warning: this reversing contactor is pre-wired for reverse motor operation.

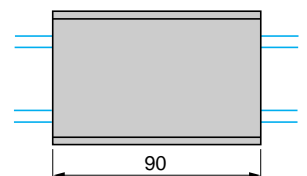
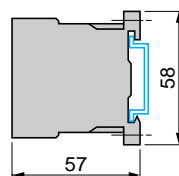
Reversing contactors

LP5-K

On panel



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



Mini contactors

K 3 and 4-pole low consumption contactors,
reversing and changeover contactors
Instantaneous and time delay auxiliary contacts

References

Instantaneous auxiliary contact blocks

Clip-on front mounting, 1 block per contactor

| Type of connection | Type of contactor | Composition | | Reference | Weight kg |
|----------------------------------|-------------------|-------------|-----|---------------------------|--------------|
| | | N/O | N/C | | |
| Screw clamp | 3 or 4-pole | 2 | – | LA1-KN20 | 0.045 |
| | | – | 2 | LA1-KN02 | 0.045 |
| | | 1 | 1 | LA1-KN11 | 0.045 |
| Faston 1 x 6.35 or 2 x 2.8 | 3 or 4-pole | 2 | – | LA1-KN207 | 0.045 |
| | | – | 2 | LA1-KN027 | 0.045 |
| | | 1 | 1 | LA1-KN117 | 0.045 |

With terminal referencing conforming to standard EN 50012

Clip-on front mounting, 1 block per contactor

| | | | | | |
|-------------|----------------------|---|---|---------------------------|-------|
| Screw clamp | 3-pole, 6 and 9 A | – | 2 | LA1-KN02M | 0.045 |
| | | 1 | 1 | LA1-KN11M | 0.045 |
| | 4-pole, 9 A | 1 | 1 | LA1-KN11P | 0.045 |

Electronic time delay auxiliary contact blocks

- Relay output, with common point changeover contact, 2 A maximum.
- Control voltage : \sim or \equiv 24...48 V, \sim 110...240 V, 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.

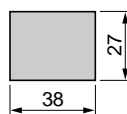
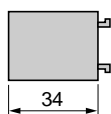


LA2-KT2●

Clip-on front mounting, 1 block per contactor

| Voltage | Type | Timing range | Composition | Reference | Weight kg |
|----------------------------|----------|--------------|-------------|--------------------------|--------------|
| | | | | | |
| \sim or \equiv 24...48 | On-delay | 1...30 | 1 | LA2-KT2E | 0.040 |
| \sim 110...240 | On-delay | 1...30 | 1 | LA2-KT2U | 0.040 |

Electronic time delay contact blocks LA2-KT



On contactor

