

# Product data sheet

Specifications



Contactor, TeSys K, 3P, AC-3/  
AC-3e, 440V, 6A, 1NC aux, 24V DC  
low consumption coil

LP4K0601BW3

## Main

|                           |               |
|---------------------------|---------------|
| Range                     | TeSys         |
| Product or component type | Contactor     |
| Device short name         | LP4K          |
| Contactor application     | Motor control |

## Complementary

|   |   |
|---|---|
| Utilisation category                        | AC-3<br>AC-3e<br>AC-4   |
| Poles description                           | 3P  |
| power pole contact composition              | 3 NO  |
| [Ue] rated operational voltage              | Power circuit: <= 690 V AC <= 400 Hz<br>Signalling circuit: <= 690 V AC <= 400 Hz   |
| [Ie] rated operational current              | 6 A (at <60 °C) at <= 440 V AC AC-3 for power circuit<br>6 A (at <60 °C) at <= 440 V AC AC-3e for power circuit   |
| Control circuit type                        | DC wide range   |
| [Uc] control circuit voltage                | 24 V DC   |
| Motor power kW                              | 1.5 kW at 220...230 V AC 50/60 Hz AC-3<br>2.2 kW at 380...415 V AC 50/60 Hz AC-3<br>3 kW at 440/690 V AC 50/60 Hz AC-3<br>1.5 kW at 220...230 V AC 50/60 Hz AC-3e<br>2.2 kW at 380...415 V AC 50/60 Hz AC-3e<br>3 kW at 440/690 V AC 50/60 Hz AC-3e<br>1.5 kW at 220...230 V AC 50/60 Hz AC-4<br>2.2 kW at 380...415 V AC 50/60 Hz AC-4<br>3 kW at 440/690 V AC 50/60 Hz AC-4 |
| Auxiliary contact composition               | 1 NC  |
| [Uimp] rated impulse withstand voltage      | 8 kV  |
| Overvoltage category                        | III   |
| [Ith] conventional free air thermal current | 20 A (at 60 °C) for power circuit<br>10 A (at 50 °C) for signalling circuit   |
| Irms rated making capacity                  | 110 A AC for power circuit conforming to IEC 60947<br>110 A AC for signalling circuit conforming to IEC 60947   |
| Rated breaking capacity                     | 110 A at 220...230 V conforming to IEC 60947<br>110 A at 380...400 V conforming to IEC 60947<br>110 A at 415 V conforming to IEC 60947<br>110 A at 440 V conforming to IEC 60947<br>80 A at 500 V conforming to IEC 60947<br>70 A at 660...690 V conforming to IEC 60947  |

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

|   |  |
|---|--|
| <b>[Icw] rated short-time withstand current</b> | 90 A 50 °C - 1 s for power circuit<br>85 A 50 °C - 5 s for power circuit<br>80 A 50 °C - 10 s for power circuit<br>60 A 50 °C - 30 s for power circuit<br>45 A 50 °C - 1 min for power circuit<br>40 A 50 °C - 3 min for power circuit<br>20 A 50 °C - >= 15 min for power circuit<br>80 A - 1 s for signalling circuit<br>90 A - 500 ms for signalling circuit<br>110 A - 100 ms for signalling circuit   |
| <b>Associated fuse rating</b>                   | 25 A gG at <= 440 V for power circuit<br>25 A aM for power circuit<br>10 A gG for signalling circuit conforming to IEC 60947<br>10 A gG for signalling circuit conforming to VDE 0660  |
| <b>Average impedance</b>                        | 3 mOhm - lth 20 A 50 Hz for power circuit  |
| <b>[Ui] rated insulation voltage</b>            | Power circuit: 600 V conforming to UL 508<br>Power circuit: 690 V conforming to IEC 60947-4-1<br>Signalling circuit: 690 V conforming to IEC 60947-4-1<br>Signalling circuit: 690 V conforming to IEC 60947-5-1<br>Signalling circuit: 600 V conforming to UL 508<br>Power circuit: 600 V conforming to CSA C22.2 No 14<br>Signalling circuit: 600 V conforming to CSA C22.2 No 14   |
| <b>Insulation resistance</b>                    | > 10 MOhm for signalling circuit   |
| <b>Inrush power in W</b>                        | 1.8 W (at 20 °C)   |
| <b>Hold-in power consumption in W</b>           | 1.8 W at 20 °C   |
| <b>Heat dissipation</b>                         | 1.8 W  |
| <b>Control circuit voltage limits</b>           | Operational: 0.7...1.3 Uc (at <50 °C)<br>Drop-out: >= 0.10 Uc (at <50 °C)  |
| <b>Connections - terminals</b>                  | Screw clamp terminals 1 cable(s) 1.5...4 mm²solid<br>Screw clamp terminals 1 cable(s) 0.75...4 mm²flexible without cable end<br>Screw clamp terminals 1 cable(s) 0.34...2.5 mm²flexible with cable end<br>Screw clamp terminals 2 cable(s) 1.5...4 mm²solid<br>Screw clamp terminals 2 cable(s) 0.75...4 mm²flexible without cable end<br>Screw clamp terminals 2 cable(s) 0.34...1.5 mm²flexible with cable end<br>Power circuit: screw clamp terminals 2 cable(s) 1.5 mm²flexible with cable end |
| <b>Maximum operating rate</b>                   | 3600 cyc/h   |
| <b>Coil technology</b>                          | Built-in bidirectional peak limiting diode suppressor  |
| <b>Auxiliary contacts type</b>                  | type instantaneous 1 NC  |
| <b>Minimum switching current</b>                | 5 mA for signalling circuit  |
| <b>Minimum switching voltage</b>                | 17 V for signalling circuit  |
| <b>Mounting support</b>                         | Plate<br>Rail  |
| <b>Tightening torque</b>                        | 0.8...1.3 N.m - on screw clamp terminals Philips No 2<br>0.8...1.3 N.m - on screw clamp terminals flat Ø 6 mm<br>0.8...1.3 N.m - on screw clamp terminals pozidriv No 2  |
| <b>Operating time</b>                           | 10...20 ms coil de-energisation and NO opening<br>30...40 ms coil energisation and NO closing  |
| <b>Safety reliability level</b>                 | B10d = 1369863 cycles contactor with nominal load conforming to EN/ISO 13849-1<br>B10d = 20000000 cycles contactor with mechanical load conforming to EN/ISO 13849-1   |
| <b>Mechanical durability</b>                    | 30 Mcycles   |
| <b>Electrical durability</b>                    | 1.3 Mcycles 6 A AC-3 at Ue <= 440 V<br>1.3 Mcycles 6 A AC-3e at Ue <= 440 V<br>0.05 Mcycles 36 A AC-4 at Ue <= 440 V   |
| <b>Height</b>                                   | 58 mm  |
| <b>Width</b>                                    | 45 mm  |
| <b>Depth</b>                                    | 57 mm  |

|            |          |
|------------|----------|
| Net weight | 0.235 kg |
|------------|----------|

## Environment

|                                       |  |
|---------------------------------------|--|
| Standards                             | EN/IEC 60947-4-1<br>EN/IEC 60947-5-1<br>UL 60947-4-1<br>UL 60947-5-1<br>CSA C22.2 No 60947-4-1<br>CSA C22.2 No 60947-5-1<br>GB/T 14048.4 |
| Product certifications                | CB Scheme<br>CCC<br>UL<br>CSA<br>EAC<br>CE<br>UKCA   |
| IP degree of protection               | IP2X   |
| Ambient air temperature for operation | -25...50 °C  |
| Ambient air temperature for storage   | -50...80 °C  |
| Operating altitude                    | 2000 m without derating  |
| Flame retardance                      | V1 conforming to UL 94<br>Requirement 2 conforming to NF F 16-101<br>Requirement 2 conforming to NF F 16-102                             |

## Packing Units

|                              |            |
|------------------------------|------------|
| Unit Type of Package 1       | PCE        |
| Number of Units in Package 1 | 1          |
| Package 1 Height             | 6.600 cm   |
| Package 1 Width              | 4.800 cm   |
| Package 1 Length             | 6.200 cm   |
| Package 1 Weight             | 221.000 g  |
| Unit Type of Package 2       | S02        |
| Number of Units in Package 2 | 40         |
| Package 2 Height             | 15.000 cm  |
| Package 2 Width              | 30.000 cm  |
| Package 2 Length             | 40.000 cm  |
| Package 2 Weight             | 9.148 kg   |
| Unit Type of Package 3       | P06        |
| Number of Units in Package 3 | 640        |
| Package 3 Height             | 75.000 cm  |
| Package 3 Width              | 60.000 cm  |
| Package 3 Length             | 80.000 cm  |
| Package 3 Weight             | 159.355 kg |

## Contractual warranty

|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)


[How we assess product sustainability >](#)

| Environmental footprint          |   |
|----------------------------------|---|
| Total lifecycle Carbon footprint | 68  |
| Environmental Disclosure         | <a href="#">Product Environmental Profile</a> |

Use Better

| Materials and Substances               |  |
|--|--|
| Packaging made with recycled cardboard | Yes  |
| Packaging without single use plastic   | Yes  |
| <a href="#">EU RoHS Directive</a>      | Compliant  |
| REACH Regulation                       | <a href="#">REACH Declaration</a>  |
| California proposition 65              | <b>WARNING:</b> This product can expose you to chemicals including: Antimony oxide & Antimony trioxide, which is known to the State of California to cause cancer. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> |

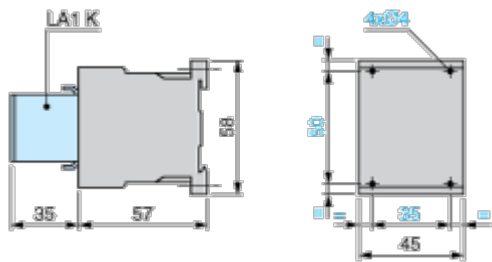
Use Again

| Repack and remanufacture        |   |
|---------------------------------|---|
| End of life manual availability | <a href="#">End of Life Information</a>   |
| Take-back                       | No  |
| WEEE Label                      |  The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |

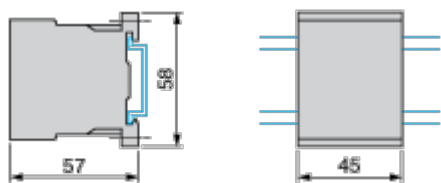
Dimensions Drawings

Dimensions

Contactors LC1 K, LP1 K, LP4 K: Mounting on Panel



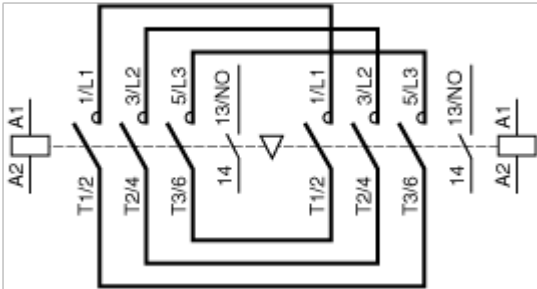
Contactors LC1 K, LP1 K, LP4 K: Mounting on Rail AM1 DP200 or AM1 DE200 (35 mm)



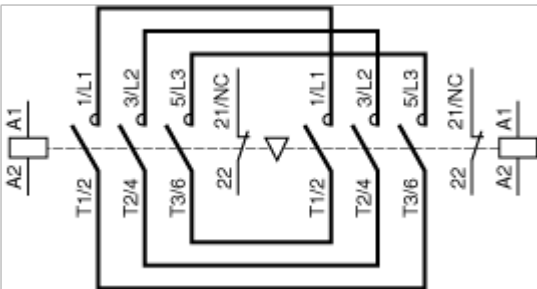
Connections and Schema

Wiring

3-Pole Reversing Contactors with Screw Clamp Connections: 3P + N/O




3-Pole Reversing Contactors with Screw Clamp Connections: 3P + N/C



Offer Marketing Illustration

Product benefits / Features

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A black Schneider TeSys K contactor, model LC1K09, is shown against a green circular background. The device has multiple terminal blocks on top and bottom, labeled with numbers and letters (1 L1, 3 L2, 5 L3, 13 NO, A1 on top; 2 T1, 4 T2, 6 T3, 14 NO, A2 on bottom). A blue lever is visible in the center. The Schneider logo and 'TeSys K' are printed on the front.

### TeSys K

#### Technical Benefits

- Built-in in all 3 pole versions: 1NO or 1NC
- Up to 4 more by add-on blocks
- Up to 16 A for motor control (AC3/ AC3E) and 20A for resistive load control (AC1)
- Available as single contactors, star-delta, and reversing combos, with a wealth of options and accessories
- Control Options:
  - AC: 24 to 660/690 V, standard or low-noise versions
  - DC: 12 to 250V, standard or low consumption (1.8 W) versions
- Thermal protection relays
- It Features specific versions for railway (TeSys S207) and electrodomeestic (TeSys S335) applications

Offer Marketing Illustration

Product benefits / Features

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TeSys K  
Contactors



Flexibility

Designed with control voltages, low consumption, minimal noise levels, robust power connections, and a range of auxiliaries, and application-specific variants to meet diverse needs.



Safety

It provide ultimate protection with IP20 finger-safe terminals, built-in NO/NC auxiliary contacts, and IEC-certified mirror and mechanically linked contacts for safety applications.



Compact size

Up to 50% less volume is captured in your panels. One of he smallest contactors offerings in the market



## Technical Illustration

### Assembly's dimensions

