

# Product datasheet

Specifications



## TeSys K contactor , 3P ,AC-3, <= 440V, 6A , 1 NC aux , 110V DC coil

LP4K0601FW3

⚠ Discontinued on: Jan 23, 2021

⚠ Discontinued

### Main

|                                |                                           |
|--------------------------------|-------------------------------------------|
| Range of product               | TeSys K                                   |
| Range                          | TeSys                                     |
| Product or component type      | Contacteur                                |
| Device short name              | LP4K                                      |
| Contacteur application         | Motor control                             |
| Utilisation category           | AC-4<br>AC-3                              |
| Poles description              | 3P                                        |
| Pole contact composition       | 3 NO                                      |
| [Ie] rated operational current | 6 A at <= 440 V AC AC-3 for power circuit |
| Auxiliary contact composition  | 1 NC                                      |

### Complementary

|                                        |                                                                                                                                                                                                                                                                                                                                                                                    |
|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Coil technology                        | Built-in bidirectional peak limiting diode suppressor                                                                                                                                                                                                                                                                                                                              |
| 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 400 V AC 50/60 Hz AC-4                                                                                            |
| Auxiliary contacts type                | type instantaneous 1 NC                                                                                                                                                                                                                                                                                                                                                            |
| Control circuit voltage limits         | Operational: 0.7...1.30 Uc (at <50 °C)<br>Drop-out: 0.1...0.7 Uc (at <50 °C)                                                                                                                                                                                                                                                                                                       |
| [Ui] rated insulation voltage          | 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 |
| [Uimp] rated impulse withstand voltage | 8 kV                                                                                                                                                                                                                                                                                                                                                                               |
| Overvoltage category                   | III                                                                                                                                                                                                                                                                                                                                                                                |
| Mounting support                       | Plate<br>Rail                                                                                                                                                                                                                                                                                                                                                                      |
| Standards                              | EN/IEC 60947-4-1<br>GB/T 14048.4<br>UL 60947-4-1<br>CSA C22.2 No 60947-4-1<br>JIS C8201-4-1                                                                                                                                                                                                                                                                                        |

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

|                                             |                                                                                                                                                                                                                                                                          |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ambient air temperature for operation       | -25...50 °C                                                                                                                                                                                                                                                              |
| 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                                                                                                                                                             |
| Tightening torque                           | 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                                                                                                                                                            |
| [Ue] rated operational voltage              | Power circuit: 690 V AC 50/60 Hz<br>Signalling circuit: <= 690 V AC 50/60 Hz                                                                                                                                                                                             |
| [Ith] conventional free air thermal current | 20 A (at 50 °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 NF C 63-110<br>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 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>110 A at 220...230 V conforming to IEC 60947<br>110 A at 380...400 V conforming to IEC 60947<br>70 A at 660...690 V conforming to IEC 60947 |
| Associated fuse rating                      | 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                                                                                    |
| Average impedance                           | 3 mOhm - Ith 20 A 50 Hz for power circuit                                                                                                                                                                                                                                |
| Inrush power in W                           | 1.8 W (at 20 °C)                                                                                                                                                                                                                                                         |
| Hold-in power consumption in W              | 1.8 W at 20 °C                                                                                                                                                                                                                                                           |
| Operating time                              | 10...20 ms coil de-energisation and NO opening<br>30...40 ms coil energisation and NO closing                                                                                                                                                                            |
| Safety reliability level                    | 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                                                                                                     |
| Mechanical durability                       | 30 Mcycles                                                                                                                                                                                                                                                               |
| Maximum operating rate                      | 3600 cyc/h                                                                                                                                                                                                                                                               |
| Minimum switching current                   | 5 mA for signalling circuit                                                                                                                                                                                                                                              |
| Minimum switching voltage                   | 17 V for signalling circuit                                                                                                                                                                                                                                              |
| Insulation resistance                       | > 10 MOhm for signalling circuit                                                                                                                                                                                                                                         |
| Height                                      | 58 mm                                                                                                                                                                                                                                                                    |
| Width                                       | 45 mm                                                                                                                                                                                                                                                                    |
| Depth                                       | 57 mm                                                                                                                                                                                                                                                                    |
| Product weight                              | 0.235 kg                                                                                                                                                                                                                                                                 |

## Environment

|                                     |                                                    |
|-------------------------------------|----------------------------------------------------|
| Product certifications              | CB Scheme<br>CCC<br>UL<br>CSA<br>EAC<br>CE<br>UKCA |
| Ambient air temperature for storage | -50...80 °C                                        |
| Operating altitude                  | 2000 m without derating                            |

## Packing Units

|                              |        |
|------------------------------|--------|
| Unit Type of Package 1       | PCE    |
| Number of Units in Package 1 | 1      |
| Package 1 Height             | 4.8 cm |
| Package 1 Width              | 6 cm   |
| Package 1 Length             | 6.5 cm |
| Package 1 Weight             | 214 g  |

## Contractual warranty

|                      |    |
|----------------------|----|
| Warranty (in months) | 18 |
|----------------------|----|



## 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

Environmental Disclosure

[Product Environmental Profile](#)

## Use Better



### Materials and Substances

EU RoHS Directive

[Compliant](#)

## Use Longer



### Lifetime extension

Repair

No

## Use Again



### Repack and remanufacture

WEEE Label

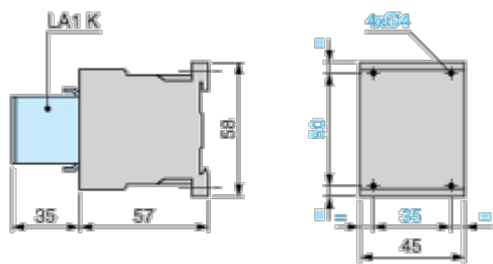


The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

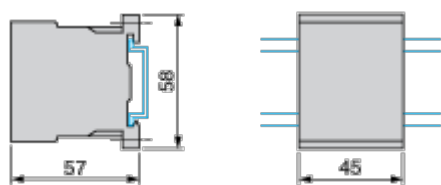
Dimensions Drawings

Dimensions

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



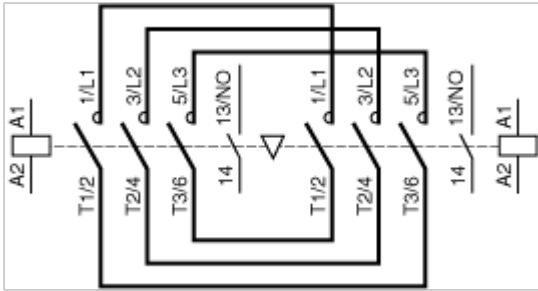
Contactors LC1 K, LP1 K, LP4 K: Mounting on Rail AM1 DP200 or AM1 DE200 (35 mm)



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

