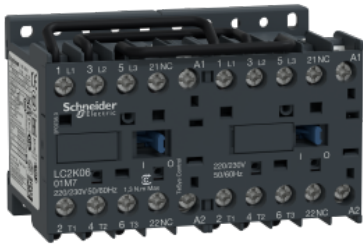


# Product data sheet

Specifications



## TeSys K reversing contactor , 3P , AC-3 <= 440 V 6 A , 1 NC , 115 V AC coil

LC2K0601FE7

### Main

|   |  |
|---|--|
| Range                                       | TeSys  |
| Product name                                | TeSys K  |
| Product or component type                   | Reversing contactor  |
| Device short name                           | LC2K   |
| Device application                          | Control  |
| Contactor application                       | Motor control  |
| Utilisation category                        | AC-4<br>AC-3   |
| Device presentation                         | Preassembled with reversing power busbar   |
| Poles description                           | 3P   |
| Power pole contact composition              | 3 NO   |
| [Ue] rated operational voltage              | Power circuit: 690 V AC 50/60 Hz<br>Signalling circuit: <= 690 V AC 50/60 Hz   |
| [Ie] rated operational current              | 6 A at <= 440 V AC AC-3 for power circuit  |
| Motor power kW                              | 1.5 kW at 220...230 V AC 50/60 Hz<br>2.2 kW at 380...415 V AC 50/60 Hz<br>3 kW at 440 V AC 50/60 Hz<br>3 kW at 480 V AC 50/60 Hz<br>3 kW at 500...600 V AC 50/60 Hz<br>3 kW at 660...690 V AC 50/60 Hz   |
| Control circuit type                        | AC at 50/60 Hz   |
| [Uc] control circuit voltage                | 115 V AC 50/60 Hz  |
| Auxiliary contact composition               | 1 NC   |
| [Uimp] rated impulse withstand voltage      | 8 kV   |
| Overtoltage category                        | III  |
| [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 |

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>80 A - 1 s for signalling circuit<br>90 A - 500 ms for signalling circuit<br>110 A - 100 ms for signalling circuit<br>20 A 50 °C - >= 15 min for power 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>Electrical durability</b>                    | 1.3 Mcycles 6 A AC-3 at Ue <= 440 V  |
| <b>Interlocking type</b>                        | Mechanical   |
| <b>Mounting support</b>                         | Plate<br>Rail  |
| <b>Standards</b>                                | VDE 0660<br>IEC 60947<br>NF C 63-110<br>BS 5424  |
| <b>Product certifications</b>                   | UL<br>CSA<br>UKCA  |
| <b>Connections - terminals</b>                  | Screw clamp terminals 1 cable(s) 1.5...4 mm <sup>2</sup> solid<br>Screw clamp terminals 1 cable(s) 0.75...4 mm <sup>2</sup> flexible without cable end<br>Screw clamp terminals 1 cable(s) 0.34...2.5 mm <sup>2</sup> flexible with cable end<br>Screw clamp terminals 2 cable(s) 1.5...4 mm <sup>2</sup> solid<br>Screw clamp terminals 2 cable(s) 0.75...4 mm <sup>2</sup> flexible without cable end<br>Screw clamp terminals 2 cable(s) 0.34...1.5 mm <sup>2</sup> flexible with cable end |
| <b>Tightening torque</b>                        | 1.3 N.m - on screw clamp terminals - with screwdriver Philips No 2<br>1.3 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm<br>1.3 N.m - on screw clamp terminals - with screwdriver pozidriv No 2   |
| <b>Operating time</b>                           | 10...20 ms coil energisation and NO closing<br>10...20 ms coil de-energisation and NO opening  |
| <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>                    | 5 Mcycles  |
| <b>Maximum operating rate</b>                   | 3600 cyc/h   |
| <b>Complementary</b>                            |  |
| <b>Control circuit voltage limits</b>           | Operational: 0.8...1.15 Uc (at <50 °C)<br>Drop-out: 0.2...0.75 Uc (at <50 °C)  |
| <b>Inrush power in VA</b>                       | 30 VA (at 20 °C)   |
| <b>Hold-in power consumption in VA</b>          | 4.5 VA (at 20 °C)  |
| <b>Heat dissipation</b>                         | 1.3 W  |
| <b>Auxiliary contacts type</b>                  | type instantaneous 1 NC  |
| <b>Signalling circuit frequency</b>             | <= 400 Hz  |
| <b>Minimum switching current</b>                | 5 mA for signalling circuit  |
| <b>Minimum switching voltage</b>                | 17 V for signalling circuit  |
| <b>Non overlap distance</b>                     | 0.5 mm   |
| <b>Insulation resistance</b>                    | > 10 MOhm for signalling circuit   |

## Environment

|                                       |   |
|---------------------------------------|---|
| IP degree of protection               | IP20 conforming to VDE 0106   |
| Protective treatment                  | TC conforming to IEC 60068<br>TC conforming to DIN 50016  |
| 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  |
| Mechanical robustness                 | Shocks contactor closed, on X axis: 10 Gn for 11 ms conforming to IEC 60068-2-27<br>Shocks contactor closed, on Y axis: 15 Gn for 11 ms conforming to IEC 60068-2-27<br>Shocks contactor closed, on Z axis: 15 Gn for 11 ms conforming to IEC 60068-2-27<br>Shocks contactor opened, on X axis: 6 Gn for 11 ms conforming to IEC 60068-2-27<br>Shocks contactor opened, on Y axis: 10 Gn for 11 ms conforming to IEC 60068-2-27<br>Shocks contactor opened, on Z axis: 10 Gn for 11 ms conforming to IEC 60068-2-27<br>Vibrations contactor closed: 4 Gn, 5...300 Hz conforming to IEC 60068-2-6<br>Vibrations contactor opened: 2 Gn, 5...300 Hz conforming to IEC 60068-2-6 |
| Height                                | 58 mm   |
| Width                                 | 90 mm   |
| Depth                                 | 57 mm   |
| Net weight                            | 0.39 kg   |

## Packing Units

|                              |          |
|------------------------------|----------|
| Unit Type of Package 1       | PCE      |
| Number of Units in Package 1 | 1        |
| Package 1 Weight             | 360.0 g  |
| Package 1 Height             | 6.0 cm   |
| Package 1 width              | 6.5 cm   |
| Package 1 Length             | 9.2 cm   |
| Unit Type of Package 2       | S02      |
| Number of Units in Package 2 | 25       |
| Package 2 Weight             | 9.488 kg |
| Package 2 Height             | 15.0 cm  |
| Package 2 width              | 30.0 cm  |
| Package 2 Length             | 40.0 cm  |

## Offer Sustainability

|                            |   |
|----------------------------|---|
| Sustainable offer status   | Green Premium product   |
| REACH Regulation           | <a href="#">REACH Declaration</a>   |
| REACH free of SVHC         | Yes   |
| EU RoHS Directive          | Compliant<br><a href="#">EU RoHS Declaration</a>  |
| Toxic heavy metal free     | Yes   |
| Mercury free               | Yes   |
| RoHS exemption information | <a href="#">Yes</a>   |
| China RoHS Regulation      | <a href="#">China RoHS declaration</a><br>Pro-active China RoHS declaration (out of China RoHS legal scope) |

---

|                                 |   |
|---------------------------------|---|
| <b>Environmental Disclosure</b> | <a href="#">Product Environmental Profile</a>   |
| <b>Circularity Profile</b>      | <a href="#">End of Life Information</a>   |
| <b>WEEE</b>                     | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |

---

**Contractual warranty**

---

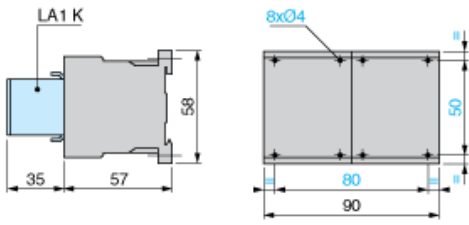
|                 |           |
|-----------------|-----------|
| <b>Warranty</b> | 18 months |
|-----------------|-----------|

---

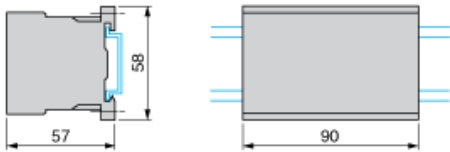
**Dimensions**

---

**Reversing Contactors LC2 K, LP2 K, LP5 K: Mounting on Panel**



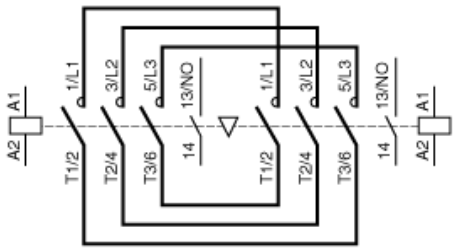
**Reversing Contactors LC2 K, LP2 K, LP5 K: Mounting on Rail AM1 DP200 or AM1 DE200 (35 mm)**



Wiring

---

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



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

