# **Product datasheet**





# TeSys K contactor - 3P - AC-3 <= 440 V 6 A - 1 NC aux. - 230 V AC

Local distributor code:

386106495 LC1K0601P72

EAN Code: 3389110120486

#### Main

| Range                     | TeSys         |
|---------------------------|---------------|
| Product Or Component Type | Contactor     |
| Device Short Name         | LC1K          |
| Device Application        | Control       |
| 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   |
| [le] 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                           | AC at 50/60 Hz  |
| [Uc] Control Circuit Voltage                   | 230 V AC 50/60 Hz   |
| Motor Power Kw                                 | 1.5 kW at 220230 V AC 50/60 Hz AC-3 2.2 kW at 380415 V AC 50/60 Hz AC-3 3 kW at 440/690 V AC 50/60 Hz AC-3 1.5 kW at 220230 V AC 50/60 Hz AC-3e 2.2 kW at 380415 V AC 50/60 Hz AC-3e 3 kW at 440/690 V AC 50/60 Hz AC-3e 1.5 kW at 220230 V AC 50/60 Hz AC-4 2.2 kW at 380415 V AC 50/60 Hz AC-4 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<br>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 110 A AC for signalling circuit conforming to IEC 60947  |
| Rated Breaking Capacity                        | 110 A at 220230 V conforming to IEC 60947 110 A at 380400 V conforming to IEC 60947 110 A at 415 V conforming to IEC 60947 110 A at 440 V conforming to IEC 60947 80 A at 500 V conforming to IEC 60947   |

70 A at 660...690 V conforming to IEC 60947

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| [Icw] Rated Short-Time Withstand Current | 90 A 50 °C - 1 s for power circuit  85 A 50 °C - 5 s for power circuit  80 A 50 °C - 10 s for power circuit  60 A 50 °C - 30 s for power circuit  45 A 50 °C - 1 min for power circuit  40 A 50 °C - 3 min for power circuit  20 A 50 °C ->= 15 min for power circuit  80 A - 1 s for signalling circuit  90 A - 500 ms for signalling circuit  110 A - 100 ms for signalling circuit |
|--|---|
| Associated Fuse Rating                   | 25 A gG at <= 440 V for power circuit 25 A aM for power circuit 10 A gG for signalling circuit conforming to IEC 60947 10 A gG for signalling circuit conforming to VDE 0660  |
| Average Impedance                        | 3 mOhm - Ith 20 A 50 Hz for power circuit   |
| [Ui] Rated Insulation Voltage            | Power circuit: 600 V conforming to UL 508 Power circuit: 690 V conforming to IEC 60947-4-1 Signalling circuit: 690 V conforming to IEC 60947-4-1 Signalling circuit: 690 V conforming to IEC 60947-5-1 Signalling circuit: 600 V conforming to UL 508 Power circuit: 600 V conforming to CSA C22.2 No 14 Signalling circuit: 600 V conforming to CSA C22.2 No 14                      |
| Insulation Resistance                    | > 10 MOhm for signalling circuit  |
| Inrush Power In Va                       | 30 VA (at 20 °C)  |
| Hold-In Power Consumption In Va          | 4.5 VA (at 20 °C)   |
| Heat Dissipation                         | 1.3 W   |
| Control Circuit Voltage Limits           | Operational: 0.81.15 Uc (at <50 °C) Drop-out: >= 0.20 Uc (at <50 °C)  |
| Connections - Terminals                  | Screw clamp terminals 1 cable(s) 1.54 mm²solid Screw clamp terminals 1 cable(s) 0.754 mm²flexible without cable end Screw clamp terminals 1 cable(s) 0.342.5 mm²flexible with cable end Screw clamp terminals 2 cable(s) 1.54 mm²solid Screw clamp terminals 2 cable(s) 0.754 mm²flexible without cable end Screw clamp terminals 2 cable(s) 0.341.5 mm²flexible with cable end       |
| Maximum Operating Rate                   | 3600 cyc/h  |
| Coil Technology                          | Built-in bidirectional peak limiting diode suppressor   |
| Auxiliary Contacts Type                  | type instantaneous 1 NC   |
| Signalling Circuit Frequency             | <= 400 Hz   |
| Minimum Switching Current                | 5 mA for signalling circuit   |
| Minimum Switching Voltage                | 17 V for signalling circuit   |
| Mounting Support                         | Plate<br>Rail   |
| Tightening Torque                        | 0.81.3 N.m - on screw clamp terminals Philips No 2 0.81.3 N.m - on screw clamp terminals flat Ø 6 mm  |
| Operating Time                           | 1020 ms coil de-energisation and NO opening<br>1020 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<br>13849-1   |
| Non Overlap Distance                     | 0.5 mm  |
| Mechanical Durability                    | 10 Mcycles  |
| Electrical Durability                    | 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  |

| Mechanical Robustness | Shocks contactor closed, on X axis: 10 Gn for 11 ms conforming to IEC 60068-2-27 Shocks contactor closed, on Y axis: 15 Gn for 11 ms conforming to IEC 60068-2-27 Shocks contactor closed, on Z axis: 15 Gn for 11 ms conforming to IEC 60068-2-27 Shocks contactor opened, on X axis: 6 Gn for 11 ms conforming to IEC 60068-2-27 Shocks contactor opened, on Y axis: 10 Gn for 11 ms conforming to IEC 60068-2-27 Shocks contactor opened, on Z axis: 10 Gn for 11 ms conforming to IEC 60068-2-27 Vibrations contactor closed: 4 Gn, 5300 Hz conforming to IEC 60068-2-6 Vibrations contactor opened: 2 Gn, 5300 Hz conforming to IEC 60068-2-6 |
|-----------------------|--|
|                       | 58 mm  |
| Width                 | 45 mm  |
| Depth                 | 57 mm  |
| Net Weight            | 0.18 kg  |

### **Environment**

| 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            |
|-------------------------------------|--|
| Product Certifications              | CB Scheme CCC UL CSA EAC CE  |
| Ip Degree Of Protection             | IP2X conforming to VDE 0106  |
| Protective Treatment                | TC conforming to IEC 60068 TC conforming to DIN 50016  |
| Ambient Air Temperature For Storage | -5080 °C   |
| Operating Altitude                  | 2000 m without derating  |
| Flame Retardance                    | V1 conforming to UL 94 Requirement 2 conforming to NF F 16-101 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             | 6.6 cm  |
| Package 1 Width              | 6.2 cm  |
| Package 1 Length             | 4.8 cm  |
| Package 1 Weight             | 179.0 g |

# **Contractual warranty**

Warranty 18 months

# Sustainability Screen Premium\*

**Green Premium**<sup>TM</sup> **label** is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> products.

**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >





Transparency RoHS/REACh

#### Well-being performance

| <b>⊘</b> | Reach Free Of Svhc         |     |
|----------|----------------------------|-----|
| <b>9</b> | Toxic Heavy Metal Free     |     |
| <b>②</b> | Mercury Free               |     |
| <b>⊘</b> | Rohs Exemption Information | Yes |

#### **Certifications & Standards**

| Reach Regulation         | REACh Declaration   |
|--------------------------|---|
| Eu Rohs Directive        | Compliant EU RoHS Declaration   |
| China Rohs Regulation    | China RoHS declaration  Pro-active China RoHS declaration (out of China RoHS legal scope)                                   |
| Environmental Disclosure | Product Environmental Profile   |
| Weee                     | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |
| Circularity Profile      | End of Life Information   |