

# Product datasheet

Specifications



## TeSys K reversing contactor - 3P - AC-3 <= 440 V 9 A - 1 NO - 48 V AC coil

LC2K0910E7

Price: 1,760.33 ZAR

### Main

|                                             |                                                                                                                                                                                                                                                                          |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range                                       | TeSys                                                                                                                                                                                                                                                                    |
| Product Name                                | TeSys K                                                                                                                                                                                                                                                                  |
| Product Or Component Type                   | Reversing contactor                                                                                                                                                                                                                                                      |
| Device Short Name                           | LC2K                                                                                                                                                                                                                                                                     |
| Device Application                          | Control                                                                                                                                                                                                                                                                  |
| Contactor Application                       | Motor control<br>Resistive load                                                                                                                                                                                                                                          |
| Utilisation Category                        | AC-3<br>AC-3e<br>AC-4<br>AC-1                                                                                                                                                                                                                                            |
| 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              | 9 A (at <60 °C) at <= 440 V AC AC-3 for power circuit<br>9 A (at <60 °C) at <= 440 V AC AC-3e for power circuit<br>20 A (at <60 °C) at <= 690 V AC AC-1 for power circuit                                                                                                |
| Motor Power Kw                              | 2.2 kW at 220...230 V AC 50/60 Hz<br>4 kW at 380...415 V AC 50/60 Hz<br>4 kW at 440/690 V AC 50/60 Hz                                                                                                                                                                    |
| Control Circuit Type                        | AC at 50/60 Hz                                                                                                                                                                                                                                                           |
| [Uc] Control Circuit Voltage                | 48 V AC 50/60 Hz                                                                                                                                                                                                                                                         |
| Auxiliary Contact Composition               | 1 NO                                                                                                                                                                                                                                                                     |
| [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 |

Excluding VAT and subject to change. Please check with your local distributor through "Where to buy"

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|                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <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>Electrical Durability</b>                    | 1.3 Mcycles 9 A AC-3 at Ue <= 440 V<br>1.3 Mcycles 9 A AC-3e at Ue <= 440 V<br>0.16 Mcycles 20 A AC-1 at Ue <= 690 V<br>0.02 Mcycles 54 A AC-4 at Ue <= 440 V                                                                                                                                                                                                                                                    |
| <b>Interlocking Type</b>                        | Mechanical                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Mounting Support</b>                         | Plate<br>Rail                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Standards</b>                                | 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                                                                                                                                                                                                                                                                                                                      |
| <b>Product Certifications</b>                   | CB Scheme<br>CCC<br>UL<br>CSA<br>EAC<br>CE<br>UKCA                                                                                                                                                                                                                                                                                                                                                               |
| <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 |
| <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 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)                                                                                                                                                                                                                                                                                                                                                                                                 |

|                                 |                                  |
|---------------------------------|----------------------------------|
| Hold-In Power Consumption In Va | 4.5 VA (at 20 °C)                |
| Heat Dissipation                | 1.3 W                            |
| Auxiliary Contacts Type         | type instantaneous 1 NO          |
| Signalling Circuit Frequency    | <= 400 Hz                        |
| Minimum Switching Current       | 5 mA for signalling circuit      |
| Minimum Switching Voltage       | 17 V for signalling circuit      |
| Non Overlap Distance            | 0.5 mm                           |
| Insulation Resistance           | > 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 Height             | 6.0 cm  |
| Package 1 Width              | 6.5 cm  |
| Package 1 Length             | 9.0 cm  |
| Package 1 Weight             | 362.0 g |
| Unit Type Of Package 2       | S02     |
| Number Of Units In Package 2 | 25      |
| Package 2 Height             | 15.0 cm |
| Package 2 Width              | 30.0 cm |
| Package 2 Length             | 40.0 cm |
| Package 2 Weight             | 9.55 kg |

# Contractual warranty

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

Sustainability



**Green Premium™ label** is Schneider Electric’s commitment to delivering products with best-in-class 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.

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Transparency   RoHS/REACH

Well-being performance

|   |                            |     |
|---|----------------------------|-----|
| ✓ | Reach Free Of Svhc         |     |
| ✓ | Toxic Heavy Metal Free     |     |
| ✓ | Mercury Free               |     |
| ✓ | Rohs Exemption Information | Yes |

Certifications & Standards

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