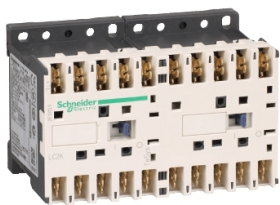


# Product data sheet

Specifications



## Changeover contactor, TeSys K, 4P, AC-1, It or eq to 440V 10A, 48VAC coil

LC2K090047E72

! Discontinued

### Main

|   |   |
|---|---|
| Range                                       | TeSys   |
| Product Name                                | TeSys K   |
| Product Or Component Type                   | Changeover contactor  |
| Device Short Name                           | LC2K  |
| Device Application                          | Control   |
| Contactor Application                       | Resistive load  |
| Utilisation Category                        | AC-1  |
| Device Presentation                         | Preassembled with reversing power busbar  |
| Poles Description                           | 4P  |
| Power Pole Contact Composition              | 4 NO  |
| [Ue] Rated Operational Voltage              | Power circuit 690 V AC 50/60 Hz   |
| [Ie] Rated Operational Current              | 20 A (at <122 °F (50 °C)) at <= 440 V AC AC-1 for power circuit<br>16 A (at <158 °F (70 °C)) at 690 V AC AC-1 for power circuit   |
| Control Circuit Type                        | AC 50/60 Hz   |
| [Uc] Control Circuit Voltage                | 48 V AC 50/60 Hz  |
| [Uimp] Rated Impulse Withstand Voltage      | 8 kV  |
| Overvoltage Category                        | III   |
| [Ith] Conventional Free Air Thermal Current | 20 A (at 122 °F (50 °C)) for power 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  |
| 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  |
| [Icw] Rated Short-Time Withstand Current    | 90 A 122 °F (50 °C) - 1 s for power circuit<br>85 A 122 °F (50 °C) - 5 s for power circuit<br>80 A 122 °F (50 °C) - 10 s for power circuit<br>60 A 122 °F (50 °C) - 30 s for power circuit<br>45 A 122 °F (50 °C) - 1 min for power circuit<br>40 A 122 °F (50 °C) - 3 min for power circuit<br>20 A 122 °F (50 °C) - >= 15 min for power circuit |
| Associated Fuse Rating                      | 25 A gG at <= 440 V for power circuit<br>25 A aM for power circuit  |
| Average Impedance                           | 3 mOhm - Ith 20 A 50 Hz for power circuit   |

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

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

|                               |  |
|-------------------------------|--|
| [Ui] Rated Insulation Voltage | Power circuit 600 V UL 508<br>Power circuit 690 V IEC 60947-4-1<br>Power circuit 600 V CSA C22.2 No 14                                   |
| Electrical Durability         | 0.18 Mcycles 20 A AC-1 <= 440 V  |
| Interlocking Type             | Mechanical   |
| Mounting Support              | Plate<br>Rail  |
| Standards                     | IEC 60947<br>VDE 0660<br>BS 5424<br>NF C 63-110  |
| Product Certifications        | CB Scheme<br>CCC<br>UL<br>CSA<br>EAC<br>CE<br>UKCA   |
| Connections - Terminals       | Faston terminals 2 2.8 mm<br>Faston terminals 1 6.35 mm  |
| Operating Time                | 10...20 ms coil energisation and NO closing<br>10...20 ms coil de-energisation and NO opening  |
| Safety Reliability Level      | B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1<br>B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1 |
| Mechanical Durability         | 5 Mcycles  |
| Maximum Operating Rate        | 3600 cyc/h   |

## Complementary

|                                 |   |
|---------------------------------|---|
| Coil Technology                 | Built-in bidirectional peak limiting diode suppressor   |
| Control Circuit Voltage Limits  | Operational: 0.8...1.15 Uc (at <122 °F (50 °C))<br>Drop-out: 0.2...0.75 Uc (at <122 °F (50 °C)) |
| Inrush Power In Va              | 30 VA (at 68 °F (20 °C))  |
| Hold-In Power Consumption In Va | 4.5 VA (at 68 °F (20 °C))   |
| Heat Dissipation                | 1.3 W   |

## Environment

|                                       |   |
|---------------------------------------|---|
| Ip Degree Of Protection               | IP20 VDE 0106   |
| Protective Treatment                  | TC IEC 60068<br>TC DIN 50016  |
| Ambient Air Temperature For Operation | -13...122 °F (-25...50 °C)  |
| Ambient Air Temperature For Storage   | -58...176 °F (-50...80 °C)  |
| Operating Altitude                    | 6561.68 ft (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 axis10 Gn for 11 ms IEC 60068-2-27<br>Shocks contactor closed, on Y axis15 Gn for 11 ms IEC 60068-2-27<br>Shocks contactor closed, on Z axis15 Gn for 11 ms IEC 60068-2-27<br>Shocks contactor opened, on X axis6 Gn for 11 ms IEC 60068-2-27<br>Shocks contactor opened, on Y axis10 Gn for 11 ms IEC 60068-2-27<br>Shocks contactor opened, on Z axis10 Gn for 11 ms IEC 60068-2-27<br>Vibrations contactor closed4 Gn, 5...300 Hz IEC 60068-2-6<br>Vibrations contactor opened2 Gn, 5...300 Hz IEC 60068-2-6 |
| Height                                | 2.28 in (58 mm)   |

|            |                       |
|------------|-----------------------|
| Width      | 3.54 in (90 mm)       |
| Depth      | 2.24 in (57 mm)       |
| Net Weight | 0.84 lb(US) (0.38 kg) |

## Ordering and shipping details

|                   |                              |
|-------------------|------------------------------|
| Category          | 22327-CTR,K-LINE,AC,OPEN,REV |
| Discount Schedule | I12                          |
| Gtin              | 3389110491753                |
| Returnability     | No                           |

## Packing Units

|                              |     |
|------------------------------|-----|
| Unit Type Of Package 1       | PCE |
| Number Of Units In Package 1 | 1   |

## Contractual warranty

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