# Product data sheet

Specifications

## Contactor, TeSys K, 3P, AC-3, lt or eq to 440V 12 A, 1 NC aux., 48VAC coil

LC1K1201E7

**Product availability: Non-Stock - Not normally stocked in distribution facility**

## Main

| | |
|---|---|
| **Range** | TeSys |
| **Product or Component Type** | Contactor |
| **Device short name** | LC1K |
| **Device Application** | Control |
| **Contactor application** | Motor control<br>Resistive load |

## Complementary

| | |
|---|---|
| **Utilisation category** | AC-3<br>AC-3e<br>AC-1<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 |
| **[Ie] rated operational current** | 12 A (at <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit<br>12 A (at <140 °F (60 °C)) at <= 440 V AC AC-3e for power circuit<br>20 A (at <140 °F (60 °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 |
| **Motor power kW** | 3 kW 220...230 V AC 50/60 Hz AC-3<br>5.5 kW 380...415 V AC 50/60 Hz AC-3<br>5.5 kW 440 V AC 50/60 Hz AC-3<br>4 kW 690 V AC 50/60 Hz AC-3<br>3 kW 220...230 V AC 50/60 Hz AC-3e<br>5.5 kW 380...415 V AC 50/60 Hz AC-3e<br>5.5 kW 440 V AC 50/60 Hz AC-3e<br>4 kW 690 V AC 50/60 Hz AC-3e<br>3 kW 220...230 V AC 50/60 Hz AC-4<br>5.5 kW 380...415 V AC 50/60 Hz AC-4<br>5.5 kW 440 V AC 50/60 Hz AC-4<br>4 kW 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 thermal current** | 20 A (at 140 °F (60 °C)) for power circuit<br>10 A (at 122 °F (50 °C)) for signalling circuit |
| **Irms rated making capacity** | 144 A AC for power circuit conforming to IEC 60947<br>110 A AC for signalling circuit conforming to IEC 60947 |

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

| | |
|---|---|
| **Rated breaking capacity** | 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 |
| **[Icw] rated short-time withstand current** | 115 A 122 °F (50 °C) - 1 s for power circuit<br>105 A 122 °F (50 °C) - 5 s for power circuit<br>100 A 122 °F (50 °C) - 10 s for power circuit<br>75 A 122 °F (50 °C) - 30 s for power circuit<br>55 A 122 °F (50 °C) - 1 min for power circuit<br>50 A 122 °F (50 °C) - 3 min for power circuit<br>25 A 122 °F (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 |
| **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 |
| **Insulation resistance** | > 10 MOhm for signalling circuit |
| **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 |
| **Control circuit voltage limits** | Operational: 0.8...1.15 Uc (at <122 °F (50 °C))<br>Drop-out: >= 0.20 Uc (at <122 °F (50 °C)) |
| **Connections - terminals** | screw clamp terminals 1 0.002…0.006 in² (1.5…4 mm²)solid<br>screw clamp terminals 1 0.001…0.006 in² (0.75…4 mm²)flexible without cable end<br>screw clamp terminals 1 0.0005…0.004 in² (0.34…2.5 mm²)flexible with cable end<br>screw clamp terminals 2 0.002…0.006 in² (1.5…4 mm²)solid<br>screw clamp terminals 2 0.001…0.006 in² (0.75…4 mm²)flexible without cable end<br>screw clamp terminals 2 0.0005…0.002 in² (0.34…1.5 mm²)flexible with cable end |
| **Maximum operating rate** | 3600 cyc/h |
| **Auxiliary contacts 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 |
| **Operating time** | 10...20 ms coil de-energisation and NO opening<br>10...20 ms coil energisation and NO closing |
| **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 |
| **Non overlap distance** | 0.02 in (0.5 mm) |
| **Mechanical durability** | 10 Mcycles |
| **Electrical durability** | 1.3 Mcycles 12 A AC-3 <= 440 V<br>1.3 Mcycles 12 A AC-3e <= 440 V<br>0.3 Mcycles 20 A AC-1 <= 690 V<br>0.02 Mcycles 72 A AC-4 <= 440 V |
| **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** | 2.3 in (58 mm) |
| **Width** | 1.8 in (45 mm) |
| **Depth** | 2.2 in (57 mm) |

## 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<br>IEC 60335-1:Clause 30.2<br>IEC 60335-2-40:Annex JJ<br>UL 60335-2-40:Annex JJ |
| **Product Certifications** | CB Scheme<br>CCC<br>UL<br>CSA<br>EAC<br>CE<br>UKCA |
| **Protective treatment** | TC IEC 60068<br>TC DIN 50016 |
| **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 |

## Ordering and shipping details

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|---|---|
| **Category** | US10I1222326 |
| **Discount Schedule** | 0I12 |
| **GTIN** | 3389110858808 |
| **Returnability** | No |
| **Country of origin** | ID |

## Packing Units

| | |
|---|---|
| **Unit Type of Package 1** | PCE |
| **Number of Units in Package 1** | 1 |
| **Package 1 Height** | 2.60 in (6.600 cm) |
| **Package 1 Width** | 1.89 in (4.800 cm) |
| **Package 1 Length** | 2.44 in (6.200 cm) |
| **Package 1 Weight** | 6.349 oz (180.000 g) |
| **Unit Type of Package 2** | S02 |
| **Number of Units in Package 2** | 50 |
| **Package 2 Height** | 5.91 in (15.000 cm) |
| **Package 2 Width** | 11.81 in (30.000 cm) |
| **Package 2 Length** | 15.75 in (40.000 cm) |
| **Package 2 Weight** | 20.547 lb(US) (9.320 kg) |

## Contractual warranty

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

## 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

| | |
|---|---|
| Carbon footprint (kg CO2 eq, Total Life cycle) | 60 |
| Environmental Disclosure | Product Environmental Profile |

### Use Better

#### Materials and Substances

| | |
|---|---|
| Packaging made with recycled cardboard | Yes |
| Packaging without single use plastic | Yes |
| EU RoHS Directive | Compliant |
| REACh Regulation | REACh Declaration |
| California proposition 65 | WARNING: This product can expose you to chemicals including: Antimony oxide & Antimony trioxide, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov |

### Use Again

#### Repack and remanufacture

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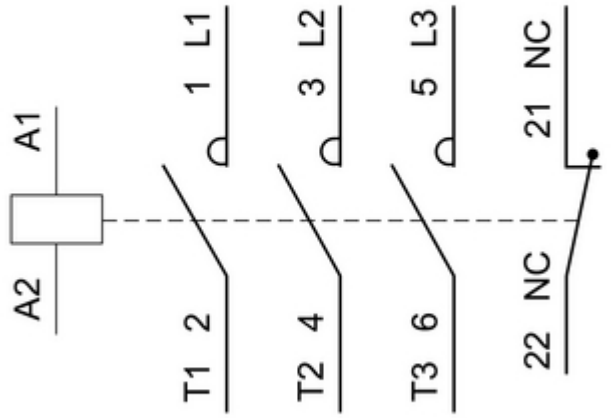
|---|---|
| Circularity Profile | End of Life Information |
| Take-back | No |
| WEEE | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins. |

Technical Illustration

**Wiring diagram**

3P NC

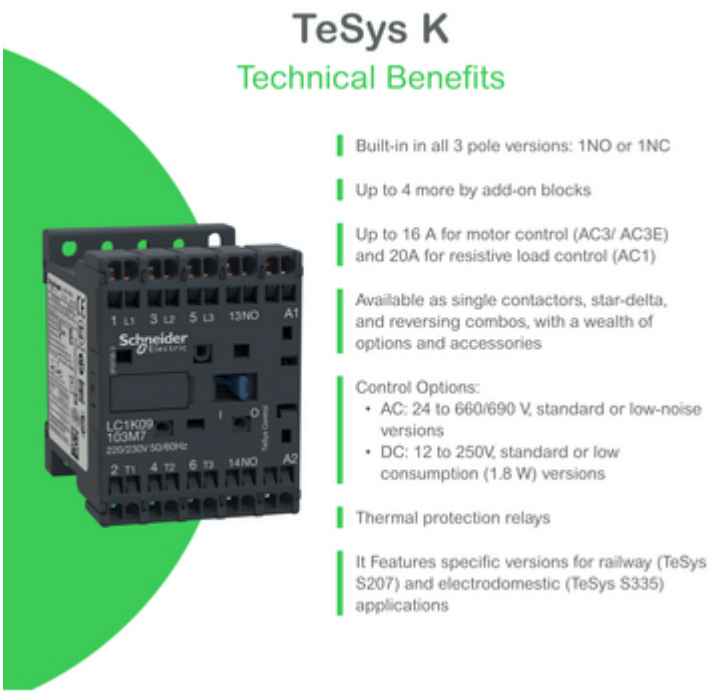


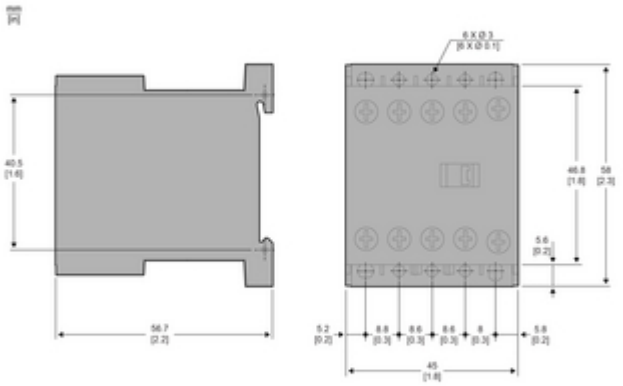
Offer Marketing Illustration

## Product benefits / Features

Offer Marketing Illustration

## Product benefits / Features



Technical Illustration

**Assembly's dimensions**