

Contactor, TeSys K, 4P(4NO), AC-1, 440V 20A, 24V AC coil

LC1K12004B7

Main

| Range | TeSys |
|---------------------------|----------------|
| Product Or Component Type | Contactor |
| Device Short Name | LC1K |
| Device Application | Control |
| Contactor Application | Resistive load |

Complementary

| Utilisation Category | AC-1 |
|--|---|
| Poles Description | 4P |
| Power Pole Contact Composition | 4 NO |
| [Ue] Rated Operational Voltage | Power circuit: <= 690 V AC <= 400 Hz Signalling circuit: <= 690 V AC <= 400 Hz |
| [le] Rated Operational Current | 20 A (at <60 °C) at <= 690 V AC AC-1 for power circuit |
| Control Circuit Type | AC at 50/60 Hz |
| [Uc] Control Circuit Voltage | 24 V AC 50/60 Hz |
| [Uimp] Rated Impulse Withstand Voltage | 8 kV |
| Overvoltage Category | III |
| [Ith] Conventional Free Air Thermal Current | 20 A (at 60 °C) for power circuit 10 A (at 50 °C) for signalling circuit |
| Irms Rated Making Capacity | 144 A AC for power circuit conforming to IEC 60947 |
| Rated Breaking Capacity | 110 A at 440 V conforming to IEC 60947 80 A at 500 V conforming to IEC 60947 70 A at 660690 V conforming to IEC 60947 |
| [Icw] Rated Short-Time Withstand Current | 115 A 50 °C - 1 s for power circuit 105 A 50 °C - 5 s for power circuit 100 A 50 °C - 10 s for power circuit 75 A 50 °C - 30 s for power circuit 55 A 50 °C - 1 min for power circuit 50 A 50 °C - 3 min for power circuit 25 A 50 °C - >= 15 min for power circuit |
| Associated Fuse Rating | 25 A gG at <= 440 V for power circuit 25 A aM for power circuit |
| Average Impedance | 3 mOhm - Ith 20 A 50 Hz for power 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 |
| Signalling Circuit Frequency | <= 400 Hz |
| Operating Time | 1020 ms coil de-energisation and NO opening 1020 ms coil energisation and NO closing |
| Safety Reliability Level | B10d = 1369863 cycles contactor with nominal load conforming to EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load conforming to EN/ISO 13849-1 |
| Mechanical Durability | 10 Mcycles |
| Electrical Durability | 0.3 Mcycles 20 A AC-1 at Ue <= 690 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 |
| Height | 58 mm |
| Width | 45 mm |
| Environment Environment | 57 mm |
| Standards | EN/IEC 60947-4-1 GB/T 14048.4 UL 60947-4-1 CSA C22.2 No 60947-4-1 JIS C8201-4-1 |
| Product Certifications | CB Scheme CCC UL CSA EAC CE |
| Protective Treatment | TC conforming to IEC 60068 TC conforming to DIN 50016 |
| 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 | 4.7 cm |
| Package 1 Width | 6.1 cm |
| | |

6.5 cm

Package 1 Length

| - | |
|------------------------------|----------|
| Package 1 Weight | 179.0 g |
| Unit Type Of Package 2 | S02 |
| Number Of Units In Package 2 | 50 |
| Package 2 Height | 15.0 cm |
| Package 2 Width | 30.0 cm |
| Package 2 Length | 40.0 cm |
| Package 2 Weight | 9.385 kg |

Contractual warranty

Warranty 18 months

Sustainability

Green PremiumTM **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-CO₂ products.

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

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Guide to assess a product's sustainability >





Transparency RoHS/REACh

Well-being performance

Reach Free Of Svhc

Toxic Heavy Metal Free

Mercury Free

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 WARNING: This product can expose you to chemicals including: Antimony oxide &California Proposition 65 Antimony trioxide, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov