

Product data sheet

Specifications



Contactor, TeSys K, 4P(4NO), AC-1, 20A, 72V DC low consumption coil

LC1KT206SLS207

Main

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

Complementary

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| 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 |
| [Ie] Rated Operational Current | 20 A (at <60 °C) at <= 690 V AC AC-1 for power circuit |
| Control Circuit Type | DC low consumption |
| [Uc] Control Circuit Voltage | 72 V DC |
| [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 | 110 A AC for power circuit conforming to IEC 60947 |
| Rated Breaking Capacity | 110 A at 220...230 V conforming to IEC 60947 110 A at 380...400 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 |
| [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 |
| Associated Fuse Rating | 25 A gG at <= 440 V 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 |

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

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| [Ui] Rated Insulation Voltage | 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 Power circuit: 750 V conforming to VDE 0110 group C Power circuit: 690 V conforming to BS 5424 Power circuit: 690 V conforming to NF C 20-040 |
| Inrush Power In W | 1.8 W (at 20 °C) |
| Hold-In Power Consumption In W | 1.8 W at 20 °C |
| Heat Dissipation | 1.8 W |
| Control Circuit Voltage Limits | Operational: 0.7...1.3 Uc (at <50 °C) Drop-out: >= 0.10 Uc (at <50 °C) |
| Connections - Terminals | Power circuit: lugs-ring terminals (external diameter: 7 mm) |
| Maximum Operating Rate | 3600 cyc/h |
| Coil Technology | With integral suppression device |
| Mounting Support | Rail Plate |
| Tightening Torque | Power circuit: 0.8...1.3 N.m - on lugs-ring terminals - with screwdriver 3.2 mm flat Ø 6 mm Power circuit: 0.8...1.3 N.m - on lugs-ring terminals - with screwdriver 3.2 mm Philips No 2 Power circuit: 0.8...1.3 N.m - on lugs-ring terminals pozidriv No 2 |
| Operating Time | 10...20 ms coil de-energisation and NO opening 30...40 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 | 30 Mcycles |
| Electrical Durability | 0.18 Mcycles 20 A AC-1 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, 5...300 Hz conforming to IEC 60068-2-6 Vibrations contactor opened: 2 Gn, 5...300 Hz conforming to IEC 60068-2-6 |
| Height | 58 mm |
| Width | 45 mm |
| Depth | 57 mm |
| Net Weight | 0.235 kg |

Environment

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| Standards | BS 5424 IEC 60947 NF C 63-110 VDE 0660 IEC 60077-1 IEC 60077-2 EN 45545: R22 HL3 EN/IEC 60947-4-1 EN/IEC 60947-5-1 UL 60947-4-1 CSA C22.2 No 60947-4-1 |
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| Product Certifications | CB Scheme CCC UL CSA EAC CE UKCA |
| Ip Degree Of Protection | IP20 conforming to VDE 0106 |
| Protective Treatment | TC conforming to IEC 60068 TC conforming to DIN 50016 |
| Ambient Air Temperature For Storage | -50...80 °C |
| Permissible Ambient Air Temperature Around The Device | -40...70 °C at Uc |
| Operating Altitude | 2000 m without derating |
| Flame Retardance | V0 conforming to UL 94 |

Packing Units

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|------------------------------|---------|
| Unit Type Of Package 1 | PCE |
| Number Of Units In Package 1 | 1 |
| Package 1 Height | 5.7 cm |
| Package 1 Width | 4.8 cm |
| Package 1 Length | 6.2 cm |
| Package 1 Weight | 240.0 g |

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-CO₂ 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

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

Certifications & Standards

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|--------------------------|---|
| 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 |