

Product data sheet

Specifications



Contactor, TeSys K, 3P, AC-3, It or eq to 440V 12 A, 1 NC aux., 230 to 240VAC coil

LC1K1201U72

⚠ Discontinued

Main

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|--------------------------------|---|
| Range Of Product | TeSys K |
| Range | TeSys |
| Product Name | TeSys K |
| Device Application | Control |
| Product Or Component Type | Contactor |
| Device Short Name | LC1K |
| Utilisation Category | AC-1 AC-3 AC-4 |
| Coil Technology | Built-in bidirectional peak limiting diode suppressor |
| Poles Description | 3P |
| Pole Contact Composition | 3 NO |
| [Ie] Rated Operational Current | 20 A (at <122 °F (50 °C)) at <= 440 V AC AC-1 for power circuit 12 A at <= 440 V AC AC-3 for power circuit 16 A (at <158 °F (70 °C)) at 690 V AC AC-1 for power circuit |
| [Uc] Control Circuit Voltage | Instantaneous 1 NC |
| Signalling Circuit Frequency | <= 400 Hz |
| Non Overlap Distance | 0.02 in (0.5 mm) |

Complementary

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| Contactor Application | Resistive load Motor control |
| Auxiliary Contact Composition | 1 NC |
| Control Circuit Voltage Limits | Operational: 0.85...1.1 Uc (at <122 °F (50 °C)) Drop-out: 0.2...0.75 Uc (at <122 °F (50 °C)) |
| Control Circuit Type | AC 50/60 Hz |
| [Uc] Control Circuit Voltage | 230...240 V AC 50/60 Hz |
| Connections - Terminals | screw clamp terminals 1 0.00...0.01 in² (1.5...4 mm²)solid screw clamp terminals 1 0.00...0.01 in² (0.75...4 mm²)flexible without cable end screw clamp terminals 1 0.00...0.00 in² (0.34...2.5 mm²)flexible with cable end screw clamp terminals 2 0.00...0.01 in² (1.5...4 mm²)solid screw clamp terminals 2 0.00...0.01 in² (0.75...4 mm²)flexible without cable end screw clamp terminals 2 0.00...0.00 in² (0.34...1.5 mm²)flexible with cable end |
| Electrical Durability | 0.3 Mcycles 20 A AC-1 <= 440 V 1.3 Mcycles 12 A AC-3 <= 440 V |

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

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| Mechanical Robustness | Shocks contactor closed, on X axis10 Gn for 11 ms IEC 60068-2-27 Shocks contactor closed, on Y axis15 Gn for 11 ms IEC 60068-2-27 Shocks contactor closed, on Z axis15 Gn for 11 ms IEC 60068-2-27 Shocks contactor opened, on X axis6 Gn for 11 ms IEC 60068-2-27 Shocks contactor opened, on Y axis10 Gn for 11 ms IEC 60068-2-27 Shocks contactor opened, on Z axis10 Gn for 11 ms IEC 60068-2-27 Vibrations contactor closed4 Gn, 5...300 Hz IEC 60068-2-6 Vibrations contactor opened2 Gn, 5...300 Hz IEC 60068-2-6 |
| 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 |
| Ip Degree Of Protection | IP2X VDE 0106 |
| Protective Treatment | TC IEC 60068 TC DIN 50016 |
| [Ui] Rated Insulation Voltage | Power circuit 600 V UL 508 Power circuit 690 V IEC 60947-4-1 Signalling circuit 690 V IEC 60947-4-1 Signalling circuit 690 V IEC 60947-5-1 Signalling circuit 600 V UL 508 Power circuit 600 V CSA C22.2 No 14 Signalling circuit 600 V CSA C22.2 No 14 |
| [Uimp] Rated Impulse Withstand Voltage | 8 kV |
| Overvoltage Category | III |
| Mounting Support | Plate Rail |
| Product Certifications | CB Scheme CCC UL CSA EAC CE UKCA |
| Ambient Air Temperature For Storage | -58...176 °F (-50...80 °C) |
| Operating Altitude | 6561.68 ft (2000 m) without derating |
| Tightening Torque | 11.51 lbf.in (1.3 N.m) screw clamp terminals Philips No 2 11.51 lbf.in (1.3 N.m) screw clamp terminals flat Ø 6 mm |
| [Ue] Rated Operational Voltage | Power circuit 690 V AC 50/60 Hz Signalling circuit <= 690 V AC 50/60 Hz |
| [Ith] Conventional Free Air Thermal Current | 20 A (at 122 °F (50 °C)) for power circuit 10 A (at 122 °F (50 °C)) for signalling circuit |
| Irms Rated Making Capacity | 110 A AC for signalling circuit conforming to IEC 60947 144 A AC for power circuit conforming to NF C 63-110 144 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 660...690 V conforming to IEC 60947 |
| Associated Fuse Rating | 25 A gG at <= 440 V for power circuit 25 A aM 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 |
| 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)) |
| Operating Time | 10...20 ms coil de-energisation and NO opening 10...20 ms coil energisation and NO closing |

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| Safety Reliability Level | B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1 |
| Mechanical Durability | 10 Mcycles |
| Maximum Operating Rate | 3600 cyc/h |
| Minimum Switching Current | 5 mA for signalling circuit |
| Minimum Switching Voltage | 17 V for signalling circuit |
| Insulation Resistance | > 10 MOhm for signalling circuit |
| Height | 2.28 in (58 mm) |
| Width | 1.77 in (45 mm) |
| Depth | 2.24 in (57 mm) |
| Net Weight | 0.40 lb(US) (0.18 kg) |
| Compatibility Code | LC1K |

Environment

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| Motor Power Kw | 4 kW 480 V AC 50/60 Hz 4 kW 500...600 V AC 50/60 Hz 4 kW 660...690 V AC 50/60 Hz 3 kW 220...230 V AC 50/60 Hz 5.5 kW 380...415 V AC 50/60 Hz 5.5 kW 440 V AC 50/60 Hz |
| [Icw] Rated Short-Time Withstand Current | 115 A 122 °F (50 °C) - 1 s for power circuit 105 A 122 °F (50 °C) - 5 s for power circuit 100 A 122 °F (50 °C) - 10 s for power circuit 75 A 122 °F (50 °C) - 30 s for power circuit 55 A 122 °F (50 °C) - 1 min for power circuit 50 A 122 °F (50 °C) - 3 min for power circuit 80 A - 1 s for signalling circuit 90 A - 500 ms for signalling circuit 110 A - 100 ms for signalling circuit 25 A 122 °F (50 °C) - >= 15 min for power circuit |
| Heat Dissipation | 1.3 W |
| Flame Retardance | V1 conforming to UL 94 Requirement 2 conforming to NF F 16-101 Requirement 2 conforming to NF F 16-102 |

Ordering and shipping details

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| Category | 22326-CTR,K-LINE,AC,OPEN,NONREV |
| Discount Schedule | I12 |
| Gtin | 3389118013162 |
| Returnability | No |
| Country Of Origin | FR |

Packing Units

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

Contractual warranty

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| Warranty | 18 months |
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