



Main

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| Range | TeSys |
| Product or Component Type | Contacteur |
| Product name | TeSys K |
| Device short name | LC1K |
| Device Application | Control |
| Contacteur application | Motor control Resistive load |

Complementary

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| Utilisation category | AC-1 AC-4 AC-3 |
| Poles description | 3P |
| Power pole contact composition | 3 NO |
| [Ue] rated operational voltage | Power circuit 690 V AC 50/60 Hz Signalling circuit <= 690 V AC 50/60 Hz |
| [Ie] rated operational current | 20 A 122 °F (50 °C) <= 440 V AC AC-1 power circuit 12 A <= 440 V AC AC-3 power circuit 16 A 158 °F (70 °C) 690 V AC AC-1 power circuit |
| Control circuit type | AC 50/60 Hz |
| [Uc] control circuit voltage | 24 V AC 50/60 Hz |
| Motor power kW | 4 KW 480 V AC 50/60 Hz AC-3 4 KW 500...600 V AC 50/60 Hz AC-3 4 KW 660...690 V AC 50/60 Hz AC-3 2.2 KW 400 V AC 50/60 Hz AC-4 3 KW 220...230 V AC 50/60 Hz AC-3 5.5 KW 380...415 V AC 50/60 Hz AC-3 5.5 KW 440 V AC 50/60 Hz AC-3 |
| Auxiliary contact composition | 1 NO |
| [Uimp] rated impulse withstand voltage | 8 kV |
| Overtoltage category | III |
| [Ith] conventional free air thermal current | 20 A 122 °F (50 °C) power circuit 10 A 122 °F (50 °C) signalling circuit |
| Irms rated making capacity | 110 A AC signalling circuit IEC 60947 144 A AC power circuit NF C 63-110 144 A AC power circuit IEC 60947 |
| Rated breaking capacity | 110 A 440 V IEC 60947 80 A 500 V IEC 60947 70 A 660...690 V IEC 60947 |
| [Icw] rated short-time withstand current | 115 A 122 °F (50 °C) - 1 s power circuit 105 A 122 °F (50 °C) - 5 s power circuit 100 A 122 °F (50 °C) - 10 s power circuit 75 A 122 °F (50 °C) - 30 s power circuit 55 A 122 °F (50 °C) - 1 min power circuit 50 A 122 °F (50 °C) - 3 min power circuit 80 A - 1 s signalling circuit 90 A - 500 ms signalling circuit 110 A - 100 ms signalling circuit 25 A 122 °F (50 °C) - >= 15 min power circuit |

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| Associated fuse rating | 25 A gG <= 440 V power circuit 25 A aM power circuit 10 A gG signalling circuit IEC 60947 10 A gG signalling circuit VDE 0660 |
| Average impedance | 3 mOhm - lth 20 A 50 Hz power circuit |
| [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 |
| Insulation resistance | > 10 MOhm signalling circuit |
| Inrush power in VA | 30 VA 68 °F (20 °C)) |
| Hold-in power consumption in VA | 4.5 VA 68 °F (20 °C)) |
| Heat dissipation | 1.3 W |
| Control circuit voltage limits | Operational 0.8...1.15 Uc 122 °F (50 °C)) Drop-out 0.2...0.75 Uc 122 °F (50 °C)) |
| Connections - terminals | Screw clamp terminals 2 0.01 in ² (4 mm ²)solid Screw clamp terminals 2 0.01 in ² (4 mm ²)flexible without cable end Screw clamp terminals 2 0.00 in ² (1.5 mm ²)flexible with cable end |
| Maximum operating rate | 3600 cyc/h |
| Auxiliary contacts type | Instantaneous 1 NO |
| Signalling circuit frequency | <= 400 Hz |
| Minimum switching current | 5 mA signalling circuit |
| Minimum switching voltage | 17 V signalling circuit |
| Mounting Support | Plate Rail |
| 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 11.51 lbf.in (1.3 N.m) screw clamp terminals pozidriv No 2 |
| Operating time | 10...20 ms coil de-energisation and NO opening 10...20 ms coil energisation and NO closing |
| 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 |
| Non overlap distance | 0.02 in (0.5 mm) |
| Mechanical durability | 10 Mcycles |
| Electrical durability | 0.3 Mcycles 20 A AC-1 <= 440 V 1.3 Mcycles 12 A AC-3 <= 440 V |
| 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 |
| 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) |

Environment

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| Standards | BS 5424 IEC 60947 NF C 63-110 VDE 0660 |
| Product Certifications | CSA UL UKCA |
| IP degree of protection | IP2x VDE 0106 |
| Protective treatment | TC IEC 60068 TC DIN 50016 |
| Ambient Air Temperature for Storage | -58...176 °F (-50...80 °C) |

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| Operating altitude | 6561.68 ft (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 |

Ordering and shipping details

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| Category | 22326-CTR,K-LINE,AC,OPEN,NONREV |
| Discount Schedule | I12 |
| GTIN | 3389110789744 |
| Nbr. of units in pkg. | 1 |
| Package weight(Lbs) | 6.32 oz (179.3 g) |
| Returnability | Yes |
| Country of origin | ID |

Packing Units

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| Unit Type of Package 1 | PCE |
| Package 1 Height | 1.97 in (5 cm) |
| Package 1 width | 2.36 in (6 cm) |
| Package 1 Length | 2.56 in (6.5 cm) |
| Unit Type of Package 2 | S02 |
| Number of Units in Package 2 | 50 |
| Package 2 Weight | 20.28 lb(US) (9.198 kg) |
| Package 2 Height | 5.91 in (15 cm) |
| Package 2 width | 11.81 in (30 cm) |
| Package 2 Length | 15.75 in (40 cm) |
| Unit Type of Package 3 | P06 |
| Number of Units in Package 3 | 800 |
| Package 3 Weight | 342.09 lb(US) (155.168 kg) |
| Package 3 Height | 29.53 in (75 cm) |
| Package 3 width | 31.50 in (80 cm) |
| Package 3 Length | 23.62 in (60 cm) |

Offer Sustainability

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| Sustainable offer status | Green Premium product |
| 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 |
| REACH Regulation | REACH Declaration |
| REACH free of SVHC | Yes |
| EU RoHS Directive | Compliant EU RoHS Declaration |
| Toxic heavy metal free | Yes |
| Mercury free | Yes |
| RoHS exemption information | Yes |
| China RoHS Regulation | China RoHS Declaration |
| Environmental Disclosure | Product Environmental Profile |
| Circularity Profile | End Of Life Information |
| WEEE | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins. |

Contractual warranty

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| Warranty | 18 months |
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