





Main

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| Range | TeSys |
| Product name | TeSys K |
| Product or Component Type | Changeover contactor |
| Device short name | LC2K |
| Device Application | Control |
| Contactors application | Resistive load |
| Utilisation category | AC-1 |
| Device presentation | Preassembled with reversing power busbar |
| Poles description | 4P |
| Power pole contact composition | 4 NO |
| [Ue] rated operational voltage | Power circuit 690 V AC 50/60 Hz |
| [Ie] rated operational current | 20 A 122 °F (50 °C)) <= 440 V AC AC-1 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 | 120 V AC 50/60 Hz |
| [Uimp] rated impulse withstand voltage | 8 kV |
| Overtoltage category | III |
| [Ith] conventional free air thermal current | 20 A 122 °F (50 °C) power circuit |
| Irms rated making capacity | 110 A AC power circuit NF C 63-110 110 A AC power circuit IEC 60947 |
| Rated breaking capacity | 110 A 415 V IEC 60947 110 A 440 V IEC 60947 80 A 500 V IEC 60947 110 A 220...230 V IEC 60947 110 A 380...400 V IEC 60947 70 A 660...690 V IEC 60947 |
| [Icw] rated short-time withstand current | 90 A 122 °F (50 °C) - 1 s power circuit 85 A 122 °F (50 °C) - 5 s power circuit 80 A 122 °F (50 °C) - 10 s power circuit 60 A 122 °F (50 °C) - 30 s power circuit 45 A 122 °F (50 °C) - 1 min power circuit 40 A 122 °F (50 °C) - 3 min power circuit 20 A 122 °F (50 °C) - >= 15 min power circuit |
| Associated fuse rating | 25 A gG <= 440 V power circuit 25 A aM power circuit |
| Average impedance | 3 mOhm - Ith 20 A 50 Hz power circuit |
| [Ui] rated insulation voltage | Power circuit 600 V UL 508 Power circuit 690 V IEC 60947-4-1 Power circuit 600 V CSA C22.2 No 14 |
| Electrical durability | 0.18 Mcycles 20 A AC-1 <= 440 V |
| Interlocking type | Mechanical |
| Mounting Support | Rail Plate |
| Standards | BS 5424 IEC 60947 NF C 63-110 VDE 0660 |
| Product Certifications | UL CSA |

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| Connections - terminals | Screw clamp terminals 1 0.00...0.01 in ² (1.5... 4 mm ²)solid Screw clamp terminals 1 0.00...0.01 in ² (0.75... 4 mm ²)flexible without cable end Screw clamp terminals 1 0.00...0.00 in ² (0.34... 2.5 mm ²)flexible with cable end Screw clamp terminals 2 0.00...0.01 in ² (1.5... 4 mm ²)solid Screw clamp terminals 2 0.00...0.01 in ² (0.75... 4 mm ²)flexible without cable end Screw clamp terminals 2 0.00...0.00 in ² (0.34... 1.5 mm ²)flexible with cable end |
| 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 energisation and NO closing 10...20 ms coil de-energisation and NO opening |
| 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 | 5 Mcycles |
| Maximum operating rate | 3600 cyc/h |

Complementary

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|---------------------------------|---|
| 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)) |
| 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 |

Environment

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|---------------------------------------|---|
| IP degree of protection | IP20 VDE 0106 |
| Protective treatment | TC IEC 60068 TC DIN 50016 |
| Ambient Air Temperature for Operation | -13...122 °F (-25...50 °C) |
| Ambient Air Temperature for Storage | -58...176 °F (-50...80 °C) |
| 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 |
| 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 | 3.54 in (90 mm) |
| Depth | 2.24 in (57 mm) |
| Net Weight | 0.84 lb(US) (0.38 kg) |

Ordering and shipping details

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|-----------------------|------------------------------|
| Category | 22327-CTR,K-LINE,AC,OPEN,REV |
| Discount Schedule | I12 |
| GTIN | 3389110218473 |
| Nbr. of units in pkg. | 1 |
| Package weight(Lbs) | 12.98 oz (368.0 g) |
| Returnability | No |
| Country of origin | FR |

Packing Units

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|------------------------|------------------|
| Unit Type of Package 1 | PCE |
| Package 1 Height | 2.56 in (6.5 cm) |
| Package 1 width | 3.62 in (9.2 cm) |
| Package 1 Length | 2.36 in (6 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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