



Main

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| Range | TeSys |
| Product name | TeSys K |
| Product or component type | Reversing contactor |
| Device short name | LP2K |
| Device application | Control |
| Contactors application | Resistive load Motor control |
| Utilisation category | AC-3 AC-4 AC-1 |
| Device presentation | Preassembled with reversing power busbar |
| Poles description | 3P |
| Power pole contact composition | 3 NO |
| [Ue] rated operational voltage | Power circuit 690 V AC 50/60 Hz Signalling circuit \leq 690 V AC 50/60 Hz |
| [Ie] rated operational current | 20 A 122 °F (50 °C) \leq 440 V AC AC-1 power circuit 16 A 158 °F (70 °C) 690 V AC AC-1 power circuit 12 A \leq 440 V AC AC-3 power circuit |
| 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 |
| Control circuit type | DC standard |
| [Uc] control circuit voltage | 24 V DC |
| Auxiliary contact composition | 1 NO |
| [Uimp] rated impulse withstand voltage | 8 kV |
| Overtension category | III |

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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| [I _{th}] conventional free air thermal current | 20 A 122 °F (50 °C) power circuit 10 A 122 °F (50 °C) signalling circuit |
| I _{rms} 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 |
| [I _{cw}] 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 |
| 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 - I _{th} 20 A 50 Hz power circuit |
| [U _i] 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 |
| Electrical durability | 0.3 Mcycles 20 A AC-1 <= 440 V 1.3 Mcycles 12 A AC-3 <= 440 V |
| Interlocking type | Mechanical |
| Mounting support | Plate Rail |
| Standards | NF C 63-110 IEC 60947 VDE 0660 BS 5424 |
| Product certifications | UL CSA |
| 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 |
| Operating time | 30...40 ms coil energisation and NO closing 10 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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|--------------------------------|---|
| Coil technology | Built-in bidirectional peak limiting diode suppressor |
| Control circuit voltage limits | Operational 0.8...1.15 U _c 122 °F (50 °C)) Drop-out 0.1...0.75 U _c 122 °F (50 °C)) |
| Inrush power in W | 3 W 68 °F (20 °C)) |
| Hold-in power consumption in W | 3 W 68 °F (20 °C) |
| Heat dissipation | 3 W |
| Auxiliary contacts type | Instantaneous 1 NO |

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| Minimum switching current | 5 mA signalling circuit |
| Minimum switching voltage | 17 V signalling circuit |
| Non overlap distance | 0.02 in (0.5 mm) |
| Insulation resistance | > 10 MOhm signalling circuit |

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 |
| Flame retardance | V1 UL 94 Requirement 2 NF F 16-101 Requirement 2 NF F 16-102 |
| Mechanical robustness | Shocks contactor closed, on Z axis15 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 Shocks contactor opened, on X axis10 Gn for 11 ms IEC 60068-2-27 Shocks contactor opened, on Y axis6 Gn for 11 ms IEC 60068-2-27 Shocks contactor closed, on X axis15 Gn for 11 ms IEC 60068-2-27 Shocks contactor closed, on Y axis10 Gn for 11 ms IEC 60068-2-27 |
| Height | 2.28 in (58 mm) |
| Width | 3.54 in (90 mm) |
| Depth | 2.24 in (57 mm) |
| Net weight | 1.06 lb(US) (0.48 kg) |

Ordering and shipping details

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| Category | 22322 - CTR,K-LINE,DC,OPEN,REV |
| Discount Schedule | 112 |
| GTIN | 00785901668428 |
| Returnability | No |
| Country of origin | FR |

Offer Sustainability

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| Sustainable offer status | Green Premium product |
| REACH Regulation | REACH Declaration |
| REACH free of SVHC | Yes |
| EU RoHS Directive | Compliant EU RoHS Declaration |
| Mercury free | Yes |
| RoHS exemption information | Yes |
| China RoHS Regulation | China RoHS declaration Product out of China RoHS scope. Substance declaration for your information. |
| 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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