



Main

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| Range of product | TeSys K |
| Range | TeSys |
| Product or component type | Contacteur |
| Device short name | LP1K |
| Contacteur application | Resistive load Motor control |
| Utilisation category | AC-1 AC-4 AC-3 |
| Poles description | 3P |
| Pole contact composition | 3 NO |
| [Ie] rated operational current | 20 A (at $\leq 50\text{ }^\circ\text{C}$) at $\leq 440\text{ V AC}$ AC-1 for power circuit 9 A at $\leq 440\text{ V AC}$ AC-3 for power circuit 16 A (at $\leq 70\text{ }^\circ\text{C}$) at 690 V AC AC-1 for power circuit |
| Auxiliary contact composition | 1 NC |

Complementary

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| Auxiliary contacts type | Type instantaneous 1 NC |
| Control circuit voltage limits | Operational: $0.8...1.15\text{ }U_c$ (at $\leq 50\text{ }^\circ\text{C}$) Drop-out: $0.1...0.75\text{ }U_c$ (at $\leq 50\text{ }^\circ\text{C}$) |
| [Ui] rated insulation voltage | Power circuit: 600 V conforming to UL 508 Power circuit: 690 V conforming to IEC 60947-4-1 Signalling circuit: 690 V conforming to IEC 60947-5-1 Signalling circuit: 690 V conforming to IEC 60947-5-1 Signalling circuit: 600 V conforming to UL 508 Power circuit: 600 V conforming to CSA C22.2 No 14 Signalling circuit: 600 V conforming to CSA C22.2 No 14 |
| [Uimp] rated impulse withstand voltage | 8 KV |
| Overvoltage category | III |
| Mounting support | Rail Plate |
| Flame retardance | V1 conforming to UL 94 Requirement 2 conforming to NF F 16-101 Requirement 2 conforming to NF F 16-102 |
| Tightening torque | 1.3 N.M - on screw clamp terminals - with screwdriver Philips No 2 1.3 N.M - on screw clamp terminals - with screwdriver flat \varnothing 6 mm |
| [Ue] rated operational voltage | Power circuit: 690 V AC 50/60 Hz Signalling circuit: $\leq 690\text{ V AC}$ 50/60 Hz |
| [Ith] conventional free air thermal current | 20 A (at $50\text{ }^\circ\text{C}$) for power circuit 10 A (at $50\text{ }^\circ\text{C}$) for signalling circuit |
| Irms rated making capacity | 110 A AC for power circuit conforming to NF C 63-110 110 A AC for power circuit conforming to IEC 60947 110 A AC for signalling circuit conforming to IEC 60947 |

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| Rated breaking capacity | 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 110 A at 220...230 V conforming to IEC 60947 110 A at 380...400 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 - lth 20 A 50 Hz for power circuit |
| Inrush power in W | 3 W (at 20 °C) |
| Hold-in power consumption in W | 3 W at 20 °C |
| 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 conforming- to EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load conforming- to 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 | 58 Mm |
| Width | 45 Mm |
| Depth | 57 Mm |
| Net weight | 0.225 Kg |

Environment

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| Product certifications | UL CSA |
| Ambient air temperature for operation | -25...50 °C |
| Ambient air temperature for storage | -50...80 °C |
| Operating altitude | 2000 m without |

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 |
| 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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Product Life Status : **Commercialised**