

Product datasheet

Specifications



TeSys K changeover contactor , 4P , AC,1 <= 440 V 20 A , 250 V DC coil

LP2K12004UD3

! Discontinued

Main

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|---|---|
| Range | TeSys |
| Product name | TeSys K |
| Product or component type | Changeover contactor |
| Device short name | LP2K |
| Device application | Control |
| Contactor 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 (at <50 °C) at <= 440 V AC AC-1 for power circuit 16 A (at <70 °C) at 690 V AC AC-1 for power circuit |
| Control circuit type | DC standard |
| [Uc] control circuit voltage | 250 V DC |
| [Uimp] rated impulse withstand voltage | 8 kV |
| Oversvoltage category | III |
| [Ith] conventional free air thermal current | 20 A (at 50 °C) for power circuit |
| Irms rated making capacity | 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 |
| [Icw] rated short-time withstand current | 115 A 50 °C - 1 s for power circuit 105 A 50 °C - 5 s for power circuit 100 A 50 °C - 10 s for power circuit 75 A 50 °C - 30 s for power circuit 55 A 50 °C - 1 min for power circuit 50 A 50 °C - 3 min for power circuit 25 A 50 °C - >= 15 min for power circuit |
| Associated fuse rating | 25 A gG at <= 440 V for power circuit 25 A aM for power circuit |
| Average impedance | 3 mOhm - Ith 20 A 50 Hz for power circuit |
| [Ui] rated insulation voltage | Power circuit: 600 V conforming to UL 508 Power circuit: 690 V conforming to IEC 60947-4-1 Power circuit: 600 V conforming to CSA C22.2 No 14 |

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| Electrical durability | 0.3 Mcycles 20 A AC-1 at $U_e \leq 440$ V |
| Interlocking type | Mechanical |
| Mounting support | Rail Plate |
| Standards | BS 5424 VDE 0660 IEC 60947 NF C 63-110 |
| Product certifications | CB Scheme CCC UL CSA EAC CE UKCA |
| Connections - terminals | Screw clamp terminals 1 cable(s) 1.5...4 mm ² solid Screw clamp terminals 1 cable(s) 0.75...4 mm ² flexible without cable end Screw clamp terminals 1 cable(s) 0.34...2.5 mm ² flexible with cable end Screw clamp terminals 2 cable(s) 1.5...4 mm ² solid Screw clamp terminals 2 cable(s) 0.75...4 mm ² flexible without cable end Screw clamp terminals 2 cable(s) 0.34...1.5 mm ² flexible with cable end |
| 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 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 conforming to EN/ISO 13849-1 B10d = 2000000 cycles contactor with mechanical load conforming to 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 (at <50 °C) Drop-out: 0.1...0.75 U_c (at <50 °C) |
| Inrush power in W | 3 W (at 20 °C) |
| Hold-in power consumption in W | 3 W at 20 °C |
| Heat dissipation | 3 W |

Environment

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| IP degree of protection | IP20 conforming to VDE 0106 |
| Protective treatment | TC conforming to IEC 60068 TC conforming to DIN 50016 |
| Ambient air temperature for operation | -25...50 °C |
| Ambient air temperature for storage | -50...80 °C |
| Operating altitude | 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 |

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| Mechanical robustness | Shocks contactor closed, on Z axis: 15 Gn for 11 ms conforming to IEC 60068-2-27 Shocks contactor opened, on Z axis: 10 Gn for 11 ms conforming to IEC 60068-2-27 Vibrations contactor closed: 4 Gn, 5...300 Hz conforming to IEC 60068-2-6 Vibrations contactor opened: 2 Gn, 5...300 Hz conforming to IEC 60068-2-6 Shocks contactor opened, on X axis: 10 Gn for 11 ms conforming to IEC 60068-2-27 Shocks contactor opened, on Y axis: 6 Gn for 11 ms conforming to IEC 60068-2-27 Shocks contactor closed, on X axis: 15 Gn for 11 ms conforming to IEC 60068-2-27 Shocks contactor closed, on Y axis: 10 Gn for 11 ms conforming to IEC 60068-2-27 |
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| Height | 58 mm |
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| Width | 90 mm |
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| Depth | 57 mm |
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| Product weight | 0.48 kg |
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Packing Units

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| Unit Type of Package 1 | PCE |
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| Number of Units in Package 1 | 1 |
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Contractual warranty

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| Warranty (in months) | 18 |
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Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

Use Longer



Lifetime extension

Repair

No