Product data sheet Characteristics

LP2K0901BD

TeSys K reversing contactor - 3P - AC-3 <= 440 V 9 A - 1 NC - 24 V DC coil



Local distributor code: 386285905 EAN Code: 3389110428537



Main

| Range | TeSys | |
|---|---|--|
| Product name | TeSys K | |
| Product or component type | Reversing contactor | |
| Device short name | LP2K | |
| Device application | Control | |
| Contactor application | Motor control Resistive load | |
| Utilisation category | AC-4 AC-3 AC-1 | |
| Device presentation | Preassembled with reversing power busbar | |
| Poles description | 3P | |
| 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 | |
| [le] 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 9 A at <= 440 V AC AC-3 for power circuit | |
| Motor power kW | 2.2 KW at 220230 V AC 50/60 Hz 4 KW at 380415 V AC 50/60 Hz 4 KW at 440 V AC 50/60 Hz 4 KW at 480 V AC 50/60 Hz 4 KW at 500600 V AC 50/60 Hz 4 KW at 660690 V AC 50/60 Hz | |
| Control circuit type | DC standard | |
| [Uc] control circuit voltage | 24 V DC | |
| Auxiliary contact composition | 1 NC | |
| [Uimp] rated impulse withstand voltage | 8 KV | |
| Overvoltage category | III | |
| [Ith] conventional free air thermal current | 20 A (at 50 °C) for power circuit 10 A (at 50 °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 | |

| | to EN/ISO 13849-1 |
|--|---|
| Salety reliability level | to EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load conforming- |
| Safety reliability level | 10 ms coil de-energisation and NO opening B10d = 1369863 cycles contactor with nominal load conforming- |
| Operating time | 3040 ms coil energisation and NO closing |
| 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 1.3 N.M - on screw clamp terminals - with screwdriver pozidriv No 2 |
| | Screw clamp terminals 2 cable(s) 1.54 mm²solid Screw clamp terminals 2 cable(s) 0.754 mm²flexible without cable end Screw clamp terminals 2 cable(s) 0.341.5 mm²flexible with cable end |
| Connections - terminals | Screw clamp terminals 1 cable(s) 1.54 mm²solid Screw clamp terminals 1 cable(s) 0.754 mm²flexible without cable end Screw clamp terminals 1 cable(s) 0.342.5 mm²flexible with cable end |
| | CSA UKCA |
| Product certifications | IEC 60947 UL |
| Standards | VDE 0660 BS 5424 NF C 63-110 |
| Mounting support | Plate Rail |
| Interlocking type | Mechanical |
| Electrical durability | 0.18 Mcycles 20 A AC-1 at Ue <= 440 V 1.3 Mcycles 9 A AC-3 at Ue <= 440 V |
| | Signalling circuit: 690 V conforming to IEC 60947-4-1 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 |
| [Ui] rated insulation voltage | Power circuit: 600 V conforming to UL 508 Power circuit: 690 V conforming to IEC 60947-4-1 |
| Average impedance | 3 MOhm - Ith 20 A 50 Hz 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 |
| Associated fuse rating | 20 A 50 °C - >= 15 min for power circuit 25 A gG at <= 440 V for power circuit |
| | 90 A - 100 ms for signalling circuit 110 A - 100 ms for signalling circuit |
| | 40 A 50 °C - 3 min for power circuit 80 A - 1 s for signalling circuit |
| | 60 A 50 °C - 30 s for power circuit 45 A 50 °C - 1 min for power circuit |
| | 85 A 50 °C - 5 s for power circuit 80 A 50 °C - 10 s for power circuit |
| [lcw] rated short-time withstand current | 90 A 50 °C - 1 s for power circuit |
| | 110 A at 380400 V conforming to IEC 60947 70 A at 660690 V conforming to IEC 60947 |
| | 110 A at 220230 V conforming to IEC 60947 |
| | 110 A at 440 V conforming to IEC 60947 80 A at 500 V conforming to IEC 60947 |

Complementary

| Control circuit voltage limits | Operational: 0.81.15 Uc (at <50 °C) Drop-out: 0.10.75 Uc (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 | |
| Auxiliary contacts type | Type instantaneous 1 NC | |
| Minimum switching current | 5 MA for signalling circuit | |
| Minimum switching voltage | 17 V for signalling circuit | |
| Non overlap distance | 0.5 Mm | |
| Insulation resistance | > 10 MOhm for signalling circuit | |

Environment

| 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 | -2550 °C |
| Ambient air temperature for storage | -5080 °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 |
| 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, 5300 Hz conforming to IEC 60068-2-6 Vibrations contactor opened: 2 Gn, 5300 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 |
| Height | 58 Mm |
| Width | 90 Mm |
| Depth | 57 Mm |
| Net weight | 0.48 Kg |
| | |

Packing Units

| 0 | |
|------------------------------|----------|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Weight | 447.0 G |
| Package 1 Height | 6.0 Cm |
| Package 1 width | 6.5 Cm |
| Package 1 Length | 9.2 Cm |
| Unit Type of Package 2 | P06 |
| Number of Units in Package 2 | 160 |
| Package 2 Weight | 83.66 Kg |
| Package 2 Height | 45.0 Cm |
| Package 2 width | 80.0 Cm |
| Package 2 Length | 60.0 Cm |
| Unit Type of Package 3 | S02 |
| Number of Units in Package 3 | 20 |
| Package 3 Weight | 9.41 Kg |
| Package 3 Height | 15.0 Cm |
| Package 3 width | 30.0 Cm |
| Package 3 Length | 40.0 Cm |
| | |

Offer Sustainability

| Sustainable offer status | Green Premium product |
|----------------------------|--------------------------------|
| REACh Regulation | ☑REACh Declaration |
| REACh free of SVHC | Yes |
| EU RoHS Directive | Compliant EEU 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 | |
| Warranty | 18 months |
| Product Life Status : | Commercialised |