Product data sheet

Specifications



TeSys K reversing contactor , 3P , AC-3 <= 440 V 12 A , 1 NC , 230...240 V AC

LC2K12017U7

(!) Discontinued

Main

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| Range | TeSys |
| Product Name | TeSys K |
| Product Or Component Type | Reversing contactor |
| Device Short Name | LC2K |
| Device Application | Control |
| Contactor Application | Motor control Resistive load |
| Utilisation Category | AC-1 AC-4 AC-3 |
| 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: <= 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 12 A at <= 440 V AC AC-3 for power circuit |
| Motor Power Kw | 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 3 kW at 220230 V AC 50/60 Hz 5.5 kW at 380415 V AC 50/60 Hz 5.5 kW at 440 V AC 50/60 Hz |
| Control Circuit Type | AC at 50/60 Hz |
| [Uc] Control Circuit Voltage | 230240 V AC 50/60 Hz |
| 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 | 144 A at 690 V AC for power circuit conforming to NF C 63-110 144 A at 690 V AC for power circuit conforming to IEC 60947 110 A AC for signalling 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 660690 V conforming to IEC 60947 |

| A 50 °C - 1 s for power circuit A 50 °C - 5 s for power circuit A 50 °C - 10 s for power circuit 50 °C - 3 min for power circuit 50 °C - 3 min for power circuit - 1 s for signalling circuit - 500 ms for signalling circuit A - 100 ms for signalling circuit 50 °C - >= 15 min for power circuit 30 °C - >= 15 min for power circuit 30 °C - >= 15 min for power circuit $30 °C - >= 15 min for power circuit30 °C - >= 15 min for power circuit 30 °C - >= 15 min for power circuit30 °C - >= 15 min for power circuit 30 °C - >= 15 min for power circuit30 °C - >= 15 min for power circuit 30 °C - >= 15 min for power circuit30 °C - >= 15 min for power circuit 30 °C - >= 15 min for power circuit30 °C - >= 15 min for power circuit 30 °C - >= 15 min for power circuit30 °C - >= 15 min for power circuit 30 °C - >= 15 min for power circuit30 °C - >= 15 min for power circuit 30 °C - >= 15 min for power circuit30 °C - >= 15 min for power circuit 30 °C - >= 15 min for power circuit30 °C - >= 15 min for power circuit 30 °C - >= 15 min for power circuit30 °C - >= 15 min for power circuit 30 °C - >= 15 min for power circuit30 °C - >= 15 min for power circuit 30 °C - >= 15 min for power circuit30 °C - >= 15 min for power circuit 30 °C - >= 15 min for power circuit30 °C - >= 15 min for power circuit 30 °C - >= 15 min for power circuit30 °C - >= 15 min for power circuit 30 °C - >= 15 min for power circuit30 °C - >= 15 min for power circuit 30 °C - >= 15 min for power circuit30 °C - >= 15 min for power circuit 30 °C - >= 15 min for power circuit30 °C - >= 15 min for power circuit 30 °C - >= 15 min for power circuit for power circuit for power circuit 30 °C - >= 15 min for power circuit for power cir$ |
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| Scheme |
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| A |
| on terminals 2 cable(s) - busbar cross section: 2.8 mm |
| on terminals 1 cable(s) - busbar cross section: 6.35 mm |
| 20 ms coil energisation and NO closing |
| 20 ms coil de-energisation and NO opening |
| I = 1369863 cycles contactor with nominal load conforming to EN/ISO 13849-1 |
| d = 20000000 cycles contactor with mechanical load conforming to EN/ISO |
| 9-1 |
| |
| ycles |
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Complementary

| Control Circuit Voltage Limits | Operational: 0.851.1 Uc (at <50 °C) Drop-out: 0.20.75 Uc (at <50 °C) |
|---------------------------------|---|
| Inrush Power In Va | 30 VA (at 20 °C) |
| Hold-In Power Consumption In Va | 4.5 VA (at 20 °C) |
| Heat Dissipation | 1.3 W |
| Auxiliary Contacts Type | type instantaneous 1 NC |
| Signalling Circuit Frequency | <= 400 Hz |
| 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 X axis: 10 Gn for 11 ms conforming to IEC 60068-2-27 Shocks contactor closed, on Y axis: 15 Gn for 11 ms conforming to IEC 60068-2-27 Shocks contactor closed, on Z axis: 15 Gn for 11 ms conforming to IEC 60068-2-27 Shocks contactor opened, on X axis: 6 Gn for 11 ms conforming to IEC 60068-2-27 Shocks contactor opened, on Y axis: 10 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 Shocks contactor opened, on Z axis: 10 Gn for 11 ms conforming to IEC 60068-2-27 Shocks 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 |
| Height | 58 mm |
| Width | 90 mm |
| Depth | 57 mm |
| Net Weight | 0.39 kg |

Packing Units

| Unit Type Of Package 1 | PCE |
|------------------------------|-----|
| Number Of Units In Package 1 | 1 |

Contractual warranty

Warranty

18 months