

LC1K12013F7

TeSys K contactor - 3P(3 NO) - AC-3 - ≤ 440 V 12 A - 110 V AC coil



Main

| | |
|---|--|
| Range | TeSys |
| Product name | TeSys K |
| Device short name | LC1K |
| Contacteur application | Motor control Resistive load |
| Utilisation category | AC-1 AC-3 AC-4 |
| Pole contact composition | 3 NO |
| [Ie] rated operational current | 20 A (≤ 50 °C) at ≤ 440 V AC AC-1 for power circuit 16 A (≤ 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 | 3 kW at 220...230 V AC 50/60 Hz 4 kW at 480 V AC 50/60 Hz 4 kW at 500...600 V AC 50/60 Hz 4 kW at 660...690 V AC 50/60 Hz 5.5 kW at 380...415 V AC 50/60 Hz 5.5 kW at 440 V AC 50/60 Hz |
| Control circuit type | AC 50/60 Hz |
| Control circuit voltage | 110 V AC 50/60 Hz |
| Auxiliary contact composition | 1 NC |
| 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 signalling circuit conforming to IEC 60947 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 |
| 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 at 50 Hz - Ith 20 A for power circuit |
| Operating time | 10...20 ms coil de-energisation and NO opening 10...20 ms coil energisation and NO closing |
| 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 |
| Operating rate | 3600 cyc/h |

Complementary

| | |
|---------------------------------|---|
| Control circuit voltage limits | 0.2...0.75 U _c at ≤ 50 °C drop-out 0.8...1.15 U _c at ≤ 50 °C operational |
| 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

| | |
|-----------------------|---|
| Protective treatment | TC conforming to IEC 60068 TC conforming to DIN 50016 |
| Operating altitude | 2000 m without derating in temperature |
| 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 IEC 60068-2-27 Shocks contactor closed, on Y axis 15 Gn for 11 ms IEC 60068-2-27 Shocks contactor closed, on Z axis 15 Gn for 11 ms IEC 60068-2-27 Shocks contactor opened, on X axis 6 Gn for 11 ms IEC 60068-2-27 Shocks contactor opened, on Y axis 10 Gn for 11 ms IEC 60068-2-27 Shocks contactor opened, on Z axis 10 Gn for 11 ms IEC 60068-2-27 Vibrations contactor closed 4 Gn, 5...300 Hz IEC 60068-2-6 Vibrations contactor opened 2 Gn, 5...300 Hz IEC 60068-2-6 |

Offer Sustainability

| | |
|----------------------------------|---|
| Sustainable offer status | Not Green Premium product |
| RoHS | Compliant - since 0644 - Schneider Electric declaration of conformity |
| Product end of life instructions | Need no specific recycling operations |