Product data sheet Characteristics

LC1K0601F7

TeSys K contactor - 3P - AC-3 <= 440 V 6 A - 1 NC aux. - 110 V AC coil





Main

| Range | TeSys | |
|---------------------------|---------------|--|
| Product or component type | Contactor | |
| Product name | TeSys K | |
| Device short name | LC1K | |
| Device application | Control | |
| Contactor application | Motor control | |

Complementary

| Utilisation category | AC-3 | |
|--|--|--|
| | AC-4 | |
| Poles description | 3P | * ** |
| Power pole contact composition | 3 NO | |
| [Ue] rated operational voltage | 690 V AC 50/60 Hz for power circuit | |
| | <= 690 V AC 50/60 Hz for signalling circuit | • |
| [le] rated operational current | 6 A at <= 440 V AC AC-3 for power circuit | 9. |
| Control circuit type | AC 50/60 Hz | - |
| [Uc] control circuit voltage | 110 V AC 50/60 Hz | |
| Motor power kW | 1.5 kW at 220230 V AC 50/60 Hz AC-3 | |
| | 2.2 kW at 380415 V AC 50/60 Hz AC-3 | į. |
| | 1.5 kW at 400 V AC 50/60 Hz AC-4 | v e |
| | 3 kW at 660690 V AC 50/60 Hz AC-3 | 7 |
| | 3 kW at 440 V AC 50/60 Hz AC-3 | , and a second s |
| | 3 kW at 480 V AC 50/60 Hz AC-3 | 2. |
| | 3 kW at 500600 V AC 50/60 Hz AC-3 | 5 |
| Auxiliary contact composition | 1 NC | , c |
| [Uimp] rated impulse withstand voltage | 8 kV | |
| Overvoltage category | III | |
| [Ith] conventional free air thermal | 20 A at <= 50 °C for power circuit | |
| current | 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 |
|--|---|
| 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 220230 V conforming to IEC 60947 110 A at 380400 V conforming to IEC 60947 70 A at 660690 V conforming to IEC 60947 |
| [Icw] rated short-time withstand current | 20 A <= 50 °C >= 15 min power circuit 90 A <= 50 °C 1 s power circuit 85 A <= 50 °C 5 s power circuit 80 A <= 50 °C 10 s power circuit 60 A <= 50 °C 30 s power circuit 45 A <= 50 °C 1 min power circuit 40 A <= 50 °C 3 min power circuit 80 A 1 s signalling circuit 90 A 500 ms signalling circuit 110 A 100 ms signalling circuit |
| 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 |
| [Ui] rated insulation voltage | 690 V for signalling circuit conforming to IEC 60947-4-1 690 V for signalling circuit conforming to IEC 60947-5-1 600 V for signalling circuit conforming to UL 508 600 V for power circuit conforming to CSA C22.2 No 14 600 V for signalling circuit conforming to CSA C22.2 No 14 690 V for power circuit conforming to IEC 60947-4-1 600 V for power circuit conforming to UL 508 |
| Insulation resistance | > 10 MOhm for signalling circuit |
| 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 |
| Control circuit voltage limits | 0.20.75 Uc at <= 50 °C drop-out 0.81.15 Uc at <= 50 °C operational |
| Connections - terminals | Screw clamp terminals 1 cable(s) 1.54 mm² - cable stiffness: solid Screw clamp terminals 1 cable(s) 0.754 mm² - cable stiffness: flexible - without cable end Screw clamp terminals 1 cable(s) 0.342.5 mm² - cable stiffness: flexible - with cable end Screw clamp terminals 2 cable(s) 1.54 mm² - cable stiffness: solid Screw clamp terminals 2 cable(s) 0.754 mm² - cable stiffness: flexible - without cable end Screw clamp terminals 2 cable(s) 0.341.5 mm² - cable stiffness: flexible - with cable end |
| Operating rate | 3600 cyc/h |
| 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 |
| Mounting support | Plate Rail |
| 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 | 1020 ms coil de-energisation and NO opening 1020 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 |
| Non overlap distance | 0.5 mm |
| Mechanical durability | 10 Mcycles |
| Electrical durability | 1.3 Mcycles 6 A AC-3 at Ue <= 440 V |
| 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, 5300 Hz IEC 60068-2-6 |

| Height | 58 mm |
|----------------|---------|
| Width | 45 mm |
| Depth | 57 mm |
| Product weight | 0.18 kg |

Environment

| Standards | BS 5424 |
|---------------------------------------|---|
| | IEC 60947 |
| | NF C 63-110 |
| | VDE 0660 |
| Product certifications | CSA |
| | UL |
| IP degree of protection | IP2x 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 |

Offer Sustainability

| Sustainable offer status | Green Premium product | |
|----------------------------------|---|--|
| RoHS (date code: YYWW) | Compliant - since 0640 - Schneider Electric declaration of conformity | |
| | Schneider Electric declaration of conformity | |
| REACh | Reference not containing SVHC above the threshold | |
| | Reference not containing SVHC above the threshold | |
| Product environmental profile | Available | |
| | Product Environmental Profile | |
| Product end of life instructions | Available | |
| | End of Life Information | |

Contractual warranty

| Contractad warranty | |
|---------------------|-----------|
| Warranty period | 18 months |