Product datasheet Characteristics

LC1K09015D7

TeSys K contactor - 3P - AC-3 <= 440 V 9 A - 1 NC aux. - 42 V AC coil





| IV | ıaı | n |
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| Range | TeSys | |
|---------------------------|---------------------------------|--|
| Product or component type | Contactor | ž |
| Product name | TeSys K | 9 |
| Device short name | LC1K | , a series de la companya de la comp |
| Device application | Control | |
| Contactor application | Resistive load Motor control | i di |

Complementary

| Complementary | | <u></u> |
|--|--|--|
| Utilisation category | AC-3 | |
| | AC-1 | et e |
| | AC-4 | force |
| Poles description | 3P | used for determining |
| Power pole contact composition | 3 NO | not to |
| [Ue] rated operational voltage | Power circuit: 690 V AC 50/60 Hz | |
| | Signalling circuit: <= 690 V AC 50/60 Hz | <u>o</u> . |
| [le] rated operational current | 20 A (at <50 °C) at <= 440 V AC AC-1 for power circuit | and ———————————————————————————————————— |
| | 9 A at <= 440 V AC AC-3 for power circuit | ā Ā |
| | 16 A (at <70 °C) at 690 V AC AC-1 for power circuit | substitute for |
| Control circuit type | AC at 50/60 Hz | a sub |
| [Uc] control circuit voltage | 42 V AC 50/60 Hz | is not intended as |
| Motor power kW | 2.2 kW at 220230 V AC 50/60 Hz AC-3 | |
| | 4 kW at 380415 V AC 50/60 Hz AC-3 | <u></u> |
| | 4 kW at 440 V AC 50/60 Hz AC-3 | Ò |
| | 4 kW at 480 V AC 50/60 Hz AC-3 | |
| | 4 kW at 500600 V AC 50/60 Hz AC-3 | tatic |
| | 4 kW at 660690 V AC 50/60 Hz AC-3 | nen |
| | 2.2 kW at 400 V AC 50/60 Hz AC-4 | documentation |
| Auxiliary contact composition | 1 NC | This d |
| [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 | |
| 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 | |
| [lcw] rated short-time withstand current | 90 A 50 °C - 1 s for power circuit 85 A 50 °C - 5 s for power circuit 80 A 50 °C - 10 s for power circuit 60 A 50 °C - 30 s for power circuit 45 A 50 °C - 1 min for power circuit 40 A 50 °C - 3 min for power circuit 20 A 50 °C - >= 15 min for power circuit 80 A - 1 s for signalling circuit 90 A - 500 ms for signalling circuit 110 A - 100 ms for 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 - 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 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 | |
| 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 | Operational: 0.81.15 Uc (at <50 °C) Drop-out: 0.20.75 Uc (at <50 °C) | |
| Connections - terminals | Solder pins - busbar cross section: 1.5 x 0.9 mm | |
| Maximum 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 | Printed circuit boards | |
| 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 | 0.18 Mcycles 20 A AC-1 at Ue <= 440 V 1.3 Mcycles 9 A AC-3 at Ue <= 440 V | |
| 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 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 | |
| Height | 58 mm | |
| i loigi it | 45 mm | |

| Depth | 57 mm | |
|-------------------------------------|--|--|
| Net weight | 0.18 kg | |
| Environment | | |
| Standards | BS 5424 IEC 60947 NF C 63-110 VDE 0660 | |
| Product certifications | UL CSA | |
| 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 storage | -5080 °C | |
| Operating altitude | 2000 m without | |
| 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 | |
| REACh Regulation | REACh Declaration | |
| REACh free of SVHC | Yes | |
| EU RoHS Directive | Compliant EU RoHS Declaration | |
| Mercury free | Yes | |
| RoHS exemption information | Yes | |
| China RoHS Regulation | China RoHS declaration Product out of China RoHS scope. Substance declaration for your information | |
| Environmental Disclosure | Product Environmental Profile | |
| Circularity Profile | End of Life Information | |
| | | |

WEEE

| Warranty | 18 months | |
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The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins