

Product data sheet

Specifications



TeSys K contactor , 3P , AC-3 <= 440 V 9 A , 1 NO aux. , 230 V AC coil

LC1K09106P7

⚠ Discontinued on: Jul 24, 2022

⚠ Discontinued

Main

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| Range of product | TeSys K |
| Range | TeSys |
| Product name | TeSys K |
| Device application | Control |
| Product or component type | Contacteur |
| Device short name | LC1K |
| Utilisation category | AC-3 AC-4 AC-1 |
| Poles description | 3P |
| Pole contact composition | 3 NO |
| [Ie] rated operational current | 20 A (at <50 °C) at <= 440 V AC AC-1 for power circuit 9 A at <= 440 V AC AC-3 for power circuit 16 A (at <70 °C) at 690 V AC AC-1 for power circuit |
| [Uc] control circuit voltage | type instantaneous 1 NO |
| Signalling circuit frequency | <= 400 Hz |
| Non overlap distance | 0.5 mm |

Complementary

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| Contacteur application | Motor control Resistive load |
| Auxiliary contact composition | 1 NO |
| Control circuit voltage limits | Operational: 0.8...1.15 Uc (at <50 °C) Drop-out: 0.2...0.75 Uc (at <50 °C) |
| Control circuit type | AC at 50/60 Hz |
| [Uc] control circuit voltage | 230 V AC 50/60 Hz |
| 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, 5...300 Hz conforming to IEC 60068-2-6 Vibrations contactor opened: 2 Gn, 5...300 Hz conforming to IEC 60068-2-6 |
| Standards | BS 5424 IEC 60947 NF C 63-110 VDE 0660 |

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| Protective treatment | TC conforming to IEC 60068 TC conforming to DIN 50016 |
| Overvoltage category | III |
| Product certifications | CB Scheme CCC UL CSA EAC CE UKCA |
| Ambient air temperature for storage | -50...80 °C |
| Operating altitude | 2000 m without derating |
| Tightening torque | 1.3 N.m - on lugs-ring terminals - with screwdriver Philips No 2 1.3 N.m - on lugs-ring terminals - with screwdriver flat Ø 6 mm |
| [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 220...230 V conforming to IEC 60947 110 A at 380...400 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 - Ith 20 A 50 Hz for power circuit |
| Inrush power in VA | 30 VA (at 20 °C) |
| Hold-in power consumption in VA | 4.5 VA (at 20 °C) |
| 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 |
| Mechanical durability | 10 Mcycles |
| Maximum operating rate | 3600 cyc/h |
| Minimum switching current | 5 mA for signalling circuit |
| Minimum switching voltage | 17 V for signalling circuit |
| Insulation resistance | > 10 MOhm for signalling circuit |
| Height | 58 mm |
| Width | 45 mm |
| Depth | 57 mm |
| Net weight | 0.18 kg |
| Compatibility code | LC1K |

Environment

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| Motor power kW | 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 2.2 kW at 220...230 V AC 50/60 Hz 4 kW at 380...415 V AC 50/60 Hz 4 kW at 440 V AC 50/60 Hz |
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| Heat dissipation | 1.3 W |
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| Flame retardance | V1 conforming to UL 94 Requirement 2 conforming to NF F 16-101 Requirement 2 conforming to NF F 16-102 |
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Packing Units

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| Unit Type of Package 1 | PCE |
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| Number of Units in Package 1 | 1 |
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Contractual warranty

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| Warranty (in months) | 18 |
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Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

Use Longer



Lifetime extension

Repair

No

Use Again



Repack and remanufacture

WEEE Label



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