

Product datasheet

Specifications



contactor TeSys LC7-K - 3 poles - AC-3 - 440 V 9 A - coil 24 V AC

LC7K09105B7TQ

EAN Code: 3389110196511

! Discontinued

Main

| | |
|--------------------------------|---|
| Range of product | TeSys K |
| Product or component type | Silent contactor |
| Device short name | LC7K |
| Utilisation category | AC-1 AC-3 |
| Control circuit type | AC |
| Coil technology | Built-in bidirectional peak limiting diode suppressor |
| Poles description | 3P |
| Pole contact composition | 3 NO |
| [Ie] rated operational current | 20 A (at <50 °C) AC AC-1 for power circuit 9 A (at <60 °C) at <= 440 V AC AC-3 for power circuit |

Complementary

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| Contactor application | Motor control Resistive load |
| Coil type | AC 50/60 Hz |
| Auxiliary contact composition | 1 NO |
| Control circuit voltage limits | Drop-out: $\geq 0.10 U_c$ at 50/60 Hz (at <50 °C) Operational: $0.85 \dots 1.1 U_c$ at 50/60 Hz (at <50 °C) |
| [Ui] rated insulation voltage | Control circuit: 690 V conforming to BS 5424 Control circuit: 690 V conforming to IEC 60947 Power circuit: 690 V conforming to BS 5424 Power circuit: 690 V conforming to IEC 60947 Power circuit: 690 V conforming to NF C 20-040 Control circuit: 750 V conforming to VDE 0110 group C Power circuit: 750 V conforming to VDE 0110 group C Control circuit: 600 V conforming to CSA C22.2 No 14 Power circuit: 600 V UL 508 certified conforming to CSA C22.2 No 14 |
| [Uimp] rated impulse withstand voltage | 8 kV |
| Mounting support | Rail Plate |
| Standards | VDE 0660 IEC 60947 NF C 63-110 BS 5424 |
| Product certifications | GOST UL CSA |
| Ambient air temperature for operation | -25...50 °C |

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| Ambient air temperature for storage | -50...80 °C |
| Operating altitude | 2000 m without derating |
| Fire resistance | 850 °C conforming to IEC 60695-2-1 |
| [Ue] rated operational voltage | Power circuit: <= 690 V AC <= 400 Hz |
| [Ith] conventional free air thermal current | 10 A (at 50 °C) for control circuit 20 A (at 50 °C) for power circuit |
| Irms rated making capacity | 110 A at 690 V AC for control circuit conforming to IEC 60947 110 A at 690 V AC for power circuit conforming to IEC 60947 110 A at 690 V AC for power circuit conforming to NF C 63-110 |
| Rated breaking capacity | 110 A at 440 V for power circuit conforming to IEC 60947 110 A at 440 V for power circuit conforming to NF C 63-110 70 A at 660...690 V for power circuit conforming to IEC 60947 70 A at 660...690 V for power circuit conforming to NF C 63-110 80 A at 500 V for power circuit conforming to IEC 60947 80 A at 500 V for power circuit conforming to NF C 63-110 110 A at 220...230 V for power circuit conforming to IEC 60947 110 A at 220...230 V for power circuit conforming to NF C 63-110 110 A at 380...400 V for power circuit conforming to IEC 60947 110 A at 380...400 V for power circuit conforming to NF C 63-110 110 A at 415 V for power circuit conforming to IEC 60947 110 A at 415 V for power circuit conforming to NF C 63-110 |
| Associated fuse rating | 10 A gG for control circuit conforming to IEC 60947 10 A gG for control circuit conforming to VDE 0660 25 A gG at <= 440 V for power circuit |
| Average impedance | 3 mOhm - Ith 20 A 50 Hz for power circuit |
| Inrush power in VA | 3 VA (at 20 °C) |
| Hold-in power consumption in VA | 3 VA 50/60 Hz (at 20 °C) |
| Operating time | 25...35 ms coil energisation and NC opening 30...40 ms between energisation of coil and closing of NO contact 30 ms coil de-energisation and NO opening 40 ms coil de-energisation and NC opening |
| 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 | 10000000 cycles |
| Maximum operating rate | 3600 cyc/h |
| Minimum switching current | 5 mA for control circuit |
| Minimum switching voltage | 17 V for control circuit |
| Insulation resistance | > 10 MOhm for control circuit |
| Height | 58 mm |
| Width | 45 mm |
| Depth | 57 mm |
| Product weight | 0.225 kg |
| Compatibility code | LC7K |

Environment

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| Flame retardance | Class C2 conforming to NF F 16-101 Class C2 conforming to NF F 16-102 V1 conforming to UL 94 |
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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