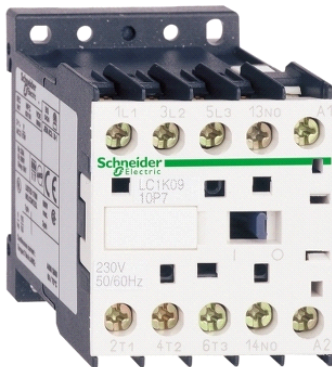


LC1K0910B7TQ

contactor TeSys LC1-K - 3 poles - AC-3 440V 9 A - coil 24 V AC



Main

| | |
|--------------------------------|--|
| Range of product | TeSys K |
| Range | TeSys |
| Product or component type | Contacteur |
| Device short name | LC1K |
| Contactor application | Motor control Resistive load |
| Utilisation category | AC-1 AC-3 AC-4 |
| Control circuit type | AC |
| Coil type | AC 50/60 Hz |
| Poles description | 3P |
| Pole contact composition | 3 NO |
| [Ie] rated operational current | 20 A (<= 50 °C) AC AC-1 for power circuit 9 A (<= 60 °C) at <= 440 V AC AC-3 for power circuit |
| Motor power kW | 2.2 kW at 400 V AC 50/60 Hz AC-4 2.2 kW at 220...230 V AC 50/60 Hz AC-3 4 kW at 440/500 V AC 50/60 Hz AC-3 4 kW at 660/690 V AC 50/60 Hz AC-3 4 kW at 380...415 V AC 50/60 Hz AC-3 |
| Motor power hp | 2 hp at 200/208 V AC 60 Hz conforming to CSA 2 hp at 200/208 V AC 60 Hz conforming to UL 3 hp at 230/240 V AC 60 Hz conforming to CSA 3 hp at 230/240 V AC 60 Hz conforming to UL 5 hp at 460/480 V AC 60 Hz conforming to CSA 5 hp at 460/480 V AC 60 Hz conforming to UL 5 hp at 575/600 V AC 60 Hz conforming to CSA 5 hp at 575/600 V AC 60 Hz conforming to UL |
| Auxiliary contact composition | 1 NO |
| [Uc] control circuit voltage | 24 V AC 50/60 Hz |
| Connections - terminals | Power circuit : screw clamp terminal 1 cable 1.5 mm ² - cable stiffness: solid Power circuit : screw clamp terminal 2 cable 4 mm ² - cable stiffness: solid Power circuit : screw clamp terminal 1 cable 0.75 mm ² - cable stiffness: flexible Power circuit : screw clamp terminal 2 cable 4 mm ² - cable stiffness: flexible Power circuit : screw clamp terminal 1 cable 0.34 mm ² - cable stiffness: flexible Power circuit : screw clamp terminal 1 cable 1.5 mm ² - cable stiffness: flexible Power circuit : screw clamp terminal 1 cable 2.5 mm ² - cable stiffness: flexible Control circuit : screw clamp terminal 1 cable 1.5 mm ² - cable stiffness: solid Control circuit : screw clamp terminal 2 cable 4 mm ² - cable stiffness: solid Control circuit : screw clamp terminal 1 cable 0.75 mm ² - cable stiffness: flexible Control circuit : screw clamp terminal 2 cable 4 mm ² - cable stiffness: flexible Control circuit : screw clamp terminal 1 cable 0.34 mm ² - cable stiffness: flexible Control circuit : screw clamp terminal 1 cable 1.5 mm ² - cable stiffness: flexible Control circuit : screw clamp terminal 1 cable 2.5 mm ² - cable stiffness: flexible |

The information provided in this documentation contains general descriptions and/or technical characteristics of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

Power circuit : spring terminal 1 cable 0.75 mm² - cable stiffness: solid
 Power circuit : spring terminal 1 cable 1.5 mm² - cable stiffness: solid
 Power circuit : spring terminal 1 cable 0.75 mm² - cable stiffness: flexible
 Power circuit : spring terminal 1 cable 1.5 mm² - cable stiffness: flexible
 Control circuit : spring terminal 1 cable 0.75 mm² - cable stiffness: solid
 Control circuit : spring terminal 1 cable 1.5 mm² - cable stiffness: solid
 Control circuit : spring terminal 1 cable 0.75 mm² - cable stiffness: flexible
 Control circuit : spring terminal 1 cable 1.5 mm² - cable stiffness: flexible
 Power circuit : Faston connectors 2 - width: 2.8 mm - cable stiffness: clip
 Power circuit : Faston connectors 1 - width: 6.35 mm - cable stiffness: clip
 Control circuit : Faston connectors 2 - width: 2.8 mm - cable stiffness: clip
 Control circuit : Faston connectors 1 - width: 6.35 mm - cable stiffness: clip

Complementary

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|--|--|
| Coil technology | Without built-in bidirectional peak limiting diode suppressor |
| Control circuit voltage limits | >= 0.20 U _c at <= 50 °C drop-out 50/60 Hz 0.8...1.15 U _c at <= 50 °C operational 50/60 Hz |
| [U _i] rated insulation voltage | 690 V for control circuit conforming to BS 5424 690 V for control circuit conforming to IEC 60947 690 V for power circuit conforming to BS 5424 690 V for power circuit conforming to IEC 60947 690 V for power circuit conforming to NF C 20-040 750 V for control circuit conforming to VDE 0110 group C 750 V for power circuit conforming to VDE 0110 group C 600 V for control circuit conforming to CSA C22.2 No 14 600 V for power circuit certifications UL 508 conforming to CSA C22.2 No 14 |
| [U _{imp}] rated impulse withstand voltage | 8 kV |
| Mounting support | Plate Rail |
| Flame retardance | Class C2 conforming to NF F 16-101 Class C2 conforming to NF F 16-102 V1 conforming to UL 94 |
| Tightening torque | Power circuit : 0.8...1.3 N.m - on screw clamp terminal - with screwdriver flat Ø 6 mm Power circuit : 0.8...1.3 N.m - on screw clamp terminal - with screwdriver Philips No 2 |
| [U _e] rated operational voltage | <= 690 V AC <= 400 Hz for power circuit |
| [I _{th}] 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 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 63-110 110 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 |
| 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 at 50 Hz - I _{th} 20 A for power circuit |
| Inrush power in VA | 30 VA at 20 °C |
| Hold-in power consumption in VA | 4.5 VA at 20 °C 50/60 Hz |
| Operating time | 10...20 ms between energisation of coil and closing of NO contact |

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|---------------------------|--|
| | 10...20 ms coil de-energisation and NO opening 15...25 ms coil de-energisation and NC opening 5...15 ms coil 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 |
| 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 | 0.18 kg |

Environment

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|---------------------------------------|--|
| standards | BS 5424 IEC 60947 NF C 63-110 VDE 0660 |
| product certifications | CSA GOST UL |
| IP degree of protection | IP2x conforming to VDE 0106 |
| protective treatment | TC conforming to IEC 60068 |
| ambient air temperature for operation | -25...50 °C |
| ambient air temperature for storage | -50...80 °C |
| operating altitude | 2000 m without derating |
| fire resistance | 850 °C conforming to IEC 60695-2-1 |
| shock resistance | 10 gn contactor closed 6 gn contactor opened |
| vibration resistance | 2 gn 5...300 Hz contactor opened 4 gn 5...300 Hz contactor closed |
| heat dissipation | 1.3 W at 50/60 Hz for control circuit |

Offer Sustainability

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|----------------------------------|---|
| Sustainable offer status | Green Premium product |
| RoHS (date code: YYWW) | Compliant - since 0633 - Schneider Electric declaration of conformity |
| REACH | Reference not containing SVHC above the threshold |
| Product environmental profile | Available |
| Product end of life instructions | Available |