Specifications



TeSys K contactor - 3P - AC-3 <= 440 V 12 A - 1 NO aux. - 400...415 V AC coil

LC1K1210N7

Main

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

Complementary

| complementary | |
|--|---|
| Utilisation category | AC-3 |
| 0,1 | AC-3e |
| | AC-1 |
| | AC-4 |
| | |
| Poles description | 3P |
| power pole contact composition | 3 NO |
| [Ue] rated operational voltage | Power circuit: <= 690 V AC <= 400 Hz |
| | Signalling circuit: <= 690 V AC <= 400 Hz |
| [le] rated operational current | 12 A (at <60 °C) at <= 440 V AC AC-3 for power circuit |
| | 12 A (at <60 °C) at <= 440 V AC AC-3e for power circuit |
| | 20 A (at <60 °C) at <= 690 V AC AC-1 for power circuit |
| Control circuit type | AC at 50/60 Hz |
| [Uc] control circuit voltage | 400415 V AC 50/60 Hz |
| Motor power kW | 3 kW at 220230 V AC 50/60 Hz AC-3 |
| | 5.5 kW at 380415 V AC 50/60 Hz AC-3 |
| | 5.5 kW at 440 V AC 50/60 Hz AC-3 |
| | 4 kW at 690 V AC 50/60 Hz AC-3 |
| | 3 kW at 220230 V AC 50/60 Hz AC-3e |
| | 5.5 kW at 380415 V AC 50/60 Hz AC-3e |
| | 5.5 kW at 440 V AC 50/60 Hz AC-3e |
| | 4 kW at 690 V AC 50/60 Hz AC-3e |
| | 3 kW at 220230 V AC 50/60 Hz AC-4 |
| | 5.5 kW at 380415 V AC 50/60 Hz AC-4 |
| | 5.5 kW at 440 V AC 50/60 Hz AC-4 |
| | 4 kW at 690 V AC 50/60 Hz AC-4 |
| | |
| Auxiliary contact composition | 1 NO |
| [Uimp] rated impulse withstand voltage | 8 KV |
| Overvoltage category | III |
| [Ith] conventional free air thermal | 20 A (at 60 °C) for power circuit |
| current | 10 A (at 50 °C) for signalling circuit |
| Irms rated making capacity | 144 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 440 V conforming to IEC 60947 80 A at 500 V conforming to IEC 60947 | |
|---------------------------------|--|--|
| | 70 A at 660690 V conforming to IEC 60947 | |
| Icw] rated short-time withstand | 115 A 50 °C - 1 s for power circuit | |
| current | 105 A 50 °C - 5 s for power circuit 100 A 50 °C - 10 s for power circuit | |
| | 75 A 50 °C - 30 s for power circuit | |
| | 55 A 50 °C - 1 min for power circuit | |
| | 50 A 50 °C - 3 min for power circuit | |
| | 25 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 | |
| ssociated 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 | |
| werage 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 | |
| nsulation resistance | > 10 MOhm for signalling circuit | |
| nrush power in VA | 30 VA (at 20 °C) | |
| Iold-in power consumption in VA | 4.5 VA (at 20 °C) | |
| leat dissipation | 1.3 W | |
| Control circuit voltage limits | Operational: 0.81.15 Uc (at <50 °C) Drop-out: >= 0.20 Uc (at <50 °C) | |
| Connections - terminals | Screw clamp terminals 1 cable(s) 1.54 mm ² solid Screw clamp terminals 1 cable(s) 0.754 mm ² flexible without cable end Screw clamp terminals 1 cable(s) 0.342.5 mm ² flexible with cable end Screw clamp terminals 2 cable(s) 1.54 mm ² solid Screw clamp terminals 2 cable(s) 0.754 mm ² flexible without cable end | |
| ···· | Screw clamp terminals 2 cable(s) 0.341.5 mm²flexible with cable end | |
| Aaximum operating rate | 3600 cyc/h | |
| Auxiliary contacts type | type instantaneous 1 NO | |
| Signalling circuit frequency | <= 400 Hz | |
| linimum switching current | 5 mA for signalling circuit | |
| linimum switching voltage | 17 V for signalling circuit | |
| Nounting support | Plate Rail | |
| Fightening torque | 0.81.3 N.m - on screw clamp terminals Philips No 2 | |
| | 0.81.3 N.m - on screw clamp terminals flat Ø 6 mm | |
| | 0.81.3 N.m - on screw clamp terminals pozidriv No 2 | |
| Dperating time | | |
| iporauny une | 1020 ms coil de-energisation and NO opening 1020 ms coil energisation and NO closing | |
| afety 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 | |
| lon overlap distance | 0.5 mm | |
| lechanical durability | 10 Mcycles | |
| Electrical durability | 1.3 Mcycles 12 A AC-3 at Ue <= 440 V | |
| | 1.3 Mcycles 12 A AC-3e at Ue <= 440 V 0.3 Mcycles 20 A AC-1 at Ue <= 690 V 0.02 Mcycles 72 A AC-4 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 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 | |
| width | 45 mm | |
| Depth | 57 mm | |
| Net weight | 0.18 kg | |
| Environment | | |
| Environment | | |

| Standards | EN/IEC 60947-4-1 GB/T 14048.4 UL 60947-4-1 CSA C22.2 No 60947-4-1 JIS C8201-4-1 IEC 60335-1:Clause 30.2 IEC 60335-2-40:Annex JJ UL 60335-2-40:Annex JJ |
|-------------------------------------|---|
| Product certifications | CB Scheme CCC UL CSA EAC CE UKCA |
| 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 derating |
| Flame retardance | V1 conforming to UL 94 Requirement 2 conforming to NF F 16-101 Requirement 2 conforming to NF F 16-102 |

Packing Units

| Unit Type of Package 1 | PCE |
|------------------------------|---------|
| Number of Units in Package 1 | 1 |
| Package 1 Height | 4.8 cm |
| Package 1 Width | 6.2 cm |
| Package 1 Length | 6.7 cm |
| Package 1 Weight | 175.0 g |
| Unit Type of Package 2 | S02 |
| Number of Units in Package 2 | 50 |
| Package 2 Height | 15 cm |
| Package 2 Width | 30 cm |
| Package 2 Length | 40 cm |
| Package 2 Weight | 9.36 kg |
| Unit Type of Package 3 | P06 |

| Number of Units in Package 3 | 800 |
|------------------------------|-----------|
| Package 3 Height | 75 cm |
| Package 3 Width | 80 cm |
| Package 3 Length | 60 cm |
| Package 3 Weight | 164.68 kg |

Contractual warranty

Warranty

18 months

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.

How this information helps you >

| Ø Environmental footprint | |
|---|-------------------------------|
| Carbon footprint (kg.eq.CO2 per CR, Total Life cycle) | 60 |
| Environmental Disclosure | Product Environmental Profile |

Use Better

| S Materials and Substances | |
|--|--------------------------|
| Packaging made with recycled cardboard | Yes |
| Packaging without single use plastic | Yes |
| EU RoHS Directive | Compliant |
| REACh Regulation | REACh Declaration |
| China RoHS Regulation | China RoHS declaration |

Use Again

| \bigcirc Repack and remanufacture | |
|-------------------------------------|---|
| Circularity Profile | End of Life Information |
| WEEE | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |