LC1N80004M7N

Contactor, Easy TeSys Control, LC1N, 4P(4NO), AC-1, <=440V, 100A, 220V AC coil, China





Main

| Range | Easy TeSys |
|--------------------------------|--|
| Range of product | Easy TeSys Control |
| Product or component type | Contactor |
| Device short name | LC1N |
| Contactor application | Resistive load |
| Utilisation category | AC-1 |
| Poles description | 4P |
| [Ue] rated operational voltage | Power circuit: <= 690 V AC 50/60 Hz |
| [le] rated operational current | 80 A (at <60 °C) at <= 440 V AC AC-3 for power circuit 100 A (at <60 °C) at <= 440 V AC AC-1 for power circuit |
| [Uc] control circuit voltage | 220 V AC 50/60 Hz |

Complementary

| Complementary | |
|---|--|
| Pole contact composition | 4 NO |
| [lth] conventional free air thermal current | 100 A (at 60 °C) for power circuit |
| Irms rated making capacity | 800 A at 380 V AC for power circuit conforming to IEC 60947-4-1 |
| Rated breaking capacity | 640 A at 440 V for power circuit conforming to IEC 60947 |
| [lcw] rated short-time withstand current | 640 A 40 °C - 10 s for power circuit 320 A 40 °C - 60 s for power circuit 135 A 40 °C - 600 s for power circuit |
| Associated fuse rating | 10 A gG at <= 690 V coordination type 1 for control circuit conforming to IEC 60947-5-1 160 A gG at <= 690 V coordination type 1 for power circuit |
| Average impedance | 0.8 mOhm - Ith 100 A 50 Hz for power circuit |
| Power dissipation per pole | 9.7 W AC-1 |
| [Ui] rated insulation voltage | 690 V conforming to IEC 60947-4-1 |
| Overvoltage category | III |
| Pollution degree | 3 |
| [Uimp] rated impulse withstand voltage | 6 kV coil not connected to the power circuit conforming to IEC 60947 |
| Mechanical durability | 3000000 cycles |
| Electrical durability | 350000 cycles AC-1 |
| Control circuit type | AC at 50/60 Hz |
| Control circuit voltage limits | 0.851.1 Uc (-555 °C):operational 50/60 Hz 0.30.6 Uc (-555 °C):drop-out 50/60 Hz |
| Inrush power in VA | 200 VA 50 Hz cos phi 0.75 (at 20 °C) 220 VA 60 Hz cos phi 0.75 (at 20 °C) |
| Hold-in power consumption in VA | 22 VA 60 Hz cos phi 0.3 (at 20 °C) 20 VA 50 Hz cos phi 0.3 (at 20 °C) |
| Heat dissipation | 610 W for control circuit |
| Operating time | 2035 ms on closing 630 ms on opening |
| Maximum operating rate | 1200 cyc/h 60 °C |

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not inherent or and is not to be used for determining suitability or inhability of these products for specific user applications. It is the dourn aren in 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.

| Connections - terminals | Control circuit: screw clamp terminals 1 14 mm² - cable stiffness: flexible without cable end |
|-------------------------|--|
| | Control circuit: screw clamp terminals 2 14 mm² - cable stiffness: flexible without cable end |
| | Control circuit: screw clamp terminals 2 12.5 mm ² - cable stiffness: flexible with cable end |
| | Control circuit: screw clamp terminals 1 14 mm² - cable stiffness: solid without cable end |
| | Control circuit: screw clamp terminals 2 14 mm² - cable stiffness: solid without cable end |
| | Control circuit: screw clamp terminals 1 12.5 mm ² - cable stiffness: flexible with cable end |
| | Power circuit: screw clamp terminals 1 450 mm ² - cable stiffness: flexible with cable end |
| | Power circuit: screw clamp terminals 2 416 mm ² - cable stiffness: flexible with cable end |
| | Power circuit: screw clamp terminals 1 450 mm ² - cable stiffness: solid without cable end |
| | Power circuit: screw clamp terminals 2 425 mm² - cable stiffness: solid without cable end |
| Tightening torque | Control circuit: 1.2 N.m |
| | Power circuit: 12 N.m |
| Mounting support | DIN rail |
| | Plate |

Environment

| Standards | GB 14048.4 |
|--|---|
| | IEC 60947-4-1 |
| | EN 60947-1 |
| | EN 60947-4-1 |
| | IEC 60947-1 |
| Product certifications | CCC |
| IP degree of protection | IP20 conforming to IEC 60529 |
| Protective treatment | TH (pollution degree 3) conforming to IEC 60068 |
| Permissible ambient air temperature around the | -555 °C operation |
| device | -6080 °C storage |
| | -2070 °C at Uc |
| Operating altitude | 3000 m without derating |
| Fire resistance | 850 °C conforming to IEC 60695-2-1 |
| Mechanical robustness | Vibrations contactor open (1.5 Gn, 5300 Hz) |
| | Vibrations contactor closed (3 Gn, 5300 Hz) |
| | Shocks contactor open (6 Gn for 11 ms) |
| | Shocks contactor closed (7 Gn for 11 ms) |
| Height | 127 mm |
| Width | 95 mm |
| Depth | 120 mm |
| Net weight | 1.6 kg |
| | |

Packing Units

| Unit Type of Package 1 | PCE | |
|------------------------------|-----------|--|
| Number of Units in Package 1 | 1 | |
| Package 1 Height | 15 cm | |
| Package 1 Width | 10.7 cm | |
| Package 1 Length | 13.5 cm | |
| Package 1 Weight | 1620.42 g | |
| Unit Type of Package 2 | S03 | |
| Number of Units in Package 2 | 6 | |
| Package 2 Height | 30 cm | |
| Package 2 Width | 30 cm | |
| Package 2 Length | 40 cm | |
| Package 2 Weight | 10.28 kg | |
| Unit Type of Package 3 | P06 | |
| Number of Units in Package 3 | 48 | |
| Package 3 Height | 75 cm | |

| Package 3 Width | 60 cm | |
|--------------------------|-----------------------|--|
| Package 3 Length | 80 cm | |
| Package 3 Weight | 92.24 kg | |
| Offer Sustainability | | |
| Sustainable offer status | Green Premium product | |

| WEEE | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |
|----------------------------|---|
| Circularity Profile | End Of Life Information |
| Environmental Disclosure | Product Environmental Profile |
| RoHS exemption information | €Yes |
| China RoHS Regulation | China RoHS Declaration |
| Mercury free | Yes |
| EU RoHS Directive | Compliant with Exemptions |
| REACh Regulation | REACh Declaration |
| Sustainable offer status | Green Premium product |
| Offer Sustainability | |