

LC1D65008J5

TeSys D contactor - 4P(2 NO + 2 NC) - AC-1 - ≤ 440 V 80 A - 12 V AC 50 Hz coil



Main

| | |
|---|--|
| Range | TeSys |
| Product name | TeSys D |
| Product or component type | Contacteur |
| Device short name | LC1D |
| Contacteur application | Resistive load |
| Utilisation category | AC-1 |
| Poles description | 4P |
| Pole contact composition | 2 NO + 2 NC |
| [Ue] rated operational voltage | ≤ 690 V AC 25...400 Hz for power circuit ≤ 300 V DC for power circuit |
| [Ie] rated operational current | 80 A (≤ 60 °C) at ≤ 440 V AC AC-1 for power circuit |
| Control circuit type | AC 50 Hz |
| Control circuit voltage | 12 V AC 50 Hz |
| [Uimp] rated impulse withstand voltage | 6 kV conforming to IEC 60947 |
| Overvoltage category | III |
| [Ith] conventional free air thermal current | 80 A at ≤ 60 °C for power circuit |
| Irms rated making capacity | 1000 A at 440 V for power circuit conforming to IEC 60947 |
| Rated breaking capacity | 1000 A at 440 V for power circuit conforming to IEC 60947 |
| [Icw] rated short-time withstand current | 520 A ≤ 40 °C 10 s power circuit 900 A ≤ 40 °C 1 s power circuit 110 A ≤ 40 °C 10 min power circuit 260 A ≤ 40 °C 1 min power circuit |
| Associated fuse rating | 125 A gG at ≤ 690 V coordination type 1 for power circuit 125 A gG at ≤ 690 V coordination type 2 for power circuit |
| Average impedance | 1.5 mOhm at 50 Hz - Ith 80 A for power circuit |
| [Ui] rated insulation voltage | 600 V for power circuit certifications CSA 600 V for power circuit certifications UL 690 V for power circuit conforming to IEC 60947-4-1 |
| Electrical durability | 1.4 Mcycles 80 A AC-1 at Ue ≤ 440 V |
| Power dissipation per pole | 9.6 W AC-1 |
| Protective cover | Without |
| Mounting support | Plate Rail |
| Standards | EN 60947-4-1 EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 UL 508 CSA C22.2 No 14 |
| Product certifications | BV CCC CSA DNV GL GOST RINA UL LROS |

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.

| | |
|--------------------------|--|
| Connections - terminals | Control circuit : screw clamp terminals 2 cable(s) 1...2.5 mm ² - cable stiffness: flexible - with cable end Control circuit : screw clamp terminals 1 cable(s) 1...4 mm ² - cable stiffness: flexible - without cable end Control circuit : screw clamp terminals 2 cable(s) 1...4 mm ² - cable stiffness: flexible - without cable end Control circuit : screw clamp terminals 1 cable(s) 1...4 mm ² - cable stiffness: flexible - with cable end Control circuit : screw clamp terminals 1 cable(s) 1...4 mm ² - cable stiffness: solid - without cable end Control circuit : screw clamp terminals 2 cable(s) 1...4 mm ² - cable stiffness: solid - without cable end Power circuit : screw clamp terminals 1 cable(s) 1...35 mm ² - cable stiffness: flexible - without cable end Power circuit : screw clamp terminals 2 cable(s) 1...25 mm ² - cable stiffness: flexible - without cable end Power circuit : screw clamp terminals 1 cable(s) 1...35 mm ² - cable stiffness: flexible - with cable end Power circuit : screw clamp terminals 2 cable(s) 1...25 mm ² - cable stiffness: flexible - with cable end Power circuit : screw clamp terminals 1 cable(s) 1...35 mm ² - cable stiffness: solid - without cable end Power circuit : screw clamp terminals 2 cable(s) 1...25 mm ² - cable stiffness: solid - without cable end |
| Tightening torque | Control circuit : 1.7 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm Control circuit : 1.7 N.m - on screw clamp terminals - with screwdriver Philips No 2 Power circuit : 5 N.m - on screw clamp terminals - cable <= 25 mm ² hexagonal 4 mm Power circuit : 8 N.m - on screw clamp terminals - cable 25...35 mm ² hexagonal 4 mm |
| Operating time | 12...26 ms closing 4...19 ms 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 | 6 Mcycles |
| Operating rate | 3600 cyc/h at <= 60 °C |

Complementary

| | |
|---------------------------------|---|
| Coil technology | Without built-in suppressor module |
| Control circuit voltage limits | 0.3...0.6 U _c at 60 °C drop-out 50 Hz 0.8...1.1 U _c at 60 °C operational 50 Hz |
| Inrush power in VA | 160 VA at 20 °C (cos φ 0.75) 50 Hz |
| Hold-in power consumption in VA | 15 VA at 20 °C (cos φ 0.3) 50 Hz |
| Heat dissipation | 4...5 W at 50 Hz |

Environment

| | |
|---|---|
| IP degree of protection | IP2x front face conforming to IEC 60529 |
| Protective treatment | TH conforming to IEC 60068-2-30 |
| Pollution degree | 3 |
| Ambient air temperature for operation | -5...60 °C |
| Ambient air temperature for storage | -60...80 °C |
| Permissible ambient air temperature around the device | -40...70 °C at U _c |
| Operating altitude | 3000 m without derating in temperature |
| Fire resistance | 850 °C conforming to IEC 60695-2-1 |

| | |
|-----------------------|--|
| Flame retardance | V1 conforming to UL 94 |
| Mechanical robustness | Vibrations contactor open 2 Gn, 5...300 Hz Vibrations contactor closed 4 Gn, 5...300 Hz Shocks contactor open 10 Gn for 11 ms Shocks contactor closed 15 Gn for 11 ms |
| Height | 127 mm |
| Width | 85 mm |
| Depth | 125 mm |
| Product weight | 1.45 kg |

Offer Sustainability

| | |
|----------------------------------|---|
| Sustainable offer status | Not Green Premium product |
| RoHS | Compliant - since 0707 - Schneider Electric declaration of conformity |
| Product end of life instructions | Need no specific recycling operations |