

TeSys D contactor - 3P(3 NO) - AC-3 - <= 440 V 12 A - 220 V AC coil

Local distributor code:

402757854 LC1D123M7

! Discontinued on: 9 Feb 2023

(!) Discontinued

EAN Code: 3389110802993

Main

| Range of product | TeSys Deca |
|--------------------------------|---|
| Product or component type | Contactor |
| Device short name | LC1D |
| Contactor application | Motor control Resistive load |
| Utilisation category | AC-4 AC-1 AC-3 AC-3e |
| Poles description | 3P |
| [Ue] rated operational voltage | Power circuit: <= 690 V AC 25400 Hz Power circuit: <= 300 V DC |
| [le] rated operational current | 16 A (at <60 °C) at <= 440 V AC AC-1 for power circuit 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 |
| [Uc] control circuit voltage | 220 V AC 50/60 Hz |

Complementary

| Motor power kW | 3 kW at 220230 V AC 50/60 Hz (AC-3) 5.5 kW at 380400 V AC 50/60 Hz (AC-3) | |
|-------------------------------------|--|--|
| • | | |
| | 5.5 kW at 415 V AC 50/60 Hz (AC-3) | |
| | 5.5 kW at 440 V AC 50/60 Hz (AC-3) | |
| | 7.5 kW at 500 V AC 50/60 Hz (AC-3) | |
| | 7.5 kW at 660690 V AC 50/60 Hz (AC-3) | |
| | 3 kW at 220230 V AC 50/60 Hz (AC-3e) | |
| | 5.5 kW at 380400 V AC 50/60 Hz (AC-3e) | |
| | 5.5 kW at 415 V AC 50/60 Hz (AC-3e) | |
| | 5.5 kW at 440 V AC 50/60 Hz (AC-3e) | |
| | 7.5 kW at 500 V AC 50/60 Hz (AC-3e) | |
| | 7.5 kW at 660690 V AC 50/60 Hz (AC-3e) | |
| | 3.7 kW at 400 V AC 50/60 Hz (AC-4) | |
| Motor power hp | 0.5 hp at 115 V AC 50/60 Hz for 1 phase motors | |
| | 2 hp at 230/240 V AC 50/60 Hz for 1 phase motors | |
| | 3 hp at 200/208 V AC 50/60 Hz for 3 phases motors | |
| | 3 hp at 230/240 V AC 50/60 Hz for 3 phases motors | |
| | 7.5 hp at 460/480 V AC 50/60 Hz for 3 phases motors | |
| | 10 hp at 575/600 V AC 50/60 Hz for 3 phases motors | |
| Compatibility code | LC1D | |
| Pole contact composition | 3 NO | |
| Protective cover | With | |
| [Ith] conventional free air thermal | 10 A (at 60 °C) for signalling circuit | |

| Irms rated making capacity | 250 A at 440 V for power circuit conforming to IEC 60947 | |
|--|---|--|
| | 140 A AC for signalling circuit conforming to IEC 60947-5-1 | |
| | 250 A DC for signalling circuit conforming to IEC 60947-5-1 | |
| Rated breaking capacity | 250 A at 440 V for power circuit conforming to IEC 60947 | |
| [Icw] rated short-time withstand | 105 A 40 °C - 10 s for power circuit | |
| current | 210 A 40 °C - 1 s for power circuit | |
| | 30 A 40 °C - 10 min for power circuit | |
| | 61 A 40 °C - 1 min for power circuit | |
| | 100 A - 1 s for signalling circuit | |
| | 120 A - 500 ms for signalling circuit 140 A - 100 ms for signalling circuit | |
| Associated fuse rating | 10 A gG for signalling circuit conforming to IEC 60947-5-1 | |
| | 40 A gG at <= 690 V coordination type 1 for power circuit | |
| | 25 A gG at <= 690 V coordination type 2 for power circuit | |
| Average impedance | 2.5 mOhm - Ith 16 A 50 Hz for power circuit | |
| Power dissipation per pole | 0.36 W AC-3 | |
| | 1.56 W AC-1 | |
| | 0.36 W AC-3e | |
| [Ui] rated insulation voltage | Power circuit: 690 V conforming to IEC 60947-4-1 | |
| | Power circuit: 600 V CSA certified | |
| | Power circuit: 600 V UL certified | |
| | Signalling circuit: 690 V conforming to IEC 60947-1 | |
| | Signalling circuit: 600 V CSA certified Signalling circuit: 600 V UL certified | |
| Overveltage esterant | | |
| Overvoltage category | | |
| pollution degree | 3 | |
| [Uimp] rated impulse withstand voltage | 6 kV conforming to IEC 60947 | |
| 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 | 15 Mcycles | |
| Electrical durability 2 Mcycles 12 A AC-3 at Ue <= 440 V | | |
| | 0.8 Mcycles 25 A AC-1 at Ue <= 440 V | |
| | 2 Mcycles 12 A AC-3e at Ue <= 440 V | |
| Control circuit type | AC at 50/60 Hz | |
| Coil technology | Without built-in suppressor module | |
| Control circuit voltage limits | 0.30.6 Uc (-4070 °C):drop-out AC 50/60 Hz | |
| | 0.81.1 Uc (-4060 °C):operational AC 50 Hz | |
| | 0.851.1 Uc (-4060 °C):operational AC 60 Hz | |
| | 11.1 Uc (6070 °C):operational AC 50/60 Hz | |
| Inrush power in VA | 70 VA 60 Hz cos phi 0.75 (at 20 °C) | |
| | 70 VA 50 Hz cos phi 0.75 (at 20 °C) | |
| Hold-in power consumption in VA | 7.5 VA 60 Hz cos phi 0.3 (at 20 °C) | |
| | 7 VA 50 Hz cos phi 0.3 (at 20 °C) | |
| Heat dissipation | 23 W at 50/60 Hz | |
| Operating time | 1222 ms closing | |
| | 419 ms opening | |
| Maximum operating rate | 3600 cyc/h at 60 °C | |
| Connections - terminals | Power circuit: spring terminals 1 2.5 mm² - cable stiffness: flexible without cable end | |
| | Power circuit: spring terminals 2 2.5 mm² - cable stiffness: flexible without cable end | |
| | Control circuit: spring terminals 1 2.5 mm² - cable stiffness: flexible without cable end | |
| | Control circuit: spring terminals 2 2.5 mm² - cable stiffness: flexible without cable end | |
| Auxiliary contact composition | 1 NO + 1 NC | |
| Auxiliary contacts type | type mechanically linked 1 NO + 1 NC conforming to IEC 60947-5-1 | |
| | type micror contact 1 NC conforming to IEC 60947-3-1 | |
| Signalling circuit frequency | 25400 Hz | |
| | ZD4UU MZ | |

| Minimum switching voltage | 17 V for signalling circuit | |
|---------------------------|--|--|
| Minimum switching current | 5 mA for signalling circuit | |
| Insulation resistance | > 10 MOhm for signalling circuit | |
| Non-overlap time | 1.5 ms on de-energisation between NC and NO contact 1.5 ms on energisation between NC and NO contact | |
| Mounting support | Plate Rail | |

Environment

| Standards | CSA C22.2 No 14 | |
|-------------------------------|---|--|
| | EN 60947-4-1 | |
| | EN 60947-5-1 | |
| | IEC 60947-4-1 | |
| | | |
| | IEC 60947-5-1 | |
| | UL 60947-4-1 | |
| | IEC 60335-1:Clause 30.2 | |
| | IEC 60335-2-40:Annex JJ | |
| | UL 60335-2-40:Annex JJ | |
| | CSA C22.2 No 60947-4-1 | |
| | CSA C22.2 NO 00947-4-1 | |
| Product certifications | UL | |
| Troudet der amodations | CCC | |
| | | |
| | CSA | |
| | Marine | |
| | UKCA | |
| | EAC | |
| | CB Scheme | |
| | | |
| IP degree of protection | IP20 front face conforming to IEC 60529 | |
| Protective treatment | TH conforming to IEC 60068-2-30 | |
| Climatic withstand | conforming to IACS E10 exposure to damp heat | |
| | conforming to IEC 60947-1 Annex Q category D exposure to damp heat | |
| | conforming to 120 00347-1 Annex & category B exposure to damp field | |
| Permissible ambient air | -4060 °C | |
| temperature around the device | 6070 °C with derating | |
| | 6070 C with denating | |
| Operating altitude | 03000 m | |
| Fire resistance | 850 °C conforming to IEC 60695-2-1 | |
| | | |
| Flame retardance | V1 conforming to UL 94 | |
| Mechanical robustness | Vibrations contactor open (2 Gn, 5300 Hz) | |
| | Vibrations contactor closed (4 Gn, 5300 Hz) | |
| | | |
| | Shocks contactor open (10 Gn for 11 ms) | |
| | Shocks contactor closed (15 Gn for 11 ms) | |
| Height | 99 mm | |
| Width | 45 mm | |
| Depth | 86 mm | |
| Net weight | 0.325 kg | |
| | | |
| | | |

Packing Units

| Unit Type of Package 1 | PCE |
|------------------------------|-----------|
| Number of Units in Package 1 | 1 |
| Package 1 Height | 5.500 cm |
| Package 1 Width | 10.500 cm |
| Package 1 Length | 10.500 cm |
| Package 1 Weight | 375.000 g |
| Unit Type of Package 2 | S02 |

| Number of Units in Package 2 | 15 |
|------------------------------|------------|
| Package 2 Height | 15.000 cm |
| Package 2 Width | 30.000 cm |
| Package 2 Length | 40.000 cm |
| Package 2 Weight | 5.885 kg |
| Unit Type of Package 3 | P06 |
| Number of Units in Package 3 | 240 |
| Package 3 Height | 75.000 cm |
| Package 3 Width | 80.000 cm |
| Package 3 Length | 60.000 cm |
| Package 3 Weight | 102.160 kg |

Logistical informations

Country of origin FF

Contractual warranty

Warranty 18 months



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 >

| ∅ Environmental footprint | |
|---|-------------------------------|
| Carbon footprint (kg.eq.CO2 per CR, Total Life cycle) | 19 |
| Environmental Disclosure | Product Environmental Profile |

Use Better

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

Use Again

| ○ Repack and remanufacture | |
|----------------------------|---|
| Circularity Profile | End of Life Information |
| Take-back | No |
| WEEE | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |