Product datasheet

Specifications





① Discontinued

TeSys D contactor - 3P(3 NO) -AC-3 - <= 440 V 12 A - 72 V DC

coil

Local distributor code: 402763259

LC1D129SD

() Discontinued on: 9 Feb 2023

EAN Code: 3389110806922

Main

| Range Of Product | TeSys Deca |
|--------------------------------|---|
| Product Or Component Type | Contactor |
| Device Short Name | LC1D |
| Contactor Application | Motor control Resistive load |
| Utilisation Category | AC-3 AC-1 AC-4 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 | 25 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 | 72 V DC |

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 415440 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) |
| | 3.7 kW at 400 V AC 50/60 Hz (AC-4) |
| | 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 415440 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) |
| 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 | 25 A (at 60 °C) for power circuit |
| Thermal Current | 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 Current | 105 A 40 °C - 10 s for power circuit 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 25 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: 600 V conforming to IEC 60947-1 Signalling circuit: 600 V CSA certified Signalling circuit: 600 V UL certified |
| Overvoltage Category | III |
| 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 | 30 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 | DC standard |
| Coil Technology | With integral suppression device |
| Control Circuit Voltage Limits | 0.10.25 Uc (-4070 °C):drop-out DC 0.71.25 Uc (-4060 °C):operational DC 11.25 Uc (6070 °C):operational DC |
| Inrush Power In W | 5.4 W (at 20 °C) |
| Hold-In Power Consumption In W | 5.4 W at 20 °C |
| Operating Time | 63 ±15 % ms closing 20 ±20 % ms opening |
| Time Constant | 28 ms |
| Maximum Operating Rate | 3600 cyc/h 60 °C |
| Connections - Terminals | Control circuit: Faston terminals 1 Power circuit: plug-in connector |
| Auxiliary Contact Composition | 1 NO + 1 NC |
| Auxiliary Contacts Type | type mechanically linked 1 NO + 1 NC conforming to IEC 60947-5-1 type mirror contact 1 NC conforming to IEC 60947-4-1 |
| Signalling Circuit Frequency | 25400 Hz |
| 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 508 |
| | |
| Product Certifications | RINA |
| | 000 |
| | GL |
| | BV |
| | UL |
| | LROS (Lloyds register of shipping) |
| | CSA |
| | DNV |
| | GOST |
| | UKCA |
| 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 |
| Permissible Ambient Air | -4060 °C |
| Temperature Around The Device | 6070 °C with derating |
| 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 | 80 mm |
| Width | 45 mm |
| Depth | 95 mm |
| Net Weight | 0.485 kg |

Packing Units

| Unit Type Of Package 1 | PCE |
|------------------------------|---------|
| Number Of Units In Package 1 | 1 |
| Package 1 Height | 10.9 cm |
| Package 1 Width | 9.0 cm |
| Package 1 Length | 5.4 cm |
| Package 1 Weight | 502.0 g |

Contractual warranty

Warranty

18 months

Sustainability Screen Premium

Green PremiumTM label is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >



Transparency RoHS/REACh

Well-being performance

Mercury Free
Rohs Exemption Information Yes
Pvc Free

Certifications & Standards

| Reach Regulation | REACh Declaration |
|--------------------------|---|
| Eu Rohs Directive | Compliant with Exemptions |
| China Rohs Regulation | China RoHS declaration Product out of China RoHS scope. Substance declaration for your information |
| Environmental Disclosure | Product Environmental Profile |
| | |