



(!) Discontinued

TeSys D contactor - 3P(3 NO) -AC-3 - <= 440 V 50 A - 440 V DC standard coil

LC1D50A3RD

! Discontinued on: 4 Aug 2021

! End-of-service on: 1 Dec 2021

EAN Code: 3389118327900

Main

| Range | TeSys TeSys Deca | |
|--------------------------------|---|--|
| Range Of Product | TeSys Deca | |
| Product Or Component Type | Contactor | |
| Device Short Name | LC1D | |
| Contactor Application | Resistive load Motor control | |
| 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 | 50 A (at <60 °C) at <= 440 V AC AC-3 for power circuit 80 A (at <60 °C) at <= 440 V AC AC-1 for power circuit 50 A (at <60 °C) at <= 440 V AC AC-3e for power circuit | |
| [Uc] Control Circuit Voltage | 440 V DC | |

Complementary

| Motor Power Kw | 15 kW at 220230 V AC 50/60 Hz (AC-3) |
|--------------------------|--|
| | 22 kW at 380400 V AC 50/60 Hz (AC-3) |
| | 30 kW at 500 V AC 50/60 Hz (AC-3) |
| | 33 kW at 660690 V AC 50/60 Hz (AC-3) |
| | 25 kW at 415 V AC 50/60 Hz (AC-3) |
| | 30 kW at 440 V AC 50/60 Hz (AC-3) |
| | 11 kW at 400 V AC 50/60 Hz (AC-4) |
| | 15 kW at 220230 V AC 50/60 Hz (AC-3e) |
| | 22 kW at 380400 V AC 50/60 Hz (AC-3e) |
| | 30 kW at 500 V AC 50/60 Hz (AC-3e) |
| | 33 kW at 660690 V AC 50/60 Hz (AC-3e) |
| | 25 kW at 415 V AC 50/60 Hz (AC-3e) |
| | 30 kW at 440 V AC 50/60 Hz (AC-3e) |
| Motor Power Hp | 3 hp at 115 V AC 50/60 Hz for 1 phase motors |
| | 7.5 hp at 230/240 V AC 50/60 Hz for 1 phase motors |
| | 15 hp at 200/208 V AC 50/60 Hz for 3 phases motors |
| | 15 hp at 230/240 V AC 50/60 Hz for 3 phases motors |
| | 40 hp at 460/480 V AC 50/60 Hz for 3 phases motors |
| | 40 hp at 575/600 V AC 50/60 Hz for 3 phases motors |
| Compatibility Code | LC1D |
| Pole Contact Composition | 3 NO |
| | |

| Contact Compatibility | M4 |
|--|---|
| Protective Cover | With |
| [Ith] Conventional Free Air Thermal Current | 10 A (at 60 °C) for signalling circuit 80 A (at 60 °C) for power circuit |
| Irms Rated Making Capacity | 140 A AC for signalling circuit conforming to IEC 60947-5-1 250 A DC for signalling circuit conforming to IEC 60947-5-1 900 A at 440 V for power circuit conforming to IEC 60947 |
| Rated Breaking Capacity | 900 A at 440 V for power circuit conforming to IEC 60947 |
| [Icw] Rated Short-Time Withstand Current | 400 A 40 °C - 10 s for power circuit 810 A 40 °C - 1 s for power circuit 84 A 40 °C - 10 min for power circuit 208 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 60947-5-1 100 A gG at <= 690 V coordination type 1 for power circuit 100 A gG at <= 690 V coordination type 2 for power circuit |
| Average Impedance | 1.5 mOhm - Ith 80 A 50 Hz for power circuit |
| Power Dissipation Per Pole | 3.7 W AC-3 9.6 W AC-1 3.7 W AC-3e |
| [Ui] Rated Insulation Voltage | 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 Power circuit: 690 V conforming to IEC 60947-4-1 |
| 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 | 10 Mcycles |
| Electrical Durability | 1.45 Mcycles 50 A AC-3 at Ue <= 440 V 0.5 Mcycles 80 A AC-1 at Ue <= 440 V 1.45 Mcycles 50 A AC-3e at Ue <= 440 V |
| Control Circuit Type | DC standard |
| Coil Technology | Built-in bidirectional peak limiting diode suppressor |
| Control Circuit Voltage Limits | 0.10.3 Uc (-4070 °C):drop-out DC 0.751.25 Uc (-4060 °C):operational DC 11.25 Uc (6070 °C):operational DC |
| Inrush Power In W | 19 W (at 20 °C) |
| Hold-In Power Consumption In W | 7.4 W at 20 °C |
| Operating Time | 42.557.5 ms closing 1624 ms opening |
| Time Constant | 34 ms |
| Maximum Operating Rate | 3600 cyc/h 60 °C |

| Connections - Terminals | Power circuit: EverLink BTR screw connectors 1 135 mm² - cable stiffness: flexible | |
|--|---|--|
| | without cable end Power circuit: EverLink BTR screw connectors 2 125 mm² - cable stiffness: flexible | |
| | without cable end Power circuit: EverLink BTR screw connectors 1 135 mm² - cable stiffness: flexible | |
| | with cable end | |
| | Power circuit: EverLink BTR screw connectors 2 125 mm² - cable stiffness: flexible with cable end | |
| | Power circuit: EverLink BTR screw connectors 1 135 mm² - cable stiffness: solid | |
| | without cable end Power circuit: EverLink BTR screw connectors 2 125 mm² - cable stiffness: solid | |
| | without cable end Control circuit: spring terminals 1 2.5 mm ² - cable stiffness: flexible without cable end | |
| | Control circuit: spring terminals 12.5 mm² - cable stiffness: flexible without cable end | |
| Fightening Torque | Power circuit: 8 N.m - on EverLink BTR screw connectors - cable 2535 mm² | |
| | hexagonal screw head 4 mm Power circuit: 5 N.m - on EverLink BTR screw connectors - cable 125 mm² | |
| | hexagonal screw head 4 mm | |
| | Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver pozidriv No 2 Power circuit: 2.5 N.m - on screw clamp terminals - with screwdriver pozidriv No 2 | |
| 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 | |
| linimum Switching Voltage | 17 V for signalling circuit | |
| linimum Switching Current | 5 mA for signalling circuit | |
| nsulation Resistance | > 10 MOhm for signalling circuit | |
| Ion-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 | Rail Plate | |
| | | |
| 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 | |
| | IEC 60335-1 | |
| Product Certifications | GL | |
| | LROS (Lloyds register of shipping) | |
| | BV CSA | |
| | UL | |
| | CCC | |
| | RINA | |
| | DNV GOST | |
| 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 Femperature Around The Device | -4060 °C 6070 °C with derating | |
| Operating Altitude | 03000 m | |
| rporuming minuae | V3000 III | |

850 °C conforming to IEC 60695-2-1

V1 conforming to UL 94

Fire Resistance

Flame Retardance

| Mechanical Robustness | Vibrations contactor open (2 Gn, 5300 Hz) Vibrations contactor closed (4 Gn, 5300 Hz) Shocks contactor closed (15 Gn for 11 ms) Shocks contactor open (10 Gn for 11 ms) |
|-----------------------|---|
| Height | 122 mm |
| Width | 55 mm |
| Depth | 120 mm |
| Net Weight | 0.93 kg |

Packing Units

| Unit Type Of Package 1 | PCE |
|------------------------------|-------|
| Number Of Units In Package 1 | 1 |
| Package 1 Height | 6 cm |
| Package 1 Width | 14 cm |
| Package 1 Length | 15 cm |
| Package 1 Weight | 850 g |

Contractual warranty

Warranty 18 months



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

| Ø | Reach Free Of Svhc | |
|----------|----------------------------|-----|
| ② | Mercury Free | |
| Ø | Rohs Exemption Information | Yes |
| ⊘ | Pvc Free | |

Certifications & Standards

| Reach Regulation | REACh Declaration |
|--------------------------|---|
| Eu Rohs Directive | Compliant EU RoHS Declaration |
| China Rohs Regulation | China RoHS declaration Pro-active China RoHS declaration (out of China RoHS legal scope) |
| Environmental Disclosure | Product Environmental Profile |
| 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 |