

Product datasheet

Specifications



TeSys D contactor - 3P(3 NO) - AC-3 - <= 440 V 115 A - 24 V DC standard coil

LC1D1156BD

Main

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|--------------------------------|--|
| Range | TeSys |
| 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: <= 1000 V AC 25...400 Hz Power circuit: <= 300 V DC |
| [Ie] Rated Operational Current | 200 A (at <60 °C) at <= 440 V AC AC-1 for power circuit 115 A (at <60 °C) at <= 440 V AC AC-3 for power circuit 115 A (at <60 °C) at <= 440 V AC AC-3e for power circuit |
| [Uc] Control Circuit Voltage | 24 V DC |

Complementary

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|---|---|
| Motor Power Kw | 30 kW at 220...230 V AC 50/60 Hz (AC-3) 55 kW at 380...400 V AC 50/60 Hz (AC-3) 59 kW at 415...440 V AC 50/60 Hz (AC-3) 75 kW at 500 V AC 50/60 Hz (AC-3) 80 kW at 660...690 V AC 50/60 Hz (AC-3) 65 kW at 1000 V AC 50/60 Hz (AC-3) 18.5 kW at 400 V AC 50/60 Hz (AC-4) 30 kW at 220...230 V AC 50/60 Hz (AC-3e) 55 kW at 380...400 V AC 50/60 Hz (AC-3e) 59 kW at 415...440 V AC 50/60 Hz (AC-3e) 75 kW at 500 V AC 50/60 Hz (AC-3e) 80 kW at 660...690 V AC 50/60 Hz (AC-3e) 65 kW at 1000 V AC 50/60 Hz (AC-3e) |
| Motor Power Hp | 30 hp at 200/208 V AC 50/60 Hz for 3 phases motors 40 hp at 230/240 V AC 50/60 Hz for 3 phases motors 75 hp at 460/480 V AC 50/60 Hz for 3 phases motors 100 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 Current | 200 A (at 60 °C) for power circuit |
| Irms Rated Making Capacity | 1260 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 |

Disclaimer: 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

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|---|---|
| Rated Breaking Capacity | 1100 A at 440 V for power circuit conforming to IEC 60947 |
| [Icw] Rated Short-Time Withstand Current | 250 A 40 °C - 10 min for power circuit 550 A 40 °C - 1 min for power circuit 950 A 40 °C - 10 s for power circuit 1100 A 40 °C - 1 s 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 | 250 A gG at <= 690 V coordination type 1 for power circuit 200 A gG at <= 690 V coordination type 2 for power circuit 10 A gG for signalling circuit |
| Average Impedance | 0.6 mOhm - Ith 200 A 50 Hz for power circuit |
| Power Dissipation Per Pole | 24 W AC-1 7.9 W AC-3 7.9 W AC-3e |
| [Ui] Rated Insulation Voltage | Power circuit: 600 V CSA certified Power circuit: 600 V UL certified Power circuit: 1000 V conforming to IEC 60947-4-1 Signalling circuit: 690 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 | 8 kV conforming to IEC 60947 |
| Safety Reliability Level | B10d = 684932 cycles contactor with nominal load conforming to EN/ISO 13849-1 B10d = 10000000 cycles contactor with mechanical load conforming to EN/ISO 13849-1 |
| Mechanical Durability | 8 Mcycles |
| Electrical Durability | 0.8 Mcycles 200 A AC-1 at Ue <= 440 V 0.95 Mcycles 115 A AC-3 at Ue <= 440 V 0.95 Mcycles 115 A AC-3e at Ue <= 440 V |
| Control Circuit Type | DC standard |
| Coil Technology | With integral suppression device |
| Control Circuit Voltage Limits | 0.75...1.2 Uc (-40...55 °C):operational DC 0.15...0.4 Uc (-40...70 °C):drop-out DC 1...1.2 Uc (55...70 °C):operational DC |
| Inrush Power In W | 270...365 W (at 20 °C) |
| Hold-In Power Consumption In W | 2.4...5.1 W at 20 °C |
| Operating Time | 20...35 ms closing 40...75 ms opening |
| Time Constant | 25 ms |
| Maximum Operating Rate | 1200 cyc/h 60 °C |
| Connections - Terminals | Control circuit: lugs-ring terminals - external diameter: 8 mm Power circuit: lugs-ring terminals - external diameter: 25 mm Power circuit: bars 1 - busbar cross section: 5 x 25 mm |
| Tightening Torque | Control circuit: 1.2 N.m - on lugs-ring terminals - with screwdriver flat Ø 6 mm M3.5 Control circuit: 1.2 N.m - on lugs-ring terminals - with screwdriver Philips No 2 M3.5 Power circuit: 12 N.m - on lugs-ring terminals hexagonal screw head 13 mm M8 Power circuit: 12 N.m - on bars hexagonal screw head 13 mm M8 Control circuit: 1.2 N.m - on lugs-ring terminals - with screwdriver pozidriv No 2 M3.5 |
| 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 | 25...400 Hz |
| Minimum Switching Voltage | 17 V for signalling circuit |

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|---------------------------|---|
| 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 | Rail Plate |

Environment

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|---|---|
| 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 | GOST CCC RINA CSA UL BV GL LROS (Lloyds register of shipping) DNV UKCA CE |
| 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 Temperature Around The Device | -40...60 °C 60...70 °C with derating |
| Operating Altitude | 0...3000 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, 5...300 Hz) Vibrations contactor closed (4 Gn, 5...300 Hz) Shocks contactor closed (15 Gn for 11 ms) Shocks contactor open (6 Gn for 11 ms) |
| Height | 158 mm |
| Width | 120 mm |
| Depth | 136 mm |
| Net Weight | 2.5 kg |

Packing Units

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|------------------------------|-----------|
| Unit Type Of Package 1 | PCE |
| Number Of Units In Package 1 | 1 |
| Package 1 Height | 19.500 cm |
| Package 1 Width | 24.000 cm |
| Package 1 Length | 21.000 cm |
| Package 1 Weight | 2.180 kg |
| Unit Type Of Package 2 | P06 |
| Number Of Units In Package 2 | 27 |

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|------------------|-----------|
| Package 2 Height | 75.000 cm |
| Package 2 Width | 60.000 cm |
| Package 2 Length | 80.000 cm |
| Package 2 Weight | 71.860 kg |

Contractual warranty

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| Warranty | 18 months |
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Sustainability



Green Premium™ label is Schneider Electric’s commitment to delivering products with best-in-class 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](#)

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](#)