

Product data sheet

Specifications



IEC contactor, TeSys Deca Green, nonreversing, 80A resistive, 4 pole, 4 NO, 24VDC coil, open style

LC1DT80ABBE

Product availability: Stock - Normally stocked in distribution facility

Price*: 642.00 USD

Main

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|--------------------------------|--|
| Range | TeSys TeSys Deca |
| Range Of Product | TeSys Deca |
| Product Or Component Type | Contactors |
| Device Short Name | LC1D |
| Contactors Application | Resistive load |
| Utilisation Category | AC-1 |
| Poles Description | 4P |
| [Ue] Rated Operational Voltage | Power circuit <= 690 V AC 25...400 Hz |
| [Ie] Rated Operational Current | 80 A (at <140 °F (60 °C)) at <= 440 V AC-1 for power circuit |
| [Uc] Control Circuit Voltage | 24 V DC |

Complementary

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|---|--|
| Compatibility Code | LC1D |
| Pole Contact Composition | 4 NO |
| Protective Cover | With |
| [Ith] Conventional Free Air Thermal Current | 80 A (at 140 °F (60 °C)) for power circuit 10 A (at 140 °F (60 °C)) for signalling circuit |
| Irms Rated Making Capacity | 1000 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 | 1000 A at 440 V for power circuit conforming to IEC 60947 |
| [Icw] Rated Short-Time Withstand Current | 110 A 104 °F (40 °C) - 10 min for power circuit 260 A 104 °F (40 °C) - 1 min for power circuit 520 A 104 °F (40 °C) - 10 s for power circuit 900 A 104 °F (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 | 125 A gG at <= 690 V coordination type 1 for power circuit 125 A gG at <= 690 V coordination type 2 for power circuit 10 A gG for signalling circuit conforming to IEC 60947-5-1 |
| Average Impedance | 1.6 mOhm - Ith 80 A 50 Hz for power circuit |
| Power Dissipation Per Pole | 10.2 W AC-1 |
| [Ui] Rated Insulation Voltage | Power circuit 690 V IEC 60947-4-1 Signalling circuit 690 V IEC 60947-1 |
| Overvoltage Category | III |

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

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| Pollution Degree | 3 |
| [Uimp] Rated Impulse Withstand Voltage | 6 kV IEC 60947 |
| Safety Reliability Level | B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1 |
| Mechanical Durability | 6 Mcycles |
| Electrical Durability | 0.5 Mcycles 80 A AC-1 <= 440 V |
| Control Circuit Type | DC DC low consumption |
| Coil Technology | Built-in bidirectional peak limiting |
| Control Circuit Voltage Limits | <= 0.1 Uc -40...158 °F (-40...70 °C) drop-out DC 0.8...1.2 Uc -40...140 °F (-40...60 °C) operational DC 1...1.2 Uc 140...158 °F (60...70 °C) operational DC |
| Inrush Power In W | 11 W 68 °F (20 °C)) |
| Hold-In Power Consumption In W | 0.5 W 68 °F (20 °C) |
| Heat Dissipation | 0.5 W |
| Operating Time | 55...65 ms closing 20...80 ms opening |
| Maximum Operating Rate | 3600 cyc/h 140 °F (60 °C) |
| Connections - Terminals | Control circuit: screw clamp terminals 1 0.00...0.01 in ² (1...4 mm ²) - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 2 0.00...0.01 in ² (1...4 mm ²) - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 1 0.00...0.01 in ² (1...4 mm ²) - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 2 0.00...0.00 in ² (1...2.5 mm ²) - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 0.00...0.01 in ² (1...4 mm ²) - cable stiffness: solid Control circuit: screw clamp terminals 2 0.00...0.01 in ² (1...4 mm ²) - cable stiffness: solid Power circuit: EverLink BTR screw connectors 1 0.00...0.05 in ² (1...35 mm ²) - cable stiffness: flexible without cable end Power circuit: EverLink BTR screw connectors 1 0.00...0.05 in ² (1...35 mm ²) - cable stiffness: flexible with cable end Power circuit: EverLink BTR screw connectors 1 0.00...0.05 in ² (1...35 mm ²) - cable stiffness: solid Power circuit: EverLink BTR screw connectors 2 0.00...0.04 in ² (1...25 mm ²) - cable stiffness: flexible without cable end Power circuit: EverLink BTR screw connectors 2 0.00...0.04 in ² (1...25 mm ²) - cable stiffness: flexible with cable end Power circuit: EverLink BTR screw connectors 2 0.00...0.04 in ² (1...25 mm ²) - cable stiffness: solid |
| Tightening Torque | Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals flat Ø 6 mm Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals Philips No 2 Power circuit 70.81 lbf.in (8 N.m) EverLink BTR screw connectors 0.04...0.05 in ² (25...35 mm ²) hexagonal 0.16 in (4 mm) Power circuit 44.25 lbf.in (5 N.m) EverLink BTR screw connectors 0.00...0.04 in ² (1...25 mm ²) hexagonal 0.16 in (4 mm) Power circuit 44.25 lbf.in (5 N.m) pozidriv No 2 Control circuit 15.05 lbf.in (1.7 N.m) pozidriv No 2 |
| Auxiliary Contact Composition | 1 NO + 1 NC |
| Auxiliary Contacts Type | Mechanically linked 1 NO + 1 NC IEC 60947-5-1 Mirror contact 1 NC IEC 60947-4-1 |
| Signalling Circuit Frequency | 25...400 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 |

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| Mounting Support | Plate Rail |
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Environment

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| Standards | EN/IEC 60947-4-1 EN/IEC 60947-5-1 UL 60947-4-1 CSA C22.2 No 60947-4-1 IEC 60335-1 |
| Product Certifications | CCC CSA EAC UL KC DNV-GL LROS (Lloyds register of shipping) UKCA |
| Ip Degree Of Protection | IP20 front face IEC 60529 |
| Climatic Withstand | IACS E10 exposure to damp heat IEC 60947-1 Annex Q category D exposure to damp heat |
| Permissible Ambient Air Temperature Around The Device | -40...140 °F (-40...60 °C) 140...158 °F (60...70 °C) with derating |
| Operating Altitude | 0...9842.52 ft (0...3000 m) |
| Fire Resistance | 1562 °F (850 °C) 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 | 4.80 in (122 mm) |
| Width | 2.76 in (70 mm) |
| Depth | 4.72 in (120 mm) |
| Net Weight | 2.84 lb(US) (1.290 kg) |

Ordering and shipping details

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|--------------------------|-------------------------------------|
| Category | 22357-CTR, TESYS D, OPEN, 40-65A AC |
| Discount Schedule | I12 |
| Gtin | 3606489493578 |
| Returnability | Yes |
| Country Of Origin | MX |

Packing Units

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|-------------------------------------|------------------------|
| Unit Type Of Package 1 | PCE |
| Number Of Units In Package 1 | 1 |
| Package 1 Height | 3.07 in (7.800 cm) |
| Package 1 Width | 5.43 in (13.800 cm) |
| Package 1 Length | 6.02 in (15.300 cm) |
| Package 1 Weight | 2.70 lb(US) (1.223 kg) |
| Unit Type Of Package 2 | S02 |
| Number Of Units In Package 2 | 7 |

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|-------------------------|-------------------------|
| Package 2 Height | 5.91 in (15.000 cm) |
| Package 2 Width | 11.81 in (30.000 cm) |
| Package 2 Length | 15.75 in (40.000 cm) |
| Package 2 Weight | 19.56 lb(US) (8.871 kg) |

Contractual warranty

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|-----------------|-----------|
| Warranty | 18 months |
|-----------------|-----------|

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](#)

✓ Halogen Free Plastic Parts & Cables Product

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](#)