

Product data sheet

Specifications



TeSys Deca contactor , 4P(4 NO) , AC-1 , <= 440V, 80 A , 220V AC 50/60 Hz coil

LC1DT80A3M7

⚠ Discontinued on: May 19, 2023

⚠ Discontinued

Main

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| Range | TeSys |
| Range Of Product | TeSys Deca |
| Product Or Component Type | Contactor |
| Device Short Name | LC1D |
| Contactor Application | Resistive load |
| Utilisation Category | AC-1 |
| Poles Description | 4P |
| [Ue] Rated Operational Voltage | Power circuit <= 690 V AC 25...400 Hz Power circuit <= 300 V DC |
| [Ie] Rated Operational Current | 80 A (at <140 °F (60 °C)) at <= 440 V AC AC-1 for power circuit |
| [Uc] Control Circuit Voltage | 220 V AC 50/60 Hz |

Complementary

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| Compatibility Code | LC1D |
| Pole Contact Composition | 4 NO |
| Protective Cover | With |
| [Ith] Conventional Free Air Thermal Current | 10 A (at 140 °F (60 °C)) for signalling circuit 80 A (at 140 °F (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 1000 A at 440 V for power circuit conforming to IEC 60947 |
| Rated Breaking Capacity | 1000 A at 440 V for power circuit conforming to IEC 60947 |
| [Icw] Rated Short-Time Withstand Current | 640 A 104 °F (40 °C) - 10 s for power circuit 900 A 104 °F (40 °C) - 1 s for power circuit 110 A 104 °F (40 °C) - 10 min for power circuit 260 A 104 °F (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 60947-5-1 125 A gG at <= 690 V coordination type 1 for power circuit 125 A gG at <= 690 V coordination type 2 for power circuit |
| Average Impedance | 1.6 mOhm - Ith 80 A 50 Hz for power circuit |
| Power Dissipation Per Pole | 10.2 W AC-1 |

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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| [Ui] Rated Insulation Voltage | Power circuit 600 V CSA Power circuit 600 V UL Signalling circuit 690 V IEC 60947-1 Signalling circuit 600 V CSA Signalling circuit 600 V UL Power circuit 690 V IEC 60947-4-1 |
| Overvoltage Category | III |
| 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 | 1.4 Mcycles 80 A AC-1 <= 440 V |
| Control Circuit Type | AC 50/60 Hz |
| Coil Technology | Without built-in suppressor module |
| Control Circuit Voltage Limits | 0.3...0.6 Uc -40...158 °F (-40...70 °C) drop-out AC 50/60 Hz 0.8...1.1 Uc -40...140 °F (-40...60 °C) operational AC 50 Hz 0.85...1.1 Uc -40...140 °F (-40...60 °C) operational AC 60 Hz 1...1.1 Uc 140...158 °F (60...70 °C) operational AC 50/60 Hz |
| Inrush Power In Va | 140 VA 60 Hz cos phi 0.75 (at 68 °F (20 °C)) 160 VA 50 Hz cos phi 0.75 (at 68 °F (20 °C)) |
| Hold-In Power Consumption In Va | 13 VA 60 Hz cos phi 0.3 (at 68 °F (20 °C)) 15 VA 50 Hz cos phi 0.3 (at 68 °F (20 °C)) |
| Heat Dissipation | 4...5 W at 50/60 Hz |
| Operating Time | 4...19 ms opening 12...26 ms closing |
| Maximum Operating Rate | 3600 cyc/h 140 °F (60 °C) |
| Connections - Terminals | 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 2 0.00...0.04 in ² (1...25 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 2 0.00...0.04 in ² (1...25 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 without cable end Power circuit: EverLink BTR screw connectors 2 0.00...0.04 in ² (1...25 mm ²) - cable stiffness: solid without cable end Control circuit: spring terminals 1 0.00 in ² (2.5 mm ²) - cable stiffness: flexible without cable end Control circuit: spring terminals 2 0.00 in ² (2.5 mm ²) - cable stiffness: flexible without cable end |
| Tightening Torque | 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) |
| 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 | Rail Plate |
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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 | GL DNV CCC BV RINA LROS (Lloyds register of shipping) UL CSA GOST |
| Ip Degree Of Protection | IP20 front face IEC 60529 |
| Protective Treatment | THIEC 60068-2-30 |
| 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 |
| 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 10 Gn for 11 ms) |
| Height | 4.80 in (122 mm) |
| Width | 2.76 in (70 mm) |
| Depth | 4.72 in (120 mm) |
| Net Weight | 2.54 lb(US) (1.15 kg) |

Environmental

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| Flame Retardance | V1 conforming to UL 94 |
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Ordering and shipping details

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|-------------------|----------------------------------|
| Category | 22357-CTR,TESYS D,OPEN,40-65A AC |
| Discount Schedule | I12 |
| Gtin | 3389118330443 |
| Returnability | No |
| Country Of Origin | FR |

Packing Units

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|------------------------------|-------------------|
| Unit Type Of Package 1 | PCE |
| Number Of Units In Package 1 | 1 |
| Package 1 Height | 3.15 in (8 cm) |
| Package 1 Width | 5.31 in (13.5 cm) |

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| Package 1 Length | 5.91 in (15 cm) |
| Package 1 Weight | 2.36 lb(US) (1.07 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 >](#)

Well-being performance

| | | |
|---------------------------|---|-----|
| ✓ | Reach Free Of Svhc | |
| ✓ | Toxic Heavy Metal Free | |
| ✓ | Mercury Free | |
| ✓ | Rohs Exemption Information | Yes |
| ✓ | Pvc Free | |
| | | |
| 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) | |
| Weee | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins. | |
| California Proposition 65 | WARNING: This product can expose you to chemicals including: Antimony oxide & Antimony trioxide, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov | |