

Product data sheet

Specifications



IEC contactor, TeSys Deca, nonreversing, 115A, 75HP at 480VAC, 3 phase, 3 pole, 3 NO, 24VAC 50/60Hz coil, open style

LC1D1156B7

Product availability: Stock - Normally stocked in distribution facility

Price*: 479.00 USD

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 Motor control |
| Utilisation Category | AC-4 AC-3 AC-1 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 <140 °F (60 °C)) at <= 440 V AC AC-1 for power circuit 115 A (at <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit 115 A (at <140 °F (60 °C)) at <= 440 V AC AC-3e for power circuit |
| [Uc] Control Circuit Voltage | 24 V AC 50/60 Hz |

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) |
| Maximum Horse Power Rating | 30 hp at 200/208 V AC 50/60 Hz for 3 phase motors 40 hp at 230/240 V AC 50/60 Hz for 3 phase motors 75 hp at 460/480 V AC 50/60 Hz for 3 phase motors 100 hp at 575/600 V AC 50/60 Hz for 3 phase motors |
| Compatibility Code | LC1D |
| Pole Contact Composition | 3 NO |
| Protective Cover | With |

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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| [Ith] Conventional Free Air Thermal Current | 200 A (at 140 °F (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 |
| Rated Breaking Capacity | 1100 A at 440 V for power circuit conforming to IEC 60947 |
| [Icw] Rated Short-Time Withstand Current | 250 A 104 °F (40 °C) - 10 min for power circuit 550 A 104 °F (40 °C) - 1 min for power circuit 950 A 104 °F (40 °C) - 10 s for power circuit 1100 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 | 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 |
| [Uij] Rated Insulation Voltage | Power circuit 600 V CSA Power circuit 600 V UL Power circuit 1000 V IEC 60947-4-1 Signalling circuit 690 V IEC 60947-1 Signalling circuit 600 V CSA Signalling circuit 600 V UL |
| Overvoltage Category | III |
| Pollution Degree | 3 |
| [Uimp] Rated Impulse Withstand Voltage | 8 kV IEC 60947 |
| Safety Reliability Level | B10d = 684932 cycles contactor with nominal load EN/ISO 13849-1 B10d = 10000000 cycles contactor with mechanical load EN/ISO 13849-1 |
| Mechanical Durability | 8 Mcycles |
| Electrical Durability | 0.8 Mcycles 200 A AC-1 <= 440 V 0.95 Mcycles 115 A AC-3 <= 440 V 0.95 Mcycles 115 A AC-3e <= 440 V |
| Control Circuit Type | AC 50/60 Hz |
| Coil Technology | Built-in bidirectional peak limiting diode suppressor |
| Control Circuit Voltage Limits | 0.3...0.5 Uc -40...158 °F (-40...70 °C) drop-out AC 50/60 Hz 0.8...1.15 Uc -40...131 °F (-40...55 °C) operational AC 50/60 Hz 1...1.15 Uc 131...158 °F (55...70 °C) operational AC 50/60 Hz |
| Inrush Power In Va | 280...350 VA 60 Hz cos phi 0.8 (at 68 °F (20 °C)) 280...350 VA 50 Hz cos phi 0.8 (at 68 °F (20 °C)) |
| Hold-In Power Consumption In Va | 2...18 VA 60 Hz cos phi 0.3 (at 68 °F (20 °C)) 2...18 VA 50 Hz cos phi 0.3 (at 68 °F (20 °C)) |
| Heat Dissipation | 3...8 W at 50/60 Hz |
| Operating Time | 6...20 ms opening 20...50 ms closing |
| Maximum Operating Rate | 2400 cyc/h 140 °F (60 °C) |
| Connections - Terminals | Control circuit: lugs-ring terminals - external diameter: 0.31 in (8 mm) Power circuit: lugs-ring terminals - external diameter: 0.98 in (25 mm) Power circuit: bars 1 - busbar cross section: 5 x 25 mm |
| Tightening Torque | Control circuit 10.62 lbf.in (1.2 N.m) lugs-ring terminals flat Ø 6 mm M3.5 Control circuit 10.62 lbf.in (1.2 N.m) lugs-ring terminals Philips No 2 M3.5 Power circuit 106.21 lbf.in (12 N.m) lugs-ring terminals hexagonal 0.51 in (13 mm) M8 Power circuit 106.21 lbf.in (12 N.m) bars hexagonal 0.51 in (13 mm) M8 Control circuit 10.62 lbf.in (1.2 N.m) lugs-ring terminals pozidriv No 2 M3.5 |

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| 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 |
| 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 | GL UL RINA CSA LROS (Lloyds register of shipping) DNV GOST CCC BV UKCA CE |
| 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 |
| 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 | 6.22 in (158 mm) |
| Width | 4.72 in (120 mm) |
| Depth | 5.35 in (136 mm) |
| Net Weight | 5.51 lb(US) (2.5 kg) |

Ordering and shipping details

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|--------------------------|---------------|
| Category | US10I1222359 |
| Discount Schedule | 0I12 |
| Gtin | 3389110380514 |

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| Returnability | Yes |
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| Country Of Origin | CZ |
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Packing Units

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| Unit Type Of Package 1 | PCE |
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| Number Of Units In Package 1 | 1 |
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| Package 1 Height | 7.40 in (18.8 cm) |
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| Package 1 Width | 7.00 in (17.78 cm) |
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|-------------------------|--------------------|
| Package 1 Length | 8.00 in (20.32 cm) |
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| Package 1 Weight | 4.81 lb(US) (2.18 kg) |
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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

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|---------------------------|---|
| 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 |
| 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 |