

Product data sheet کلیک کنید

Specifications



IEC contactor, TeSys Deca, nonreversing, 115A, 75HP at 480VAC, up to 100kA SCCR, 3 phase, 3 NO, 24VDC coil, open style

LC1D115BD

Product availability: Stock - Normally stocked in distribution facility

Price*: 479.00 USD

Main

| | |
|--------------------------------|---|
| Range | TeSys |
| Range Of Product | TeSys Deca |
| Product Or Component Type | Contactors |
| Device Short Name | LC1D |
| Contactors Application | Resistive load Motor control |
| Utilisation Category | AC-4 AC-1 AC-3 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 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) |
| 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 |
| Contact Compatibility | M10 |

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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| Protective Cover | With |
| [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 | DC standard |
| Coil Technology | With integral suppression device |
| Control Circuit Voltage Limits | 0.75...1.2 Uc -40...131 °F (-40...55 °C) operational DC 0.15...0.4 Uc -40...158 °F (-40...70 °C) drop-out DC 1...1.2 Uc 131...158 °F (55...70 °C) operational DC |
| Inrush Power In W | 270...365 W 68 °F (20 °C)) |
| Hold-In Power Consumption In W | 2.4...5.1 W 68 °F (20 °C) |
| Operating Time | 20...35 ms closing 40...75 ms opening |
| Time Constant | 25 ms |
| Maximum Operating Rate | 1200 cyc/h 140 °F (60 °C) |

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| Connections - Terminals | <p>Control circuit: screw clamp terminals 2 0.00...0.00 in² (1...2.5 mm²) - cable stiffness: flexible with cable end</p> <p>Control circuit: screw clamp terminals 1 0.00...0.00 in² (1...2.5 mm²) - cable stiffness: flexible with cable end</p> <p>Control circuit: screw clamp terminals 1 0.00...0.00 in² (1...2.5 mm²) - cable stiffness: flexible without cable end</p> <p>Control circuit: screw clamp terminals 2 0.00...0.00 in² (1...2.5 mm²) - cable stiffness: flexible without cable end</p> <p>Control circuit: screw clamp terminals 1 0.00...0.00 in² (1...2.5 mm²) - cable stiffness: solid without cable end</p> <p>Control circuit: screw clamp terminals 2 0.00...0.00 in² (1...2.5 mm²) - cable stiffness: solid without cable end</p> <p>Power circuit: connector 1 0.02...0.19 in² (10...120 mm²) - cable stiffness: flexible without cable end</p> <p>Power circuit: connector 2 0.02...0.08 in² (10...50 mm²) - cable stiffness: flexible without cable end</p> <p>Power circuit: connector 1 0.02...0.19 in² (10...120 mm²) - cable stiffness: flexible with cable end</p> <p>Power circuit: connector 2 0.02...0.08 in² (10...50 mm²) - cable stiffness: flexible with cable end</p> <p>Power circuit: connector 1 0.02...0.19 in² (10...120 mm²) - cable stiffness: solid without cable end</p> <p>Power circuit: connector 2 0.02...0.08 in² (10...50 mm²) - cable stiffness: solid without cable end</p> |
| Tightening Torque | <p>Control circuit 10.62 lbf.in (1.2 N.m) screw clamp terminals flat Ø 6 mm</p> <p>Control circuit 10.62 lbf.in (1.2 N.m) screw clamp terminals Philips No 2</p> <p>Power circuit 106.21 lbf.in (12 N.m) connector hexagonal 0.16 in (4 mm)</p> <p>Control circuit 10.62 lbf.in (1.2 N.m) screw clamp terminals pozidriv No 2</p> |
| 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 | Plate Rail |

Environment

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|--------------------------------|--|
| Standards | <p>CSA C22.2 No 14</p> <p>EN 60947-4-1</p> <p>EN 60947-5-1</p> <p>IEC 60947-4-1</p> <p>IEC 60947-5-1</p> <p>UL 508</p> |
| Product Certifications | <p>CCC</p> <p>UL</p> <p>BV</p> <p>CSA</p> <p>GL</p> <p>GOST</p> <p>DNV</p> <p>LROS (Lloyds register of shipping)</p> <p>RINA</p> <p>UKCA</p> <p>CE</p> |
| Ip Degree Of Protection | IP20 front face IEC 60529 |
| Protective Treatment | THIEC 60068-2-30 |
| Climatic Withstand | <p>IACS E10 exposure to damp heat</p> <p>IEC 60947-1 Annex Q category D exposure to damp heat</p> |

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| 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 | 3389110376463 |
| Returnability | Yes |
| Country Of Origin | US |

Packing Units

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|-------------------------------------|---------------------------|
| Unit Type Of Package 1 | PCE |
| Number Of Units In Package 1 | 1 |
| Package 1 Height | 8.66 in (22.000 cm) |
| Package 1 Width | 7.87 in (20.000 cm) |
| Package 1 Length | 9.06 in (23.000 cm) |
| Package 1 Weight | 5.46 lb(US) (2.478 kg) |
| Unit Type Of Package 2 | P06 |
| Number Of Units In Package 2 | 27 |
| Package 2 Height | 29.53 in (75.000 cm) |
| Package 2 Width | 23.62 in (60.000 cm) |
| Package 2 Length | 31.50 in (80.000 cm) |
| Package 2 Weight | 175.92 lb(US) (79.798 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

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](#)

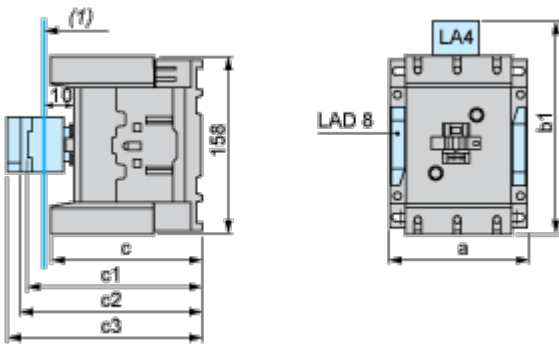
Weee The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

Circularity Profile [End of Life Information](#)

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

Dimensions Drawings

Dimensions



(1) Minimum electrical clearance

| LC1 | | D115 and D150 (3-pole) |
|-----|------------------------------------|------------------------|
| a | | 120 |
| b1 | with LA4 DA2 | 174 |
| | with LA4 DF, DT | 185 |
| | with LA4 DM, DL | 188 |
| | with LA4 DW | 188 |
| c | without cover or add-on blocks | 132 |
| | with cover, without add-on blocks | 136 |
| c1 | with LAD N or C (2 or 4 contacts) | 150 |
| c2 | with LA6 DK20 | 155 |
| c3 | with LAD T, R, S | 168 |
| | with LAD T, R, S and sealing cover | 172 |

Connections and Schema

Wiring

