

Product data sheet

Specifications



TeSys Deca reversing contactor - 3P(3 NO) - AC-3 - <= 440 V 9 A - 24 V DC coil

LC2D093BD

Product availability: Non-Stock - Not normally stocked in distribution facility

Price*: 303.50 USD

Main

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|---|--|
| Range | TeSys TeSys Deca |
| Product Name | TeSys D TeSys Deca |
| Product Or Component Type | Reversing contactor |
| Device Short Name | LC2D |
| Contactor Application | Resistive load Motor control |
| Utilisation Category | AC-1 AC-3 |
| Device Presentation | Preassembled with reversing power busbar |
| Poles Description | 3P |
| Power Pole Contact Composition | 3 NO |
| [Ue] Rated Operational Voltage | Power circuit <= 690 V AC 25...400 Hz Power circuit <= 300 V DC |
| [Ie] Rated Operational Current | 9 A (at <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit 16 A (at <140 °F (60 °C)) at <= 440 V AC AC-1 for power circuit |
| Motor Power Kw | 2.2 kW at 220...230 V AC 50 Hz 4 kW at 380...400 V AC 50 Hz 4 kW at 415...440 V AC 50 Hz 5.5 kW at 500 V AC 50 Hz 5.5 kW at 660...690 V AC 50 Hz |
| Motor Power Hp (UI / Csa) | 0.5 hp at 115 V AC 60 Hz for 1 phase motors 1 hp at 230/240 V AC 60 Hz for 1 phase motors 2 hp at 200/208 V AC 60 Hz for 3 phase motors 2 hp at 230/240 V AC 60 Hz for 3 phase motors 5 hp at 460/480 V AC 60 Hz for 3 phase motors 7.5 hp at 575/600 V AC 60 Hz for 3 phase motors |
| Control Circuit Type | DC standard |
| [Uc] Control Circuit Voltage | 24 V DC |
| Auxiliary Contact Composition | 1 NO + 1 NC |
| [Uimp] Rated Impulse Withstand Voltage | 6 kV IEC 60947 |
| Overvoltage Category | III |
| [Ith] Conventional Free Air Thermal Current | 16 A (at 140 °F (60 °C)) for power circuit 10 A (at 140 °F (60 °C)) for signalling circuit |
| Irms Rated Making Capacity | 250 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 |

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

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 | 250 A at 440 V for power circuit conforming to IEC 60947 |
| [Icw] Rated Short-Time Withstand Current | 30 A 104 °F (40 °C) - 10 min for power circuit 61 A 104 °F (40 °C) - 1 min for power circuit 105 A 104 °F (40 °C) - 10 s for power circuit 210 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 | 25 A gG at <= 690 V coordination type 1 for power circuit 20 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 | 2.5 mOhm - Ith 16 A 50 Hz for power circuit |
| [Ui] Rated Insulation Voltage | Power circuit 690 V IEC 60947-4-1 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 |
| Electrical Durability | 0.6 Mcycles 25 A AC-1 <= 440 V 2 Mcycles 9 A AC-3 <= 440 V |
| Power Dissipation Per Pole | 0.2 W AC-3 1.56 W AC-1 |
| Front Cover | With |
| Interlocking Type | Mechanical |
| Mounting Support | Plate Rail |
| Standards | CSA C22.2 No 14 EN 60947-4-1 EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 UL 508 IEC 60335-1 |
| Product Certifications | DNV CSA CCC UL GL LROS (Lloyds register of shipping) BV RINA GOST UKCA |
| Connections - Terminals | Power circuit spring terminals 1 0.00 in² (2.5 mm²)flexible without cable end Power circuit spring terminals 2 0.00 in² (2.5 mm²)flexible without cable end Control circuit spring terminals 1 0.00 in² (2.5 mm²)flexible without cable end Control circuit spring terminals 2 0.00 in² (2.5 mm²)flexible without cable end |
| Tightening Torque | Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals pozidriv No 2 Power circuit 22.13 lbf.in (2.5 N.m) screw clamp terminals pozidriv No 2 |
| Operating Time | 53.55...72.45 ms closing 16...24 ms opening |
| 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 | 30 Mcycles |
| Maximum Operating Rate | 3600 cyc/h 140 °F (60 °C) |

Complementary

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|-----------------|---|
| Coil Technology | Built-in bidirectional peak limiting diode suppressor |
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|--------------------------------|---|
| Control Circuit Voltage Limits | 0.1...0.25 Uc -40...158 °F (-40...70 °C) drop-out DC 0.7...1.25 Uc -40...140 °F (-40...60 °C) operational DC 1...1.25 Uc 140...158 °F (60...70 °C) operational DC |
| Time Constant | 28 ms |
| Inrush Power In W | 5.4 W 68 °F (20 °C)) |
| Hold-In Power Consumption In W | 5.4 W 68 °F (20 °C) |
| 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 Current | 5 mA for signalling circuit |
| Minimum Switching Voltage | 17 V 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 |
| Insulation Resistance | > 10 MOhm for signalling circuit |

Environment

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| Ip Degree Of Protection | IP20 front face IEC 60529 |
| Climatic Withstand | IACS E10 IEC 60947-1 Annex Q category D |
| Protective Treatment | TH IEC 60068-2-30 |
| Pollution Degree | 3 |
| Ambient Air Temperature For Operation | -40...140 °F (-40...60 °C) 140...158 °F (60...70 °C) with derating |
| Ambient Air Temperature For Storage | -76...176 °F (-60...80 °C) |
| 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 open2 Gn, 5...300 Hz Vibrations contactor closed4 Gn, 5...300 Hz Shocks contactor open10 Gn for 11 ms Shocks contactor closed15 Gn for 11 ms |
| Height | 3.90 in (99 mm) |
| Width | 3.54 in (90 mm) |
| Depth | 3.74 in (95 mm) |
| Net Weight | 2.24 lb(US) (1.017 kg) |

Ordering and shipping details

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|-------------------|---------------|
| Category | US10I1222355 |
| Discount Schedule | 0I12 |
| Gtin | 3389110704976 |
| Returnability | No |
| Country Of Origin | US |

Packing Units

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|------------------------------|-----|
| Unit Type Of Package 1 | PCE |
| Number Of Units In Package 1 | 1 |

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|------------------|-----------------------|
| Package 1 Height | 4.69 in (11.9 cm) |
| Package 1 Width | 4.33 in (11.0 cm) |
| Package 1 Length | 4.33 in (11.0 cm) |
| Package 1 Weight | 2.38 lb(US) (1.08 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

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|---|----------------------------|-----|
| ✓ | 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 |
| 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 |