

Product data sheet

Specifications



IEC contactor, TeSys Deca, nonreversing, 9A, 5HP at 480VAC, 3 phase, 3 pole, 3 NO, 24VDC coil, open style

LC1D093BD

Product availability : Stock - Normally stocked in distribution facility

Price* : 119.00 USD

Main

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| Range of Product | TeSys Deca |
| Product or Component Type | Contactors |
| Device short name | LC1D |
| Contactors application | Resistive load Motor control |
| Utilisation category | AC-1 AC-4 AC-3 AC-3e |
| Poles description | 3P |
| [Ue] rated operational voltage | Power circuit <= 690 V AC 25...400 Hz Power circuit <= 300 V DC |
| [Ie] rated operational current | 9 A 140 °F (60 °C) <= 440 V AC AC-3 power circuit 20 A 140 °F (60 °C) <= 440 V AC AC-1 power circuit 9 A 140 °F (60 °C) <= 440 V AC AC-3e power circuit |
| [Uc] control circuit voltage | 24 V DC |

Complementary

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| Motor power kW | 2.2 kW 220...230 V AC 50/60 Hz AC-3) 4 kW 380...400 V AC 50/60 Hz AC-3) 4 kW 415...440 V AC 50/60 Hz AC-3) 5.5 kW 500 V AC 50/60 Hz AC-3) 5.5 kW 660...690 V AC 50/60 Hz AC-3) 2.2 kW 400 V AC 50/60 Hz AC-4) 2.2 kW 220...230 V AC 50/60 Hz AC-3e) 4 kW 380...400 V AC 50/60 Hz AC-3e) 4 kW 415...440 V AC 50/60 Hz AC-3e) 5.5 kW 500 V AC 50/60 Hz AC-3e) 5.5 kW 660...690 V AC 50/60 Hz AC-3e) |
| Maximum Horse Power Rating | 1 hp 230/240 V at AC 50/60 Hz for 1 phase 2 hp 200/208 V at AC 50/60 Hz for 3 phase 2 hp 230/240 V at AC 50/60 Hz for 3 phase 5 hp 460/480 V at AC 50/60 Hz for 3 phase 7.5 hp 575/600 V at AC 50/60 Hz for 3 phase 0.33 hp 115 V at AC 50/60 Hz for 1 phase |
| Compatibility code | LC1D |
| Pole contact composition | 3 NO |
| Contact compatibility | M4 |
| 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 | 10 A 140 °F (60 °C) signalling circuit 16 A 140 °F (60 °C) power circuit |
| Irms rated making capacity | 250 A 440 V power circuit IEC 60947 140 A AC signalling circuit IEC 60947-5-1 250 A DC signalling circuit IEC 60947-5-1 |
| Rated breaking capacity | 250 A 440 V power circuit IEC 60947 |
| [Icw] rated short-time withstand current | 105 A 104 °F (40 °C) - 10 s power circuit 210 A 104 °F (40 °C) - 1 s power circuit 30 A 104 °F (40 °C) - 10 min power circuit 61 A 104 °F (40 °C) - 1 min power circuit 100 A - 1 s signalling circuit 120 A - 500 ms signalling circuit 140 A - 100 ms signalling circuit |
| Associated fuse rating | 10 A gG signalling circuit IEC 60947-5-1 25 A gG ≤ 690 V type 1 power circuit 20 A gG ≤ 690 V type 2 power circuit |
| Average impedance | 2.5 mOhm - Ith 16 A 50 Hz power circuit |
| Power dissipation per pole | 1.56 W AC-1 0.2 W AC-3 0.2 W AC-3e |
| [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 |
| 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 | 30 Mcycles |
| Electrical durability | 0.6 Mcycles 25 A AC-1 ≤ 440 V 2 Mcycles 9 A AC-3 ≤ 440 V 2 Mcycles 9 A AC-3e ≤ 440 V |
| Control circuit type | DC standard |
| Coil technology | Built-in bidirectional peak limiting diode suppressor |
| 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 |
| Inrush power in W | 5.4 W 68 °F (20 °C)) |
| Hold-in power consumption in W | 5.4 W 68 °F (20 °C) |
| Operating time | 53.55...72.45 ms closing 16...24 ms opening |
| Time constant | 28 ms |
| Maximum operating rate | 3600 cyc/h 140 °F (60 °C) |
| Connections - terminals | Power circuit spring terminals 1 0.00 in ² (2.5 mm ²) flexible without cable end Power circuit spring terminals 2 0.00 in ² (2.5 mm ²) flexible without cable end Control circuit spring terminals 1 0.00 in ² (2.5 mm ²) flexible without cable end Control circuit spring terminals 2 0.00 in ² (2.5 mm ²) flexible without cable end |
| 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 signalling circuit |
| Minimum switching current | 5 mA signalling circuit |
| Insulation resistance | > 10 MOhm signalling circuit |

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| 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 | 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 |
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| Product Certifications | CCC GL BV LROS (Lloyds register of shipping) CSA RINA DNV UL GOST UKCA |
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| IP degree of protection | IP20 front face IEC 60529 |
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| Protective treatment | THIEC 60068-2-30 |
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| Climatic withstand | IACS E10 exposure to damp heat IEC 60947-1 Annex Q category D exposure to damp heat |
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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 |
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| Operating altitude | 0...9842.52 ft (0...3000 m) |
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| Fire resistance | 1562 °F (850 °C) IEC 60695-2-1 |
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| Flame retardance | V1 conforming to UL 94 |
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| 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) |
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| Height | 3.90 in (99 mm) |
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| Width | 1.77 in (45 mm) |
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| Depth | 3.74 in (95 mm) |
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| Net Weight | 1.06 lb(US) (0.48 kg) |
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Ordering and shipping details

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| Category | 22355-CTR, TESYS D, OPEN, 9-38A DC |
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| Discount Schedule | 112 |
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| GTIN | 3389110805703 |
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| Returnability | Yes |
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| Country of origin | ID |
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Packing Units

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| Unit Type of Package 1 | Db |
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| Number of Units in Package 1 | 1 |
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| Package 1 Height | 2.17 in (5.5 cm) |
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| Package 1 Width | 4.13 in (10.5 cm) |
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| Package 1 Length | 4.80 in (12.2 cm) |
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| Package 1 Weight | 19.22 oz (545.0 g) |
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| Unit Type of Package 2 | S02 |
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| Number of Units in Package 2 | 15 |
| Package 2 Height | 5.91 in (15.0 cm) |
| Package 2 Width | 11.81 in (30.0 cm) |
| Package 2 Length | 15.75 in (40.0 cm) |
| Package 2 Weight | 19.00 lb(US) (8.62 kg) |
| Unit Type of Package 3 | P06 |
| Number of Units in Package 3 | 240 |
| Package 3 Height | 29.53 in (75.0 cm) |
| Package 3 Width | 23.62 in (60.0 cm) |
| Package 3 Length | 31.50 in (80.0 cm) |
| Package 3 Weight | 328.38 lb(US) (148.95 kg) |

Offer Sustainability

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| Sustainable offer status | Green Premium product |
| 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 |
| REACH Regulation | REACH Declaration |
| EU RoHS Directive | Compliant EU RoHS Declaration |
| Mercury free | Yes |
| China RoHS Regulation | China RoHS declaration Product out of China RoHS scope. Substance declaration for your information. |
| RoHS exemption information | Yes |
| Environmental Disclosure | Product Environmental Profile |
| Circularity Profile | End of Life Information |
| PVC free | Yes |

Contractual warranty

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| Warranty | 18 months |
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Recommended replacement(s)