

LC1D188BL

IEC contactor, TeSys Deca, nonreversing, 32A resistive, 4 pole, 2 NO and 2 NC, low consumption 24VDC coil, open style



Main

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| Range of Product | TeSys Deca |
| Product or Component Type | Contacteur |
| Device short name | LC1D |
| Contacteur application | Resistive load |
| Utilisation category | AC-1 AC-3 AC-3e AC-4 |
| Poles description | 4P |
| [Ue] rated operational voltage | Power circuit <= 690 V AC 25...400 Hz |
| [Ie] rated operational current | 32 A (at <140 °F (60 °C)) at <= 440 V AC AC-1 for power circuit |
| [Uc] control circuit voltage | 24 V DC |

Complementary

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| Compatibility code | LC1D |
| Pole contact composition | 2 NO + 2 NC |
| Contact compatibility | M5 |
| Protective cover | With |
| [Ith] conventional free air thermal current | 10 A (at 140 °F (60 °C)) for signalling circuit 32 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 60947-5-1 300 A at 440 V for power circuit conforming to IEC 60947 |
| Rated breaking capacity | 300 A at 440 V for power circuit conforming to IEC 60947 |
| [Icw] rated short-time withstand current | 145 A 104 °F (40 °C) - 10 s for power circuit 240 A 104 °F (40 °C) - 1 s for power circuit 40 A 104 °F (40 °C) - 10 min for power circuit 84 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 50 A gG at <= 690 V coordination type 1 for power circuit 35 A gG at <= 690 V coordination type 2 for power circuit |
| Average impedance | 2.5 mOhm - Ith 32 A 50 Hz for power circuit |
| Power dissipation per pole | 2.5 W AC-1 |
| [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 |

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. 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. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

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| Electrical durability | 1 Mcycles 32 A AC-1 <= 440 V |
| Control circuit type | DC low consumption |
| Coil technology | Built-in bidirectional peak limiting diode suppressor |
| Control circuit voltage limits | 0.1...0.3 U _c -40...140 °F (-40...60 °C) drop-out DC 0.8...1.25 U _c -40...140 °F (-40...60 °C) operational DC |
| Inrush power in W | 2.4 W 68 °F (20 °C)) |
| Hold-in power consumption in W | 2.4 W 68 °F (20 °C) |
| Operating time | 77 ±15 % ms closing 25 ±20 % ms opening |
| Time constant | 40 ms |
| Maximum operating rate | 3600 cyc/h 140 °F (60 °C) |
| Connections - terminals | Control circuit: screw clamp terminals 1 0.00...0.01 in ² (1...4 mm ²) - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 2 0.00...0.01 in ² (1...4 mm ²) - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 1 0.00...0.01 in ² (1...4 mm ²) - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 2 0.00...0.00 in ² (1...2.5 mm ²) - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 0.00...0.01 in ² (1...4 mm ²) - cable stiffness: solid without cable end Control circuit: screw clamp terminals 2 0.00...0.01 in ² (1...4 mm ²) - cable stiffness: solid without cable end Power circuit: screw clamp terminals 1 0.00...0.02 in ² (2.5...10 mm ²) - cable stiffness: flexible without cable end Power circuit: screw clamp terminals 2 0.00...0.02 in ² (2.5...10 mm ²) - cable stiffness: flexible without cable end Power circuit: screw clamp terminals 1 0.00...0.02 in ² (2.5...10 mm ²) - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 2 0.00...0.02 in ² (2.5...10 mm ²) - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 1 0.00...0.02 in ² (2.5...16 mm ²) - cable stiffness: solid without cable end Power circuit: screw clamp terminals 2 0.00...0.02 in ² (2.5...16 mm ²) - cable stiffness: solid without cable end |
| Tightening torque | Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals flat Ø 6 mm Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals Philips No 2 Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals pozidriv No 2 Power circuit 15.93 lbf.in (1.8 N.m) screw clamps terminals flat Ø 6 mm Power circuit 15.93 lbf.in (1.8 N.m) screw clamps terminals Philips No 2 Power circuit 15.93 lbf.in (1.8 N.m) screw clamp terminals pozidriv No 2 |
| 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 | EN 60947-4-1 EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 UL 60947-4-1 UL 60947-5-1 CSA C22.2 No 60947-4-1 CSA C22.2 No 60947-5-1 GB/T 14048.4 |
| Product Certifications | UL[RETURN]CSA[RETURN]CCC[RETURN]EAC[RETURN]UKCA[RETURN]CB[RETURN]EU-RO-MR by DNV-GL |
| 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 |

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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 open 10 Gn for 11 ms) Shocks contactor closed 15 Gn for 11 ms) |
| Height | 3.58 in (91 mm) |
| Width | 1.77 in (45 mm) |
| Depth | 4.21 in (107 mm) |
| Net Weight | 1.29 lb(US) (0.585 kg) |

Ordering and shipping details

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| Category | 22354-CTR, TESYS D, OPEN, 9-38A AC |
| Discount Schedule | I12 |
| GTIN | 3389110449716 |
| Returnability | No |
| Country of origin | ID |

Packing Units

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| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 2.17 in (5.5 cm) |
| Package 1 Width | 3.74 in (9.5 cm) |
| Package 1 Length | 4.72 in (12.0 cm) |
| Package 1 Weight | 22.50 oz (638.0 g) |

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 with Exemptions |
| Toxic heavy metal free | Yes |
| Mercury free | Yes |
| China RoHS Regulation | China RoHS Declaration |
| 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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