

LC1D80008G6

IEC contactor, TeSys Deca, nonreversing,
125A resistive, 4 pole, 2 NO and 2 NC,
120VAC 60Hz coil, open style





Main

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| Range | TeSys |
| Product name | TeSys D TeSys Deca |
| Product or Component Type | Contacteur |
| Device short name | LC1D |
| Contacteur application | Resistive load |
| Utilisation category | AC-1 |
| Poles description | 4P |
| Power pole contact composition | 2 NO + 2 NC |
| [Ue] rated operational voltage | Power circuit <= 300 V DC 25...400 Hz Power circuit <= 690 V AC |
| [Ie] rated operational current | 125 A 140 °F (60 °C) <= 440 V AC AC-1 power circuit |
| Control circuit type | AC 60 Hz |
| [Uc] control circuit voltage | 120 V AC 60 Hz |
| [Uimp] rated impulse withstand voltage | 8 kV IEC 60947 |
| Overtoltage category | III |
| [Ith] conventional free air thermal current | 125 A 140 °F (60 °C) power circuit |
| Irms rated making capacity | 1100 A 440 V power circuit IEC 60947 |
| Rated breaking capacity | 1100 A 440 V power circuit IEC 60947 |
| [Icw] rated short-time withstand current | 640 A 104 °F (40 °C) - 10 s power circuit 990 A 104 °F (40 °C) - 1 s power circuit 135 A 104 °F (40 °C) - 10 min power circuit 320 A 104 °F (40 °C) - 1 min power circuit |
| Associated fuse rating | 200 A gG <= 690 V type 1 power circuit 160 A gG <= 690 V type 2 power circuit |
| Average impedance | 0.8 mOhm - Ith 125 A 50 Hz power circuit |
| [Ui] rated insulation voltage | Power circuit 600 V CSA Power circuit 600 V UL Power circuit 1000 V IEC 60947-4-1 |
| Electrical durability | 0.8 Mcycles 125 A AC-1 <= 440 V |
| Power dissipation per pole | 12.5 W AC-1 |
| Front cover | Without |
| 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 |
| Product Certifications | BV CSA GOST LROS (Lloyds register of shipping) GL RINA UL DNV CCC |

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| Connections - terminals | Control circuit screw clamp terminals 2 0.00... 0.00 in ² (1...2.5 mm ²)flexible with cable end Control circuit screw clamp terminals 1 0.00... 0.00 in ² (1...2.5 mm ²)flexible with cable end Control circuit screw clamp terminals 1 0.00... 0.01 in ² (1...4 mm ²)flexible without cable end Control circuit screw clamp terminals 2 0.00... 0.01 in ² (1...4 mm ²)flexible without cable end Control circuit screw clamp terminals 1 0.00... 0.01 in ² (1...4 mm ²)solid without cable end Control circuit screw clamp terminals 2 0.00... 0.01 in ² (1...4 mm ²)solid without cable end Power circuit connector 1 0.01...0.08 in ² (4... 50 mm ²)flexible without cable end Power circuit connector 2 0.01...0.04 in ² (4... 25 mm ²)flexible without cable end Power circuit connector 1 0.01...0.08 in ² (4... 50 mm ²)flexible with cable end Power circuit connector 2 0.01...0.02 in ² (4... 16 mm ²)flexible with cable end Power circuit connector 1 0.01...0.08 in ² (4... 50 mm ²)solid without cable end Power circuit connector 2 0.01...0.04 in ² (4... 25 mm ²)solid without cable end |
| Tightening torque | Control circuit 10.62 lbf.in (1.2 N.m) screw clamp terminals flat Ø 6 mm Control circuit 10.62 lbf.in (1.2 N.m) screw clamp terminals Philips No 2 Power circuit 106.21 lbf.in (12 N.m) connector flat Ø 6 to Ø 8 mm Power circuit 106.21 lbf.in (12 N.m) connector hexagonal 0.16 in (4 mm) Control circuit 10.62 lbf.in (1.2 N.m) screw clamp terminals pozidriv No 2 |
| Operating time | 20...35 ms closing 6...20 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 | 10 Mcycles |
| Maximum operating rate | 3600 cyc/h 140 °F (60 °C) |

Complementary

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|---------------------------------|---|
| Coil technology | Without built-in suppressor module |
| Control circuit voltage limits | 0.85...1.1 U _c -40...131 °F (-40...55 °C) operational AC 60 Hz 0.3...0.6 U _c -40...158 °F (-40...70 °C) drop-out AC 60 Hz 1...1.1 U _c 131...158 °F (55...70 °C) operational AC 60 Hz |
| Inrush power in VA | 220 VA 60 Hz 0.75 68 °F (20 °C)) |
| Hold-in power consumption in VA | 22 VA 60 Hz 0.3 68 °F (20 °C)) |
| Heat dissipation | 6...10 W 60 Hz |

Environment

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| IP degree of protection | IP20 front face IEC 60529 |
| Climatic withstand | IACS E10 |
| 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 |
| Mechanical robustness | Vibrations contactor open2 Gn, 5...300 Hz Shocks contactor open8 Gn for 11 ms Vibrations contactor closed3 Gn, 5...300 Hz Shocks contactor closed10 Gn for 11 ms |
| Height | 5.00 in (127 mm) |
| Width | 3.78 in (96 mm) |

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| Depth | 5.51 in (140 mm) |
| Net Weight | 4.06 lb(US) (1.84 kg) |

Ordering and shipping details

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| Category | 22359-CTR, TESYS D, OPEN, 80-150A AC&DC |
| Discount Schedule | I12 |
| GTIN | 3389110075151 |
| Nbr. of units in pkg. | 1 |
| Package weight(Lbs) | 3.97 lb(US) (1.8 kg) |
| Returnability | Yes |
| Country of origin | CZ |

Packing Units

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|------------------------|-------------------|
| Unit Type of Package 1 | PCE |
| Package 1 Height | 4.33 in (11 cm) |
| Package 1 width | 6.30 in (16 cm) |
| Package 1 Length | 6.42 in (16.3 cm) |

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 |
| REACH free of SVHC | Yes |
| EU RoHS Directive | Compliant EU RoHS Declaration |
| Toxic heavy metal free | Yes |
| Mercury free | Yes |
| RoHS exemption information | Yes |
| China RoHS Regulation | China RoHS Declaration |
| 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. |
| PVC free | Yes |

Contractual warranty

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| Warranty | 18 months |
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