

Product data sheet

Specifications



IEC contactor, TeSys Deca, nonreversing, 80A, 60HP at 480VAC, up to 100kA SCCR, 3 phase, 3 NO, 120VAC 60Hz coil, open style

LC1D80G6

Product availability: Stock - Normally stocked in distribution facility

Price*: 363.00 USD

Main

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| Range | TeSys |
| Range of Product | TeSys Deca |
| Product or Component Type | Contactors |
| Device short name | LC1D |
| contactor application | Motor control Resistive load |
| Utilisation category | AC-3 AC-3e AC-4 AC-1 |
| poles description | 3P |
| [Ue] rated operational voltage | Power circuit <= 300 V DC 25...400 Hz Power circuit <= 690 V AC |
| [Ie] rated operational current | 125 A (at <140 °F (60 °C)) at <= 440 V AC AC-1 for power circuit 80 A (at <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit 80 A (at <140 °F (60 °C)) at <= 440 V AC AC-3e for power circuit |
| [Uc] control circuit voltage | 120 V AC 60 Hz |

Complementary

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| Motor power kW | 22 kW at 220...230 V AC 50/60 Hz (AC-3) 37 kW at 380...400 V AC 50/60 Hz (AC-3) 45 kW at 415...440 V AC 50/60 Hz (AC-3) 55 kW at 500 V AC 50/60 Hz (AC-3) 45 kW at 660...690 V AC 50/60 Hz (AC-3) 15 kW at 400 V AC 50/60 Hz (AC-4) 22 kW at 220...230 V AC 50/60 Hz (AC-3e) 37 kW at 380...400 V AC 50/60 Hz (AC-3e) 45 kW at 415...440 V AC 50/60 Hz (AC-3e) 55 kW at 500 V AC 50/60 Hz (AC-3e) 45 kW at 660...690 V AC 50/60 Hz (AC-3e) |
| Maximum Horse Power Rating | 7.5 hp at 120 V AC 50/60 Hz for 1 phase motors 15 hp at 230/240 V AC 50/60 Hz for 1 phase motors 30 hp at 200/208 V AC 50/60 Hz for 3 phase motors 30 hp at 230/240 V AC 50/60 Hz for 3 phase motors 60 hp at 460/480 V AC 50/60 Hz for 3 phase motors 60 hp at 575/600 V AC 50/60 Hz for 3 phase motors |
| Compatibility code | LC1D |
| Pole contact composition | 3 NO |
| 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 (at 140 °F (60 °C)) for signalling circuit 125 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 1100 A at 440 V for power circuit conforming to IEC 60947 |
| Rated breaking capacity | 1100 A at 440 V for power circuit conforming to IEC 60947 |
| [Icw] rated short-time withstand current | 640 A 104 °F (40 °C) - 10 s for power circuit 990 A 104 °F (40 °C) - 1 s for power circuit 135 A 104 °F (40 °C) - 10 min for power circuit 320 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 60947-5-1 200 A gG at <= 690 V coordination type 1 for power circuit 160 A gG at <= 690 V coordination type 2 for power circuit |
| Average impedance | 0.8 mOhm - Ith 125 A 50 Hz for power circuit |
| Power dissipation per pole | 5.1 W AC-3 12.5 W AC-1 5.1 W AC-3e |
| [Ui] 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 = 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 |
| Electrical durability | 0.8 Mcycles 125 A AC-1 <= 440 V 1.5 Mcycles 80 A AC-3 <= 440 V 1.5 Mcycles 80 A AC-3e <= 440 V |
| Control circuit type | AC 60 Hz |
| Coil technology | Without built-in suppressor module |
| Control circuit voltage limits | 0.85...1.1 Uc -40...131 °F (-40...55 °C) operational AC 60 Hz 0.3...0.6 Uc -40...158 °F (-40...70 °C) drop-out AC 60 Hz 1...1.1 Uc 131...158 °F (55...70 °C) operational AC 60 Hz |
| Inrush power in VA | 220 VA 60 Hz cos phi 0.75 (at 68 °F (20 °C)) |
| Hold-in power consumption in VA | 22 VA 60 Hz cos phi 0.3 (at 68 °F (20 °C)) |
| Heat dissipation | 6...10 W at 60 Hz |
| Operating time | 20...35 ms closing 6...20 ms opening |
| Maximum operating rate | 3600 cyc/h 140 °F (60 °C) |
| Maximum operating rate | 3600 cyc/h at 60 °C |

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| Connections - terminals | Control circuit: screw clamp terminals 2 0.002...0.004 in ² (1...2.5 mm ²) - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 0.002...0.004 in ² (1...2.5 mm ²) - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 0.002...0.006 in ² (1...4 mm ²) - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 2 0.002...0.006 in ² (1...4 mm ²) - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 1 0.002...0.006 in ² (1...4 mm ²) - cable stiffness: solid without cable end Control circuit: screw clamp terminals 2 0.002...0.006 in ² (1...4 mm ²) - cable stiffness: solid without cable end Power circuit: connector 1 0.006...0.08 in ² (4...50 mm ²) - cable stiffness: flexible without cable end Power circuit: connector 2 0.006...0.04 in ² (4...25 mm ²) - cable stiffness: flexible without cable end Power circuit: connector 1 0.006...0.08 in ² (4...50 mm ²) - cable stiffness: flexible with cable end Power circuit: connector 2 0.006...0.02 in ² (4...16 mm ²) - cable stiffness: flexible with cable end Power circuit: connector 1 0.006...0.08 in ² (4...50 mm ²) - cable stiffness: solid without cable end Power circuit: connector 2 0.006...0.04 in ² (4...25 mm ²) - cable stiffness: solid without cable end |
| Tightening torque | Control circuit 10.6 lbf.in (1.2 N.m) screw clamp terminals flat Ø 6 mm Control circuit 10.6 lbf.in (1.2 N.m) screw clamp terminals Philips No 2 Power circuit 106.2 lbf.in (12 N.m) connector flat Ø 6 to Ø 8 mm Power circuit 106.2 lbf.in (12 N.m) connector hexagonal 0.2 in (4 mm) Control circuit 10.6 lbf.in (1.2 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 | Rail Plate |

Environment

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| Standards | EN 60947-4-1 EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 CSA C22.2 No 14 UL 60947-4-1 IEC 60335-2-40:Annex JJ UL 60335-2-40:Annex JJ IEC 60335-1:Clause 30.2 |
| Product Certifications | CCC UL CB Scheme CSA CE UKCA Marine EAC |
| IP degree of protection | IP20 front face IEC 60529 |
| Protective treatment | THIEC 60068-2-30 |
| Climatic withstand | IACS E10 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) Shocks contactor open 8 Gn for 11 ms) Vibrations contactor closed 3 Gn, 5...300 Hz) Shocks contactor closed 10 Gn for 11 ms) |
| Height | 5.000000000 in (127 mm) |
| Width | 3.3 in (85 mm) |
| Depth | 5.1 in (130 mm) |
| Net Weight | 3.51 lb(US) (1.59 kg) |

Ordering and shipping details

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| Category | US10I1222359 |
| Discount Schedule | 0I12 |
| GTIN | 3389110440829 |
| Returnability | Yes |
| Country of origin | FR |

Packing Units

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| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 5.315 in (13.500 cm) |
| Package 1 Width | 4.134 in (10.500 cm) |
| Package 1 Length | 5.315 in (13.500 cm) |
| Package 1 Weight | 3.395 lb(US) (1.540 kg) |
| Unit Type of Package 2 | S03 |
| Number of Units in Package 2 | 8 |
| Package 2 Height | 11.811 in (30.000 cm) |
| Package 2 Width | 11.811 in (30.000 cm) |
| Package 2 Length | 15.748 in (40.000 cm) |
| Package 2 Weight | 28.087 lb(US) (12.740 kg) |
| Unit Type of Package 3 | P06 |
| Number of Units in Package 3 | 64 |
| Package 3 Height | 29.528 in (75.000 cm) |
| Package 3 Width | 23.622 in (60.000 cm) |
| Package 3 Length | 31.496 in (80.000 cm) |
| Package 3 Weight | 242.332 lb(US) (109.920 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 >](#)



Sustainable Packaging Transparency RoHS/REACH

Resource performance

Sustainable Packaging

Well-being performance

Reach Free Of Svhc

Toxic Heavy Metal Free

Mercury Free

Rohs Exemption Information Yes

Pvc Free

Certifications & Standards

Reach Regulation [REACH Declaration](#)

Eu Rohs Directive Compliant
[EU RoHS Declaration](#)

China Rohs Regulation [China RoHS declaration](#)
Pro-active China RoHS declaration (out of China RoHS legal scope)

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 No need of specific recycling operations

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
