

Product data sheet

Specifications



**TeSys D IEC contactor, 65 A, 3 P,
50 HP at 480 VAC, nonreversing,
120 VAC 50/60 Hz coil**

LC1D65G7

Product availability: Stock - Normally stocked in distribution facility

Main

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| Range | TeSys |
| Range of Product | TeSys Deca |
| Product or Component Type | Contactor |
| Device short name | LC1D |
| Contactor application | Motor control Resistive load |
| Utilisation category | AC-1 AC-2 AC-4 AC-3 |
| Poles description | 3P |
| [Ue] rated operational voltage | Power circuit <= 690 V AC 25...400 Hz |
| [Ie] rated operational current | 80 A (at <140 °F (60 °C)) at <= 440 V AC AC-1 for power circuit 65 A (at <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit |
| [Uc] control circuit voltage | 120 V AC 50/60 Hz |

Complementary

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| Motor power kW | 30 kW at 440 V AC 50/60 Hz (AC-3) 11 kW at 400 V AC 50/60 Hz (AC-4) 30 kW at 380...400 V AC 50/60 Hz (AC-3) 30 kW at 415 V AC 50/60 Hz (AC-3) 37 kW at 1000 V AC 50/60 Hz (AC-3) 37 kW at 500 V AC 50/60 Hz (AC-3) 37 kW at 660...690 V AC 50/60 Hz (AC-3) 18.5 kW at 220...230 V AC 50/60 Hz (AC-3) |
| Maximum Horse Power Rating | 10 hp at 230/240 V AC 60 Hz for 1 phase motors conforming to CSA 10 hp at 230/240 V AC 60 Hz for 1 phase motors conforming to UL 20 hp at 200/208 V AC 60 Hz for 3 phase motors conforming to CSA 20 hp at 200/208 V AC 60 Hz for 3 phase motors conforming to UL 20 hp at 230/240 V AC 60 Hz for 3 phase motors conforming to CSA 20 hp at 230/240 V AC 60 Hz for 3 phase motors conforming to UL 5 hp at 115 V AC 60 Hz for 1 phase motors conforming to CSA 5 hp at 115 V AC 60 Hz for 1 phase motors conforming to UL 50 hp at 460/480 V AC 60 Hz for 3 phase motors conforming to CSA 50 hp at 460/480 V AC 60 Hz for 3 phase motors conforming to UL 50 hp at 575/600 V AC 60 Hz for 3 phase motors conforming to CSA 50 hp at 575/600 V AC 60 Hz for 3 phase motors conforming to UL |
| Compatibility code | LC1D |
| Pole contact composition | 3 NO |
| Protective cover | With |
| [ith] conventional free air thermal current | 10 A (at 140 °F (60 °C)) for control circuit 80 A (at 140 °F (60 °C)) for power circuit |

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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| Irms rated making capacity | 140 A AC for control circuit conforming to IEC 60947-5-1 1000 A at 440 V for power circuit conforming to IEC 60947 |
| Rated breaking capacity | 1000 A at 440 V for power circuit conforming to IEC 60947 |
| Associated fuse rating | 10 A gG for control circuit conforming to IEC 60947-5-1 125 A gG at <= 690 V coordination type 1 for power circuit 125 A gG at <= 690 V coordination type 2 for power circuit |
| Average impedance | 1 mOhm - Ith 80 A 50 Hz for power circuit |
| Power dissipation per pole | 6.4 W AC-1 |
| [Ui] rated insulation voltage | Control circuit 600 V CSA Control circuit 600 V UL Power circuit 600 V CSA Power circuit 600 V UL Control circuit 690 V IEC 60947-1 Power circuit 690 V IEC 60947-1 |
| Overvoltage category | III |
| [Uiimp] 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 | 6000000 cycles |
| Control circuit type | AC 50/60 Hz |
| Coil technology | Without built-in bidirectional peak limiting diode suppressor |
| Control circuit voltage limits | 0.3...0.6 Uc (140 °F (60 °C)):drop-out AC 50/60 Hz 0.8...1.1 Uc (140 °F (60 °C)):operational AC 50 Hz 0.85...1.1 Uc (140 °F (60 °C)):operational AC 60 Hz |
| Inrush power in VA | 140 VA cos phi 0.75 (at 68 °F (20 °C)) 160 VA cos phi 0.75 (at 68 °F (20 °C)) |
| Hold-in power consumption in VA | 13 VA 50 Hz cos phi 0.3 (at 68 °F (20 °C)) 15 VA 60 Hz cos phi 0.3 (at 68 °F (20 °C)) |
| Heat dissipation | 4...5 W at 50/60 Hz for control circuit |
| Operating time | 12...26 ms closing 4...19 ms opening |
| Maximum operating rate | 3600 cyc/h at 60 °C |
| Connections - terminals | Control circuit: screw clamp terminal 1 0.002...0.006 in ² (1...4 mm ²) - cable stiffness: solid without cable end Control circuit: screw clamp terminal 2 0.002...0.006 in ² (1...4 mm ²) - cable stiffness: solid without cable end Control circuit: screw clamp terminal 1 0.002...0.004 in ² (1...2.5 mm ²) - cable stiffness: flexible without cable end Control circuit: screw clamp terminal 2 0.002...0.004 in ² (1...2.5 mm ²) - cable stiffness: flexible without cable end Control circuit: screw clamp terminal 1 0.002...0.006 in ² (1...4 mm ²) - cable stiffness: flexible with cable end Control circuit: screw clamp terminal 2 0.002...0.006 in ² (1...4 mm ²) - cable stiffness: flexible with cable end Power circuit: connector 1 0.004...0.05 in ² (2.5...35 mm ²) - cable stiffness: solid with cable end Power circuit: connector 2 0.004...0.05 in ² (2.5...35 mm ²) - cable stiffness: solid with cable end Power circuit: connector 1 0.004...0.05 in ² (2.5...35 mm ²) - cable stiffness: flexible without cable end Power circuit: connector 2 0.004...0.04 in ² (2.5...25 mm ²) - cable stiffness: flexible without cable end Power circuit: connector 1 0.004...0.05 in ² (2.5...35 mm ²) - cable stiffness: flexible with cable end Power circuit: connector 2 0.004...0.05 in ² (2.5...35 mm ²) - cable stiffness: flexible with cable end |
| Tightening torque | Control circuit 10.6 lbf.in (1.2 N.m) screw clamp terminal flat Ø 6 mm Control circuit 10.6 lbf.in (1.2 N.m) screw clamp terminal Philips No 2 Power circuit 44.3 lbf.in (5 N.m) screw clamp terminal flat Ø 6 mm Power circuit 44.3 lbf.in (5 N.m) screw clamp terminal flat Ø 8 mm |

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| Auxiliary contact composition | 1 NO + 1 NC |
| Auxiliary contacts type | Mirror contact 1 NC IEC 60947-4-1 Mechanically linked 1 NO + 1 NC IEC 60947-5-1 |
| Terminals description ISO n°1 | (A1-A2)CO (13-14)NO (21-22)NC |
| Minimum switching voltage | 17 V for control circuit |
| Minimum switching current | 5 mA for control circuit |
| Insulation resistance | > 10 MΩ for control circuit |
| Non-overlap time | 1.5 ms on de-energisation between NC and NO contacts 1.5 ms on energisation between NC and NO contacts |
| Mounting Support | Rail Plate |

Environment

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| Standards | EN 60947-5-1 CSA C22.2 No 14 EN 60947-4-1 UL 508 IEC 60947-4-1 IEC 60947-5-1 |
| Product Certifications | CCC UL BV CSA LROS (pending) GOST RINA GL DNV |
| IP degree of protection | IP2X IEC 60529 IP2X VDE 0106 |
| Climatic withstand | IACS E10 exposure to damp heat |
| Permissible ambient air temperature around the device | 23...140 °F (-5...60 °C) -40...158 °F (-40...70 °C) at Uc |
| Operating altitude | 9842.52 ft (3000 m) without derating |
| Fire resistance | 1562 °F (850 °C) IEC 60695-2-1 |
| Flame retardance | V1 conforming to UL 94 |
| Mechanical robustness | Shocks contactor opened 10 Gn for 11 ms Shocks contactor closed 15 Gn for 11 ms Vibrations contactor opened 2 Gn, 5...300 Hz Vibrations contactor closed 4 Gn, 5...300 Hz |
| Height | 5 in (127 mm) |
| Width | 3.0 in (75 mm) |
| Depth | 4.7 in (119 mm) |
| Net Weight | 3.09 lb(US) (1.4 kg) |

Ordering and shipping details

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| Category | US10I1222357 |
| Discount Schedule | 0I12 |
| GTIN | 3389110436976 |
| Returnability | Yes |

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| Country of origin | CZ |
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Packing Units

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| Unit Type of Package 1 | PCE |
| Nbr. of units in pkg. | 1 |
| Package 1 Height | 5.51 in (14.000 cm) |
| Package 1 Width | 5.31 in (13.500 cm) |
| Package 1 Length | 3.74 in (9.500 cm) |
| Package weight(Lbs) | 3.172 lb(US) (1.439 kg) |
| Unit Type of Package 2 | S02 |
| Number of Units in Package 2 | 5 |
| Package 2 Height | 5.91 in (15.000 cm) |
| Package 2 Width | 11.81 in (30.000 cm) |
| Package 2 Length | 15.75 in (40.000 cm) |
| Package 2 Weight | 16.486 lb(US) (7.478 kg) |
| Unit Type of Package 3 | P06 |
| Number of Units in Package 3 | 80 |
| Package 3 Height | 29.53 in (75.000 cm) |
| Package 3 Width | 23.62 in (60.000 cm) |
| Package 3 Length | 31.50 in (80.000 cm) |
| Package 3 Weight | 290.525 lb(US) (131.780 kg) |

Contractual warranty

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| Warranty | 18 months |
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Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

Environmental footprint

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| Carbon footprint (kg CO2 eq, Total Life cycle) | 83 |
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| Environmental Disclosure | Product Environmental Profile |
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Use Better

Materials and Substances

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| Packaging made with recycled cardboard | Yes |
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| Packaging without single use plastic | Yes |
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| EU RoHS Directive | Compliant |
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| REACH Regulation | REACH Declaration |
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| 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 |
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| PVC free | Yes |
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Use Again

Repack and remanufacture

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| Circularity Profile | No need of specific recycling operations |
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| Take-back | No |
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| WEEE | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins. |
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