

Product data sheet

Specifications



TeSys D IEC contactor, 65 A, 3 P, 40 HP at 480 VAC, nonreversing, 120 VAC 50/60 Hz coil

LC1D65G7

! To be discontinued on: 31 December 2030

! To be discontinued

Product availability : Stock - Normally stocked in distribution facility

Main

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|--------------------------------|--|
| Range | TeSys |
| Range of Product | TeSys Deca |
| Product or Component Type | Contactors |
| Device short name | LC1D |
| Contactors 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 140 °F (60 °C) <= 440 V AC AC-1 power circuit 65 A 140 °F (60 °C) <= 440 V AC AC-3 power circuit |
| [Uc] control circuit voltage | 120 V AC 50/60 Hz |

Complementary

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| Motor power kW | 30 kW 440 V AC 50/60 Hz AC-3) 11 kW 400 V AC 50/60 Hz AC-4) 30 kW 380...400 V AC 50/60 Hz AC-3) 30 kW 415 V AC 50/60 Hz AC-3) 37 kW 1000 V AC 50/60 Hz AC-3) 37 kW 500 V AC 50/60 Hz AC-3) 37 kW 660...690 V AC 50/60 Hz AC-3) 18.5 kW 220...230 V AC 50/60 Hz AC-3) |
| Maximum Horse Power Rating | 10 hp 230/240 V at AC 60 Hz for 1 phase conforming to CSA 10 hp 230/240 V at AC 60 Hz for 1 phase conforming to UL 20 hp 200/208 V at AC 60 Hz for 3 phase conforming to CSA 20 hp 200/208 V at AC 60 Hz for 3 phase conforming to UL 20 hp 230/240 V at AC 60 Hz for 3 phase conforming to CSA 20 hp 230/240 V at AC 60 Hz for 3 phase conforming to UL 5 hp 115 V at AC 60 Hz for 1 phase conforming to CSA 5 hp 115 V at AC 60 Hz for 1 phase conforming to UL 50 hp 460/480 V at AC 60 Hz for 3 phase conforming to CSA 50 hp 460/480 V at AC 60 Hz for 3 phase conforming to UL 50 hp 575/600 V at AC 60 Hz for 3 phase conforming to CSA 50 hp 575/600 V at AC 60 Hz for 3 phase conforming to UL |
| Compatibility code | LC1D |
| Pole contact composition | 3 NO |
| Protective cover | With |

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| [Ith] conventional free air thermal current | 10 A 140 °F (60 °C) control circuit 80 A 140 °F (60 °C) power circuit |
| Irms rated making capacity | 140 A AC control circuit IEC 60947-5-1 1000 A 440 V power circuit IEC 60947 |
| Rated breaking capacity | 1000 A 440 V power circuit IEC 60947 |
| Associated fuse rating | 10 A gG control circuit IEC 60947-5-1 125 A gG ≤ 690 V type 1 power circuit 125 A gG ≤ 690 V type 2 power circuit |
| Average impedance | 1 mOhm - Ith 80 A 50 Hz 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 |
| [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 | 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 U _c 140 °F (60 °C) drop-out AC 50/60 Hz 0.8...1.1 U _c 140 °F (60 °C) operational AC 50 Hz 0.85...1.1 U _c 140 °F (60 °C) operational AC 60 Hz |
| Inrush power in VA | 140 VA 0.75 68 °F (20 °C)) 160 VA 0.75 68 °F (20 °C)) |
| Hold-in power consumption in VA | 13 VA 50 Hz 0.3 68 °F (20 °C)) 15 VA 60 Hz 0.3 68 °F (20 °C)) |
| Heat dissipation | 4...5 W 50/60 Hz control circuit |
| Operating time | 12...26 ms closing 4...19 ms opening |
| Maximum operating rate | 3600 cyc/h 140 °F (60 °C) |
| Connections - terminals | Control circuit screw clamp terminal 1 0.00...0.01 in ² (1...4 mm ²) solid without cable end Control circuit screw clamp terminal 2 0.00...0.01 in ² (1...4 mm ²) solid without cable end Control circuit screw clamp terminal 1 0.00...0.00 in ² (1...2.5 mm ²) flexible without cable end Control circuit screw clamp terminal 2 0.00...0.00 in ² (1...2.5 mm ²) flexible without cable end Control circuit screw clamp terminal 1 0.00...0.01 in ² (1...4 mm ²) flexible with cable end Control circuit screw clamp terminal 2 0.00...0.01 in ² (1...4 mm ²) flexible with cable end Power circuit connector 1 0.00...0.05 in ² (2.5...35 mm ²) solid with cable end Power circuit connector 2 0.00...0.05 in ² (2.5...35 mm ²) solid with cable end Power circuit connector 1 0.00...0.05 in ² (2.5...35 mm ²) flexible without cable end Power circuit connector 2 0.00...0.04 in ² (2.5...25 mm ²) flexible without cable end Power circuit connector 1 0.00...0.05 in ² (2.5...35 mm ²) flexible with cable end Power circuit connector 2 0.00...0.05 in ² (2.5...35 mm ²) flexible with cable end |
| Tightening torque | Control circuit 10.62 lbf.in (1.2 N.m) screw clamp terminal flat Ø 6 mm Control circuit 10.62 lbf.in (1.2 N.m) screw clamp terminal Philips No 2 Power circuit 44.25 lbf.in (5 N.m) screw clamp terminal flat Ø 6 mm Power circuit 44.25 lbf.in (5 N.m) screw clamp terminal flat Ø 8 mm |
| 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 control circuit |
| Minimum switching current | 5 mA control circuit |
| Insulation resistance | > 10 MOhm control circuit |
| Non-overlap time | 1.5 ms on de-energisation between NC and NO contacts |

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| Mounting Support | Rail Plate |
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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 | 5.00 in (127 mm) |
| Width | 2.95 in (75 mm) |
| Depth | 4.69 in (119 mm) |
| Net Weight | 3.09 lb(US) (1.4 kg) |

Ordering and shipping details

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|--------------------------|-------------------------------------|
| Category | 22357-CTR, TESYS D, OPEN, 40-65A AC |
| Discount Schedule | I12 |
| GTIN | 3389110436976 |
| Returnability | Yes |
| Country of origin | CZ |

Packing Units

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|-------------------------------------|------------------------|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 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 1 Weight | 3.17 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) |

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|------------------------------|----------------------------|
| Package 2 Width | 11.81 in (30.000 cm) |
| Package 2 Length | 15.75 in (40.000 cm) |
| Package 2 Weight | 16.49 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 | 290.53 lb(US) (131.780 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 |
| REACH free of SVHC | Yes |
| EU RoHS Directive | Compliant EU RoHS Declaration |
| Toxic heavy metal free | Yes |
| Mercury free | Yes |
| China RoHS Regulation | China RoHS declaration Pro-active China RoHS declaration (out of China RoHS legal scope) |
| RoHS exemption information | Yes |
| Environmental Disclosure | Product Environmental Profile |
| Circularity Profile | End of Life Information |
| 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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Recommended replacement(s)

LC1D65G7 is replaced by:

1x



IEC contactor, TeSys Deca, nonreversing, 65A, 40HP at 480VAC, up to 100kA SCCR, 3 phase, 3 NO, 120VAC 50/60Hz coil, open
LC1D65AG7