

Product datasheet

Specifications



CONTACTOR 600VAC 65AMP IEC +OPTIONS

LC1D65E7

! Discontinued

Main

| | |
|--------------------------------|---|
| Range | TeSys |
| Range Of Product | TeSys Deca |
| Product Or Component Type | Contactor |
| Device Short Name | LC1D |
| Contactor Application | Motor control Motor control |
| Utilisation Category | AC-2 AC-1 AC-3 AC-3e AC-2 |
| Poles Description | 3P |
| [Ue] Rated Operational Voltage | Power circuit: <= 690 V AC 25...400 Hz |
| [Ie] Rated Operational Current | 65 A (at <60 °C) at <= 440 V AC AC-3 for power circuit 65 A (at <60 °C) at <= 440 V AC AC-3e for power circuit 80 A (at <60 °C) at <= 440 V AC AC-1 for power circuit |
| [Uc] Control Circuit Voltage | 48 V DC |

Complementary

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| Motor Power Kw | 11 kW at 400 V AC 50 Hz (AC-4) 30 kW at 380...400 V AC 50 Hz (AC-3) 37 kW at 500 V AC 50 Hz (AC-3) 37 kW at 660...690 V AC 50 Hz (AC-3) 18.5 kW at 220...230 V AC 50 Hz (AC-3) 30 kW at 415 V AC 50 Hz (AC-3) 37 kW at 1000 V AC 50 Hz (AC-3) 30 kW at 440 V AC 50 Hz (AC-3e) 30 kW at 380...400 V AC 50 Hz (AC-3e) 37 kW at 500 V AC 50 Hz (AC-3e) 37 kW at 660...690 V AC 50 Hz (AC-3e) 18.5 kW at 220...230 V AC 50 Hz (AC-3e) 30 kW at 415 V AC 50 Hz (AC-3e) 37 kW at 1000 V AC 50 Hz (AC-3e) 30 kW at 440 V AC 50 Hz (AC-3) |
| Motor Power Hp | 10 hp at 230/240 V AC 60 Hz for 1 phase motors 20 hp at 200/208 V AC 60 Hz for 3 phases motors 20 hp at 230/240 V AC 60 Hz for 3 phases motors 40 hp at 460/480 V AC 60 Hz for 3 phases motors 50 hp at 575/600 V AC 60 Hz for 3 phases motors 5 hp at 115 V AC 60 Hz for 1 phase motors |
| Compatibility Code | LC1D |
| Pole Contact Composition | 3 NO |
| Protective Cover | With |

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| [Ith] Conventional Free Air Thermal Current | 80 A (at 60 °C) for power circuit 10 A (at 60 °C) for control circuit |
| 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 250 A DC for control circuit conforming to IEC 60947-5-1 |
| Rated Breaking Capacity | 1000 A at 440 V for power circuit conforming to IEC 60947 |
| Associated Fuse Rating | 125 A gG at ≤ 690 V coordination type 2 for power circuit 160 A gG at ≤ 690 V coordination type 1 for power circuit conforming to IEC 60947-5-1 10 A gG for control circuit conforming to IEC 60947-5-1 |
| Power Dissipation Per Pole | 6.4 W AC-1 4.2 W AC-3e 4.2 W AC-3 |
| [Ui] Rated Insulation Voltage | Control circuit: 600 V UL certified Power circuit: 600 V CSA certified Power circuit: 600 V UL certified conforming to IEC 60947-1 Control circuit: 690 V conforming to IEC 60947-1 Power circuit: 690 V CSA certified conforming to IEC 60947-1 Control circuit: 600 V CSA certified |
| Overvoltage Category | III |
| [Uimp] Rated Impulse Withstand Voltage | 8 kV conforming to IEC 60947 |
| Safety Reliability Level | B10d = 20000000 cycles contactor with mechanical load conforming to EN/ISO 13849-1 B10d = 1369863 cycles contactor with nominal load conforming to EN/ISO 13849-1 |
| Mechanical Durability | 10000000 cycles |
| Control Circuit Type | DC standard |
| Coil Technology | Built-in bidirectional peak limiting diode suppressor |
| Control Circuit Voltage Limits | 0.8...1.1 Uc (-40...60 °C):operational AC 50 Hz 0.85...1.1 Uc (-40...60 °C):operational AC 60 Hz 1...1.1 Uc (60...70 °C):operational AC 50/60 Hz 0.75...1.25 Uc (-40...60 °C):operational DC 0.1...0.3 Uc (-40...70 °C):drop-out DC |
| Inrush Power In Va | 160 VA cos phi 0.75 (at 20 °C) |
| Inrush Power In W | 19 W (at 20 °C) |
| Hold-In Power Consumption In Va | 15 VA 50 Hz cos phi 0.3 (at 20 °C) |
| Hold-In Power Consumption In W | 7.4 W at 20 °C |
| Rated Operational Power In W | 12 W at 48 V DC-13 - electrical durability: 10000000 cycles - for control circuit 38 W at 48 V DC-13 - electrical durability: 3000000 cycles - for control circuit |
| Operating Time | 12...26 ms closing 50 ms closing 20 ms opening |
| Time Constant | 34 ms |
| Maximum Operating Rate | 3600 cyc/h 60 °C |

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| Connections - Terminals | Control circuit: screw clamp terminals 2 1...4 mm ² - cable stiffness: rigid without cable end Control circuit: screw clamp terminals 1 1...4 mm ² - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 2 1...4 mm ² - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 1 1...2.5 mm ² - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 2 1...2.5 mm ² - cable stiffness: flexible with cable end Power circuit: screw terminals 1 2.5...25 mm ² - cable stiffness: rigid Power circuit: screw terminals 2 2.5...16 mm ² - cable stiffness: rigid without cable end Power circuit: screw terminals 1 2.5...25 mm ² - cable stiffness: flexible without cable end Power circuit: screw terminals 2 2.5...16 mm ² - cable stiffness: flexible without cable end Power circuit: screw terminals 1 2.5...25 mm ² - cable stiffness: flexible with cable end Power circuit: screw terminals 2 2.5...10 mm ² - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 2 1...4 mm ² - cable stiffness: rigid Control circuit: screw clamp terminals 1 1...4 mm ² - cable stiffness: rigid |
| Tightening Torque | Control circuit: 1.7 N.m - on screw clamp terminal - with screwdriver Philips No 2 Power circuit: 5 N.m - on screw terminal - with screwdriver flat Ø 6 to Ø 8 mm Control circuit: 1.7 N.m - on screw clamp terminal - with screwdriver pozidriv No 2 Control circuit: 1.7 N.m - on screw clamp terminal - with screwdriver flat Ø 6 mm |
| Auxiliary Contact Composition | 1 NO + 1 NC |
| Auxiliary Contacts Type | type mirror contact 1 NC conforming to IEC 60947-4-1 type mechanically linked 1 NO + 1 NC conforming to IEC 60947-5-1 |
| Minimum Switching Voltage | 17 V for control circuit |
| Minimum Switching Current | 5 mA for control circuit |
| Insulation Resistance | > 10 MOhm for control circuit |
| Non-Overlap Time | 1.5 ms on energisation between NC and NO contacts 1.5 ms on de-energisation between NC and NO contacts |
| Mounting Support | Rail Rail |

Environment

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| Standards | IEC 60947-4-1 IEC 60947-5-1 EN 60947-4-1 CSA C22.2 No 14 UL 508 |
| Product Certifications | GOST CCC UL DNV RINA LROS (Lloyds register of shipping) BV GL UKCA BV |
| Ip Degree Of Protection | IP2X conforming to VDE 0106 IP2X conforming to IEC 60529 |
| Climatic Withstand | conforming to IACS E10 exposure to damp heat |
| Operating Altitude | 0...3000 m |
| Fire Resistance | 850 °C conforming to IEC 60695-2-1 |
| Flame Retardance | V1 conforming to UL 94 |
| Mechanical Robustness | Shocks contactor closed (15 Gn for 11 ms) Vibrations contactor opened (2 Gn, 5...300 Hz) Vibrations contactor closed (4 Gn, 5...300 Hz) Shocks contactor opened (10 Gn for 11 ms) |

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| Height | 127 mm |
| Width | 85 mm |
| Depth | 176 mm |
| Net Weight | 2.185 kg |

Packing Units

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| Unit Type Of Package 1 | PCE |
| Number Of Units In Package 1 | 1 |
| Package 1 Height | 9.5 cm |
| Package 1 Width | 13.2 cm |
| Package 1 Length | 14.0 cm |
| Package 1 Weight | 1.442 kg |
| Unit Type Of Package 2 | S02 |
| Number Of Units In Package 2 | 5 |
| Package 2 Height | 15 cm |
| Package 2 Width | 30 cm |
| Package 2 Length | 40 cm |
| Package 2 Weight | 7.531 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 >](#)



Transparency RoHS/REACH

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