Product datasheet

Specifications





Contactor, TeSys Deca, 3P(3 NO), AC-3/AC-3e, <=400V, 65A, 200V AC 50/60Hz coil, lugs-ring terminals

LC1D65A6L7

- () Discontinued on: 1 Jan 2008
- (!) End-of-service on: 1 Apr 2024

Main

| Range | TeSys |
|--------------------------------|---|
| Range Of Product | TeSys Deca |
| Product Or Component Type | Contactor |
| Device Short Name | LC1D |
| Contactor Application | Resistive load Motor control |
| Utilisation Category | AC-4 AC-1 AC-3 AC-3e |
| Poles Description | 3P |
| [Ue] Rated Operational Voltage | Power circuit: <= 690 V AC 25400 Hz Power circuit: <= 300 V DC |
| [le] Rated Operational Current | 80 A (at <60 °C) at <= 440 V AC AC-1 for power circuit 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 |
| [Uc] Control Circuit Voltage | 200 V AC 50/60 Hz |

Complementary

| Motor Power Kw | 11 kW at 400 V AC 50/60 Hz (AC-4) |
|-----------------------------|--|
| | 18.5 kW at 220230 V AC 50/60 Hz (AC-3) |
| | 30 kW at 380400 V AC 50/60 Hz (AC-3) |
| | 37 kW at 500 V AC 50/60 Hz (AC-3) |
| | 37 kW at 660690 V AC 50/60 Hz (AC-3) |
| | 18.5 kW at 220230 V AC 50/60 Hz (AC-3e) |
| | 30 kW at 380400 V AC 50/60 Hz (AC-3e) |
| | 37 kW at 500 V AC 50/60 Hz (AC-3e) |
| | 37 kW at 660690 V AC 50/60 Hz (AC-3e) |
| Motor Power Hp | 40 hp at 460/480 V AC 50/60 Hz for 3 phases motors |
| | 5 hp at 115 V AC 50/60 Hz for 1 phase motors |
| | 10 hp at 230/240 V AC 50/60 Hz for 1 phase motors |
| | 20 hp at 200/208 V AC 50/60 Hz for 3 phases motors |
| | 20 hp at 230/240 V AC 50/60 Hz for 3 phases motors |
| | 50 hp at 575/600 V AC 50/60 Hz for 3 phases motors |
| Compatibility Code | LC1D |
| Pole Contact Composition | 3 NO |
| Protective Cover | With |
| [Ith] Conventional Free Air | 10 A (at 60 °C) for signalling circuit |
| Thermal Current | 80 A (at 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 |
|---|---|
| | 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 |
| [Icw] Rated Short-Time Withstand Current | 640 A 40 °C - 10 s for power circuit |
| ourient | 900 A 40 °C - 1 s for power circuit 110 A 40 °C - 10 min for power circuit |
| | 260 A 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 |
| | 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 | 1.5 mOhm - Ith 80 A 50 Hz for power circuit |
| Power Dissipation Per Pole | 9.6 W AC-1 |
| | 6.3 W AC-3 |
| | 6.3 W AC-3e |
| [Ui] Rated Insulation Voltage | Power circuit: 600 V CSA certified |
| | Power circuit: 600 V UL certified |
| | Signalling circuit: 690 V conforming to IEC 60947-1 |
| | Signalling circuit: 600 V CSA certified Signalling circuit: 600 V UL certified |
| | Power circuit: 690 V conforming to IEC 60947-4-1 |
| Overvoltage Category | |
| Pollution Degree | 3 |
| [Uimp] Rated Impulse Withstand | 6 kV conforming to IEC 60947 |
| Voltage | |
| Safety Reliability Level | B10d = 1369863 cycles contactor with nominal load conforming to EN/ISO 13849-1 |
| | B10d = 20000000 cycles contactor with mechanical load conforming to EN/ISO 13849-1 |
| Mechanical Durability | 6 Mcycles |
| Electrical Durability | 1.4 Mcycles 80 A AC-1 at Ue <= 440 V |
| | 1.45 Mcycles 65 A AC-3 at Ue <= 440 V |
| | 1.45 Mcycles 65 A AC-3e at Ue <= 440 V |
| Control Circuit Type | AC at 50/60 Hz |
| Coil Technology | Without built-in suppressor module |
| Control Circuit Voltage Limits | 0.30.6 Uc (-4070 °C):drop-out AC 50/60 Hz |
| | 0.81.1 Uc (-4060 °C):operational AC 50 Hz |
| | 0.851.1 Uc (-4060 °C):operational AC 60 Hz |
| | 11.1 Uc (6070 °C):operational AC 50/60 Hz |
| Inrush Power In Va | 140 VA 60 Hz cos phi 0.75 (at 20 °C) |
| | 160 VA 50 Hz cos phi 0.75 (at 20 °C) |
| Hold-In Power Consumption In Va | 13 VA 60 Hz cos phi 0.3 (at 20 °C) 15 VA 50 Hz cos phi 0.3 (at 20 °C) |
| Heat Dissipation | 45 W at 50/60 Hz |
| | |
| Operating Time | 419 ms opening 1226 ms closing |
| Maximum Operating Rate | 3600 cyc/h 60 °C |
| Connections - Terminals | Control circuit: lugs-ring terminals - external diameter: 8 mm Power circuit: lugs-ring terminals - external diameter: 16.5 mm |
| Tightening Torque | Control circuit: 1.7 N.m - on EverLink BTR screw connectors - with screwdriver flat Ø |
| | 6 mm M3.5 |
| | Control circuit: 1.7 N.m - on EverLink BTR screw connectors - with screwdriver |
| | Philips No 2 M3.5 Power circuit: 6 N.m - on EverLink BTR screw connectors hexagonal screw head 10 |
| | mm M6 |
| Auxiliary Contact Composition | 1 NO + 1 NC |
| | |

| Auxiliary Contacts Type | type mechanically linked 1 NO + 1 NC conforming to IEC 60947-5-1 type mirror contact 1 NC conforming to IEC 60947-4-1 |
|------------------------------|--|
| Signalling Circuit Frequency | 25400 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 | Plate Rail |

Environment

| Width | 55 mm |
|--|--|
| Height | 122 mm |
| Mechanical Robustness | Vibrations contactor open (2 Gn, 5300 Hz) Vibrations contactor closed (4 Gn, 5300 Hz) Shocks contactor closed (15 Gn for 11 ms) Shocks contactor open (10 Gn for 11 ms) |
| Flame Retardance | V1 conforming to UL 94 |
| Fire Resistance | 850 °C conforming to IEC 60695-2-1 |
| Operating Altitude | 03000 m |
| Permissible Ambient Air Temperature Around The Device | -4060 °C 6070 °C with derating |
| Climatic Withstand | conforming to IACS E10 exposure to damp heat conforming to IEC 60947-1 Annex Q category D exposure to damp heat |
| Protective Treatment | TH conforming to IEC 60068-2-30 |
| Ip Degree Of Protection | IP20 front face conforming to IEC 60529 |
| Product Certifications | CSA UL CCC GOST |
| Standards | CSA C22.2 No 14 EN 60947-4-1 EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 UL 508 |

Packing Units

| - | |
|------------------------------|---------|
| Unit Type Of Package 1 | PCE |
| Number Of Units In Package 1 | 1 |
| Package 1 Height | 6.2 cm |
| Package 1 Width | 13.7 cm |
| Package 1 Length | 15.2 cm |
| Package 1 Weight | 836.0 g |
| Unit Type Of Package 2 | S02 |
| Number Of Units In Package 2 | 10 |

| Package 2 Height | 15.0 cm |
|------------------------------|-----------|
| Package 2 Width | 30.0 cm |
| Package 2 Length | 40.0 cm |
| Package 2 Weight | 8.815 kg |
| Unit Type Of Package 3 | P06 |
| Number Of Units In Package 3 | 160 |
| Package 3 Height | 77.0 cm |
| Package 3 Width | 80.0 cm |
| Package 3 Length | 60.0 cm |
| Package 3 Weight | 149.54 kg |

Contractual warranty

Warranty

18 months

Sustainability Screen Premium

Green PremiumTM label is Schneider Electric's commitment to delivering products with best-inclass 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 | End of Life Information |