Product datasheet

Specifications





TeSys D contactor - 3P - <= 440 V - 65 A AC-3 - 48...130 V AC/DC

coil

Local distributor code: 407811876

LC1D65AEHE

EAN Code: 3606480988271

Main

| Range | TeSys TeSys Deca |
|--------------------------------|--|
| 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-3 AC-3e |
| Poles Description | 3P |
| [Ue] Rated Operational Voltage | Power circuit: <= 690 V AC 25400 Hz |
| [le] Rated Operational Current | 80 A (at <60 °C) at <= 440 V AC-1 for power circuit 65 A (at <60 °C) at <= 440 V AC-3 for power circuit 65 A (at <60 °C) at <= 440 V AC-3e for power circuit |
| [Uc] Control Circuit Voltage | 48130 V AC 50/60 Hz 48130 V DC |

Complementary

| Motor Power Kw | 18.5 kW at 220230 V AC 50 Hz (AC-3) |
|-----------------------------|---|
| | 30 kW at 380400 V AC 50 Hz (AC-3) |
| | 37 kW at 415 V AC 50 Hz (AC-3) |
| | 37 kW at 440 V AC 50 Hz (AC-3) |
| | 37 kW at 500 V AC 50 Hz (AC-3) |
| | 37 kW at 660690 V AC 50 Hz (AC-3) |
| | 18.5 kW at 220230 V AC 50 Hz (AC-3e) |
| | 30 kW at 380400 V AC 50 Hz (AC-3e) |
| | 37 kW at 415 V AC 50 Hz (AC-3e) |
| | 37 kW at 440 V AC 50 Hz (AC-3e) |
| | 37 kW at 500 V AC 50 Hz (AC-3e) |
| | 37 kW at 660690 V AC 50 Hz (AC-3e) |
| Motor Power Hp | 5 hp at 115 V AC 60 Hz for 1 phase motors |
| | 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 |
| Compatibility Code | LC1D |
| Pole Contact Composition | 3 NO |
| Protective Cover | With |
| [Ith] Conventional Free Air | 80 A (at 60 °C) for power circuit |
| Thermal Current | 10 A (at 60 °C) for signalling circuit |
| | |

| Irms Rated Making Capacity | 1000 A at 440 V for power circuit conforming to IEC 60947 |
|---|---|
| | 140 A AC for signalling circuit conforming to IEC 60947-5-1 |
| | 250 A DC for signalling circuit conforming to IEC 60947-5-1 |
| | |
| Rated Breaking Capacity | 1000 A at 440 V for power circuit conforming to IEC 60947 |
| [Icw] Rated Short-Time Withstand | 110 A 40 °C - 10 min for power circuit |
| Current | 260 A 40 °C - 1 min for power circuit |
| | 640 A 40 °C - 10 s for power circuit |
| | 900 A 40 °C - 1 s 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 | 125 A gG at <= 690 V coordination type 1 for power circuit |
| | 125 A gG at <= 690 V coordination type 2 for power circuit |
| | 10 A gG for signalling circuit conforming to IEC 60947-5-1 |
| 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: 690 V conforming to IEC 60947-4-1 |
| | Signalling circuit: 690 V conforming to IEC 60947-1 |
| Overvoltage Category | III |
| Pollution Degree | 3 |
| [Uimp] Rated Impulse Withstand Voltage | 6 kV conforming to IEC 60947 |
| | |
| 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 Durchility | |
| Electrical Durability | 1.8 Mcycles 57 A AC-3 at Ue <= 440 V |
| | 0.5 Mcycles 80 A AC-1 at Ue <= 440 V |
| | 1.8 Mcycles 57 A AC-3e at Ue <= 440 V |
| Control Circuit Type | AC/DC at 50/60 Hz AC/DC electronic |
| Coil Technology | Built-in bidirectional peak limiting |
| Control Circuit Voltage Limits | <= 0.1 Uc (-4070 °C):drop-out AC/DC |
| | 0.851.1 Uc (-4060 °C):operational AC/DC |
| | |
| | 11.1 Uc (6070 °C):operational AC/DC |
| Inrush Power In Va | 23 VA 50/60 Hz (at 20 °C) |
| Inrush Power In W | 19 W (at 20 °C) |
| Hold-In Power Consumption In Va | 1.4 VA 50/60 Hz (at 20 °C) |
| Hold-In Power Consumption In W | 0.9 W at 20 °C |
| Heat Dissipation | 0.9 W at 50/60 Hz |
| Operating Time | 5565 ms closing |
| | 20120 ms opening (date code >= 17221) |
| | |
| | 2080 ms opening (date code >= 18011) |
| Maximum Operating Rate | 3600 cyc/h 60 °C |

3600 cyc/h 60 °C

| Connections - Terminals | Control circuit: screw clamp terminals 1 14 mm ² - cable stiffness: flexible without | |
|--------------------------------------|---|--|
| | cable end | |
| | Control circuit: screw clamp terminals 2 14 mm ² - cable stiffness: flexible without | |
| | cable end | |
| | Control circuit: screw clamp terminals 1 14 mm ² - cable stiffness: flexible with cable end | |
| | Control circuit: screw clamp terminals 2 12.5 mm ² - cable stiffness: flexible with | |
| | cable end | |
| | Control circuit: screw clamp terminals 1 14 mm ² - cable stiffness: solid | |
| | Control circuit: screw clamp terminals 2 14 mm ² - cable stiffness: solid | |
| | Power circuit: EverLink BTR screw connectors 1 135 mm ² - cable stiffness: flexible without cable end | |
| | Power circuit: EverLink BTR screw connectors 1 135 mm ² - cable stiffness: flexible with cable end | |
| | Power circuit: EverLink BTR screw connectors 1 135 mm ² - cable stiffness: solid | |
| | Power circuit: EverLink BTR screw connectors 2 125 mm ² - cable stiffness: flexible without cable end | |
| | Power circuit: EverLink BTR screw connectors 2 125 mm ² - cable stiffness: flexible | |
| | with cable end | |
| | Power circuit: EverLink BTR screw connectors 2 125 mm ² - cable stiffness: solid | |
| | | |
| Tightening Torque | Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm | |
| | Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver Philips No 2 | |
| | Power circuit: 8 N.m - on EverLink BTR screw connectors - cable 2535 mm ² | |
| | hexagonal screw head 4 mm | |
| | Power circuit: 5 N.m - on EverLink BTR screw connectors - cable 125 mm ² | |
| | hexagonal screw head 4 mm | |
| | Power circuit: 5 N.m - with screwdriver pozidriv No 2 | |
| | Control circuit: 1.7 N.m - with screwdriver pozidriv No 2 | |
| 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 | |
| | 1.5 ma on do anaraiastian batwan NC and NO contact | |
| Non-Overlap Time | | |
| Non-Overlap Time | 1.5 ms on de-energisation between NC and NO contact 1.5 ms on energisation between NC and NO contact | |
| Non-Overlap Time Mounting Support | • | |

Environment

| Standards | EN/IEC 60947-4-1 EN/IEC 60947-5-1 UL 60947-4-1 CSA C22.2 No 60947-4-1 IEC 60335-1 | |
|--|--|--|
| Product Certifications | CCC CSA EAC UL KC DNV-GL LROS (Lloyds register of shipping) UKCA | |
| Ip Degree Of Protection | IP20 front face conforming to IEC 60529 | |
| Climatic Withstand | conforming to IACS E10 exposure to damp heat conforming to IEC 60947-1 Annex Q category D exposure to damp heat | |
| Permissible Ambient Air Temperature Around The Device | -4060 °C 6070 °C with derating | |
| Operating Altitude | 03000 m | |
| Fire Resistance | 850 °C conforming to IEC 60695-2-1 | |

| Flame Retardance | V1 conforming to UL 94 | |
|-----------------------|--|--|
| Mechanical Robustness | Vibrations contactor open (2 Gn, 5300 Hz) Vibrations contactor closed (4 Gn, 5300 Hz) Shocks contactor open (10 Gn for 11 ms) Shocks contactor closed (15 Gn for 11 ms) | |
| Height | 122 mm | |
| Width | 55 mm | |
| Depth | 120 mm | |
| Net Weight | 1.002 kg | |

Packing Units

| - | |
|------------------------------|----------|
| Unit Type Of Package 1 | PCE |
| Number Of Units In Package 1 | 1 |
| Package 1 Height | 6.2 cm |
| Package 1 Width | 13.5 cm |
| Package 1 Length | 15.2 cm |
| Package 1 Weight | 1.057 kg |
| Unit Type Of Package 2 | S02 |
| Number Of Units In Package 2 | 9 |
| Package 2 Height | 15.0 cm |
| Package 2 Width | 30.0 cm |
| Package 2 Length | 40.0 cm |
| Package 2 Weight | 10.04 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

Mercury Free
 Rohs Exemption Information Yes
 Halogen Free Plastic Parts & Cables Product

Certifications & Standards

| Reach Regulation | REACh Declaration |
|--------------------------|--|
| Eu Rohs Directive | Compliant with Exemptions |
| China Rohs Regulation | China RoHS declaration Product out of China RoHS scope. Substance declaration for your information |
| 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 |