LC1D65AUD

TeSys; TeSys Deca, Contactor, 3P(3 NO), AC-3, <= 440V, 65 A, 250V DC standard coil





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-1 AC-4 AC-3 |
| 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 |
| [Uc] control circuit voltage | 250 V DC |

Complementary

| 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) |
| 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 |
| Contact compatibility | M4 |
| Protective cover | With |
| [Ith] conventional free air thermal current | 10 A (at 60 °C) for signalling circuit 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 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 |
| | |

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| [Ui] rated insulation voltage | Power circuit: 600 V CSA certified[RETURN]Power circuit: 600 V UL certified[RETURN]Signalling circuit: 690 V conforming to IEC 60947-1[RETURN]Signalling circuit: 600 V CSA certified[RETURN]Signalling circuit: 600 V UL certified[RETURN]Power circuit: 690 V conforming to IEC 60947-4-1 |
|--|---|
| 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 |
| Safety feliability level | 13849-1 B10d = 20000000 cycles contactor with mechanical load conforming to EN/ISO 13849-1 |
| Mechanical durability | 10 Mcycles |
| Electrical durability | 0.5 Mcycles 80 A AC-1 at Ue <= 440 V 1.45 Mcycles 65 A AC-3 at Ue <= 440 V |
| Control circuit type | DC standard |
| Coil technology | Built-in bidirectional peak limiting diode suppressor |
| Control circuit voltage limits | 0.10.3 Uc (-4070 °C):drop-out DC 0.751.25 Uc (-4060 °C):operational DC 11.25 Uc (6070 °C):operational DC |
| Inrush power in W | 19 W (at 20 °C) |
| Hold-in power consumption in W | 7.4 W at 20 °C |
| Operating time | 50 ±15 % ms closing 1624 ms opening |
| Time constant | 34 ms |
| Maximum operating rate | 3600 cyc/h 60 °C |
| Tightening torque | Control circuit: screw clamp terminals 2 12.5 mm² - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 14 mm² - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 2 14 mm² - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 1 14 mm² - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 14 mm² - cable stiffness: solid without cable end Control circuit: screw clamp terminals 1 14 mm² - cable stiffness: solid without cable end Control circuit: screw clamp terminals 2 14 mm² - cable stiffness: solid without cable end Power circuit: EverLink BTR screw connectors 1 135 mm² - cable stiffness: flexible without cable end Power circuit: EverLink BTR screw connectors 2 125 mm² - cable stiffness: flexible with cable end Power circuit: EverLink BTR screw connectors 2 125 mm² - cable stiffness: flexible with cable end Power circuit: EverLink BTR screw connectors 2 125 mm² - cable stiffness: solid without cable end Power circuit: EverLink BTR screw connectors 1 135 mm² - cable stiffness: solid without cable end Power circuit: EverLink BTR screw connectors 2 125 mm² - cable stiffness: solid without cable end Power circuit: EverLink BTR screw connectors 2 125 mm² - cable stiffness: solid without cable end Control circuit: EverLink BTR screw connectors 2 125 mm² - cable stiffness: solid without cable end Control circuit: EverLink BTR screw connectors 2 125 mm² - cable stiffness: solid without cable end |
| | Control circuit: 1.7 N.m - on EverLink BTR screw connectors - with screwdriver Philips No 2 Power circuit: 8 N.m - on EverLink BTR screw connectors - cable 2535 mm² hexagonal screw head 4 mm Power circuit: 5 N.m - on EverLink BTR screw connectors - cable 125 mm² hexagonal screw head 4 mm |
| 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 | Rail Plate |

Environment

| Standards | CSA C22.2 No 14 |
|--|--|
| | EN 60947-4-1 |
| | EN 60947-5-1 |
| | IEC 60947-4-1 |
| | IEC 60947-5-1 |
| | UL 508 |
| Product certifications | CCC[RETURN]CSA[RETURN]UL[RETURN]GOST |
| IP degree of protection | IP20 front face conforming to IEC 60529 |
| Protective treatment | TH conforming to IEC 60068-2-30 |
| 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 | -4060 °C |
| device | 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 closed (15 Gn for 11 ms) |
| | Shocks contactor open (10 Gn for 11 ms) |
| Height | 122 mm |
| Width | 55 mm |
| Depth | 120 mm |
| Net weight | 0.935 kg |
| | |

Packing Units

| Unit Type of Package 1 | PCE | |
|------------------------------|-------|--|
| Number of Units in Package 1 | 1 | |
| Package 1 Height | 6 cm | |
| Package 1 Width | 14 cm | |
| Package 1 Length | 15 cm | |
| Package 1 Weight | 850 g | |

Offer Sustainability

| Sustainable offer status | Green Premium product |
|----------------------------|---|
| REACh free of SVHC | Yes |
| EU RoHS Directive | Compliant EEU RoHS Declaration |
| Toxic heavy metal free | Yes |
| Mercury free | Yes |
| China RoHS Regulation | China RoHS Declaration |
| 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

| Warranty | 18 months |
|----------|-----------|