LC1D115G7 TeSys D contactor - 3P(3 NO) - AC-3 - <= 440 V 115 A - 120 V AC coil



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| Main | |
|--|---|
| Range of product | TeSys D |
| Product or component type | Contactor |
| Device short name | LC1D |
| Contactor application | Motor control Resistive load |
| Utilisation category | AC-1 AC-3 |
| Poles description | 3P |
| Power pole contact composition | 3 NO |
| [Ue] rated operational voltage | <= 1000 V AC 25400 Hz for power circuit <= 690 V DC for power circuit |
| [le] rated operational current | 115 A (<= 60 °C) at <= 440 V AC AC-3 for power cir- cuit 200 A (<= 60 °C) at <= 440 V AC AC-1 for power cir- cuit |
| Motor power kW | 65 kW at 1000 V AC 50/60 Hz 80 kW at 660690 V AC 50/60 Hz 75 kW at 500 V AC 50/60 Hz 59 kW at 415440 V AC 50/60 Hz 55 kW at 380400 V AC 50/60 Hz 30 kW at 220230 V AC 50/60 Hz |
| Motor power HP (UL / CSA) | 100 hp at 575/600 V AC 50/60 Hz for 3 phases mo- tors 75 hp at 460/480 V AC 50/60 Hz for 3 phases mo- tors 40 hp at 230/240 V AC 50/60 Hz for 3 phases mo- tors 30 hp at 200/208 V AC 50/60 Hz for 3 phases mo- tors |
| Control circuit type | AC 50/60 Hz |
| Control circuit voltage | 120 V AC 50/60 Hz |
| Auxiliary contact com- position | 1 NO + 1 NC |
| [Uimp] rated impulse withstand voltage | 8 kV conforming to IEC 60947 |
| Overvoltage category | III |
| [Ith] conventional free air thermal current | 200 A at <= 60 °C for power circuit |
| Irms rated making capacity | 1260 A at 440 V for power circuit conforming to IEC 60947 250 A DC for signalling circuit conforming to IEC 60947-5-1 140 A AC for signalling circuit conforming to IEC 60947-5-1 |
| Rated breaking capac- ity | 1100 A at 440 V for power circuit conforming to IEC 60947 |
| [Icw] rated short-time withstand current | 140 A 100 ms signalling circuit 120 A 500 ms signalling circuit 100 A 1 s signalling circuit 1100 A ≤ 40 °C 1 s power circuit 950 A ≤ 40 °C 10 s power circuit 550 A ≤ 40 °C 1 min power circuit 250 A ≤ 40 °C 10 min power circuit |
| Associated fuse rating | 10 A gG for signalling circuit 200 A gG at <= 690 V coordination type 2 for power circuit 250 A gG at <= 690 V coordination type 1 for power circuit |
| Average impedance | 0.6 mOhm at 50 Hz - Ith 200 A for power circuit |
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| [Ui] rated insulation voltage | 1000 V for power circuit conforming to IEC 60947-4-1 600 V for signalling circuit certifications UL 600 V for signalling circuit certifications CSA 690 V for signalling circuit conforming to IEC 60947-1 600 V for power circuit certifications UL 600 V for power circuit certifications CSA |
|----------------------------------|---|
| Electrical durability | 0.95 Mcycles 115 A AC-3 at Ue <= 440 V 0.8 Mcycles 200 A AC-1 at Ue <= 440 V |
| Power dissipation per pole | 7.9 W AC-3 24 W AC-1 |
| Safety cover | With |
| Mounting support | Plate Rail |
| Standards | EN 60947-4-1 EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 UL 508 CSA C22.2 n°14 |
| Product certifications | BV CCC CSA DNV GL GOST RINA UL LROS |
| Connections - terminals | Power circuit: connector 2 cable(s) 1050 mm ² - ca- ble stiffness: solid - without cable end Power circuit: connector 1 cable(s) 10120 mm ² - cable stiffness: solid - without cable end Power circuit: connector 2 cable(s) 1050 mm ² - ca- ble stiffness: flexible - with cable end Power circuit: connector 1 cable(s) 10120 mm ² - cable stiffness: flexible - with cable end Power circuit: connector 2 cable(s) 1050 mm ² - ca- ble stiffness: flexible - with cable end Power circuit: connector 1 cable(s) 10120 mm ² - cable stiffness: flexible - without cable end Power circuit: connector 1 cable(s) 10120 mm ² - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 2 cable(s) 12.5 mm ² - cable stiffness: solid - without cable end Control circuit: screw clamp terminals 1 cable(s) 12.5 mm ² - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 1 cable(s) 12.5 mm ² - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 1 cable(s) 12.5 mm ² - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 1 cable(s) 12.5 mm ² - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 1 cable(s) 12.5 mm ² - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 1 cable(s) 12.5 mm ² - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 1 cable(s) 12.5 mm ² - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 1 cable(s) 12.5 mm ² - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 2 cable(s) 12.5 mm ² - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 2 cable(s) 12.5 mm ² - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 2 cable(s) |
| Tightening torque | Power circuit: 12 N.m - on connector hexagonal 4 mm Control circuit: 1.2 N.m - on screw clamp terminals - with screwdriver Philips No 2 Control circuit: 1.2 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm |
| Operating time | 2050 ms closing 620 ms opening |
| 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 | conforming to EN/ISO 13849-1 8 Mcycles |

Complementary

| Coil technology | Without built-in suppressor module |
|---------------------------------|--|
| Control circuit voltage limits | 0.81.15 Uc at 55 °C operational 50/60 Hz 0.30.5 Uc at 55 °C drop-out 50/60 Hz |
| Inrush power in VA | 280350 VA at 20 °C (cos φ 0.8) 50 Hz 280350 VA at 20 °C (cos φ 0.8) 60 Hz |
| Hold-in power consumption in VA | 218 VA at 20 °C (cos φ 0.3) 50 Hz 218 VA at 20 °C (cos φ 0.3) 60 Hz |
| Heat dissipation | 38 W at 50/60 Hz |
| 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 |
| Signalling circuit frequency | 25400 Hz |
| Minimum switching current | 5 mA for signalling circuit |
| Minimum switching voltage | 17 V for signalling circuit |
| Non-overlap time | 1.5 ms on energisation (between NC and NO contact) 1.5 ms on de-energisation (between NC and NO contact) |
| Insulation resistance | > 10 MOhm for signalling circuit |
| | |

Environment

| IP degree of protection | IP2x front face conforming to IEC 60529 |
|--|---|
| Protective treatment | TH conforming to IEC 60068-2-30 |
| Pollution degree | 3 |
| Ambient air temperature for operation | -560 °C |
| Ambient air temperature for storage | -6080 °C |
| Permissible ambient air temperature around the de- vice | -4070 °C at Uc |
| Operating altitude | 3000 m without derating in temperature |
| Fire resistance | 850 °C conforming to IEC 60695-2-1 |
| Flame retardance | V1 conforming to UL 94 |
| Mechanical robustness | Shocks contactor open 6 Gn for 11 ms Shocks contactor closed 15 Gn for 11 ms Vibrations contactor closed 4 Gn, 5300 Hz Vibrations contactor open 2 Gn, 5300 Hz |
| Height | 158 mm |
| Width | 120 mm |
| Depth | 136 mm |
| Product weight | 2.5 kg |
| | |

Offer Sustainability

| Sustainable offer status | Green Premium product |
|---------------------------------|---|
| RoHS | Compliant - since 0742 - 🖾 download declaration of conformity |
| REACh | Reference not containing SVHC above the threshold |
| Product environmental profile | Available |
| Product end of life instruction | Available 🗟 Download End Of Life Manual |

