

LC1D95M7

CONTACTOR 575VAC 95AMP IEC +OPTIONS



Main

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|---|---|
| Range | TeSys |
| Product name | TeSys D |
| Product or component type | Contacteur |
| Device short name | LC1D |
| Contacteur 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 for power circuit <= 300 V DC 25...400 Hz for power circuit |
| [Ie] rated operational current | 95 A (<= 60 °C) at <= 440 V AC AC-3 for power circuit 125 A (<= 60 °C) at <= 440 V AC AC-1 for power circuit |
| Motor power kW | 45 kW at 380...400 V AC 50/60 Hz 25 kW at 220...230 V AC 50/60 Hz 45 kW at 1000 V AC 50/60 Hz 45 kW at 660...690 V AC 50/60 Hz 55 kW at 500 V AC 50/60 Hz 45 kW at 415...440 V AC 50/60 Hz |
| Motor power HP (UL / CSA) | 60 hp at 575/600 V AC 50/60 Hz for 3 phases motors 60 hp at 460/480 V AC 50/60 Hz for 3 phases motors 25 hp at 230/240 V AC 50/60 Hz for 3 phases motors 15 hp at 230/240 V AC 50/60 Hz for 1 phase motors 7.5 hp at 115 V AC 50/60 Hz for 1 phase motors 20 hp at 200/208 V AC 50/60 Hz for 3 phases motors |
| Control circuit type | AC 50/60 Hz |
| Control circuit voltage | 220 V AC 50/60 Hz |
| Auxiliary contact composition | 1 NO + 1 NC |
| [Uimp] rated impulse withstand voltage | 8 kV conforming to IEC 60947 |
| Overvoltage category | III |
| [Ith] conventional free air thermal current | 125 A at <= 60 °C for power circuit 10 A at <= 60 °C for signalling circuit |
| Irms rated making capacity | 1100 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 capacity | 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 400 A <= 40 °C 1 min power circuit 800 A <= 40 °C 10 s power circuit 135 A <= 40 °C 10 min power circuit 1100 A <= 40 °C 1 s power circuit |

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| Associated fuse rating | 160 A gG at ≤ 690 V coordination type 2 for power circuit 200 A gG at ≤ 690 V coordination type 1 for power circuit 10 A gG for signalling circuit conforming to IEC 60947-5-1 |
| Average impedance | 0.8 mOhm at 50 Hz - Ith 125 A for power circuit |
| [Ui] rated insulation voltage | 600 V for signalling circuit certifications UL 600 V for signalling circuit certifications CSA 690 V for signalling circuit conforming to IEC 60947-1 1000 V for power circuit conforming to IEC 60947-4-1 600 V for power circuit certifications UL 600 V for power circuit certifications CSA |
| Electrical durability | 1.3 Mcycles 125 A AC-1 at Ue ≤ 440 V 1.2 Mcycles 95 A AC-3 at Ue ≤ 440 V |
| Power dissipation per pole | 7.2 W AC-3 12.5 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 No 14 |
| Product certifications | BV CCC DNV GL GOST RINA LROS |
| Connections - terminals | Power circuit : connector 2 cable(s) 4...25 mm ² - cable stiffness: solid - without cable end Power circuit : connector 1 cable(s) 4...50 mm ² - cable stiffness: solid - without cable end Power circuit : connector 2 cable(s) 4...16 mm ² - cable stiffness: flexible - with cable end Power circuit : connector 1 cable(s) 4...50 mm ² - cable stiffness: flexible - with cable end Power circuit : connector 2 cable(s) 4...25 mm ² - cable stiffness: flexible - without cable end Power circuit : connector 1 cable(s) 4...50 mm ² - cable stiffness: flexible - without cable end Control circuit : screw clamp terminals 2 cable(s) 1...4 mm ² - cable stiffness: solid - without cable end Control circuit : screw clamp terminals 1 cable(s) 1...4 mm ² - cable stiffness: solid - without cable end Control circuit : screw clamp terminals 2 cable(s) 1...4 mm ² - cable stiffness: flexible - without cable end Control circuit : screw clamp terminals 1 cable(s) 1...4 mm ² - cable stiffness: flexible - without cable end Control circuit : screw clamp terminals 1 cable(s) 1...2.5 mm ² - cable stiffness: flexible - with cable end Control circuit : screw clamp terminals 2 cable(s) 1...2.5 mm ² - cable stiffness: flexible - with cable end |
| Tightening torque | Power circuit : 9 N.m - on connector hexagonal 4 mm Power circuit : 9 N.m - on connector - with screwdriver flat Ø 6 to Ø 8 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 | 6...20 ms opening 20...35 ms closing |
| Safety reliability level | B10d = 2000000 cycles contactor with mechanical load conforming to EN/ISO 13849-1 B10d = 1369863 cycles contactor with nominal load conforming to EN/ISO 13849-1 |

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| Mechanical durability | 4 Mcycles |
| Operating rate | 3600 cyc/h at $\leq 60\text{ }^{\circ}\text{C}$ |

Complementary

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| Coil technology | Without built-in suppressor module |
| Control circuit voltage limits | 0.85...1.1 U_c at $55\text{ }^{\circ}\text{C}$ operational 60 Hz 0.8...1.1 U_c at $55\text{ }^{\circ}\text{C}$ operational 50 Hz 0.3...0.6 U_c at $55\text{ }^{\circ}\text{C}$ drop-out 50/60 Hz |
| Inrush power in VA | 245 VA at $20\text{ }^{\circ}\text{C}$ ($\cos\phi$ 0.75) 50 Hz 245 VA at $20\text{ }^{\circ}\text{C}$ ($\cos\phi$ 0.75) 60 Hz |
| Hold-in power consumption in VA | 26 VA at $20\text{ }^{\circ}\text{C}$ ($\cos\phi$ 0.3) 50 Hz 26 VA at $20\text{ }^{\circ}\text{C}$ ($\cos\phi$ 0.3) 60 Hz |
| Heat dissipation | 6...10 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 | 25...400 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

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| 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 | -5...60 $^{\circ}\text{C}$ |
| Ambient air temperature for storage | -60...80 $^{\circ}\text{C}$ |
| Permissible ambient air temperature around the device | -40...70 $^{\circ}\text{C}$ at U_c |
| Operating altitude | 3000 m without derating in temperature |
| Fire resistance | 850 $^{\circ}\text{C}$ conforming to IEC 60695-2-1 |
| Flame retardance | V1 conforming to UL 94 |
| Mechanical robustness | Shocks contactor closed 10 Gn for 11 ms Vibrations contactor closed 3 Gn, 5...300 Hz Shocks contactor open 8 Gn for 11 ms Vibrations contactor open 2 Gn, 5...300 Hz |
| Height | 127 mm |
| Width | 85 mm |
| Depth | 130 mm |
| Product weight | 1.61 kg |