

LC1D95FD

sklopnik TeSys D-3P (3 NO)-AC-3- \leq 440 V 95 A-
standardna zavojnica 110 V DC



Glavno

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| Range | TeSys |
| Product name | TeSys D |
| Product or component type | Contactors |
| Device short name | LC1D |
| Contactors application | Motor control Resistive load |
| Utilisation category | AC-1 AC-3 AC-4 |
| Poles description | 3P |
| Pole contact composition | 3 NO |
| [Ue] rated operational voltage | \leq 1000 V AC for power circuit \leq 300 V DC 25...400 Hz for power circuit |
| [Ie] rated operational current | 125 A (\leq 60 °C) at \leq 440 V AC AC-1 for power circuit 95 A (\leq 60 °C) at \leq 440 V AC AC-3 for power circuit |
| Motor power kW | 45 kW at 660...690 V AC 50/60 Hz AC-3 45 kW at 415...440 V AC 50/60 Hz AC-3 55 kW at 500 V AC 50/60 Hz AC-3 45 kW at 1000 V AC 50/60 Hz AC-3 15 kW at 400 V AC 50/60 Hz AC-4 25 kW at 220...230 V AC 50/60 Hz AC-3 45 kW at 380...400 V AC 50/60 Hz AC-3 |
| Motor power hp | 20 hp at 200/208 V AC 50/60 Hz for 3 phases motors 7.5 hp at 115 V AC 50/60 Hz for 1 phase motors 15 hp at 230/240 V AC 50/60 Hz for 1 phase motors 25 hp at 230/240 V AC 50/60 Hz for 3 phases motors 60 hp at 460/480 V AC 50/60 Hz for 3 phases motors 60 hp at 575/600 V AC 50/60 Hz for 3 phases motors |
| Control circuit type | DC standard |
| [Uc] control circuit voltage | 110 V DC |
| Auxiliary contact composition | 1 NO + 1 NC |
| [Uimp] rated impulse withstand voltage | Conforming to IEC 60947 |
| Overvoltage category | III |
| [Ith] conventional free air thermal current | 125 A at \leq 60 °C for power circuit 10 A at \leq 60 °C for signalling circuit |
| Irms rated making capacity | 1100 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 | 1100 A at 440 V for power circuit conforming to IEC 60947 |
| [Icw] rated short-time withstand current | 1100 A \leq 40 °C 1 s power circuit 135 A \leq 40 °C 10 min power circuit 400 A \leq 40 °C 1 min power circuit 800 A \leq 40 °C 10 s power circuit 100 A 1 s signalling circuit |

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| | 120 A 500 ms signalling circuit 140 A 100 ms signalling circuit |
| 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 | 1000 V for power circuit conforming to IEC 60947-4-1 600 V for power circuit certifications CSA 600 V for power circuit certifications UL 690 V for signalling circuit conforming to IEC 60947-1 600 V for signalling circuit certifications CSA 600 V for signalling circuit certifications UL |
| Electrical durability | 1.2 Mcycles 95 A AC-3 at Ue <= 440 V 1.3 Mcycles 125 A AC-1 at Ue <= 440 V |
| Power dissipation per pole | 7.2 W AC-3 12.5 W AC-1 |
| Protective cover | With |
| Mounting support | Plate Rail |
| Standards | UL 508 CSA C22.2 No 14 EN 60947-4-1 EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 |
| Product certifications | BV CCC DNV GL GOST LROS (Lloyds register of shipping) RINA |
| Connections - terminals | Control circuit: screw clamp terminals 2 cable(s) 1...2.5 mm ² - cable stiffness: flexible - with 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 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: solid - 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...2.5 mm ² - cable stiffness: flexible - with cable end Power circuit: connector 1 cable(s) 4...50 mm ² - cable stiffness: flexible - without 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 - with 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: solid - without cable end Power circuit: connector 2 cable(s) 4...25 mm ² - cable stiffness: solid - without cable end |
| Tightening torque | Power circuit: 9 N.m - on connector - with screwdriver flat Ø 6 to Ø 8 mm Power circuit: 9 N.m - on connector hexagonal 4 mm Control circuit: 1.2 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm Control circuit: 1.2 N.m - on screw clamp terminals - with screwdriver Philips No 2 |

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| Operating time | 20...35 ms opening 95...130 ms closing |
| 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 | 4 Mcycles |
| Operating rate | 3600 cyc/h at <= 60 °C |

Komplementarno

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| Coil technology | Without built-in suppressor module |
| Control circuit voltage limits | 0.1...0.3 Uc drop-out at 55 °C, DC 0.85...1.1 Uc operational at 55 °C, DC |
| Time constant | 75 ms |
| Inrush power in W | 22 W at 20 °C |
| Hold-in power consumption in W | 22 W at 20 °C |
| 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 | 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 de-energisation (between NC and NO contact) 1.5 ms on energisation (between NC and NO contact) |
| Insulation resistance | > 10 MOhm for signalling circuit |

Okolina

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| IP degree of protection | IP20 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 °C |
| ambient air temperature for storage | -60...80 °C |
| permissible ambient air temperature around the device | -40...70 °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 | Vibrations contactor open 2 Gn, 5...300 Hz Shocks contactor open 8 Gn for 11 ms Vibrations contactor closed 3 Gn, 5...300 Hz Shocks contactor closed 10 Gn for 11 ms |
| height | 127 mm |
| width | 85 mm |
| depth | 186 mm |
| product weight | 2.61 kg |

Offer Sustainability

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| Green Premium product | Green Premium product |
| Compliant - since 0706 - Schneider Electric declaration of conformity | Compliant - since 0706 - Schneider Electric declaration of conformity |
| Reference not containing SVHC above the threshold | Reference not containing SVHC above the threshold |
| Available | Available |
| Need no specific recycling operations | Need no specific recycling operations |

Contractual warranty

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| Warranty period | 18 months |
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