

LC1DT60AED

sklopnik TeSys D-4P(4 NO)-AC-1- \leq 440 V 60 A-
standardna zavojnica 48 V DC



Glavno

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|---|---|
| Range | TeSys |
| Product name | TeSys D |
| Product or component type | Contactora |
| Device short name | LC1D |
| Contactora application | Resistive load |
| Utilisation category | AC-1 |
| Poles description | 4P |
| Pole contact composition | 4 NO |
| [Ue] rated operational voltage | \leq 690 V AC 25...400 Hz for power circuit \leq 300 V DC for power circuit |
| [Ie] rated operational current | 60 A (\leq 60 °C) at \leq 440 V AC AC-1 for power circuit |
| Control circuit type | DC standard |
| [Uc] control circuit voltage | 48 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 | 60 A at \leq 60 °C for power circuit 10 A at \leq 60 °C for signalling circuit |
| Irms rated making capacity | 800 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 | 800 A at 440 V for power circuit conforming to IEC 60947 |
| [Icw] rated short-time withstand current | 100 A 1 s signalling circuit 120 A 500 ms signalling circuit 140 A 100 ms signalling circuit 320 A \leq 40 °C 10 s power circuit 720 A \leq 40 °C 1 s power circuit 72 A \leq 40 °C 10 min power circuit 165 A \leq 40 °C 1 min power circuit |
| Associated fuse rating | 80 A gG at \leq 690 V coordination type 1 for power circuit 80 A gG at \leq 690 V coordination type 2 for power circuit 10 A gG for signalling circuit conforming to IEC 60947-5-1 |
| Average impedance | 1.6 mOhm at 50 Hz - Ith 60 A for power circuit |
| [Ui] rated insulation voltage | 600 V for power circuit certifications CSA 600 V for power circuit certifications UL 690 V for power circuit conforming to IEC 60947-4-1 690 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 | 1.4 Mcycles 60 A AC-1 at Ue \leq 440 V |
| Power dissipation per pole | 5.8 W AC-1 |
| Protective cover | With |

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| 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 CSA DNV GL GOST LROS (Lloyds register of shipping) RINA UL |
| 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: flexible - with 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 Power circuit : screw clamp terminal 1 cable(s) 1...35 mm ² - cable stiffness: solid - without cable end Power circuit : screw clamp terminal 1 cable(s) 1...35 mm ² - cable stiffness: flexible - without cable end Power circuit : screw clamp terminal 1 cable(s) 1...35 mm ² - cable stiffness: flexible - with cable end Power circuit : screw clamp terminal 2 cable(s) 1...25 mm ² - cable stiffness: flexible - with cable end Power circuit : screw clamp terminal 2 cable(s) 1...25 mm ² - cable stiffness: solid - without cable end Power circuit : screw clamp terminal 2 cable(s) 1...25 mm ² - cable stiffness: flexible - without cable end |
| 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 screw clamp terminals - cable 25...35 mm ² hexagonal 4 mm Power circuit: 5 N.m - on screw clamp terminals - cable 1...25 mm ² hexagonal 4 mm |
| Operating time | 16...24 ms opening 42.5...57.5 ms closing |
| Safety reliability level | B10d = 1369863 cycles contactor with nominal load conforming to EN/ISO 13849-1 B10d = 2000000 cycles contactor with mechanical load conforming to EN/ISO 13849-1 |
| Mechanical durability | 10 Mcycles |
| Operating rate | 3600 cyc/h at ≤ 60 °C |

Komplementarno

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|--------------------------------|---|
| Coil technology | Built-in bidirectional peak limiting diode suppressor |
| Control circuit voltage limits | 0.1...0.3 U _c drop-out at 60 °C, DC 0.75...1.25 U _c operational at 60 °C, DC |
| Time constant | 34 ms |

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| Inrush power in W | 19 W at 20 °C |
| Hold-in power consumption in W | 7.4 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 U _c |
| 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 Vibrations contactor closed 4 Gn, 5...300 Hz Shocks contactor open 10 Gn for 11 ms Shocks contactor closed 15 Gn for 11 ms |
| height | 122 mm |
| width | 70 mm |
| depth | 120 mm |
| product weight | 1.165 kg |

Offer Sustainability

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| Green Premium product | Green Premium product |
| Compliant - since 0501 - Schneider Electric declaration of conformity | Compliant - since 0501 - Schneider Electric declaration of conformity |
| Reference not containing SVHC above the threshold | Reference not containing SVHC above the threshold |
| Available | Available |
| Available | Available |

Contractual warranty

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| Warranty period | 18 months |
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