

LC1D1506E7

TeSys D contactor - 3P(3 NO) - AC-3 - ≤ 440 V
150 A - 48 V AC 50/60 Hz coil



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 AC-4 |
| Poles description | 3P |
| Pole contact composition | 3 NO |
| [Ue] rated operational voltage | ≤ 1000 V AC 25...400 Hz for power circuit ≤ 300 V DC for power circuit |
| [Ie] rated operational current | 200 A (≤ 60 °C) at ≤ 440 V AC AC-1 for power circuit 150 A (≤ 60 °C) at ≤ 440 V AC AC-3 for power circuit |
| Motor power kW | 40 kW at 220...230 V AC 50/60 Hz AC-3 75 kW at 380...400 V AC 50/60 Hz AC-3 80 kW at 415...440 V AC 50/60 Hz AC-3 90 kW at 500 V AC 50/60 Hz AC-3 100 kW at 660...690 V AC 50/60 Hz AC-3 75 kW at 1000 V AC 50/60 Hz AC-3 22 kW at 400 V AC 50/60 Hz AC-4 |
| Motor power hp | 40 hp at 200/208 V AC 50/60 Hz for 3 phases motors 50 hp at 230/240 V AC 50/60 Hz for 3 phases motors 100 hp at 460/480 V AC 50/60 Hz for 3 phases motors 125 hp at 575/600 V AC 50/60 Hz for 3 phases motors |
| Control circuit type | AC 50/60 Hz |
| [Uc] control circuit voltage | 48 V AC 50/60 Hz |
| 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 | 200 A at ≤ 60 °C for power circuit |
| Irms rated making capacity | 1660 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 | 1400 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 250 A ≤ 40 °C 10 min power circuit 580 A ≤ 40 °C 1 min power circuit 1200 A ≤ 40 °C 10 s power circuit 1400 A ≤ 40 °C 1 s power circuit |
| Associated fuse rating | 250 A gG at ≤ 690 V coordination type 2 for power circuit |

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| | 315 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 | 0.6 mOhm at 50 Hz - lth 200 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 | 0.85 Mcycles 150 A AC-3 at Ue ≤ 440 V 1 Mcycles 200 A AC-1 at Ue ≤ 440 V |
| Power dissipation per pole | 24 W AC-1 13.5 W AC-3 |
| 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 CSA DNV GL GOST LROS (Lloyds register of shipping) RINA UL |
| Connections - terminals | Power circuit : bars 1 5 x 25 mm Control circuit : lugs-ring terminals - external diameter: 8 mm Power circuit : lugs-ring terminals - external diameter: 25 mm |
| Tightening torque | Control circuit : 1.2 N.m - on lugs-ring terminals - with screwdriver flat Ø 6 mm screw : M3.5 Control circuit : 1.2 N.m - on lugs-ring terminals - with screwdriver Philips No 2 screw : M3.5 Power circuit : 12 N.m - on lugs-ring terminals hexagonal 13 mm screw : M8 Power circuit : 12 N.m - on bars hexagonal 13 mm screw : M8 |
| Operating time | 20...35 ms closing 40...75 ms opening |
| 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 | 8 Mcycles |
| Operating rate | 1200 cyc/h at ≤ 60 °C |

Complementary

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| Coil technology | Built-in bidirectional peak limiting diode suppressor |
| Control circuit voltage limits | 0.3...0.5 Uc drop-out at 55 °C, AC 50/60 Hz 0.8...1.15 Uc operational at 55 °C, AC 50/60 Hz |
| Inrush power in VA | 280...350 VA at 20 °C (cos φ 0.9) 60 Hz 280...350 VA at 20 °C (cos φ 0.9) 50 Hz |
| Hold-in power consumption in VA | 2...18 VA at 20 °C (cos φ 0.9) 60 Hz 2...18 VA at 20 °C (cos φ 0.9) 50 Hz |
| Heat dissipation | 3...4.5 W at 50/60 Hz |
| 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 |

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| 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 |

Environment

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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 closed 15 Gn for 11 ms Shocks contactor open 6 Gn for 11 ms |
| height | 158 mm |
| width | 120 mm |
| depth | 136 mm |
| product weight | 2.5 kg |

Offer Sustainability

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| Sustainable offer status | Green Premium product |
| RoHS (date code: YYWW) | Compliant - since 0927 - Schneider Electric declaration of conformity |
| REACH | Reference not containing SVHC above the threshold |
| Product environmental profile | Available |
| Product end of life instructions | Available |