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| Commercial Status | Commercialised |
| Range of product | 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 |
| Pole contact composition | 3 NO |
| [Ue] rated operational voltage | <= 300 V DC for power circuit <= 1000 V AC 25...400 Hz for power circuit |
| [Ie] rated operational current | 150 A (<= 140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit 200 A (<= 140 °F (60 °C)) at <= 440 V AC AC-1 for power circuit |
| Motor power kW | 75 kW at 1000 V AC 50/60 Hz 100 kW at 660...690 V AC 50/60 Hz 90 kW at 500 V AC 50/60 Hz 80 kW at 415...440 V AC 50/60 Hz 75 kW at 380...400 V AC 50/60 Hz 40 kW at 220...230 V AC 50/60 Hz |
| Motor power hp | 125 hp at 575/600 V AC 50/60 Hz for 3 phases motors 100 hp at 460/480 V AC 50/60 Hz for 3 phases motors 50 hp at 230/240 V AC 50/60 Hz for 3 phases motors 40 hp at 200/208 V AC 50/60 Hz for 3 phases motors |
| Control circuit type | DC standard |
| Control circuit voltage | 24 V DC |
| Auxiliary contact composition | 1 NO + 1 NC |
| [Uimp] rated impulse withstand voltage | 8 kV conforming to IEC 60947 |
| Overtoltage category | III |
| [Ith] conventional free air thermal current | 200 A at <= 140 °F (60 °C) for power circuit |
| Irms rated making capacity | 1660 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 | 1400 A at 440 V for power circuit conforming to IEC 60947 |
| [Icw] rated short-time withstand current | 1400 A <= 104 °F (40 °C) 1 s power circuit 1200 A <= 104 °F (40 °C) 10 s power circuit 580 A <= 104 °F (40 °C) 1 min power circuit 140 A 100 ms signalling circuit 120 A 500 ms signalling circuit 100 A 1 s signalling circuit 250 A <= 104 °F (40 °C) 10 min power circuit |
| Associated fuse rating | 250 A gG at <= 690 V coordination type 2 for power circuit 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 - 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 | 1 Mcycles 200 A AC-1 at Ue ≤ 440 V 0.85 Mcycles 150 A AC-3 at Ue ≤ 440 V |
| Power dissipation per pole | AC-3 AC-1 |
| Protective 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 CSA DNV GL GOST RINA UL LROS |
| Connections - terminals | Power circuit: connector 2 cable(s) 0.02...0.08 in ² (10...50 mm ²) - cable stiffness: solid - without cable end Power circuit: connector 1 cable(s) 0.02...0.19 in ² (10...120 mm ²) - cable stiffness: solid - without cable end Power circuit: connector 2 cable(s) 0.02...0.08 in ² (10...50 mm ²) - cable stiffness: flexible - with cable end Power circuit: connector 1 cable(s) 0.02...0.19 in ² (10...120 mm ²) - cable stiffness: flexible - with cable end Power circuit: connector 2 cable(s) 0.02...0.08 in ² (10...50 mm ²) - cable stiffness: flexible - without cable end Power circuit: connector 1 cable(s) 0.02...0.19 in ² (10...120 mm ²) - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 2 cable(s) 0...0 in ² (1...2.5 mm ²) - cable stiffness: solid - without cable end Control circuit: screw clamp terminals 1 cable(s) 0...0 in ² (1...2.5 mm ²) - cable stiffness: solid - without cable end Control circuit: screw clamp terminals 2 cable(s) 0...0 in ² (1...2.5 mm ²) - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 1 cable(s) 0...0 in ² (1...2.5 mm ²) - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 1 cable(s) 0...0 in ² (1...2.5 mm ²) - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 2 cable(s) 0...0 in ² (1...2.5 mm ²) - cable stiffness: flexible - with cable end |
| Tightening torque | Power circuit: 106.19 lbf.in (12 N.m) - on connector hexagonal 0.16 in (4 mm) Control circuit: 10.62 lbf.in (1.2 N.m) - on screw clamp terminals - with screwdriver Philips No 2 Control circuit: 10.62 lbf.in (1.2 N.m) - on screw clamp terminals - with screwdriver flat Ø 6 mm |
| Operating time | 40...75 ms opening 20...35 ms closing |

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| 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 | 8 Mcycles |
| Operating rate | 1200 cyc/h at ≤ 140 °F (60 °C) |

Complementary

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| Coil technology | Without built-in suppressor module |
| Control circuit voltage limits | 0.15...0.4 Uc at 131 °F (55 °C) drop-out 0.75...1.2 Uc at 131 °F (55 °C) operational |
| Time constant | 25 ms |
| Inrush power in W | 270...365 W at 68 °F (20 °C) |
| Hold-in power consumption in W | 2.4...5.1 W at 68 °F (20 °C) |
| 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 | 23...140 °F (-5...60 °C) |
| Ambient air temperature for storage | -76...176 °F (-60...80 °C) |
| Permissible ambient air temperature around the device | -40...158 °F (-40...70 °C) at Uc |
| Operating altitude | 9842.52 ft (3000 m) without derating in temperature |
| Fire resistance | 1562 °F (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, 5...300 Hz Vibrations contactor open 2 Gn, 5...300 Hz |
| Height | 6.22 in (158 mm) |
| Width | 4.72 in (120 mm) |
| Depth | 5.35 in (136 mm) |
| Product weight | 5.51 lb(US) (2.5 kg) |

Ordering and shipping details

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| Category | 22345 - CTR,D-LINE,OPEN,NONREV-NEW |
| Discount Schedule | I12 |
| GTIN | 00785901696445 |
| Nbr. of units in pkg. | 1 |
| Package weight(Lbs) | 5.32 |
| Product availability | Stock - Normally stocked in distribution facility |
| Returnability | Y |
| Country of origin | CZ |

Offer Sustainability

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| Sustainable offer status | Green Premium product |
| RoHS | Compliant - since 0927 - Schneider Electric declaration of conformity |
| REACH | Reference not containing SVHC above the threshold |
| Product environmental profile | Available Download Product Environmental |
| Product end of life instructions | Need no specific recycling operations |

Contractual warranty

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| Period | 18 months |
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