

Main

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| Range | TeSys |
| Range of product | TeSys Deca |
| Product or component type | Contacteur |
| Device short name | LC1D |
| Contacteur application | Resistive load |
| Utilisation category | AC-1 AC-3 AC-3e AC-4 |
| Poles description | 4P |
| [Ue] rated operational voltage | Power circuit: <= 1000 V AC 25...400 Hz Power circuit: <= 460 V DC |
| [Ie] rated operational current | 200 A (at <60 °C) at <= 440 V AC AC-1 for power circuit |
| [Uc] control circuit voltage | 220 V DC |

Complementary

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|---|---|
| Compatibility code | LC1D |
| Pole contact composition | 4 NO |
| Protective cover | With |
| [Ith] conventional free air thermal current | 200 A (at 60 °C) for power circuit |
| Irms rated making capacity | 1260 A at 440 V for power circuit conforming to IEC 60947 |
| Rated breaking capacity | 1100 A at 440 V for power circuit conforming to IEC 60947 |
| [Icw] rated short-time withstand current | 250 A 40 °C - 10 min for power circuit 550 A 40 °C - 1 min for power circuit 950 A 40 °C - 10 s for power circuit 1100 A 40 °C - 1 s for power circuit |
| Associated fuse rating | 250 A gG at <= 690 V coordination type 1 for power circuit 200 A gG at <= 690 V coordination type 2 for power circuit |
| Average impedance | 0.6 mOhm - Ith 200 A 50 Hz for power circuit |
| Power dissipation per pole | 24 W AC-1 |
| [Ui] rated insulation voltage | Power circuit: 600 V CSA certified Power circuit: 600 V UL certified Power circuit: 1000 V conforming to IEC 60947-4-1 |
| Overvoltage category | III |
| Pollution degree | 3 |
| [Uimp] rated impulse withstand voltage | 8 kV conforming to IEC 60947 |
| Safety reliability level | B10d = 684932 cycles contactor with nominal load conforming to EN/ISO 13849-1 B10d = 10000000 cycles contactor with mechanical load conforming to EN/ISO 13849-1 |
| Mechanical durability | 8 Mcycles |
| Electrical durability | 0.8 Mcycles 200 A AC-1 at Ue <= 440 V |
| Control circuit type | DC standard |
| Coil technology | With integral suppression device |
| Control circuit voltage limits | 0.75...1.2 Uc (-40...55 °C):operational DC 0.15...0.4 Uc (-40...70 °C):drop-out DC 1...1.2 Uc (55...70 °C):operational DC |
| Inrush power in W | 270...365 W (at 20 °C) |

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| Hold-in power consumption in W | 2.4...5.1 W at 20 °C |
| Operating time | 20...35 ms closing 40...75 ms opening |
| Time constant | 25 ms |
| Maximum operating rate | 1200 cyc/h at 60 °C |
| Connections - terminals | Control circuit: screw clamp terminals 2 1...2.5 mm ² - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 1...2.5 mm ² - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 1...2.5 mm ² - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 2 1...2.5 mm ² - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 1 1...2.5 mm ² - cable stiffness: solid without cable end Control circuit: screw clamp terminals 2 1...2.5 mm ² - cable stiffness: solid without cable end Power circuit: connector 1 10...120 mm ² - cable stiffness: flexible without cable end Power circuit: connector 2 10...50 mm ² - cable stiffness: flexible without cable end Power circuit: connector 1 10...120 mm ² - cable stiffness: flexible with cable end Power circuit: connector 2 10...50 mm ² - cable stiffness: flexible with cable end Power circuit: connector 1 10...120 mm ² - cable stiffness: solid without cable end Power circuit: connector 2 10...50 mm ² - cable stiffness: solid without cable end |
| Tightening torque | 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 Power circuit: 12 N.m - on connector hexagonal screw head 4 mm Control circuit: 1.2 N.m - on screw clamp terminals - with screwdriver pozidriv No 2 |
| Mounting support | Rail Plate |

Environment

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| Standards | CSA C22.2 No 14 EN 60947-4-1 EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 UL 508 |
| Product certifications | RINA[RETURN]GOST[RETURN]DNV[RETURN]BV[RETURN]CCC[RETURN]UL[RETURN]GL[RE (Lloyds register of shipping)[RETURN]CSA[RETURN]UKCA |
| IP degree of protection | IP20 front face conforming to IEC 60529 |
| Protective treatment | TH conforming to IEC 60068-2-30 |
| Climatic withstand | Conforming to IACS E10 exposure to damp heat Conforming to IEC 60947-1 Annex Q category D exposure to damp heat |
| Permissible ambient air temperature around the device | -40...60 °C 60...70 °C with derating |
| Operating altitude | 0...3000 m |
| 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 | 150 mm |
| Depth | 132 mm |
| Net weight | 2.86 kg |

Packing Units

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| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 16.8 cm |
| Package 1 Width | 21.2 cm |
| Package 1 Length | 18.5 cm |
| Package 1 Weight | 2.75 kg |

Offer Sustainability

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|---|---|
| Packaging without single use plastic | Yes |
| Packaging made with recycled cardboard | Yes |
| SCIP Number | A530c666-91dd-4119-8d61-f1c22a361ecb |
| REACH Regulation | REACH Declaration |
| EU RoHS Directive | Compliant with Exemptions |
| Mercury free | Yes |
| Sustainable packaging | Yes |
| RoHS exemption information | Yes |
| China RoHS Regulation | China RoHS Declaration |
| Environmental Disclosure | Product Environmental Profile |
| Circularity Profile | End Of Life Information |
| WEEE | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |
| PVC free | Yes |
| Take-back | No |
| Carbon footprint (kg.eq.CO2 per CR, Total Life cycle) | 204 |

Contractual warranty

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| Warranty | 18 months |
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