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Main

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|---|--|
| Range | TeSys |
| Product name | TeSys D |
| Product or component type | Contacteur |
| Device short name | LC1D |
| Contacteur application | Resistive load |
| Utilisation category | AC-1 |
| Poles description | 4P |
| Power pole contact composition | 2 NO + 2 NC |
| [Ue] rated operational voltage | Power circuit ≤ 690 V AC 25...400 Hz Power circuit ≤ 300 V DC |
| [Ie] rated operational current | 80 A 140 °F (60 °C) ≤ 440 V AC AC-1 power circuit |
| Control circuit type | AC 50/60 Hz |
| [Uc] control circuit voltage | 220 V AC 50/60 Hz |
| [Uimp] rated impulse withstand voltage | 6 kV IEC 60947 |
| Overtoltage category | III |
| [Ith] conventional free air thermal current | 80 A 140 °F (60 °C) power circuit |
| Irms rated making capacity | 1000 A at 440 V for power circuit conforming to IEC 60947 |
| Rated breaking capacity | 1000 A at 440 V for power circuit conforming to IEC 60947 |
| [Icw] rated short-time withstand current | 520 A 40 °C - 10 s for power circuit 900 A 40 °C - 1 s for power circuit 110 A 40 °C - 10 min for power circuit 260 A 40 °C - 1 min for power circuit |
| Associated fuse rating | 125 A gG at ≤ 690 V coordination type 1 for power circuit 125 A gG at ≤ 690 V coordination type 2 for power circuit |
| Average impedance | 1.5 mOhm - Ith 80 A 50 Hz power circuit |
| [Ui] rated insulation voltage | Power circuit 600 V CSA Power circuit 600 V UL Power circuit 690 V IEC 60947-4-1 |
| Electrical durability | 1.4 Mcycles 80 A AC-1 ≤ 440 V |
| Power dissipation per pole | 9.6 W AC-1 |
| Front cover | Without |
| Mounting support | Plate Rail |
| 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 BV CSA UL LROS (Lloyds register of shipping) CCC DNV GL GOST |

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| Connections - terminals | Control circuit screw clamp terminals 2 0.00... 0.00 in ² (1...2.5 mm ²)flexible with cable end Control circuit screw clamp terminals 1 0.00... 0.01 in ² (1...4 mm ²)flexible without cable end Control circuit screw clamp terminals 2 0.00... 0.01 in ² (1...4 mm ²)flexible without cable end Control circuit screw clamp terminals 1 0.00... 0.01 in ² (1...4 mm ²)flexible with cable end Control circuit screw clamp terminals 1 0.00... 0.01 in ² (1...4 mm ²)solid without cable end Control circuit screw clamp terminals 2 0.00... 0.01 in ² (1...4 mm ²)solid without cable end Power circuit screw clamp terminals 1 0.00...0.05 in ² (1...35 mm ²)flexible without cable end Power circuit screw clamp terminals 2 0.00...0.04 in ² (1...25 mm ²)flexible without cable end Power circuit screw clamp terminals 1 0.00...0.05 in ² (1...35 mm ²)flexible with cable end Power circuit screw clamp terminals 2 0.00...0.04 in ² (1...25 mm ²)flexible with cable end Power circuit: screw clamp terminals 1 cable(s) 1... 35 mm ² solid without cable end Power circuit: screw clamp terminals 2 cable(s) 1... 25 mm ² solid without cable end |
| Tightening torque | Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals flat Ø 6 mm Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals Philips No 2 Power circuit 70.81 lbf.in (8 N.m) screw clamp terminals 0.04...0.05 in ² (25...35 mm ²) hexagonal 0.16 in (4 mm) Power circuit 44.25 lbf.in (5 N.m) screw clamp terminals 0.00...0.04 in ² (1...25 mm ²) hexagonal 0.16 in (4 mm) |
| Operating time | 4...19 ms opening 12...26 ms closing |
| Safety reliability level | B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1 |
| Mechanical durability | 6 Mcycles |
| Maximum operating rate | 3600 cyc/h 140 °F (60 °C) |

Complementary

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|---------------------------------|---|
| Coil technology | Without built-in suppressor module |
| Control circuit voltage limits | 0.3...0.6 Uc -40...158 °F (-40...70 °C) drop-out AC 50/60 Hz 0.8...1.1 Uc -40...140 °F (-40...60 °C) operational AC 50 Hz 0.85...1.1 Uc -40...140 °F (-40...60 °C) operational AC 60 Hz 1...1.1 Uc 140...158 °F (60...70 °C) operational AC 50/60 Hz |
| Inrush power in VA | 140 VA 60 Hz 0.75 68 °F (20 °C)) 160 VA 50 Hz 0.75 68 °F (20 °C)) |
| Hold-in power consumption in VA | 13 VA 60 Hz 0.3 68 °F (20 °C)) 15 VA 50 Hz 0.3 68 °F (20 °C)) |
| Heat dissipation | 4...5 W 50/60 Hz |
| Contact compatibility | M1 |
| Compatibility code | LC1D |

Environment

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|---------------------------------------|---|
| IP degree of protection | IP20 front face IEC 60529 |
| Protective treatment | TH IEC 60068-2-30 |
| Pollution degree | 3 |
| Ambient air temperature for operation | -40...140 °F (-40...60 °C) 140...158 °F (60...70 °C) with derating |
| Ambient air temperature for storage | -76...176 °F (-60...80 °C) |
| Operating altitude | 0..9842.52 ft (0...3000 m) |
| Fire resistance | 1562 °F (850 °C) IEC 60695-2-1 |
| Flame retardance | V1 UL 94 |

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| Mechanical robustness | Vibrations contactor open2 Gn, 5...300 Hz Vibrations contactor closed4 Gn, 5...300 Hz Shocks contactor closed15 Gn for 11 ms Shocks contactor open10 Gn for 11 ms |
| Height | 5.00 in (127 mm) |
| Maximum Width | 3.35 in (85 mm) |
| Depth | 4.92 in (125 mm) |
| Net Weight | 3.20 lb(US) (1.45 kg) |

Ordering and shipping details

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|-----------------------|---------------------------------------|
| Category | 22357 - CTR, TESYS D, OPEN, 40-65A AC |
| Discount Schedule | I12 |
| GTIN | 00785901137481 |
| Nbr. of units in pkg. | 1 |
| Package weight(Lbs) | 3.14 lb(US) (1.42 kg) |
| Returnability | No |
| Country of origin | CZ |

Packing Units

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|------------------------------|---------------------------|
| Unit Type of Package 1 | PCE |
| Package 1 Height | 4.41 in (11.2 cm) |
| Package 1 width | 5.31 in (13.5 cm) |
| Package 1 Length | 5.98 in (15.2 cm) |
| Unit Type of Package 2 | S02 |
| Number of Units in Package 2 | 5 |
| Package 2 Weight | 16.82 lb(US) (7.628 kg) |
| Package 2 Height | 5.91 in (15 cm) |
| Package 2 width | 11.81 in (30 cm) |
| Package 2 Length | 15.75 in (40 cm) |
| Unit Type of Package 3 | S06 |
| Number of Units in Package 3 | 48 |
| Package 3 Weight | 179.35 lb(US) (81.352 kg) |
| Package 3 Height | 28.94 in (73.5 cm) |
| Package 3 width | 23.62 in (60 cm) |
| Package 3 Length | 31.50 in (80 cm) |

Offer Sustainability

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| Sustainable offer status | Green Premium product |
| California proposition 65 | WARNING: This product can expose you to chemicals including: Antimony oxide & Antimony trioxide, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov |
| REACH Regulation | REACH Declaration |
| REACH free of SVHC | Yes |
| EU RoHS Directive | Compliant EU RoHS Declaration |
| Toxic heavy metal free | Yes |
| Mercury free | 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 |

Contractual warranty

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| Warranty | 18 months |
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