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Main

| | |
|---|---|
| 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 | 60 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 | 60 A 140 °F (60 °C) power circuit |
| Irms rated making capacity | 800 A 440 V power circuit IEC 60947 |
| Rated breaking capacity | 800 A 440 V power circuit IEC 60947 |
| [Icw] rated short-time withstand current | 320 A 104 °F (40 °C) - 10 s power circuit 720 A 104 °F (40 °C) - 1 s power circuit 72 A 104 °F (40 °C) - 10 min power circuit 165 A 104 °F (40 °C) - 1 min power circuit |
| Associated fuse rating | 80 A gG <= 690 V type 1 power circuit 80 A gG <= 690 V type 2 power circuit |
| Average impedance | 1.5 mOhm - Ith 60 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 60 A AC-1 <= 440 V |
| Power dissipation per pole | 5.4 W AC-1 |
| Safety 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 GL UL GOST BV LROS (Lloyds register of shipping) DNV CCC CSA |

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|--------------------------|--|
| Connections - terminals | Control circuit screw clamp terminals 2 0.00...0.01 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 0.00...0.05 in ² (1...35 mm ²)solid without cable end Power circuit screw clamp terminals 2 0.00...0.04 in ² (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 | Drop-out 0.3...0.6 U _c AC 50/60 Hz 140 °F (60 °C)) Operational 0.8...1.1 U _c AC 50 Hz 140 °F (60 °C)) Operational 0.85...1.1 U _c AC 60 Hz 140 °F (60 °C)) |
| 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 |

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 | 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 U _c |
| Operating altitude | 9842.52 ft (3000 m) without |
| Fire resistance | 1562 °F (850 °C) IEC 60695-2-1 |
| Flame retardance | V1 UL 94 |
| 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 |

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|----------------|-----------------------|
| Height | 5.00 in (127 mm) |
| Width | 3.35 in (85 mm) |
| Depth | 4.92 in (125 mm) |
| Product weight | 3.17 lb(US) (1.44 kg) |

Ordering and shipping details

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|---------------------|---------------------------------------|
| Category | 22357 - CTR, TESYS D, OPEN, 40-65A AC |
| Discount Schedule | I12 |
| GTIN | 00785901136989 |
| Package weight(Lbs) | 1.40 kg (3.09 lb(US)) |
| Returnability | No |
| Country of origin | CZ |

Offer Sustainability

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|----------------------------|--|
| Sustainable offer status | Green Premium product |
| REACH Regulation | REACH Declaration |
| 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. |

Contractual warranty

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| Warranty | 18 months |
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