



Main

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|--------------------------------|--------------------------------------|
| Range | TeSys |
| Range of product | TeSys F |
| Product or component type | Contacteur |
| Device short name | LC1F |
| Contacteur application | Resistive load |
| Utilisation category | AC-1 |
| Poles description | 3P |
| [Ue] rated operational voltage | <= 1000 V AC 50/60 Hz <= 460 V DC |
| [Uc] control circuit voltage | 110 V AC 40...400 Hz |
| [Ie] rated operational current | 1700 A (at <40 °C) AC AC-1 |

Complementary

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| [Uimp] rated impulse withstand voltage | 8 kV |
| [Ith] conventional free air thermal current | 1700 A (at 40 °C) |
| Rated breaking capacity | 2550 A conforming to IEC 60947-4-1 |
| [Icw] rated short-time withstand current | 10000 A 40 °C - 10 s 7500 A 40 °C - 30 s 5500 A 40 °C - 1 min 4200 A 40 °C - 3 min 3000 A 40 °C - 10 min |
| Associated fuse rating | 1600 A gG at <= 440 V |
| Average impedance | 0.1 mOhm - Ith 1700 A 50 Hz |
| [Ui] rated insulation voltage | 1000 V conforming to IEC 60947-4-1 1500 V conforming to VDE 0110 group C 1000 V conforming to UL 60947-4-1 |
| Power dissipation per pole | 200 W AC-1 |
| Overvoltage category | III |
| Power pole contact composition | 3 NO |
| Control circuit voltage limits | Operational: 0.85...1.1 Uc 40...400 Hz (at 55 °C) Drop-out: 0.3...0.5 Uc 40...400 Hz (at 55 °C) |
| Inrush power in VA | 2200 VA, 40...400 Hz cos phi 0.9 (at 20 °C) |
| Hold-in power consumption in VA | 36 VA, 40...400 Hz cos phi 0.9 (at 20 °C) |
| Maximum operating rate | 600 cyc/h 55 °C |
| Operating time | 100...170 ms opening 40...75 ms closing |
| Connections - terminals | Control circuit: screw clamp terminals 1 cable(s) 1...4 mm ² flexible without cable end Control circuit: screw clamp terminals 2 cable(s) 1...4 mm ² flexible without cable end Control circuit: screw clamp terminals 1 cable(s) 1...4 mm ² flexible with cable end Control circuit: screw clamp terminals 2 cable(s) 1...2.5 mm ² flexible with cable end Control circuit: screw clamp terminals 1 cable(s) 1...4 mm ² solid without cable end Control circuit: screw clamp terminals 2 cable(s) 1...4 mm ² solid without cable end Power circuit: bar 3 cable(s) - busbar cross section: 100 x 5 mm Power circuit: bolted connection |
| Tightening torque | Control circuit: 1.2 N.m Power circuit: 58 N.m |
| Mounting support | Plate |

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|------------------------|---|
| Heat dissipation | 36 W |
| Standards | EN 60947-1 IEC 60947-4-1 JIS C8201-4-1 EN 60947-4-1 IEC 60947-1 UL 60947-4-1 CSA C22.2 No 60947-4-1 |
| Product certifications | UL[RETURN]CSA[RETURN]CCC[RETURN]CB Scheme[RETURN]EAC[RETURN]UKCA |
| Compatibility code | LC1F |
| Control circuit type | AC at 40...400 Hz |

Environment

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|---|-------------------------|
| Protective treatment | TH |
| Ambient air temperature for operation | -5...40 °C |
| Ambient air temperature for storage | -60...80 °C |
| Permissible ambient air temperature around the device | -40...60 °C |
| Height | 332 mm |
| Width | 438 mm |
| Depth | 238.6 mm |
| Operating altitude | 3000 m without derating |
| Net weight | 30 kg |

Offer Sustainability

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|----------------------------|---|
| Sustainable offer status | Green Premium product |
| REACH Regulation |  REACH Declaration |
| EU RoHS Directive | Compliant with Exemptions |
| 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 |