

Product data sheet

Specifications



TeSys F contactor - 4P (4 NO) - AC-1 - <= 440 V 500 A - coil 230 V AC

LC1F4004P7

Main

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|--------------------------------|---------------------------------------|
| Range | TeSys |
| Range of product | TeSys F |
| Product or component type | Contactor |
| Device short name | LC1F |
| Contactor application | Resistive load |
| Utilisation category | AC-1 |
| Poles description | 4P |
| [Ue] rated operational voltage | <= 1000 V AC 50/60 Hz <= 460 V DC |
| [Uc] control circuit voltage | 230 V AC 40...400 Hz |
| [Ie] rated operational current | 500 A (at <40 °C) at <= 440 V AC AC-1 |

Complementary

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| [Uimp] rated impulse withstand voltage | 8 kV |
| [Ith] conventional free air thermal current | 500 A (at 40 °C) |
| Rated breaking capacity | 3200 A conforming to IEC 60947-4-1 |
| [Icw] rated short-time withstand current | 3600 A 40 °C - 10 s 2400 A 40 °C - 30 s 1700 A 40 °C - 1 min 1200 A 40 °C - 3 min 1000 A 40 °C - 10 min |
| Associated fuse rating | 400 A aM at <= 440 V 500 A gG at <= 440 V |
| Average impedance | 0.26 mOhm - Ith 500 A 50 Hz |
| [Ui] rated insulation voltage | 1000 V conforming to IEC 60947-4-1 1500 V conforming to VDE 0110 group C |
| Power dissipation per pole | 65 W AC-1 |
| Overvoltage category | III |
| Power pole contact composition | 4 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) |

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| Mechanical durability | 10 Mcycles |
| Inrush power in VA | 1075 VA, 40...400 Hz cos phi 0.9 (at 20 °C) |
| Hold-in power consumption in VA | 15 VA, 40...400 Hz cos phi 0.9 (at 20 °C) |
| Maximum operating rate | 2400 cyc/h 55 °C |
| Operating time | 40...65 ms closing 100...170 ms opening |
| 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 2 cable(s) - busbar cross section: 30 x 5 mm Power circuit: lugs-ring terminals 2 cable(s) 150 mm ² Power circuit: bolted connection |
| Tightening torque | Control circuit: 1.2 N.m Power circuit: 35 N.m |
| Mounting support | Plate |
| Heat dissipation | 14 W |
| Standards | EN 60947-4-1 IEC 60947-4-1 JIS C8201-4-1 EN 60947-1 IEC 60947-1 |
| Product certifications | DNV RINA RMRoS CB CCC UL ABS BV LROS (Lloyds register of shipping) UKCA |
| Compatibility code | LC1F |
| Control circuit type | AC at 40...400 Hz |

Environment

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| IP degree of protection | IP20 front face with shrouds conforming to IEC 60529 IP20 front face with shrouds conforming to VDE 0106 |
| Protective treatment | TH |
| Ambient air temperature for operation | -5...55 °C |
| Ambient air temperature for storage | -60...80 °C |
| Permissible ambient air temperature around the device | -40...70 °C |
| Height | 206 mm |
| Width | 261 mm |
| Depth | 219 mm |
| Operating altitude | 3000 m without derating |
| Net weight | 10.2 kg |

Packing Units

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| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 25.000 cm |

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| Package 1 Width | 24.000 cm |
| Package 1 Length | 31.500 cm |
| Package 1 Weight | 10.704 kg |
| Unit Type of Package 2 | P06 |
| Number of Units in Package 2 | 10 |
| Package 2 Height | 75.000 cm |
| Package 2 Width | 60.000 cm |
| Package 2 Length | 80.000 cm |
| Package 2 Weight | 117.310 kg |

Offer Sustainability

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|----------------------------|---|
| Sustainable offer status | Green Premium product |
| REACH Regulation | REACH Declaration |
| EU RoHS Directive | Compliant EU RoHS Declaration |
| Mercury free | Yes |
| China RoHS Regulation | China RoHS declaration Product out of China RoHS scope. Substance declaration for your information |
| RoHS exemption information | Yes |
| 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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