

LC1F4004MD

TeSys F contactor - 4P (4 NO) - AC-1 - \leq 440 V
500 A - coil 220 V DC



Main

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|---|--|
| Range | TeSys |
| Product name | TeSys F |
| Product or component type | Contacteur |
| Device short name | LC1F |
| Contacteur application | Resistive load |
| Utilisation category | AC-1 |
| Poles description | 4P |
| Pole contact composition | 4 NO |
| [Ue] rated operational voltage | \leq 1000 V AC 50/60 Hz \leq 460 V DC |
| [Ie] rated operational current | 500 A (\leq 40 °C) at \leq 440 V AC AC-1 |
| Control circuit type | DC standard |
| Control circuit voltage | 220 V DC |
| [Uimp] rated impulse withstand voltage | 8 kV |
| Overvoltage category | III |
| [Ith] conventional free air thermal current | 500 A at \leq 40 °C |
| Irms rated making capacity | 4000 A AC conforming to IEC 60947-4-1 |
| Rated breaking capacity | 3200 kA conforming to IEC 60947-4-1 |
| [Icw] rated short-time withstand current | 3600 A \leq 40 °C 10 s 2400 A \leq 40 °C 30 s 1700 A \leq 40 °C 1 min 1200 A \leq 40 °C 3 min 1000 A \leq 40 °C 10 min |
| Associated fuse rating | 400 A aM at \leq 440 V 500 A gG at \leq 440 V |
| Average impedance | 0.26 mOhm at 50 Hz - Ith 500 A |
| [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 |
| Mounting support | Plate |
| Standards | EN 60947-1 EN 60947-4-1 IEC 60947-1 IEC 60947-4-1 JEM 1038 |
| Product certifications | BV CCC CSA DNV GL RINA RMRoS UL LROS |
| Connections - terminals | Control circuit : screw clamp terminals 2 cable(s) 1...2.5 mm ² - cable stiffness: flexible - with cable end Control circuit : screw clamp terminals 1 cable(s) 1...4 mm ² - cable stiffness: flexible - without cable end Control circuit : screw clamp terminals 2 cable(s) 1...4 mm ² - cable stiffness: flexible - without cable end |

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Control circuit : screw clamp terminals 1 cable(s)
 1...4 mm² - cable stiffness: flexible - with cable end
 Control circuit : screw clamp terminals 1 cable(s)
 1...4 mm² - cable stiffness: solid - without cable
 end
 Control circuit : screw clamp terminals 2 cable(s)
 1...4 mm² - cable stiffness: solid - without cable
 end
 Power circuit : lugs-ring terminals 2 cable(s) 150
 mm²
 Power circuit : bar 2 x (30 x 5 mm)

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|-----------------------|---|
| Tightening torque | Power circuit : 35 N.m Control circuit : 1.2 N.m |
| Operating time | 45...60 ms opening 50...60 ms closing |
| Mechanical durability | 10 Mcycles |
| Operating rate | 2400 cyc/h at <= 55 °C |

Complementary

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|--------------------------------|---|
| Control circuit voltage limits | 0.85...1.1 Uc at 55 °C operational 0.2...0.35 Uc at 55 °C drop-out |
| Inrush power in W | 1000 W at 20 °C |
| Hold-in power consumption in W | 6 W at 20 °C |
| Heat dissipation | 6 W |

Environment

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|---|---|
| IP degree of protection | IP20 front face with shrouds (ordered separately) conforming to IEC 60529 IP20 front face with shrouds (ordered separately) 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 |
| Operating altitude | 3000 m without derating in temperature |
| Mechanical robustness | Shocks contactor closed 15 Gn for 11 ms Shocks contactor open 6 Gn for 11 ms Vibrations contactor closed 5 Gn, 5...300 Hz Vibrations contactor open 1.5 Gn, 5...300 Hz |
| Height | 206 mm |
| Width | 261 mm |
| Depth | 219 mm |
| Product weight | 10.2 kg |

Offer Sustainability

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|----------------------------------|---|
| Sustainable offer status | Green Premium product |
| RoHS | Compliant - since 0852 - Schneider Electric declaration of conformity |
| REACH | Reference not containing SVHC above the threshold |
| Product environmental profile | Available |
| Product end of life instructions | Available |