

LC1F1154E7

TeSys F contactor - 4P (4 NO) - AC-1 - ≤ 440 V
200 A - coil 48 V AC



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 | ≤ 1000 V AC 50/60 Hz ≤ 460 V DC |
| [Ie] rated operational current | 200 A (≤ 40 °C) at ≤ 440 V AC AC-1 |
| Control circuit type | AC 40...400 Hz |
| Control circuit voltage | 48 V AC 40...400 Hz |
| [Uimp] rated impulse withstand voltage | 8 kV |
| Overvoltage category | III |
| [Ith] conventional free air thermal current | 200 A at ≤ 40 °C |
| Irms rated making capacity | 1150 A AC conforming to IEC 60947-4-1 |
| Rated breaking capacity | 920 kA conforming to IEC 60947-4-1 |
| [Icw] rated short-time withstand current | 1100 A ≤ 40 °C 10 s 640 A ≤ 40 °C 30 s 520 A ≤ 40 °C 1 min 400 A ≤ 40 °C 3 min 320 A ≤ 40 °C 10 min |
| Associated fuse rating | 125 A aM at ≤ 440 V 200 A gG at ≤ 440 V |
| Average impedance | 0.37 mOhm at 50 Hz - Ith 200 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 | 15 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 Power circuit : connector 1 cable(s) 95 mm ² 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 |

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| | end Control circuit : screw clamp terminals 1 cable(s) 1...4 mm ² - cable stiffness: flexible - with cable end Control circuit : screw clamp terminals 1 cable(s) 1...4 mm ² - cable stiffness: solid - without cable end Control circuit : screw clamp terminals 2 cable(s) 1...4 mm ² - cable stiffness: solid - without cable end Power circuit : lugs-ring terminals 1 cable(s) 95 mm ² Power circuit : bar 2 x (20 x 3 mm) |
| Tightening torque | Control circuit : 1.2 N.m Power circuit : 10 N.m |
| Operating time | 23...35 ms closing 5...15 ms opening |
| 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 50/60 Hz 0.35...0.55 Uc at 55 °C drop-out 50/60 Hz |
| Inrush power in VA | 550 VA at 20 °C (cos φ 0.3) 50 Hz 660 VA at 20 °C (cos φ 0.3) 60 Hz |
| Hold-in power consumption in VA | 45 VA at 20 °C (cos φ 0.3) 50 Hz 55 VA at 20 °C (cos φ 0.3) 60 Hz |
| Heat dissipation | 12...16 W |

Environment

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|---|---|
| IP degree of protection | IP2x front face with shrouds (ordered separately) conforming to IEC 60529 IP2x 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 | Vibrations contactor open 2 Gn, 5...300 Hz Shocks contactor closed 15 Gn for 11 ms Vibrations contactor closed 6 Gn, 5...300 Hz Shocks contactor open 9 Gn for 11 ms |
| Height | 162 mm |
| Width | 200.5 mm |
| Depth | 171 mm |
| Product weight | 3.83 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 |