





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 |
| Power pole contact composition | 4 NO |
| [Ue] rated operational voltage | <= 460 V DC <= 1000 V AC 50/60 Hz |
| [Ie] rated operational current | 350 A (<= 40 °C) at <= 440 V AC AC-1 |
| Control circuit type | AC 40...400 Hz |
| Control circuit voltage | 220 V AC 40...400 Hz |
| [Uimp] rated impulse withstand voltage | 8 kV |
| Overtoltage category | III |
| [Ith] conventional free air thermal current | 350 A at <= 40 °C |
| Irms rated making capacity | 2650 A AC conforming to IEC 60947-4-1 |
| Rated breaking capacity | 2120 A conforming to IEC 60947-4-1 |
| [Icw] rated short-time withstand current | 480 A <= 40 °C 10 min 620 A <= 40 °C 3 min 950 A <= 40 °C 1 min 1230 A <= 40 °C 30 s 2200 A <= 40 °C 10 s |
| Associated fuse rating | 400 A gG at <= 440 V 315 A aM at <= 440 V |
| Average impedance | 0.3 mOhm at 50 Hz - Ith 350 A |
| [Ui] rated insulation voltage | 1500 V conforming to VDE 0110 group C 1000 V conforming to IEC 60947-4-1 |
| Power dissipation per pole | 37 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 |

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|-------------------------|--|
| Connections - terminals | Power circuit : connector 1 cable(s) 240 mm ² Power circuit : lugs-ring terminals 1 cable(s) 240 mm ² Power circuit : bar 2 x (32 x 4 mm) Control circuit : screw clamp terminals 2 cable(s) 1...4 mm ² - cable stiffness: solid - without 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...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 - with cable end Control circuit : screw clamp terminals 2 cable(s) 1...4 mm ² - cable stiffness: flexible - without cable end Control circuit : screw clamp terminals 1 cable(s) 1...4 mm ² - cable stiffness: flexible - without cable end |
| Tightening torque | Power circuit : 35 N.m Control circuit : 1.2 N.m |
| Operating time | 100...170 ms opening 40...65 ms closing |
| Mechanical durability | 10 Mcycles |
| Operating rate | 2400 cyc/h at <= 55 °C |

Complementary

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|---------------------------------|---|
| Control circuit voltage limits | 0.15...0.2 Uc at 55 °C drop-out 40...400 Hz 0.85...1.1 Uc at 55 °C operational 40...400 Hz |
| Inrush power in VA | 650 VA at 20 °C (cos φ 0.9) 40...400 Hz |
| Hold-in power consumption in VA | 10 VA at 20 °C (cos φ 0.9) 40...400 Hz |
| Heat dissipation | 8 W |

Environment

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|---|---|
| IP degree of protection | IP20 front face with shrouds (ordered separately) conforming to VDE 0106 IP20 front face with shrouds (ordered separately) conforming to IEC 60529 |
| 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 closed 5 Gn, 5...300 Hz Shocks contactor open 6 Gn for 11 ms Shocks contactor closed 15 Gn for 11 ms Vibrations contactor open 2 Gn, 5...300 Hz |
| Height | 203 mm |
| Width | 244.5 mm |
| Depth | 213 mm |
| Product weight | 8.54 kg |

Offer Sustainability

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|----------------------------------|---|
| Sustainable offer status | Green Premium product |
| RoHS (date code: YYWW) | Compliant - since 0852 - Schneider Electric declaration of conformity |
| REACH | Reference not containing SVHC above the threshold |
| Product environmental profile | Available Download Product Environmental |
| Product end of life instructions | Available Download End Of Life Manual |