

Product datasheet

Specifications



TeSys F contactor - 4P (4 NO) - AC-1 - ≤ 440 V 250 A - coil 110 V AC

LC1F1504F7

⚠ Discontinued on: Jan 23, 2021

⚠ Discontinued

Main

| | |
|--------------------------------|---|
| 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 | ≤ 690 V AC 50/60 Hz ≤ 460 V DC |
| [Uc] control circuit voltage | 110 V AC 40...400 Hz |
| [Ie] rated operational current | 250 A (at <40 °C) at ≤ 440 V AC-1 |

Complementary

| | |
|---|---|
| [Uimp] rated impulse withstand voltage | 8 kV |
| [Ith] conventional free air thermal current | 250 A (at 40 °C) |
| Rated breaking capacity | 1200 A conforming to IEC 60947-4-1 |
| [Icw] rated short-time withstand current | 1200 A 40 °C - 10 s 700 A 40 °C - 30 s 600 A 40 °C - 1 min 450 A 40 °C - 3 min 350 A 40 °C - 10 min |
| Associated fuse rating | 160 A aM at ≤ 440 V 250 A gG at ≤ 440 V |
| Average impedance | 0.35 mOhm - Ith 250 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 | 22 W AC-1 |
| Overvoltage category | III |
| power pole contact composition | 4 NO |
| Control circuit voltage limits | Operational: 0.85...1.1 U _c 40...400 Hz (at 55 °C) Drop-out: 0.2...0.55 U _c 40...400 Hz (at 55 °C) |
| Mechanical durability | 10 Mcycles |
| Inrush power in VA | 770 VA, 40...400 Hz cos phi 0.9 (at 20 °C) |
| Hold-in power consumption in VA | 8.1 VA, 40...400 Hz cos phi 0.9 (at 20 °C) |

| | |
|--------------------------------|---|
| Maximum operating rate | 2400 cyc/h 55 °C |
| Operating time | 35 ms closing (at Uc) 130 ms opening (at Uc) |
| 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: 25 x 3 mm Power circuit: lugs-ring terminals 1 cable(s) 120 mm ² Power circuit: connector 1 cable(s) 120 mm ² Power circuit: bolted connection |
| Tightening torque | Control circuit: 1.2 N.m Power circuit: 18 N.m |
| Mounting support | Plate |
| Heat dissipation | 5.9...7.2 W |
| Standards | IEC 60947-4-1 JIS C8201-4-1 EN 60947-1 IEC 60947-1 EN 60947-4-1 |
| Product certifications | RINA CCC CB LROS (Lloyds register of shipping) DNV UL RMRoS BV ABS |
| Compatibility code | LC1F |
| Control circuit type | AC at 40...400 Hz |

Environment

| | |
|--|---|
| IP degree of protection | IP2X front face with shrouds conforming to IEC 60529 IP2X front face with shrouds conforming to VDE 0106 |
| Protective treatment | TH |
| Ambient air temperature for operation | -40...60 °C |
| Ambient air temperature for storage | -60...80 °C |
| Permissible ambient air temperature around the device | 60...70 °C at Uc |
| Height | 170 mm |
| Width | 200.5 mm |
| Depth | 171 mm |
| Operating altitude | 3000 m without derating |
| Product weight | 3.83 kg |

Packing Units

| | |
|-------------------------------------|-------|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 21 cm |
| Package 1 Width | 20 cm |
| Package 1 Length | 26 cm |

Package 1 Weight 4.9 kg

Contractual warranty

Warranty (in months) 18



Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

Use Better



Materials and Substances

EU RoHS Directive

[Compliant](#)

Use Longer



Lifetime extension

Repair

No

Use Again



Repack and remanufacture

End of life manual availability

[End of Life Information](#)

WEEE Label



The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins