

Product data sheet

Specifications



TeSys F contactor - 3P (3 NO) - AC-3 - <= 440 V 115 A - coil 110 V AC

LC1F115F7

 To be discontinued on: Dec 31, 2024

 To be discontinued

Main

| | |
|--------------------------------|--|
| Range | TeSys |
| Range Of Product | TeSys F |
| Product Or Component Type | Contactor |
| Device Short Name | LC1F |
| Contactor Application | Motor control Resistive load |
| Utilisation Category | AC-4 AC-1 AC-3 |
| Poles Description | 3P |
| [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 | 200 A (at <40 °C) at <= 440 V AC-1 115 A (at <55 °C) at <= 440 V AC-3 |

Complementary

| | |
|---|---|
| [Uimp] Rated Impulse Withstand Voltage | 8 kV |
| [Ith] Conventional Free Air Thermal Current | 200 A (at 40 °C) |
| Rated Breaking Capacity | 920 A 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 - Ith 200 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 | 15 W AC-1 5 W AC-3 |
| Overvoltage Category | III |
| Power Pole Contact Composition | 3 NO |

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

| | |
|---------------------------------|---|
| Motor Power Kw | 55 kW at 380...400 V AC 50/60 Hz (AC-3) 59 kW at 415 V AC 50/60 Hz (AC-3) 59 kW at 440 V AC 50/60 Hz (AC-3) 75 kW at 500 V AC 50/60 Hz (AC-3) 80 kW at 660...690 V AC 50/60 Hz (AC-3) 30 kW at 220...230 V AC 50/60 Hz (AC-3) 18.5 kW at 400 V AC 50/60 Hz (AC-4) |
| Control Circuit Voltage Limits | Operational: 0.85...1.1 Uc 40...400 Hz (at 55 °C) Drop-out: 0.2...0.55 Uc 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 | Power circuit: bar 2 cable(s) - busbar cross section: 20 x 3 mm Power circuit: lugs-ring terminals 1 cable(s) 95 mm² Power circuit: connector 1 cable(s) 95 mm² Control circuit: screw clamp terminals 1 cable(s) 1...4 mm²flexible without cable end Control circuit: screw clamp terminals 2 cable(s) 1...4 mm²flexible without cable end Control circuit: screw clamp terminals 1 cable(s) 1...4 mm²flexible with cable end Control circuit: screw clamp terminals 2 cable(s) 1...2.5 mm²flexible with cable end Control circuit: screw clamp terminals 1 cable(s) 1...4 mm²solid without cable end Control circuit: screw clamp terminals 2 cable(s) 1...4 mm²solid without cable end Power circuit: bolted connection |
| Tightening Torque | Power circuit: 10 N.m Control circuit: 1.2 N.m |
| Mounting Support | Plate |
| Heat Dissipation | 5.9...7.2 W |
| Standards | EN 60947-4-1 IEC 60947-1 IEC 60947-4-1 EN 60947-1 JIS C8201-4-1 |
| Product Certifications | CCC CB RMRoS LROS (Lloyds register of shipping) DNV ABS RINA UL BV UKCA |
| Compatibility Code | LC1F |
| Control Circuit Type | AC at 40...400 Hz |

Environment

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|---|---|
| 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 | 162 mm |
| Width | 163.3 mm |

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|--------------------|-------------------------|
| Depth | 171 mm |
| Operating Altitude | 3000 m without derating |
| Net Weight | 3.43 kg |

Packing Units

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|------------------------------|----------|
| Unit Type Of Package 1 | PCE |
| Number Of Units In Package 1 | 1 |
| Package 1 Height | 19.2 cm |
| Package 1 Width | 22.1 cm |
| Package 1 Length | 18.2 cm |
| Package 1 Weight | 3.997 kg |
| Unit Type Of Package 2 | P06 |
| Number Of Units In Package 2 | 18 |
| Package 2 Height | 77.0 cm |
| Package 2 Width | 80.0 cm |
| Package 2 Length | 60.0 cm |
| Package 2 Weight | 80.5 kg |

Contractual warranty

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|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

Sustainability

Green Premium™ label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

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[Guide to assess a product's sustainability >](#)



Transparency RoHS/REACH

Well-being performance

✓ Mercury Free

✓ Rohs Exemption Information [Yes](#)

Certifications & Standards

| | |
|---------------------------|---|
| Reach Regulation | REACH Declaration |
| Eu Rohs Directive | Compliant with Exemptions |
| China Rohs Regulation | China RoHS declaration Product out of China RoHS scope. Substance declaration for your information |
| Environmental Disclosure | Product Environmental Profile |
| Weee | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |
| Circularity Profile | End of Life Information |
| California Proposition 65 | WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov |