## **Product datasheet**

Specifications





(!) Discontinued

# TeSys F contactor - 4P (4 NO) - AC-1 - <= 440 V 700 A - coil 220 V AC

LC1F5004M7

! Discontinued on: 18 Jan 2023

! End-of-service on: 31 Dec 2023

#### 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 | <= 1000 V AC 50/60 Hz<br><= 460 V DC  |
| [Uc] Control Circuit Voltage   | 220 V AC 40400 Hz                     |
| [le] Rated Operational Current | 700 A (at <40 °C) at <= 440 V AC AC-1 |

#### Complementary

| [Uimp] Rated Impulse Withstand Voltage         | 8 kV  |
|--|---|
| [Ith] Conventional Free Air<br>Thermal Current | 700 A (at 40 °C)  |
| Rated Breaking Capacity                        | 4000 A conforming to IEC 60947-4-1  |
| [Icw] Rated Short-Time Withstand Current       | 4200 A 40 °C - 10 s<br>3200 A 40 °C - 30 s<br>2400 A 40 °C - 1 min<br>1500 A 40 °C - 3 min<br>1200 A 40 °C - 10 min |
| Associated Fuse Rating                         | 500 A aM at <= 440 V<br>800 A gG at <= 440 V  |
| Average Impedance                              | 0.18 mOhm - Ith 700 A 50 Hz   |
| [Ui] Rated Insulation Voltage                  | 1000 V conforming to IEC 60947-4-1<br>1500 V conforming to VDE 0110 group C   |
| Power Dissipation Per Pole                     | 88 W AC-1   |
| Overvoltage Category                           | III   |
| Power Pole Contact Composition                 | 4 NO  |
| Control Circuit Voltage Limits                 | Operational: 0.851.1 Uc 40400 Hz (at 55 °C)<br>Drop-out: 0.30.5 Uc 40400 Hz (at 55 °C)                              |
| Mechanical Durability                          | 10 Mcycles  |
| Inrush Power In Va                             | 1100 VA, 40400 Hz cos phi 0.9 (at 20 °C)  |

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

| Hold-In Power Consumption In Va | 18 VA, 40400 Hz cos phi 0.9 (at 20 °C)   |
|---------------------------------|--|
| Maximum Operating Rate          | 2400 cyc/h 55 °C   |
| Operating Time                  | 4065 ms closing<br>100170 ms opening   |
| Connections - Terminals         | Control circuit: screw clamp terminals 1 cable(s) 14 mm²flexible without cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm²flexible without cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm²flexible with cable end Control circuit: screw clamp terminals 2 cable(s) 12.5 mm²flexible with cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm²solid without cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm²solid without cable end Power circuit: bar 2 cable(s) - busbar cross section: 40 x 5 mm Power circuit: lugs-ring terminals 2 cable(s) 240 mm² Power circuit: bolted connection |
| Tightening Torque               | Control circuit: 1.2 N.m<br>Power circuit: 35 N.m  |
| Mounting Support                | Plate  |
| Heat Dissipation                | 18 W   |
| Standards                       | EN 60947-4-1<br>EN 60947-1<br>IEC 60947-1<br>JIS C8201-4-1<br>IEC 60947-4-1  |
| Product Certifications          | UL RINA ABS LROS (Lloyds register of shipping) BV CCC CB DNV RMRoS UKCA  |
| Compatibility Code              | LC1F   |
| Compatibility Code              |  |

| Ip Degree Of Protection                                  | IP20 front face with shrouds conforming to IEC 60529 IP20 front face with shrouds conforming to VDE 0106 |
|--|--|
| Protective Treatment                                     | тн   |
| Ambient Air Temperature For Operation                    | -555 °C  |
| Ambient Air Temperature For Storage                      | -6080 °C   |
| Permissible Ambient Air<br>Temperature Around The Device | -4070 °C   |
| Height   | 238 mm   |
| Width  | 288 mm   |
| Depth  | 232 mm   |
| Operating Altitude                                       | 3000 m without derating  |
| Net Weight   | 12.95 kg   |

## **Packing Units**

| Unit Type Of Package 1       | PCE     |
|------------------------------|---------|
| Number Of Units In Package 1 | 1       |
| Package 1 Height             | 27.0 cm |
| Package 1 Width              | 30.0 cm |

| Package 1 Length             | 33.0 cm   |
|------------------------------|-----------|
| Package 1 Weight             | 14.09 kg  |
| Unit Type Of Package 2       | P06       |
| Number Of Units In Package 2 | 8         |
| Package 2 Height             | 77.0 cm   |
| Package 2 Width              | 80.0 cm   |
| Package 2 Length             | 60.0 cm   |
| Package 2 Weight             | 120.82 kg |

## **Contractual warranty**

Warranty 18 months

### Sustainability Screen Premium

**Green Premium**<sup>TM</sup> **label** is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> products.

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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   |

19 Apr 2024