

# Product data sheet

Specifications



## TeSys F contactor - 3P (3 NO) - AC-3 - <= 440 V 1000 A - coil 110 V DC

LC1F1000FD

⚠ Discontinued on: Dec 15, 2020

⚠ Discontinued

### Main

|                                |  |
|--------------------------------|--|
| Range                          | TeSys  |
| Range Of Product               | TeSys F  |
| Product Or Component Type      | Contactator  |
| Device Short Name              | LC1F   |
| Contactator Application        | Resistive load<br>Motor control  |
| Utilisation Category           | AC-1<br>AC-3   |
| Poles Description              | 3P   |
| [Ue] Rated Operational Voltage | <= 440 V AC 50/60 Hz   |
| [Uc] Control Circuit Voltage   | 110 V DC   |
| [Ie] Rated Operational Current | 1250 A (at <40 °C) at <= 440 V AC AC-1<br>1000 A (at <55 °C) at <= 440 V AC AC-3 |

### Complementary

|   |  |
|---|--|
| [Uimp] Rated Impulse Withstand Voltage      | 8 kV   |
| [Ith] Conventional Free Air Thermal Current | 1250 A (at 40 °C)  |
| Rated Breaking Capacity                     | 8 kA conforming to IEC 60947-4-1   |
| [Icw] Rated Short-Time Withstand Current    | 10000 A 40 °C - 10 s<br>7500 A 40 °C - 30 s<br>5500 A 40 °C - 1 min<br>4200 A 40 °C - 3 min<br>3000 A 40 °C - 10 min |
| Associated Fuse Rating                      | 2000 A gG at <= 440 V  |
| Average Impedance                           | 0.1 mOhm - Ith 1250 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                  | 200 W AC-1   |
| Overvoltage Category                        | III  |
| Power Pole Contact Composition              | 3 NO   |
| Maximum Operating Rate                      | 600 cyc/h 55 °C  |
| Operating Time                              | 40...80 ms closing<br>100...200 ms opening   |

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

|                         |  |
|-------------------------|--|
| Connections - Terminals | Control circuit: screw clamp terminals 1 cable(s) 1...4 mm²flexible without cable end<br>Control circuit: screw clamp terminals 2 cable(s) 1...4 mm²flexible without cable end<br>Control circuit: screw clamp terminals 1 cable(s) 1...4 mm²flexible with cable end<br>Control circuit: screw clamp terminals 2 cable(s) 1...2.5 mm²flexible with cable end<br>Control circuit: screw clamp terminals 1 cable(s) 1...4 mm²solid without cable end<br>Control circuit: screw clamp terminals 2 cable(s) 1...4 mm²solid without cable end<br>Power circuit: bar 3 cable(s)<br>Power circuit: bar 4 cable(s) |
| Mounting Support        | Plate  |
| Motor Power Range       | 315 kW at 220...230 V 3 phases<br>560 kW at 380...400 V 3 phases<br>630 kW at 415 V 3 phases<br>670 kW at 440 V 3 phases   |
| Motor Starter Type      | Direct on-line contactor   |
| Contactor Coil Voltage  | 110 V DC standard  |
| Standards               | EN 60947-4-1<br>IEC 60947-1<br>EN 60947-1<br>IEC 60947-4-1   |
| Product Certifications  | CCC<br>CSA<br>CB   |
| Compatibility Code      | LC1F   |
| Control Circuit Type    | DC standard  |

## Environment

|   |   |
|---|---|
| Ip Degree Of Protection                               | IP20 front face with shrouds conforming to IEC 60529<br>IP20 front face with shrouds conforming to VDE 0106 |
| Protective Treatment                                  | TH  |
| Ambient Air Temperature For Operation                 | -5...40 °C  |
| Ambient Air Temperature For Storage                   | -60...80 °C   |
| Permissible Ambient Air Temperature Around The Device | -40...60 °C   |
| Height  | 332 mm  |
| Width   | 438 mm  |
| Depth   | 238.6 mm  |
| Operating Altitude                                    | 3000 m without derating   |
| Net Weight  | 31 kg   |

## Packing Units

|                              |         |
|------------------------------|---------|
| Unit Type Of Package 1       | PCE     |
| Number Of Units In Package 1 | 1       |
| Package 1 Height             | 36.1 cm |
| Package 1 Width              | 48.3 cm |
| Package 1 Length             | 60.3 cm |
| Package 1 Weight             | 23 kg   |

# 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-CO<sub>2</sub> products.

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

[Learn more about Green Premium >](#)

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

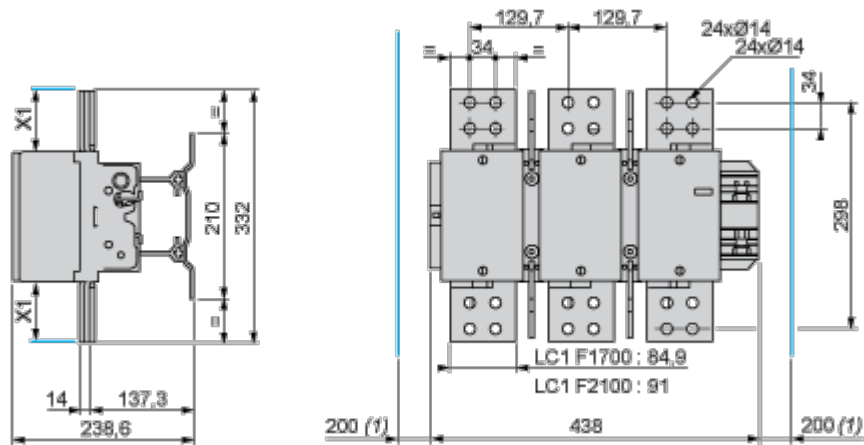
## Well-being performance

|   |   |   |
|---|---|---|
|  | Mercury Free  |   |
|  | Rohs Exemption Information  | <a href="#">Yes</a>   |
| Eu Rohs Directive   | Compliant   | <a href="#">EU RoHS Declaration</a>   |
| China Rohs Regulation   | <a href="#">China RoHS declaration</a>  | Product out of China RoHS scope. Substance declaration for your information |
| Weee  | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |   |

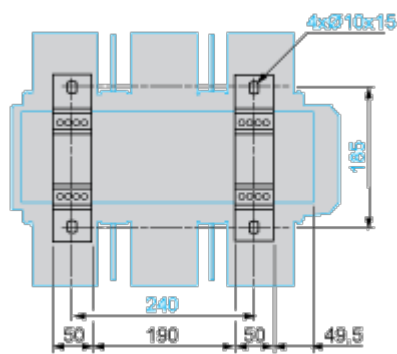
Dimensions Drawings

Dimensions and Drawings

LC1 F1000



(1) Minimum distance required for coil removal.



**NOTE:** X1 (mm) = Minimum electrical clearance according to operating voltage and breaking capacity.

| Voltage | 200...500 V | 690...1000 V |
|---------|-------------|--------------|
| X1 (mm) | 90          | 100          |

Motor Starter BOM  
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