# Product data sheet

Specifications

## contactor body withou coil, TeSys F, 3P(3NO), AC-1 <=440V 1260A with coil LX1/ LX9, 110…600V AC 40/400Hz, LX4, 48…250V DC

LC1F1250

**Product availability: Non-Stock - Not normally stocked in distribution facility**

**Price*: 8,127.00 USD**

## Main

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|---|---|
| **Range** | TeSys |
| **Product Name** | TeSys F |
| **Product Or Component Type** | Contactor |
| **Device Short Name** | LC1F |
| **Contactor Application** | Resistive load |
| **Utilisation Category** | AC-1 |
| **Poles Description** | 3P |
| **Power Pole Contact Composition** | 3 NO |
| **[Ue] Rated Operational Voltage** | <= 690 V AC 50/60 Hz |
| **[Ie] Rated Operational Current** | 1260 A 104 °F (40 °C)) <= 440 V AC-1 |

## Complementary

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|---|---|
| **[Uc] Control Circuit Voltage** | 110...600 V AC 40...400 Hz with LX1/LX9 coil<br>28...250 V DC with LX4 coil |
| **[Uimp] Rated Impulse Withstand Voltage** | 8 kV |
| **Overvoltage Category** | III |
| **[Ith] Conventional Free Air Thermal Current** | 1260 A (at 104 °F (40 °C)) |
| **Irms Rated Making Capacity** | 1890 A conforming to IEC 60947-4-1 |
| **Rated Breaking Capacity** | 1890 A conforming to IEC 60947-4-1 |
| **[Icw] Rated Short-Time Withstand Current** | 3000 A 104 °F (40 °C) - 3 min<br>5200 A 104 °F (40 °C) - 30 s<br>4000 A 104 °F (40 °C) - 1 min<br>2000 A 104 °F (40 °C) - 10 min<br>8000 A 104 °F (40 °C) - 10 s |
| **Associated Fuse Rating** | 1400 A gG at <= 440 V for power circuit |
| **Average Impedance** | 0.12 mOhm - Ith 1260 A 50 Hz |
| **[Ui] Rated Insulation Voltage** | 1000 V IEC 60947-4-1<br>1500 V VDE 0110 group C |
| **Power Dissipation Per Pole** | 120 W AC-1 |
| **Control Circuit Voltage Limits** | Operational: 0.85...1.1 Uc AC 40...400 Hz with LX1/LX9 coil<br>Drop-out: 0.25...0.5 Uc AC 40...400 Hz with LX1/LX9 coil<br>Operational: 0.85...1.1 Uc DC with LX4 coil<br>Drop-out: 0.2...0.35 Uc DC with LX4 coil |

Price is “List Price” and may be subject to a trade discount – check with your local distributor or retailer for actual price.

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

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|---|---|
| **Heat Dissipation** | 20 W |
| **Operating Time** | 40...80 ms closing with LX1/LX9 coil<br>100...200 ms opening with LX1/LX9 coil<br>60...70 ms closing with LX4 coil<br>40...50 ms opening with LX4 coil |
| **Mounting Support** | Plate |
| **Standards** | IEC 60947-1<br>EN 60947-1<br>JIS C8201-4-1<br>EN 60947-4-1<br>IEC 60947-4-1 |
| **Product Certifications** | CB<br>UL<br>CSA<br>CQC<br>CE<br>UKCA<br>CCC |
| **Connections - Terminals** | Power circuit bar 2<br>Power circuit bolted connection<br>Control circuit screw clamp terminals 1 0.00…0.01 in² (1…4 mm²)flexible without cable end<br>Control circuit screw clamp terminals 2 0.00…0.01 in² (1…4 mm²)flexible with cable end<br>Control circuit screw clamp terminals 1 0.00…0.01 in² (1…4 mm²)flexible with cable end<br>Control circuit screw clamp terminals 2 0.00…0.00 in² (1…2.5 mm²)solid without cable end<br>Control circuit screw clamp terminals 1 0.00…0.01 in² (1…4 mm²)<br>Control circuit screw clamp terminals 2 0.00…0.01 in² (1…4 mm²) |
| **Tightening Torque** | Power circuit 513.34 lbf.in (58 N.m)<br>Control circuit 10.62 lbf.in (1.2 N.m) |
| **Mechanical Durability** | 1 Mcycles |
| **Inrush Power In Va** | 1500…1730 VA, 40...400 Hz cos phi 0.9 (at 68 °F (20 °C))with LX1/LX9 coil<br>1420…1920 VA (at 68 °F (20 °C))with LX4 coil |
| **Hold-In Power Consumption In Va** | 20…25 VA, 40...400 Hz cos phi 0.9 (at 68 °F (20 °C))with LX1/LX9 coil<br>6.5…12.5 VA (at 68 °F (20 °C))with LX4 coil |
| **Maximum Operating Rate** | 1200 cyc/h 131 °F (55 °C) |

## Environment

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|---|---|
| **Protective Treatment** | TH |
| **Ambient Air Temperature For Operation** | 23…104 °F (-5…40 °C) |
| **Ambient Air Temperature For Storage** | -76…176 °F (-60…80 °C) |
| **Permissible Ambient Air Temperature Around The Device** | -40…140 °F (-40…60 °C) |
| **Operating Altitude** | 9842.52 ft (3000 m) without derating |
| **Mechanical Robustness** | Vibrations contactor open2 Gn, 5...300 Hz<br>Vibrations contactor closed4 Gn, 5...300 Hz<br>Shocks contactor open6 Gn for 1/2 sine wave (11 ms)<br>Shocks contactor closed15 Gn for 1/2 sine wave (11 ms) |
| **Height** | 13.31 in (338 mm) |
| **Width** | 12.17 in (309 mm) |
| **Depth** | 10.04 in (255 mm) |
| **Net Weight** | 41.89 lb(US) (19 kg) |

## Ordering and shipping details

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|---|---|
| **Category** | US10I1222336 |
| **Discount Schedule** | 0I12 |
| **Gtin** | 3606485242538 |
| **Returnability** | No |
| **Country Of Origin** | CZ |

## Packing Units

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|---|---|
| **Unit Type Of Package 1** | PCE |
| **Number Of Units In Package 1** | 1 |
| **Package 1 Height** | 12.99 in (33.0 cm) |
| **Package 1 Width** | 14.57 in (37.0 cm) |
| **Package 1 Length** | 17.32 in (44.0 cm) |
| **Package 1 Weight** | 44.31 lb(US) (20.1 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-$CO_2$ 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 >

Transparency RoHS/REACh

## Well-being performance

Mercury Free

Rohs Exemption Information Yes

## Certifications & Standards

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|---|---|
| **Reach Regulation** | REACh Declaration |
| **Eu Rohs Directive** | Compliant with Exemptions |
| **China Rohs Regulation** | China RoHS declaration<br>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 |