# Product data sheet

Specifications

## Contactor body, TeSys F, 3P(3NO), AC-1, <=1000V AC 2100A without coil

LC1F2100

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

## Main

| | |
|---|---|
| **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** | <= 1000 V AC 50/60 Hz<br><= 460 V DC |
| **[Ie] rated operational current** | 2100 A 104 °F (40 °C)) <= 440 V AC AC-1 |

## Complementary

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|---|---|
| **[Uc] control circuit voltage** | 110...500 V AC 40...400 Hz with LX1/LX9 coil<br>110...440 V DC with LX4 coil |
| **[Uimp] rated impulse withstand voltage** | 8 kV |
| **Overvoltage category** | III |
| **[Ith] conventional free air thermal current** | 2100 A (at 104 °F (40 °C)) |
| **Irms rated making capacity** | 3150 A AC conforming to IEC 60947-4-1 |
| **Rated breaking capacity** | 3150 A for power circuit conforming to IEC 60947-4-1 |
| **[Icw] rated short-time withstand current** | 10000 A 104 °F (40 °C) - 10 s for power circuit<br>7500 A 104 °F (40 °C) - 30 s<br>5500 A 104 °F (40 °C) - 1 min<br>4200 A 104 °F (40 °C) - 3 min<br>3000 A 104 °F (40 °C) - 10 min |
| **Associated fuse rating** | 2000 A gG at <= 440 V for power circuit conforming to IEC 60947-4-1 |
| **Average impedance** | 0.1 mOhm - Ith 2100 A 50 Hz |
| **[Ui] rated insulation voltage** | 1000 V IEC 60947-4-1<br>1500 V VDE 0110 group C<br>1000 V UL 60947-4-1 |
| **Power dissipation per pole** | 200 W AC-1 |
| **Control circuit voltage limits** | Operational: 0.85...1.1 Uc AC 40...400 Hz with LX1/LX9 coil<br>Drop-out: 0.3...0.55 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 |
| **Heat dissipation** | 18 W |

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

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|---|---|
| **Operating time** | 40...75 ms closing with LX1/LX9 coil<br>100...170 ms opening with LX1/LX9 coil<br>50...60 ms closing with LX4 coil<br>45...60 ms opening with LX4 coil |
| **Mounting Support** | Plate |
| **Standards** | JIS C8201-4-1<br>EN 60947-1<br>EN 60947-4-1<br>IEC 60947-4-1<br>IEC 60947-1<br>UL 60947-4-1<br>CSA C22.2 No 60947-4-1 |
| **Product Certifications** | CCC<br>UL<br>CB Scheme<br>CSA<br>EAC<br>UKCA |
| **Connections - terminals** | Power circuit bar 4<br>Power circuit bolted connection<br>Control circuit screw clamp terminals 1 0.002…0.006 in² (1…4 mm²)flexible without cable end<br>Control circuit screw clamp terminals 2 0.002…0.006 in² (1…4 mm²)flexible with cable end<br>Control circuit screw clamp terminals 1 0.002…0.006 in² (1…4 mm²)flexible with cable end<br>Control circuit screw clamp terminals 2 0.002…0.004 in² (1…2.5 mm²)solid without cable end<br>Control circuit screw clamp terminals 1 0.002…0.006 in² (1…4 mm²)<br>Control circuit screw clamp terminals 2 0.002…0.006 in² (1…4 mm²) |
| **Tightening torque** | Power circuit 513.3 lbf.in (58 N.m)<br>Control circuit 10.6 lbf.in (1.2 N.m) |
| **Mechanical durability** | 0.5 Mcycles |
| **Inrush power in VA** | 1600…2400 VA, 40...400 Hz cos phi 0.9 (at 68 °F (20 °C))with LX1/LX9 coil<br>2000…2200 VA (at 68 °F (20 °C))with LX4 coil |
| **Hold-in power consumption in VA** | 29…37 VA, 40...400 Hz cos phi 0.9 (at 68 °F (20 °C))with LX1/LX9 coil<br>8…10 VA (at 68 °F (20 °C))with LX4 coil |
| **Maximum operating rate** | 600 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** | 13.07 in (332 mm) |
| **Width** | 17.2 in (438 mm) |
| **Depth** | 9.4 in (238.6 mm) |
| **Net Weight** | 68.3 lb(US) (31 kg) |

## Ordering and shipping details

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|---|---|
| **Category** | US10I1222336 |

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|---|---|
| **Discount Schedule** | 0I12 |
| **GTIN** | 3389118372658 |
| **Returnability** | No |
| **Country of origin** | CN |

## Packing Units

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|---|---|
| **Unit Type of Package 1** | PCE |
| **Nbr. of units in pkg.** | 1 |
| **Package 1 Height** | 15.0 in (38.0 cm) |
| **Package 1 Width** | 19.7 in (50.0 cm) |
| **Package 1 Length** | 23.6 in (60.0 cm) |
| **Package weight(Lbs)** | 68.3 lb(US) (31.0 kg) |

## Contractual warranty

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

## 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 >

### Environmental footprint

| | |
|---|---|
| Carbon footprint (kg CO2 eq, Total Life cycle) | **28332** |

## Use Better

### Materials and Substances

| | |
|---|---|
| Packaging made with recycled cardboard | **Yes** |
| Packaging without single use plastic | **Yes** |
| EU RoHS Directive | **Compliant with Exemptions** |
| REACh Regulation | **REACh Declaration** |
| 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** |

## Use Again

### Repack and remanufacture

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|---|---|
| Circularity Profile | **End of Life Information** |
| Take-back | **No** |
| WEEE Label | **The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.** |