# Product data sheet

Specifications

## TeSys F contactor - 4P (4 NO) - AC-1 - <= 440 V 350 A - coil 240 V AC

LC1F2654U7

Discontinued on: Sep 13, 2024

Discontinued

## 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-1<br><= 690 V AC-3<br><= 690 V AC-4<br><= 460 V DC |
| **[Uc] control circuit voltage** | 240 V AC 40...400 Hz |
| **[Ie] rated operational current** | 350 A (at <104 °F (40 °C)) at <= 440 V AC AC-1 |

## Complementary

| | |
|---|---|
| **[Uimp] rated impulse withstand voltage** | 8 kV |
| **[Ith] conventional free air thermal current** | 350 A (at 104 °F (40 °C)) |
| **Rated breaking capacity** | 2120 A conforming to IEC 60947-4-1 |
| **[Icw] rated short-time withstand current** | 2200 A 104 °F (40 °C) - 10 s<br>1230 A 104 °F (40 °C) - 30 s<br>950 A 104 °F (40 °C) - 1 min<br>620 A 104 °F (40 °C) - 3 min<br>480 A 104 °F (40 °C) - 10 min |
| **Associated fuse rating** | 315 A aM at <= 440 V<br>400 A gG at <= 440 V |
| **Average impedance** | 0.3 mOhm - Ith 350 A 50 Hz |
| **[Ui] rated insulation voltage** | 1000 V IEC 60947-4-1<br>1500 V VDE 0110 group C |
| **Power dissipation per pole** | 37 W AC-1 |
| **Overvoltage category** | III |
| **power pole contact composition** | 4 NO |
| **Control circuit voltage limits** | Operational 0.85...1.1 Uc 40...400 Hz 131 °F (55 °C))<br>Drop-out 0.15...0.2 Uc 40...400 Hz 131 °F (55 °C)) |
| **Mechanical durability** | 10 Mcycles |
| **Inrush power in VA** | 650 VA, 40...400 Hz 0.9 68 °F (20 °C)) |

| | |
|---|---|
| **Hold-in power consumption in VA** | 10 VA, 40...400 Hz 0.9 68 °F (20 °C)) |
| **Maximum operating rate** | 2400 cyc/h 131 °F (55 °C) |
| **Operating time** | 40...65 ms closing<br>100...170 ms opening |
| **Connections - terminals** | 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 without 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)flexible with cable end<br>Control circuit screw clamp terminals 1 0.002…0.006 in² (1…4 mm²)solid without cable end<br>Control circuit screw clamp terminals 2 0.002…0.006 in² (1…4 mm²)solid without cable end<br>Power circuit bar 2 32 x 4 mm<br>Power circuit lugs-ring terminals 1 0.4 in² (240 mm²)<br>Power circuit connector 1 0.4 in² (240 mm²)<br>Power circuit bolted connection |
| **Tightening torque** | Control circuit 10.6 lbf.in (1.2 N.m)<br>Power circuit 309.8 lbf.in (35 N.m) |
| **Mounting support** | Plate |
| **Heat dissipation** | 8 W |
| **Standards** | JIS C8201-4-1<br>EN 60947-1<br>IEC 60947-1<br>IEC 60947-4-1<br>EN 60947-4-1 |
| **Product certifications** | CB<br>LROS (Lloyds register of shipping)<br>DNV<br>ABS<br>RMRoS<br>BV<br>RINA<br>CCC<br>UL<br>UKCA |
| **Compatibility code** | LC1F |
| **Control circuit type** | AC 40...400 Hz |

## Environment

| | |
|---|---|
| **IP degree of protection** | IP20 front face with shrouds IEC 60529<br>IP20 front face with shrouds VDE 0106 |
| **Protective treatment** | TH |
| **Ambient air temperature for operation** | 23…131 °F (-5…55 °C) |
| **Ambient air temperature for storage** | -76…176 °F (-60…80 °C) |
| **Permissible ambient air temperature around the device** | -40…158 °F (-40…70 °C) |
| **Height** | 8.0 in (203 mm) |
| **Width** | 9.6 in (244.5 mm) |
| **Depth** | 8.4 in (213 mm) |
| **Operating altitude** | 3000 m without derating |
| **Net weight** | 18.83 lb(US) (8.54 kg) |

## Packing Units

| | |
|---|---|
| **Unit Type of Package 1** | PCE |
| **Number of Units in Package 1** | 1 |
| **Package 1 Height** | 9.8 in (25.0 cm) |
| **Package 1 Width** | 9.8 in (25.0 cm) |
| **Package 1 Length** | 11.8 in (30.0 cm) |
| **Package 1 Weight** | 20.920 lb(US) (9.489 kg) |

## Contractual warranty

| | |
|---|---|
| **Warranty (in months)** | 18 |

## 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

| | |
|---|---|
| Total lifecycle Carbon footprint | **1 799 kg CO2 eq.** |
| Environmental Disclosure | **Product Environmental Profile** |
| Carbon footprint of the manufacturing phase [A1 to A3] | **166 kg CO2 eq.** |
| Carbon footprint of the distribution phase [A4] | **2 kg CO2 eq.** |
| Carbon footprint of the installation phase [A5] | **0.8 kg CO2 eq.** |
| Carbon footprint of the use phase [B2, B3, B4, B6] | **1 616 kg CO2 eq.** |
| Carbon footprint of the end-of-life phase [C1 to C4] | **15 kg CO2 eq.** |

## Use Better

### Materials and Substances

| | |
|---|---|
| EU RoHS Directive | **Compliant with Exemptions** |
| SCIP Number | **B2d4179a-eb65-40a3-a1ef-d9a33060486f** |
| REACh Regulation | **REACh Declaration** |
| PVC free | **Yes** |

## Use Longer

### Lifetime extension

| | |
|---|---|
| Repair | **No** |

## Use Again

### Repack and remanufacture

| | |
|---|---|
| Recyclability potential, in % | **91** |
| WEEE Label | **The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins** |