

# Product data sheet

Specifications



## TeSys F contactor - 3P (3 NO) - AC-1 - <= 690 V 1260 A - coil 265...277 V AC

LC1F1250W7

⚠ Discontinued on: Jan 18, 2021

⚠ Discontinued

### Main

|                                |                                     |
|--------------------------------|-------------------------------------|
| Range                          | TeSys                               |
| Range of product               | TeSys F                             |
| Product or component type      | Contacteur                          |
| Device short name              | LC1F                                |
| Contacteur application         | Resistive load                      |
| Utilisation category           | AC-1                                |
| Poles description              | 3P                                  |
| [Ue] rated operational voltage | <= 460 V DC<br><= 690 V AC 50/60 Hz |
| [Uc] control circuit voltage   | 265...277 V AC 40...400 Hz          |
| [Ie] rated operational current | 1260 A (at <104 °F (40 °C)) AC-1    |

### Complementary

|                                             |                                                                                                                                                                  |
|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| [Uimp] rated impulse withstand voltage      | 8 kV                                                                                                                                                             |
| [Ith] conventional free air thermal current | 1260 A (at 104 °F (40 °C))                                                                                                                                       |
| 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>8000 A 104 °F (40 °C) - 10 s<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 |
| Associated fuse rating                      | 1000 A gG at <= 440 V                                                                                                                                            |
| 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                                                                                                                                                       |
| Overvoltage category                        | III                                                                                                                                                              |
| power pole contact composition              | 3 NO                                                                                                                                                             |
| Control circuit voltage limits              | Operational 0.85...1.1 Uc 40...400 Hz 131 °F (55 °C))<br>Drop-out 0.25...0.5 Uc 40...400 Hz 131 °F (55 °C))                                                      |
| Inrush power in VA                          | 1650 VA, 40...400 Hz 0.9 68 °F (20 °C))                                                                                                                          |
| Hold-in power consumption in VA             | 22 VA, 40...400 Hz 0.9 68 °F (20 °C))                                                                                                                            |
| Maximum operating rate                      | 1200 cyc/h 131 °F (55 °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

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operating time          | 40...80 ms closing<br>100...200 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 2 100 x 5 mm |
| Tightening torque       | Control circuit 10.6 lbf.in (1.2 N.m)<br>Power circuit 513.3 lbf.in (58 N.m)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Mounting support        | Plate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Heat dissipation        | 20 W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Standards               | IEC 60947-4-1<br>EN 60947-1<br>JIS C8201-4-1<br>EN 60947-4-1<br>IEC 60947-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Product certifications  | CB<br>UL<br>CSA<br>CQC<br>CE<br>UKCA<br>CCC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Compatibility code      | LC1F                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Control circuit type    | AC 40...400 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

## Environment

|                                                       |                            |
|-------------------------------------------------------|----------------------------|
| 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) |
| Height                                                | 13.3 in (338 mm)           |
| Width                                                 | 12.2 in (309 mm)           |
| Depth                                                 | 10.04 in (255 mm)          |
| Operating altitude                                    | 3000 m without derating    |
| Net weight                                            | 41.9 lb(US) (19 kg)        |

## Packing Units

|                              |     |
|------------------------------|-----|
| Unit Type of Package 1       | PCE |
| Number of Units in Package 1 | 1   |

## 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

Environmental Disclosure

[Product Environmental Profile](#)

## Use Longer



### Lifetime extension

Repair

No

## Use Again



### Repack and remanufacture

WEEE Label



The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins