

# Product data sheet

Specifications



## TeSys F contactor - 4P (4 NO) - AC-1 - <= 440 V 700 A - coil 48 V DC

LC1F5004ED

⚠ 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 50/60 Hz<br><= 460 V DC           |
| [Uc] control circuit voltage   | 48 V DC                                        |
| [Ie] rated operational current | 700 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 | 700 A (at 104 °F (40 °C))                                                                                                                                        |
| Rated breaking capacity                     | 4000 A conforming to IEC 60947-4-1                                                                                                                               |
| [Icw] rated short-time withstand current    | 4200 A 104 °F (40 °C) - 10 s<br>3200 A 104 °F (40 °C) - 30 s<br>2400 A 104 °F (40 °C) - 1 min<br>1500 A 104 °F (40 °C) - 3 min<br>1200 A 104 °F (40 °C) - 10 min |
| Associated fuse rating                      | 500 aM at <= 440 V<br>800 aG at <= 440 V                                                                                                                         |
| Average impedance                           | 0.18 mOhm - Ith 700 A 50 Hz                                                                                                                                      |
| [Ui] rated insulation voltage               | 1000 V IEC 60947-4-1<br>1500 V VDE 0110 group C                                                                                                                  |
| Power dissipation per pole                  | 88 W AC-1                                                                                                                                                        |
| Overvoltage category                        | III                                                                                                                                                              |
| power pole contact composition              | 4 NO                                                                                                                                                             |
| Control circuit voltage limits              | Operational 0.85...1.1 Uc 131 °F (55 °C))<br>Drop-out 0.2...0.35 Uc 131 °F (55 °C))                                                                              |
| Mechanical durability                       | 10 Mcycles                                                                                                                                                       |
| Inrush power in W                           | 1100 W 68 °F (20 °C))                                                                                                                                            |
| Hold-in power consumption in W              | 6 W 68 °F (20 °C)                                                                                                                                                |

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

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Maximum operating rate  | 2400 cyc/h 131 °F (55 °C)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Operating time          | 50...60 ms closing<br>45...60 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 40 x 5 mm<br>Power circuit lugs-ring terminals 2 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        | 6 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  | RMRoS<br>DNV<br>ABS<br>CB<br>BV<br>CCC<br>RINA<br>LROS (Lloyds register of shipping)<br>UL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Compatibility code      | LC1F                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Control circuit type    | DC standard                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

## 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                                                | 9.4 in (238 mm)                                                                 |
| Width                                                 | 11.3 in (288 mm)                                                                |
| Depth                                                 | 9.1 in (232 mm)                                                                 |
| Operating altitude                                    | 9842.52 ft (3000 m) without derating                                            |
| Net Weight                                            | 28.55 lb(US) (12.95 kg)                                                         |

## Ordering and shipping details

|                   |                                 |
|-------------------|---------------------------------|
| Category          | 22331-CTR,F-LINE,DC,OPEN,NONREV |
| Discount Schedule | I12                             |

|               |               |
|---------------|---------------|
| GTIN          | 3389118094901 |
| Returnability | No            |

Packing Units

|                        |     |
|------------------------|-----|
| Unit Type of Package 1 | PCE |
| Nbr. of units in pkg.  | 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 Better



### Materials and Substances

[EU RoHS Directive](#)

Pro-active compliance (Product out of EU RoHS legal scope)

## 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.