

# Product data sheet

Specifications



## TeSys F contactor - 4P (4 NO) - AC-1 - <= 440 V 350 A - coil 24 V DC

LC1F2654BD

⚠ Discontinued on: Oct 10, 2020

⚠ Discontinued

### Main

|                                |                                                                 |
|--------------------------------|-----------------------------------------------------------------|
| Range                          | TeSys                                                           |
| Range Of Product               | TeSys F                                                         |
| Product Or Component Type      | Contactors                                                      |
| Device Short Name              | LC1F                                                            |
| Contactors 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   | 24 V DC                                                         |
| [Ie] Rated Operational Current | 350 A (at <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 40 °C)                                                                                                 |
| Rated Breaking Capacity                     | 2120 A conforming to IEC 60947-4-1                                                                               |
| [Icw] Rated Short-Time Withstand Current    | 2200 A 40 °C - 10 s<br>1230 A 40 °C - 30 s<br>950 A 40 °C - 1 min<br>620 A 40 °C - 3 min<br>480 A 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 conforming to IEC 60947-4-1<br>1500 V conforming to 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 (at 55 °C)<br>Drop-out: 0.15...0.2 Uc (at 55 °C)                                      |
| Mechanical Durability                       | 10 Mcycles                                                                                                       |
| Inrush Power In W                           | 750 W (at 20 °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

|                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Hold-In Power Consumption In W | 5 W at 20 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Maximum Operating Rate         | 2400 cyc/h 55 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Operating Time                 | 40...50 ms closing<br>40...65 ms opening                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Connections - Terminals        | Control circuit: screw clamp terminals 1 cable(s) 1...4 mm²flexible without cable end<br>Control circuit: screw clamp terminals 2 cable(s) 1...4 mm²flexible without cable end<br>Control circuit: screw clamp terminals 1 cable(s) 1...4 mm²flexible with cable end<br>Control circuit: screw clamp terminals 2 cable(s) 1...2.5 mm²flexible with cable end<br>Control circuit: screw clamp terminals 1 cable(s) 1...4 mm²solid without cable end<br>Control circuit: screw clamp terminals 2 cable(s) 1...4 mm²solid without cable end<br>Power circuit: bar 2 cable(s) - busbar cross section: 32 x 4 mm<br>Power circuit: lugs-ring terminals 1 cable(s) 240 mm²<br>Power circuit: connector 1 cable(s) 240 mm²<br>Power circuit: bolted connection |
| Tightening Torque              | Control circuit: 1.2 N.m<br>Power circuit: 35 N.m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Mounting Support               | Plate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Heat Dissipation               | 5 W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Standards                      | IEC 60947-4-1<br>EN 60947-4-1<br>EN 60947-1<br>JIS C8201-4-1<br>IEC 60947-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Product Certifications         | DNV<br>RMRoS<br>UL<br>CCC<br>LROS (Lloyds register of shipping)<br>ABS<br>BV<br>RINA<br>CB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Compatibility Code             | LC1F                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Control Circuit Type           | DC standard                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

## Environment

|                                                       |                                                                                                             |
|-------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| Ip Degree Of Protection                               | IP20 front face with shrouds conforming to IEC 60529<br>IP20 front face with shrouds conforming to VDE 0106 |
| Protective Treatment                                  | TH                                                                                                          |
| Ambient Air Temperature For Operation                 | -5...55 °C                                                                                                  |
| Ambient Air Temperature For Storage                   | -60...80 °C                                                                                                 |
| Permissible Ambient Air Temperature Around The Device | -40...70 °C                                                                                                 |
| Height                                                | 203 mm                                                                                                      |
| Width                                                 | 244.5 mm                                                                                                    |
| Depth                                                 | 213 mm                                                                                                      |
| Operating Altitude                                    | 3000 m without derating                                                                                     |
| Net Weight                                            | 8.54 kg                                                                                                     |

## Packing Units

|                              |       |
|------------------------------|-------|
| Unit Type Of Package 1       | PCE   |
| Number Of Units In Package 1 | 1     |
| Package 1 Height             | 25 cm |
| Package 1 Width              | 25 cm |

|                  |        |
|------------------|--------|
| Package 1 Length | 30 cm  |
| Package 1 Weight | 9.6 kg |

## Contractual warranty

|          |           |
|----------|-----------|
| 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<sub>2</sub> 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](#)

✓ Pvc Free

## Certifications & Standards

|                           |                                                                                                                                                                                                                                                                                             |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Eu Rohs Directive         | Compliant<br><a href="#">EU RoHS Declaration</a>                                                                                                                                                                                                                                            |
| China Rohs Regulation     | <a href="#">China RoHS declaration</a><br>Product out of China RoHS scope. Substance declaration for your information                                                                                                                                                                       |
| Environmental Disclosure  | <a href="#">Product Environmental Profile</a>                                                                                                                                                                                                                                               |
| Weee                      | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins                                                                                                                                                                 |
| Circularity Profile       | <a href="#">End of Life Information</a>                                                                                                                                                                                                                                                     |
| 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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> |