

# Product datasheet

Specifications



## TeSys F contactor - 4P (4 NO) - AC-1 - <= 440 V 200 A - coil 230 V AC

LC1F1154P5

⚠ Discontinued on: 23 Jan 2021

⚠ 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 | <= 690 V AC 50/60 Hz<br><= 460 V DC |
| [Uc] control circuit voltage   | 230 V AC 50 Hz                      |
| [Ie] rated operational current | 200 A (at <40 °C) at <= 440 V AC-1  |

### Complementary

|   |   |
|---|---|
| [Uimp] rated impulse withstand voltage      | 8 kV  |
| [Ith] conventional free air thermal current | 200 A (at 40 °C)  |
| Rated breaking capacity                     | 920 A conforming to IEC 60947-4-1   |
| [Icw] rated short-time withstand current    | 1100 A 40 °C - 10 s<br>640 A 40 °C - 30 s<br>520 A 40 °C - 1 min<br>400 A 40 °C - 3 min<br>320 A 40 °C - 10 min |
| Associated fuse rating                      | 125 A aM at <= 440 V<br>200 A gG at <= 440 V  |
| Average impedance                           | 0.37 mOhm - Ith 200 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                  | 15 W AC-1   |
| Overvoltage category                        | III   |
| power pole contact composition              | 4 NO  |
| Control circuit voltage limits              | Operational: 0.85...1.1 Uc 50/60 Hz (at 55 °C)<br>Drop-out: 0.35...0.55 Uc 50/60 Hz (at 55 °C)                  |
| Mechanical durability                       | 10 Mcycles  |
| Inrush power in VA                          | 550 VA, 50 Hz cos phi 0.3 (at 20 °C)  |
| Hold-in power consumption in VA             | 45 VA, 50 Hz cos phi 0.3 (at 20 °C)   |

Excluding VAT and subject to change. Please check with your local distributor through "Where to buy"

|                                |   |
|--------------------------------|---|
| <b>Maximum operating rate</b>  | 2400 cyc/h 55 °C  |
| <b>Operating time</b>          | 23...35 ms closing<br>5...15 ms opening   |
| <b>Connections - terminals</b> | Power circuit: bar 2 cable(s) - busbar cross section: 20 x 3 mm<br>Power circuit: lugs-ring terminals 1 cable(s) 95 mm <sup>2</sup><br>Power circuit: connector 1 cable(s) 95 mm <sup>2</sup><br>Control circuit: screw clamp terminals 1 cable(s) 1...4 mm <sup>2</sup> flexible without cable end<br>Control circuit: screw clamp terminals 2 cable(s) 1...4 mm <sup>2</sup> flexible without cable end<br>Control circuit: screw clamp terminals 1 cable(s) 1...4 mm <sup>2</sup> flexible with cable end<br>Control circuit: screw clamp terminals 2 cable(s) 1...2.5 mm <sup>2</sup> flexible with cable end<br>Control circuit: screw clamp terminals 1 cable(s) 1...4 mm <sup>2</sup> solid without cable end<br>Control circuit: screw clamp terminals 2 cable(s) 1...4 mm <sup>2</sup> solid without cable end<br>Power circuit: bolted connection |
| <b>Tightening torque</b>       | Power circuit: 10 N.m<br>Control circuit: 1.2 N.m   |
| <b>Mounting support</b>        | Plate   |
| <b>Heat dissipation</b>        | 12...16 W   |
| <b>Standards</b>               | IEC 60947-4-1<br>IEC 60947-1<br>EN 60947-1<br>EN 60947-4-1<br>JIS C8201-4-1   |
| <b>Product certifications</b>  | DNV<br>ABS<br>LROS (Lloyds register of shipping)<br>RINA<br>UL<br>CB<br>RMRoS<br>CCC<br>BV  |
| <b>Compatibility code</b>      | LC1F  |
| <b>Control circuit type</b>    | AC at 50 Hz   |

## Environment

|  |   |
|--|---|
| <b>IP degree of protection</b>                               | IP2X front face with shrouds conforming to IEC 60529<br>IP2X front face with shrouds conforming to VDE 0106 |
| <b>Protective treatment</b>                                  | TH  |
| <b>Ambient air temperature for operation</b>                 | -40...60 °C   |
| <b>Ambient air temperature for storage</b>                   | -60...80 °C   |
| <b>Permissible ambient air temperature around the device</b> | 60...70 °C at Uc  |
| <b>Height</b>  | 162 mm  |
| <b>Width</b>   | 200.5 mm  |
| <b>Depth</b>   | 171 mm  |
| <b>Operating altitude</b>                                    | 3000 m without derating   |
| <b>Net weight</b>  | 3.83 kg   |

## Packing Units

|                                     |         |
|-------------------------------------|---------|
| <b>Unit Type of Package 1</b>       | PCE     |
| <b>Number of Units in Package 1</b> | 1       |
| <b>Package 1 Height</b>             | 22 cm   |
| <b>Package 1 Width</b>              | 21.5 cm |
| <b>Package 1 Length</b>             | 26.5 cm |

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|                  |         |
|------------------|---------|
| Package 1 Weight | 4.82 kg |
|------------------|---------|

## Contractual warranty

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|                      |    |
|----------------------|----|
| 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 >](#)

### Use Better



#### Materials and Substances

[EU RoHS Directive](#)

Compliant

### Use Longer



#### Lifetime extension

Repair

No

### Use Again



#### Repack and remanufacture

End of life manual availability

[End of Life Information](#)

WEEE Label



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