



### Main

|                                |   |
|--------------------------------|---|
| Range                          | TeSys                                       |
| Product name                   | TeSys F                                     |
| Product or component type      | Contactor                                   |
| Device short name              | LC1F  |
| Contactor application          | Resistive load                              |
| Utilisation category           | AC-1  |
| Poles description              | 4P  |
| Power pole contact composition | 4 NO  |
| [Ue] rated operational voltage | $\leq 460$ V DC<br>$\leq 690$ V AC 50/60 Hz |
| [Ie] rated operational current | 275 A ( $\leq 40$ °C) at $\leq 440$ V AC-1  |
| [Uc] control circuit voltage   | 48 V DC                                     |
| Coil type                      | Standard                                    |

### Complementary

|   |  |
|---|--|
| [Uimp] rated impulse withstand voltage      | 8 kV   |
| Overvoltage category                        | III  |
| [Ith] conventional free air thermal current | 275 A at $\leq 40$ °C  |
| Rated breaking capacity                     | 1480 A conforming to IEC 60947-4-1   |
| [Icw] rated short-time withstand current    | 1500 A $\leq 40$ °C 10 s<br>920 A $\leq 40$ °C 30 s<br>740 A $\leq 40$ °C 1 min<br>500 A $\leq 40$ °C 3 min<br>400 A $\leq 40$ °C 10 min |
| Associated fuse rating                      | 200 A aM at $\leq 440$ V<br>315 A gG at $\leq 440$ V   |
| Average impedance                           | 0.33 mOhm at 50 Hz - Ith 275 A   |
| [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                  | 12 W AC-3<br>25 W AC-1   |
| Mounting support                            | Plate  |
| Standards                                   | EN 60947-4-1   |

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

IEC 60947-1  
 EN 60947-1  
 JIS C8201-4-1  
 IEC 60947-4-1

|                                |  |
|--------------------------------|--|
| Product certifications         | CCC<br>ABS<br>UL<br>BV<br>CB<br>LROS (Lloyds register of shipping)<br>DNV<br>RINA<br>RMRoS   |
| Connections - terminals        | Control circuit : screw clamp terminals 2 cable(s) 1...2.5 mm <sup>2</sup> - cable stiffness: flexible - with cable end<br>Power circuit : connector 1 cable(s) 150 mm <sup>2</sup><br>Control circuit : screw clamp terminals 1 cable(s) 1...4 mm <sup>2</sup> - cable stiffness: flexible - without cable end<br>Control circuit : screw clamp terminals 2 cable(s) 1...4 mm <sup>2</sup> - cable stiffness: flexible - without cable end<br>Control circuit : screw clamp terminals 1 cable(s) 1...4 mm <sup>2</sup> - cable stiffness: flexible - with cable end<br>Control circuit : screw clamp terminals 1 cable(s) 1...4 mm <sup>2</sup> - cable stiffness: solid - without cable end<br>Control circuit : screw clamp terminals 2 cable(s) 1...4 mm <sup>2</sup> - cable stiffness: solid - without cable end<br>Power circuit : lugs-ring terminals 1 cable(s) 150 mm <sup>2</sup><br>Power circuit : bolted connection<br>Power circuit : bar 2 x (25 x 3 mm) |
| Tightening torque              | Control circuit : 1.2 N.m<br>Power circuit : 18 N.m  |
| Control circuit voltage limits | 0.15...0.2 Uc at 55 °C drop-out<br>0.85...1.1 Uc at 55 °C operational  |
| Inrush power in W              | 800 W at 20 °C   |
| Hold-in power consumption in W | 5 W at 20 °C   |
| Heat dissipation               | 5 W  |
| Operating time                 | 30...40 ms closing<br>30...50 ms opening   |
| Mechanical durability          | 10 Mcycles   |
| Operating rate                 | 2400 cyc/h at <= 55 °C   |

## Environment

|   |   |
|---|---|
| IP degree of protection                               | IP2x front face with shrouds (ordered separately) conforming to IEC 60529<br>IP2x front face with shrouds (ordered separately) 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   |
| Operating altitude                                    | 3000 m without derating   |
| Height  | 174 mm  |
| Width   | 208.5 mm  |
| Depth   | 181 mm  |
| Product weight  | 5.45 kg   |

## Offer Sustainability

|                        |   |
|------------------------|---|
| RoHS (date code: YYWW) | Compliant - since 0852 - Schneider Electric declaration of conformity<br><a href="#">Schneider Electric declaration of conformity</a> |
|------------------------|---|

## Contractual warranty

|                 |           |
|-----------------|-----------|
| Warranty period | 18 months |
|-----------------|-----------|