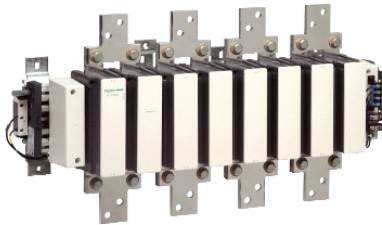


## LC1F7804F7

TeSys F contactor - 4P (4 NO) - AC-1 - <= 440 V  
1600 A - coil 110 V AC



### Main

|                                |                                       |
|--------------------------------|---------------------------------------|
| Range                          | TeSys                                 |
| Product name                   | TeSys F                               |
| Product or component type      | Contacteur                            |
| Device short name              | LC1F                                  |
| Contacteur application         | Resistive load                        |
| Utilisation category           | AC-1                                  |
| Poles description              | 4P                                    |
| Pole contact composition       | 4 NO                                  |
| [Ue] rated operational voltage | <= 1000 V AC 50/60 Hz<br><= 460 V DC  |
| [Ie] rated operational current | 1600 A (<= 40 °C) at <= 440 V AC AC-1 |
| [Uc] control circuit voltage   | 110 V AC 40...400 Hz                  |

### Complementary

|   |   |
|---|---|
| [Uimp] rated impulse withstand voltage      | 8 kV  |
| Overvoltage category                        | III   |
| [Ith] conventional free air thermal current | 1600 A at <= 40 °C  |
| Rated breaking capacity                     | 6240 A conforming to IEC 60947-4-1  |
| [Icw] rated short-time withstand current    | 6250 A <= 40 °C 10 s<br>5600 A <= 40 °C 30 s<br>4600 A <= 40 °C 1 min<br>3000 A <= 40 °C 3 min<br>2200 A <= 40 °C 10 min  |
| Associated fuse rating                      | 800 A aM at <= 440 V<br>1600 A gG at <= 440 V   |
| Average impedance                           | 0.1 mOhm at 50 Hz - Ith 1600 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                  | 250 W AC-1  |
| Mounting support                            | Plate   |
| Standards                                   | EN 60947-1<br>EN 60947-4-1<br>IEC 60947-1<br>IEC 60947-4-1<br>JIS C8201-4-1   |
| Product certifications                      | ABS<br>BV<br>CCC<br>DNV<br>LROS (Lloyds register of shipping)<br>RINA<br>RMRoS<br>UL<br>CB  |
| Connections - terminals                     | Control circuit : screw clamp terminals 2 cable(s) 1...2.5 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: 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 |

The information provided in this documentation contains general descriptions and/or technical characteristics of the products contained herein. 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. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

Control circuit : screw clamp terminals 2 cable(s) 1...4 mm<sup>2</sup> - cable stiffness: solid - without cable end  
 Power circuit : bolted connection  
 Power circuit : bar 2 x (100 x 5 mm)

|                                 |  |
|---------------------------------|--|
| Tightening torque               | Control circuit : 1.2 N.m<br>Power circuit : 58 N.m  |
| Control circuit voltage limits  | 0.85...1.1 Uc at 55 °C operational 40...400 Hz<br>0.2...0.4 Uc at 55 °C drop-out 40...400 Hz |
| Inrush power in VA              | 2100 VA at 20 °C (cos $\phi$ 0.9) 40...400 Hz  |
| Hold-in power consumption in VA | 50 VA at 20 °C (cos $\phi$ 0.9) 40...400 Hz  |
| Heat dissipation                | 44 W   |
| Operating time                  | 130...230 ms opening<br>40...80 ms closing   |
| Mechanical durability           | 5 Mcycles  |
| Operating rate                  | 600 cyc/h at $\leq$ 55 °C  |

## Environment

|   |   |
|---|---|
| IP degree of protection                               | IP20 front face with shrouds (ordered separately) conforming to IEC 60529<br>IP20 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   |
| mechanical robustness                                 | Shocks resistance contactor closed 15 Gn for 11 ms<br>Vibrations resistance contactor open 2.5 Gn, 5...300 Hz<br>Vibrations resistance contactor closed 5.5 Gn, 5...300 Hz<br>Shocks resistance contactor open 5 Gn for 11 ms |
| height  | 434 mm  |
| width   | 862 mm  |
| depth   | 255 mm  |
| product weight  | 48 kg   |

## Offer Sustainability

|                                  |   |
|----------------------------------|---|
| Sustainable offer status         | Green Premium product   |
| RoHS (date code: YYWW)           | Compliant - since 0852 - Schneider Electric declaration of conformity |
| REACH                            | Reference not containing SVHC above the threshold                     |
| Product environmental profile    | Available   |
| Product end of life instructions | Available   |