





## Main

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|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range of product                            | TeSys F                                                                                                                                                                                                                                 |
| Product or component type                   | Contacteur                                                                                                                                                                                                                              |
| Device short name                           | LC1F                                                                                                                                                                                                                                    |
| Contacteur application                      | Motor control<br>Resistive load                                                                                                                                                                                                         |
| Utilisation category                        | AC-1<br>AC-3                                                                                                                                                                                                                            |
| Poles description                           | 3P                                                                                                                                                                                                                                      |
| Power pole contact composition              | 3 NO                                                                                                                                                                                                                                    |
| [Ue] rated operational voltage              | <= 460 V DC<br><= 1000 V AC 50/60 Hz                                                                                                                                                                                                    |
| [Ie] rated operational current              | 265 A (<= 55 °C) at <= 440 V AC AC-3<br>350 A (<= 40 °C) at <= 440 V AC AC-1                                                                                                                                                            |
| Motor power kW                              | 160 kW at 660...690 V AC 50/60 Hz<br>75 kW at 220...240 V AC 50/60 Hz<br>160 kW at 500 V AC 50/60 Hz<br>147 kW at 1000 V AC 50/60 Hz<br>140 kW at 440 V AC 50/60 Hz<br>140 kW at 415 V AC 50/60 Hz<br>132 kW at 380...400 V AC 50/60 Hz |
| [Uimp] rated impulse withstand voltage      | 8 kV                                                                                                                                                                                                                                    |
| Overvoltage category                        | III                                                                                                                                                                                                                                     |
| [Ith] conventional free air thermal current | 350 A at <= 40 °C                                                                                                                                                                                                                       |
| Irms rated making capacity                  | 2650 A AC conforming to IEC 60947-4-1                                                                                                                                                                                                   |
| Rated breaking capacity                     | 2120 kA conforming to IEC 60947-4-1                                                                                                                                                                                                     |
| [Icw] rated short-time withstand current    | 480 A <= 40 °C 10 min<br>620 A <= 40 °C 3 min<br>950 A <= 40 °C 1 min<br>1230 A <= 40 °C 30 s<br>2200 A <= 40 °C 10 s                                                                                                                   |
| Associated fuse rating                      | 400 A gG at <= 440 V<br>315 A aM at <= 440 V                                                                                                                                                                                            |
| Average impedance                           | 0.30 mOhm at 50 Hz - Ith 350 A                                                                                                                                                                                                          |
| [Ui] rated insulation voltage               | 1500 V conforming to VDE 0110 group C<br>1000 V conforming to IEC 60947-4-1                                                                                                                                                             |
| Power dissipation per pole                  | 21 W AC-3<br>37 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>JEM 1038                                                                                                                                                                  |
| Product certifications                      | BV<br>CCC<br>CSA<br>DNV<br>GL<br>RINA<br>RMRoS<br>UL<br>LROS                                                                                                                                                                            |

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|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Connections - terminals | Power circuit: bar 2 x ( 32 x 4 mm)<br>Power circuit: connector 1 cable(s) 240 mm <sup>2</sup><br>Power circuit: lugs-ring terminals 1 cable(s) 240 mm <sup>2</sup><br>Control circuit: screw clamp terminals 2 cable(s)<br>1...4 mm <sup>2</sup> - cable stiffness: solid - without cable end<br>Control circuit: screw clamp terminals 1 cable(s)<br>1...4 mm <sup>2</sup> - cable stiffness: solid - without cable end<br>Control circuit: screw clamp terminals 2 cable(s)<br>1...2.5 mm <sup>2</sup> - cable stiffness: flexible - with cable end<br>Control circuit: screw clamp terminals 1 cable(s)<br>1...4 mm <sup>2</sup> - cable stiffness: flexible - with cable end<br>Control circuit: screw clamp terminals 2 cable(s)<br>1...4 mm <sup>2</sup> - cable stiffness: flexible - without cable end<br>Control circuit: screw clamp terminals 1 cable(s)<br>1...4 mm <sup>2</sup> - cable stiffness: flexible - without cable end |
| Tightening torque       | Power circuit: 35 N.m<br>Control circuit: 1.2 N.m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

## Environment

|                                                       |                                                                                                                                                                               |
|-------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| IP degree of protection                               | IP20 front face with shrouds (ordered separately) conforming to VDE 0106<br>IP20 front face with shrouds (ordered separately) conforming to IEC 60529                         |
| 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 in temperature                                                                                                                                        |
| Mechanical robustness                                 | Shocks contactor open 6 Gn for 11 ms<br>Vibrations contactor closed 5 Gn, 5...300 Hz<br>Shocks contactor closed 15 Gn for 11 ms<br>Vibrations contactor open 2 Gn, 5...300 Hz |
| Height                                                | 203 mm                                                                                                                                                                        |
| Width                                                 | 201.5 mm                                                                                                                                                                      |
| Depth                                                 | 213 mm                                                                                                                                                                        |
| Product weight                                        | 8.54 kg                                                                                                                                                                       |

## Offer Sustainability

|                                  |                                                                                       |
|----------------------------------|---------------------------------------------------------------------------------------|
| Sustainable offer status         | Green Premium product                                                                 |
| RoHS                             | Compliant - since 0843 - <a href="#">Schneider Electric declaration of conformity</a> |
| REACH                            | Reference not containing SVHC above the threshold                                     |
| Product environmental profile    | Available <a href="#">Download Product Environmental</a>                              |
| Product end of life instructions | Available <a href="#">Download End Of Life Manual</a>                                 |

## Contractual warranty

|        |           |
|--------|-----------|
| Period | 18 months |
|--------|-----------|