



## Main

|                                |  |
|--------------------------------|--|
| Range                          | TeSys  |
| Product name                   | TeSys F  |
| Product or component type      | Contactors   |
| Device short name              | LC1F   |
| Contactors application         | Resistive load<br>Motor control  |
| Utilisation category           | AC-4<br>AC-3<br>AC-1   |
| Poles description              | 3P   |
| Pole contact composition       | 3 NO   |
| [Ue] rated operational voltage | $\leq 1000$ V AC 50/60 Hz<br>$\leq 460$ V DC   |
| [Ie] rated operational current | 400 A ( $\leq 40$ °C) at $\leq 440$ V AC AC-1<br>330 A ( $\leq 55$ °C) at $\leq 440$ V AC AC-3   |
| Motor power kW                 | 160 kW at 380...400 V AC 50/60 Hz AC-3<br>200 kW at 500 V AC 50/60 Hz AC-3<br>180 kW at 415 V AC 50/60 Hz AC-3<br>200 kW at 440 V AC 50/60 Hz AC-3<br>160 kW at 1000 V AC 50/60 Hz AC-3<br>59 kW at 400 V AC 50/60 Hz AC-4<br>100 kW at 220...240 V AC 50/60 Hz AC-3<br>220 kW at 660...690 V AC 50/60 Hz AC-3 |

## Complementary

|   |                                       |
|---|---------------------------------------|
| [Uimp] rated impulse withstand voltage      | 8 kV                                  |
| Overtoltage category                        | III                                   |
| [Ith] conventional free air thermal current | 400 A at $\leq 40$ °C                 |
| Irms rated making capacity                  | 3300 A AC conforming to IEC 60947-4-1 |
| Rated breaking capacity                     | 2640 A conforming to IEC 60947-4-1    |

|   |  |
|---|--|
| [I <sub>cw</sub> ] rated short-time withstand current | 2650 A <= 40 °C 10 s<br>1800 A <= 40 °C 30 s<br>1300 A <= 40 °C 1 min<br>900 A <= 40 °C 3 min<br>750 A <= 40 °C 10 min |
| Associated fuse rating                                | 400 A aM at <= 440 V<br>500 A gG at <= 440 V   |
| Average impedance                                     | 0.28 mOhm at 50 Hz - I <sub>th</sub> 400 A   |
| [U <sub>i</sub> ] rated insulation voltage            | 1000 V conforming to IEC 60947-4-1<br>1500 V conforming to VDE 0110 group C  |
| Power dissipation per pole                            | 31 W AC-3<br>44 W AC-1   |
| Mounting support                                      | Plate  |
| Standards   | EN 60947-4-1<br>JIS C8201-4-1<br>EN 60947-1<br>IEC 60947-4-1<br>IEC 60947-1  |
| Product certifications                                | CSA<br>RINA<br>RMRoS<br>LROS (Lloyds register of shipping)<br>UL<br>ABS<br>CB<br>DNV<br>BV                             |
| Connections - terminals                               | Power circuit : lugs-ring terminals 1 cable(s) 240 mm <sup>2</sup><br>Power circuit : bar 2 x (30 x 5 mm)              |
| Tightening torque                                     | Power circuit : 35 N.m   |

## 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 in temperature  |
| Mechanical robustness                                 | Vibrations contactor closed 5 Gn, 5...300 Hz<br>Vibrations contactor open 2 Gn, 5...300 Hz<br>Shocks contactor closed 15 Gn for 11 ms<br>Shocks contactor open 6 Gn for 11 ms |
| Height  | 206 mm  |
| Width   | 213 mm  |
| Depth   | 219 mm  |
| Product weight  | 9.5 kg  |

## Offer Sustainability

|                                  |   |
|----------------------------------|---|
| Sustainable offer status         | Green Premium product   |
| RoHS (date code: YYWW)           | Compliant - since 0843 - Schneider Electric declaration of conformity<br><a href="#">Schneider Electric declaration of conformity</a> |
| REACH                            | Reference not containing SVHC above the threshold<br><a href="#">Reference not containing SVHC above the threshold</a>                |
| Product environmental profile    | Available<br><a href="#">Product environmental</a>  |
| Product end of life instructions | Available<br><a href="#">End of life manual</a>   |

## Contractual warranty

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

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