

## LC1F3304MD

TeSys F contactor - 4P (4 NO) - AC-1 -  $\leq 440$  V  
400 A - coil 220 V DC



### 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              | $\leq 1000$ 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  |
| Control circuit type                        | DC standard  |
| Control circuit voltage                     | 220 V DC   |
| [Uimp] rated impulse withstand voltage      | 8 kV   |
| Overvoltage 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 kA conforming to IEC 60947-4-1  |
| [Icw] rated short-time withstand current    | 2650 A $\leq 40$ °C 10 s<br>1800 A $\leq 40$ °C 30 s<br>1300 A $\leq 40$ °C 1 min<br>900 A $\leq 40$ °C 3 min<br>750 A $\leq 40$ °C 10 min   |
| Associated fuse rating                      | 400 A aM at $\leq 440$ V<br>500 A gG at $\leq 440$ V   |
| Average impedance                           | 0.28 mOhm at 50 Hz - Ith 400 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                  | 44 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   |
| Connections - terminals                     | 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 - without cable end<br>Control circuit : screw clamp terminals 2 cable(s)<br>1...4 mm <sup>2</sup> - cable stiffness: flexible - without cable end |

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Control circuit : screw clamp terminals 1 cable(s)  
 1...4 mm<sup>2</sup> - cable stiffness: flexible - with cable end  
 Control circuit : screw clamp terminals 1 cable(s)  
 1...4 mm<sup>2</sup> - cable stiffness: solid - without cable  
 end  
 Control circuit : screw clamp terminals 2 cable(s)  
 1...4 mm<sup>2</sup> - cable stiffness: solid - without cable  
 end  
 Power circuit : lugs-ring terminals 1 cable(s) 240  
 mm<sup>2</sup>  
 Power circuit : bar 2 x ( 30 x 5 mm)

|                       |   |
|-----------------------|---|
| Tightening torque     | Power circuit : 35 N.m<br>Control circuit : 1.2 N.m |
| Operating time        | 40...50 ms closing<br>40...65 ms opening            |
| Mechanical durability | 10 Mcycles  |
| Operating rate        | 2400 cyc/h at <= 55 °C                              |

## Complementary

|                                |   |
|--------------------------------|---|
| Control circuit voltage limits | 0.85...1.1 Uc at 55 °C operational<br>0.15...0.2 Uc at 55 °C drop-out |
| Inrush power in W              | 750 W at 20 °C  |
| Hold-in power consumption in W | 5 W at 20 °C  |
| Heat dissipation               | 5 W   |

## 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 open 2 Gn, 5...300 Hz<br>Shocks contactor closed 15 Gn for 11 ms<br>Shocks contactor open 6 Gn for 11 ms<br>Vibrations contactor closed 5 Gn, 5...300 Hz |
| Height  | 206 mm  |
| Width   | 261 mm  |
| Depth   | 219 mm  |
| Product weight  | 9.5 kg  |

## Offer Sustainability

|                                  |   |
|----------------------------------|---|
| Sustainable offer status         | Green Premium product   |
| RoHS                             | 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   |