

# LC1F1154

TeSys F contactor - 4P(4 NO)-AC-1  $\leq$  440V  
200A with coil LX9 - 24...575V AC 40/400Hz, LX4  
- 24...460V DC, LXE - 100...250V AC 50/60Hz or  
100...380V DC



Price\* : 356.46 GBP



## 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 | $\leq$ 690 V AC 50/60 Hz                 |
| [Ie] rated operational current | 200 A (at $<40$ °C) at $\leq$ 440 V AC-1 |

## Complementary

|   |   |
|---|---|
| [Uc] control circuit voltage                | 24...575 V AC 40...400 Hz with LX9 coil<br>24...460 V DC with LX4 coil<br>100...250 V AC 50/60 Hz with LXE coil<br>100...380 V DC with LXE coil |
| [Uimp] rated impulse withstand voltage      | 8 kV  |
| Overvoltage category                        | III   |
| [Ith] conventional free air thermal current | 200 A (at 40 °C)  |
| Irms rated making capacity                  | 1150 A conforming to IEC 60947-4-1  |
| Rated breaking capacity                     | 920 A conforming to IEC 60947-4-1   |
| [Icw] rated short-time withstand current    | 1100 A 40 °C - 10 s<br>640 A 40 °C - 30 s<br>520 A 40 °C - 1 min<br>400 A 40 °C - 3 min   |

|                                 |   |
|---------------------------------|---|
|                                 | 320 A 40 °C - 10 min  |
| Associated fuse rating          | 200 A gG at ≤ 440 V   |
| Average impedance               | 0.37 mOhm - lth 200 A 50 Hz   |
| [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      | 15 W AC-1   |
| Control circuit voltage limits  | Operational: 0.85...1.1 U <sub>c</sub> AC 40...400 Hz with LX9 coil<br>Drop-out: 0.2...0.55 U <sub>c</sub> AC 40...400 Hz with LX9 coil<br>Operational: 0.85...1.1 U <sub>c</sub> DC with LX4 coil<br>Drop-out: 0.15...0.2 U <sub>c</sub> DC with LX4 coil<br>Operational: 85...275 V AC 50/60 Hz with LXE coil<br>Drop-out: 0...60 V AC 50/60 Hz with LXE coil<br>Operational: 85...418 V DC with LXE coil<br>Drop-out: 0...45 V DC with LXE coil  |
| Heat dissipation                | 5.9...7.2 W<br>2.2...5.5 W  |
| Operating time                  | 130 ms opening for with LX9 coil<br>30...40 ms closing for with LX4 coil<br>30...50 ms opening for with LX4 coil<br>40...80 ms closing for with LXE coil<br>6...54 ms opening for with LXE coil   |
| Mounting support                | Plate   |
| Standards                       | EN 60947-4-1<br>IEC 60947-4-1<br>JIS C8201-4-1<br>EN 60947-1<br>IEC 60947-1   |
| Product certifications          | CB<br>UL<br>RINA<br>DNV<br>LROS (Lloyds register of shipping)<br>RMRoS<br>CSA<br>ABS<br>BV  |
| Connections - terminals         | Power circuit: lugs-ring terminals 1 cable(s) 95 mm <sup>2</sup><br>Power circuit: connector 1 cable(s) 95 mm <sup>2</sup><br>Power circuit: bar 2 cable(s) - busbar cross section: 20 x 3 mm<br>Power circuit: bolted connection<br>Control circuit: screw clamp terminals 1 cable(s) 1...4 mm <sup>2</sup> flexible without cable end<br>Control circuit: screw clamp terminals 2 cable(s) 1...4 mm <sup>2</sup> flexible with cable end<br>Control circuit: screw clamp terminals 1 cable(s) 1...4 mm <sup>2</sup> flexible with cable end<br>Control circuit: screw clamp terminals 2 cable(s) 1...2.5 mm <sup>2</sup> solid without cable end<br>Control circuit: screw clamp terminals 1 cable(s) 1...4 mm <sup>2</sup><br>Control circuit: screw clamp terminals 2 cable(s) 1...4 mm <sup>2</sup><br>Control circuit: screw clamp terminals 1.0 cable(s) 0.2...2.5 mm <sup>2</sup> flexible without cable end<br>Control circuit: screw clamp terminals 1.0 cable(s) 0.25...2.5 mm <sup>2</sup> flexible with cable end<br>Control circuit: screw clamp terminals 1.0 cable(s) 0.2...2.5 mm <sup>2</sup> solid without cable end |
| Tightening torque               | Power circuit: 10 N.m<br>Control circuit: 1.2 N.m<br>Control circuit: 0.6 N.m   |
| Inrush power in VA              | 590...855 VA, 40...400 Hz cos phi 0.9 (at 20 °C)with LX9 coil<br>543...665 VA (at 20 °C)with LX4 coil<br>280...310 VA, 50/60 Hz cos phi 0.5 (at 20 °C)with LXE coil<br>270...320 VA (at 20 °C)with LXE coil   |
| Hold-in power consumption in VA | 6.6...8.1 VA, 40...400 Hz cos phi 0.9 (at 20 °C)with LX9 coil<br>3.94...4.83 VA (at 20 °C)with LX4 coil<br>4.5...7.0 VA, 50/60 Hz cos phi 0.5 (at 20 °C)with LXE coil<br>2.5...4.0 VA (at 20 °C)with LXE coil   |
| Maximum operating rate          | 2400 cyc/h 55 °C  |
| Compatibility code              | LC1F  |

## Environment

|                         |   |
|-------------------------|---|
| IP degree of protection | IP2x front face with shrouds conforming to IEC 60529<br>IP2x front face with shrouds 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   |
| Mechanical robustness                                 | Vibrations contactor open: 2 Gn, 5...300 Hz<br>Vibrations contactor closed: 6 Gn, 5...300 Hz<br>Shocks contactor open: 9 Gn for 1/2 sine wave (11 ms)<br>Shocks contactor closed: 15 Gn for 1/2 sine wave (11 ms) |
| Height  | 162 mm  |
| Width   | 200.5 mm  |
| Depth   | 171 mm  |
| Product weight  | 3.83 kg   |

### Offer Sustainability

|                            |   |
|----------------------------|---|
| Sustainable offer status   | Green Premium product   |
| REACH Regulation           | <a href="#">REACH Declaration</a>   |
| EU RoHS Directive          | Compliant<br><a href="#">EU RoHS Declaration</a>  |
| Mercury free               | Yes   |
| RoHS exemption information | <a href="#">Yes</a>   |
| China RoHS Regulation      | <a href="#">China RoHS declaration</a><br>Product out of China RoHS scope. Substance declaration for your information       |
| Environmental Disclosure   | <a href="#">Product Environmental Profile</a>   |
| Circularity Profile        | <a href="#">End of Life Information</a>   |
| WEEE                       | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |

### Contractual warranty

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