



Price\* : 474.69 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 $\leq 40$ °C) at $\leq 440$ V AC-1 |
| [Uc] control circuit voltage   | 230 V AC 40...400 Hz                         |

## Complementary

|                                             |                                                                                                                           |
|---------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| [Uimp] rated impulse withstand voltage      | 8 kV                                                                                                                      |
| Overvoltage category                        | III                                                                                                                       |
| [Ith] conventional free air thermal current | 200 A (at $40$ °C)                                                                                                        |
| 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<br>320 A $40$ °C - 10 min |
| Associated fuse rating                      | 125 A aM at $\leq 440$ V<br>200 A gG at $\leq 440$ V                                                                      |
| Average impedance                           | 0.37 mOhm - Ith 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                                                                                                                 |

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|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Mounting support                | Plate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Standards                       | IEC 60947-4-1<br>EN 60947-4-1<br>EN 60947-1<br>IEC 60947-1<br>JIS C8201-4-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Product certifications          | CCC<br>LROS (Lloyds register of shipping)<br>DNV<br>RMRoS<br>ABS<br>RINA<br>BV<br>UL<br>CB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Connections - terminals         | Power circuit: bar 2 cable(s) - busbar cross section: 20 x 3 mm<br>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>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 without 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> flexible with cable end<br>Control circuit: screw clamp terminals 1 cable(s) 1...4 mm <sup>2</sup> solid without cable end<br>Control circuit: screw clamp terminals 2 cable(s) 1...4 mm <sup>2</sup> solid without cable end<br>Power circuit: bolted connection |
| Tightening torque               | Power circuit: 10 N.m<br>Control circuit: 1.2 N.m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Control circuit voltage limits  | Operational: 0.85...1.1 U <sub>c</sub> 40...400 Hz (at 55 °C)<br>Drop-out: 0.35...0.55 U <sub>c</sub> 40...400 Hz (at 55 °C)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Inrush power in VA              | 770 VA 40...400 Hz cos phi 0.9 (at 20 °C)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Hold-in power consumption in VA | 8.1 VA 40...400 Hz cos phi 0.9 (at 20 °C)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Heat dissipation                | 5.9...7.2 W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Operating time                  | 35 ms closing (at U <sub>c</sub> )<br>130 ms opening (at U <sub>c</sub> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Mechanical durability           | 10 Mcycles                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 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                                                                                                 |
| Operating altitude                                    | 3000 m without                                                                                              |
| Height                                                | 162 mm                                                                                                      |
| Width                                                 | 200.5 mm                                                                                                    |
| Depth                                                 | 171 mm                                                                                                      |
| Product weight                                        | 3.83 kg                                                                                                     |

## Offer Sustainability

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|----------------------------|-----------------------------------------------------------------------------------------------------------------------|
| 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 |
|----------|-----------|