



Price\* : 2,163.61 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 | <= 1000 V AC 50/60 Hz<br><= 460 V DC  |
| [Ie] rated operational current | 700 A (at <40 °C) at <= 440 V AC 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 | 700 A (at 40 °C)                                                                                                    |
| Rated breaking capacity                     | 4000 A conforming to IEC 60947-4-1                                                                                  |
| [Icw] rated short-time withstand current    | 4200 A 40 °C - 10 s<br>3200 A 40 °C - 30 s<br>2400 A 40 °C - 1 min<br>1500 A 40 °C - 3 min<br>1200 A 40 °C - 10 min |
| Associated fuse rating                      | 500 A aM at <= 440 V<br>800 A gG at <= 440 V                                                                        |
| Average impedance                           | 0.18 mOhm - Ith 700 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      | 88 W AC-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Mounting support                | Plate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Standards                       | EN 60947-4-1<br>EN 60947-1<br>JIS C8201-4-1<br>IEC 60947-4-1<br>IEC 60947-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Product certifications          | DNV<br>CB<br>ABS<br>UL<br>RMRoS<br>CCC<br>RINA<br>LROS (Lloyds register of shipping)<br>BV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Connections - terminals         | 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: bar 2 cable(s) - busbar cross section: 40 x 5 mm<br>Power circuit: lugs-ring terminals 2 cable(s) 240 mm <sup>2</sup><br>Power circuit: bolted connection |
| Tightening torque               | Control circuit: 1.2 N.m<br>Power circuit: 35 N.m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Control circuit voltage limits  | Operational: 0.85...1.1 U <sub>c</sub> 40...400 Hz (at 55 °C)<br>Drop-out: 0.3...0.5 U <sub>c</sub> 40...400 Hz (at 55 °C)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Inrush power in VA              | 1100 VA 40...400 Hz cos phi 0.9 (at 20 °C)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Hold-in power consumption in VA | 18 VA 40...400 Hz cos phi 0.9 (at 20 °C)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Heat dissipation                | 18 W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Operating time                  | 40...65 ms closing<br>100...170 ms opening                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Mechanical durability           | 10 Mcycles                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Maximum operating rate          | 2400 cyc/h 55 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Compatibility code              | LC1F                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

## Environment

|                                                       |                                                                                                             |
|-------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| IP degree of protection                               | IP20 front face with shrouds conforming to IEC 60529<br>IP20 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                                                | 238 mm                                                                                                      |
| Width                                                 | 288 mm                                                                                                      |
| Depth                                                 | 232 mm                                                                                                      |
| Product weight                                        | 12.95 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>           |

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