



Price\* : 728.23 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 | $\leq 460$ V DC<br>$\leq 690$ V AC 50/60 Hz  |
| [Ie] rated operational current | 275 A (at $\leq 40$ °C) at $\leq 440$ V AC-1 |
| [Uc] control circuit voltage   | 220 V DC                                     |
| Coil type                      | Standard                                     |

## Complementary

|                                             |                                                                                                                 |
|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| [Uimp] rated impulse withstand voltage      | 8 kV                                                                                                            |
| Overvoltage category                        | III                                                                                                             |
| [Ith] conventional free air thermal current | 275 A (at 40 °C)                                                                                                |
| Rated breaking capacity                     | 1480 A conforming to IEC 60947-4-1                                                                              |
| [Icw] rated short-time withstand current    | 1500 A 40 °C - 10 s<br>920 A 40 °C - 30 s<br>740 A 40 °C - 1 min<br>500 A 40 °C - 3 min<br>400 A 40 °C - 10 min |
| Associated fuse rating                      | 200 A aM at $\leq 440$ V<br>315 A gG at $\leq 440$ V                                                            |
| Average impedance                           | 0.33 mOhm - Ith 275 A 50 Hz                                                                                     |
| [Ui] rated insulation voltage               | 1000 V conforming to IEC 60947-4-1                                                                              |

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|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Power dissipation per pole     | 12 W AC-3<br>25 W AC-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Mounting support               | Plate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Standards                      | IEC 60947-1<br>EN 60947-1<br>EN 60947-4-1<br>IEC 60947-4-1<br>JIS C8201-4-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Product certifications         | BV<br>ABS<br>RINA<br>RMRoS<br>CB<br>CCC<br>DNV<br>UL<br>LROS (Lloyds register of shipping)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 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: 25 x 3 mm<br>Power circuit: lugs-ring terminals 1 cable(s) 150 mm <sup>2</sup><br>Power circuit: connector 1 cable(s) 150 mm <sup>2</sup><br>Power circuit: bolted connection |
| Tightening torque              | Control circuit: 1.2 N.m<br>Power circuit: 18 N.m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Control circuit voltage limits | Operational: 0.85...1.1 U <sub>c</sub> (at 55 °C)<br>Drop-out: 0.15...0.2 U <sub>c</sub> (at 55 °C)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Inrush power in W              | 800 W (at 20 °C)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Hold-in power consumption in W | 5 W at 20 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Heat dissipation               | 5 W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Operating time                 | 30...40 ms closing<br>30...50 ms opening                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 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                                                | 174 mm                                                                                                      |
| Width                                                 | 208.5 mm                                                                                                    |
| Depth                                                 | 181 mm                                                                                                      |
| Product weight                                        | 5.45 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 |
|----------|-----------|