



## Main

|                                |                            |
|--------------------------------|----------------------------|
| Range                          | TeSys                      |
| Range of product               | TeSys F                    |
| Product or component type      | Contacteur                 |
| Device short name              | LC1F                       |
| Contacteur application         | Resistive load             |
| Utilisation category           | AC-1                       |
| Poles description              | 3P                         |
| [Ue] rated operational voltage | <= 1000 V AC 50/60 Hz      |
| [Uc] control circuit voltage   | 220 V DC                   |
| [Ie] rated operational current | 2600 A (at <60 °C) AC AC-1 |

## Complementary

|                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|---------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| [Uimp] rated impulse withstand voltage      | 8 kV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| [Ith] conventional free air thermal current | 2600 A (at 60 °C)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Rated breaking capacity                     | 3900 A conforming to IEC 60947-4-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| [Icw] rated short-time withstand current    | 12000 A 40 °C - 10 s<br>9000 A 40 °C - 30 s<br>7000 A 40 °C - 1 min<br>6000 A 40 °C - 3 min<br>4000 A 40 °C - 10 min                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Associated fuse rating                      | 2500 A gG at <= 440 V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Average impedance                           | 0.1 mOhm - Ith 2600 A 50 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| [Ui] rated insulation voltage               | 1000 V conforming to IEC 60947-4-1<br>1000 V conforming to UL 60947-4-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Power dissipation per pole                  | 250 W AC-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Overvoltage category                        | III                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Power pole contact composition              | 3 NO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Control circuit voltage limits              | Operational: 0.85...1.1 Uc (at 55 °C)<br>Drop-out: 0.2...0.35 Uc (at 55 °C)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Inrush power in W                           | 2600 W (at 20 °C)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Hold-in power consumption in W              | 18 W at 20 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Maximum operating rate                      | 600 cyc/h 55 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Operating time                              | 60...70 ms closing<br>40...50 ms opening                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Connections - terminals                     | Control circuit: screw clamp terminals 1 cable(s) 1...4 mm²flexible without cable end<br>Control circuit: screw clamp terminals 2 cable(s) 1...4 mm²flexible without cable end<br>Control circuit: screw clamp terminals 1 cable(s) 1...4 mm²flexible with cable end<br>Control circuit: screw clamp terminals 2 cable(s) 1...2.5 mm²flexible with cable end<br>Control circuit: screw clamp terminals 1 cable(s) 1...4 mm²solid without cable end<br>Control circuit: screw clamp terminals 2 cable(s) 1...4 mm²solid without cable end<br>Power circuit: bar 3 cable(s) - busbar cross section: 100 x 10 mm |
| Tightening torque                           | Control circuit: 1.2 N.m<br>Power circuit: 58 N.m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Mounting support                            | Plate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Heat dissipation                            | 40 W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

|                        |                                                                                                                       |
|------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Standards              | EN 60947-4-1<br>IEC 60947-1<br>IEC 60947-4-1<br>EN 60947-1<br>JIS C8201-4-1<br>UL 60947-4-1<br>CSA C22.2 No 60947-4-1 |
| Product certifications | CB<br>Scheme[RETURN]CCC[RETURN]CSA[RETURN]UL[RETURN]UKCA[RETURN]EAC                                                   |
| Compatibility code     | LC1F                                                                                                                  |
| Control circuit type   | DC standard                                                                                                           |

## 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...40 °C                                                                                                  |
| Ambient air temperature for storage                   | -60...80 °C                                                                                                 |
| Permissible ambient air temperature around the device | -40...60 °C                                                                                                 |
| Height                                                | 382 mm                                                                                                      |
| Width                                                 | 519 mm                                                                                                      |
| Depth                                                 | 251 mm                                                                                                      |
| Operating altitude                                    | 3000 m without derating                                                                                     |
| Net weight                                            | 36 kg                                                                                                       |

## Offer Sustainability

|                            |                                                                                                                                   |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status   | Green Premium product                                                                                                             |
| REACH Regulation           |  <a href="#">REACH Declaration</a>             |
| EU RoHS Directive          | Compliant with Exemptions                                                                                                         |
| Mercury free               | Yes                                                                                                                               |
| RoHS exemption information |  <a href="#">Yes</a>                           |
| China RoHS Regulation      |  <a href="#">China RoHS Declaration</a>        |
| 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       |