



### Principal

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|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Gama                                      | TeSys                                                                                                                                                                                                                                                                                                        |
| Product name                              | TeSys F                                                                                                                                                                                                                                                                                                      |
| Tipo de producto o componente             | Contactor                                                                                                                                                                                                                                                                                                    |
| Device short name                         | LC1F                                                                                                                                                                                                                                                                                                         |
| Contactor application                     | Motor control<br>Resistive load                                                                                                                                                                                                                                                                              |
| Categoría de empleo                       | AC-1<br>AC-3<br>AC-4                                                                                                                                                                                                                                                                                         |
| Poles description                         | 3P                                                                                                                                                                                                                                                                                                           |
| Pole contact composition                  | 3 NO                                                                                                                                                                                                                                                                                                         |
| [Ue] tensión de funcionamiento nominal    | <= 1000 V AC 50/60 Hz<br><= 460 V CC                                                                                                                                                                                                                                                                         |
| [Ie] intensidad de funcionamiento nominal | 275 A (<= 40 °C) at <= 440 V AC AC-1<br>185 A (<= 55 °C) at <= 440 V AC AC-3                                                                                                                                                                                                                                 |
| Motor power kW                            | 55 kW at 220...230 V AC 50/60 Hz AC-3<br>90 kW at 380...400 V AC 50/60 Hz AC-3<br>100 kW at 415 V AC 50/60 Hz AC-3<br>100 kW at 440 V AC 50/60 Hz AC-3<br>110 kW at 500 V AC 50/60 Hz AC-3<br>110 kW at 660...690 V AC 50/60 Hz AC-3<br>100 kW at 1000 V AC 50/60 Hz AC-3<br>33 kW at 400 V AC 50/60 Hz AC-4 |
| [Uc] control circuit voltage              | 220 V AC 40...400 Hz                                                                                                                                                                                                                                                                                         |

### Complementos

|                                             |                                                                                                                      |
|---------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| [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 <= 440 V<br>315 A gG at <= 440 V                                                                         |
| Average impedance                           | 0.33 mOhm at 50 Hz - Ith 275 A                                                                                       |
| [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                  | 12 W AC-3<br>25 W AC-1                                                                                               |
| Mounting support                            | Plate                                                                                                                |
| Normas                                      | EN 60947-1<br>EN 60947-4-1<br>IEC 60947-1<br>IEC 60947-4-1<br>JIS C8201-4-1                                          |

|                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Certificaciones de producto     | ABS<br>BV<br>CSA<br>DNV<br>LROS (Lloyds register of shipping)<br>RINA<br>RMRoS<br>UL<br>CB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Conexiones - terminales         | Control circuit: screw clamp terminals 2 cable(s) 1...2.5 mm <sup>2</sup> - cable stiffness: flexible - with cable end<br>Power circuit: connector 1 cable(s) 150 mm <sup>2</sup><br>Control circuit: screw clamp terminals 1 cable(s) 1...4 mm <sup>2</sup> - cable stiffness: flexible - without cable end<br>Control circuit: screw clamp terminals 2 cable(s) 1...4 mm <sup>2</sup> - cable stiffness: flexible - without cable end<br>Control circuit: screw clamp terminals 1 cable(s) 1...4 mm <sup>2</sup> - cable stiffness: flexible - with cable end<br>Control circuit: screw clamp terminals 1 cable(s) 1...4 mm <sup>2</sup> - cable stiffness: solid - without cable end<br>Control circuit: screw clamp terminals 2 cable(s) 1...4 mm <sup>2</sup> - cable stiffness: solid - without cable end<br>Power circuit: lugs-ring terminals 1 cable(s) 150 mm <sup>2</sup><br>Power circuit : bolted connection<br>Power circuit : bar 2 x (25 x 3 mm) |
| Tightening torque               | Control circuit: 1.2 N.m<br>Power circuit: 18 N.m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Control circuit voltage limits  | 0.35...0.55 U <sub>c</sub> at 55 °C drop-out 50/60 Hz<br>0.85...1.1 U <sub>c</sub> at 55 °C operational 50/60 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Inrush power in VA              | 805 VA at 20 °C (cos φ 0.3) 50 Hz<br>970 VA at 20 °C (cos φ 0.3) 60 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Hold-in power consumption in VA | 55 VA at 20 °C (cos φ 0.3) 50 Hz<br>66 VA at 20 °C (cos φ 0.3) 60 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Heat dissipation                | 18...24 W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Operating time                  | 20...35 ms closing<br>7...15 ms opening                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Mechanical durability           | 10 Mcycles                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Operating rate                  | 2400 cyc/h at ≤ 55 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

## Ambiente

|                                                       |                                                                                                                                                                               |
|-------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| IP degree of protection                               | IP2x front face with shrouds (ordered separately) conforming to IEC 60529<br>IP2x front face with shrouds (ordered separately) conforming to VDE 0106                         |
| Protective treatment                                  | TH                                                                                                                                                                            |
| Temperatura ambiente de trabajo                       | -5...55 °C                                                                                                                                                                    |
| Temperatura ambiente de almacenamiento                | -60...80 °C                                                                                                                                                                   |
| Permissible ambient air temperature around the device | -40...70 °C                                                                                                                                                                   |
| Operating altitude                                    | 3000 m without derating in temperature                                                                                                                                        |
| Mechanical robustness                                 | Vibrations contactor closed 5 Gn, 5...300 Hz<br>Shocks contactor open 7 Gn for 11 ms<br>Vibrations contactor open 2 Gn, 5...300 Hz<br>Shocks contactor closed 15 Gn for 11 ms |
| Altura                                                | 174 mm                                                                                                                                                                        |
| Anchura                                               | 168.5 mm                                                                                                                                                                      |
| Profundidad                                           | 181 mm                                                                                                                                                                        |
| Peso del producto                                     | 4.65 kg                                                                                                                                                                       |

## Oferta sustentable

|                                  |                                                                                                                                    |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status         | Green Premium product                                                                                                              |
| RoHS (date code: YYWW)           | Compliant - since 0843 - Schneider Electric declaration of conformity <a href="#">Schneider Electric declaration of conformity</a> |
| REACH                            | Reference not containing SVHC above the threshold                                                                                  |
| Product environmental profile    | Available <a href="#">Perfil Medioambiental</a>                                                                                    |
| Product end of life instructions | Available <a href="#">Manual De Gestión Residuos</a>                                                                               |

## Garantia contractual

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