



### Principal

|                               |               |
|-------------------------------|---------------|
| Gama de producto              | TeSys K       |
| Gama                          | TeSys         |
| Tipo de producto o componente | Contactador   |
| Product name                  | TeSys K       |
| Device short name             | LP1K          |
| Aplicación de dispositivo     | Control       |
| Contactador application       | Motor control |

### Complementos

|                                             |                                                                                                                                                                                                                                                                                                                                                           |
|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Categoría de empleo                         | AC-3<br>AC-4                                                                                                                                                                                                                                                                                                                                              |
| Poles description                           | 3P                                                                                                                                                                                                                                                                                                                                                        |
| Pole contact composition                    | 3 NO                                                                                                                                                                                                                                                                                                                                                      |
| [Ue] tensión de funcionamiento nominal      | 690 V AC 50/60 Hz para power circuit<br>≤ 690 V AC 50/60 Hz para signalling circuit                                                                                                                                                                                                                                                                       |
| [Ie] intensidad de funcionamiento nominal   | 6 A at ≤ 440 V AC AC-3 for power circuit                                                                                                                                                                                                                                                                                                                  |
| Control circuit type                        | DC standard                                                                                                                                                                                                                                                                                                                                               |
| [Uc] control circuit voltage                | 24 V DC                                                                                                                                                                                                                                                                                                                                                   |
| Motor power kW                              | 1.5 kW at 220...230 V AC 50/60 Hz AC-3<br>2.2 kW at 380...415 V AC 50/60 Hz AC-3<br>1.5 kW at 400 V AC 50/60 Hz AC-4<br>3 kW at 660...690 V AC 50/60 Hz AC-3<br>3 kW at 440 V AC 50/60 Hz AC-3<br>3 kW at 480 V AC 50/60 Hz AC-3<br>3 kW at 500...600 V AC 50/60 Hz AC-3                                                                                  |
| Auxiliary contact composition               | 1 NO                                                                                                                                                                                                                                                                                                                                                      |
| [Uimp] rated impulse withstand voltage      | 8 kV                                                                                                                                                                                                                                                                                                                                                      |
| Overvoltage category                        | III                                                                                                                                                                                                                                                                                                                                                       |
| [Ith] conventional free air thermal current | 20 A at ≤ 50 °C for power circuit<br>10 A at ≤ 50 °C for signalling circuit                                                                                                                                                                                                                                                                               |
| Irms rated making capacity                  | 110 A AC for power circuit conforming to NF C 63-110<br>110 A AC for power circuit conforming to IEC 60947<br>110 A AC for signalling circuit conforming to IEC 60947                                                                                                                                                                                     |
| Rated breaking capacity                     | 110 A at 415 V conforming to IEC 60947<br>110 A at 440 V conforming to IEC 60947<br>80 A at 500 V conforming to IEC 60947<br>110 A at 220...230 V conforming to IEC 60947<br>110 A at 380...400 V conforming to IEC 60947<br>70 A at 660...690 V conforming to IEC 60947                                                                                  |
| [Icw] rated short-time withstand current    | 20 A ≤ 50 °C ≥ 15 min power circuit<br>90 A ≤ 50 °C 1 s power circuit<br>85 A ≤ 50 °C 5 s power circuit<br>80 A ≤ 50 °C 10 s power circuit<br>60 A ≤ 50 °C 30 s power circuit<br>45 A ≤ 50 °C 1 min power circuit<br>40 A ≤ 50 °C 3 min power circuit<br>80 A 1 s signalling circuit<br>90 A 500 ms signalling circuit<br>110 A 100 ms signalling circuit |

|                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Associated fuse rating         | 25 A gG at ≤ 440 V for power circuit<br>25 A aM for power circuit<br>10 A gG for signalling circuit conforming to IEC 60947<br>10 A gG for signalling circuit conforming to VDE 0660                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Average impedance              | 3 mOhm at 50 Hz - lth 20 A for power circuit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| [Ui] rated insulation voltage  | 690 V for signalling circuit conforming to IEC 60947-4-1<br>690 V for signalling circuit conforming to IEC 60947-5-1<br>600 V for signalling circuit conforming to UL 508<br>600 V for power circuit conforming to CSA C22.2 No 14<br>600 V for signalling circuit conforming to CSA C22.2 No 14<br>690 V for power circuit conforming to IEC 60947-4-1<br>600 V for power circuit conforming to UL 508                                                                                                                                                                                                                  |
| Insulation resistance          | > 10 MOhm for signalling circuit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Inrush power in W              | 3 W at 20 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Hold-in power consumption in W | 3 W at 20 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Heat dissipation               | 3 W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Control circuit voltage limits | 0.8...1.15 Uc at ≤ 50 °C operational<br>0.1...0.75 Uc at ≤ 50 °C drop-out                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Conexiones - terminales        | Screw clamp terminals 1 cable(s) 1.5...4 mm <sup>2</sup> - cable stiffness: solid<br>Screw clamp terminals 1 cable(s) 0.75...4 mm <sup>2</sup> - cable stiffness: flexible - without cable end<br>Screw clamp terminals 1 cable(s) 0.34...2.5 mm <sup>2</sup> - cable stiffness: flexible - with cable end<br>Screw clamp terminals 2 cable(s) 1.5...4 mm <sup>2</sup> - cable stiffness: solid<br>Screw clamp terminals 2 cable(s) 0.75...4 mm <sup>2</sup> - cable stiffness: flexible - without cable end<br>Screw clamp terminals 2 cable(s) 0.34...1.5 mm <sup>2</sup> - cable stiffness: flexible - with cable end |
| Operating rate                 | 3600 cyc/h                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Auxiliary contacts type        | Type instantaneous (1 NO)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Minimum switching current      | 5 mA for signalling circuit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Minimum switching voltage      | 17 V for signalling circuit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Mounting support               | Plate<br>Rail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Tightening torque              | 1.3 N.m - on screw clamp terminals - with screwdriver Philips No 2<br>1.3 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Operating time                 | 10 ms coil de-energisation and NO opening<br>30...40 ms coil energisation and NO closing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Safety reliability level       | B10d = 1369863 Ciclos contactor with nominal load conforme a EN/ISO 13849-1<br>B10d = 20000000 Ciclos contactor with mechanical load conforme a EN/ISO 13849-1                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Non overlap distance           | 0.5 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Mechanical durability          | 10 Mcycles                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Durabilidad eléctrica          | 1.3 Mcycles 6 A AC-3 at Ue ≤ 440 V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Mechanical robustness          | Shocks contactor closed, on Z axis 15 Gn for 11 ms IEC 60068-2-27<br>Shocks contactor opened, on Z axis 10 Gn for 11 ms IEC 60068-2-27<br>Vibrations contactor closed 4 Gn, 5...300 Hz IEC 60068-2-6<br>Vibrations contactor opened 2 Gn, 5...300 Hz IEC 60068-2-6<br>Shocks contactor opened, on X axis 10 Gn for 11 ms IEC 60068-2-27<br>Shocks contactor opened, on Y axis 6 Gn for 11 ms IEC 60068-2-27<br>Shocks contactor closed, on X axis 15 Gn for 11 ms IEC 60068-2-27<br>Shocks contactor closed, on Y axis 10 Gn for 11 ms IEC 60068-2-27                                                                    |
| Profundidad                    | 57 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Peso del producto              | 0.225 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Power range                    | 0.55...1 kW 200...240 V 3 phases<br>0.55...1 kW 380...440 V 3 phases<br>0.55...1 kW 480...500 V 3 phases<br>1.1...2 kW 200...240 V 3 phases<br>1.1...2 kW 380...440 V 3 phases<br>2.2...3 kW 380...440 V 3 phases<br>2.2...3 kW 480...500 V 3 phases<br>0...0.5 kW 200...240 V 3 phases<br>0...0.5 kW 380...440 V 3 phases<br>0...0.5 kW 480...500 V 3 phases<br>1.1...2 kW 480...500 V 3 phases                                                                                                                                                                                                                         |
| Motor starter type             | Direct on-line contactor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Contactor coil voltage         | 24 V DC standard                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

## Ambiente

|                                        |                                                                                                              |
|----------------------------------------|--------------------------------------------------------------------------------------------------------------|
| Normas                                 | BS 5424<br>IEC 60947<br>NF C 63-110<br>VDE 0660                                                              |
| Certificaciones de producto            | UL<br>CSA                                                                                                    |
| IP degree of protection                | IP2x conforming to VDE 0106                                                                                  |
| Protective treatment                   | TC conforming to IEC 60068<br>TC conforming to DIN 50016                                                     |
| Temperatura ambiente de almacenamiento | -50...80 °C                                                                                                  |
| Operating altitude                     | 2000 m without derating in temperature                                                                       |
| Flame retardance                       | V1 conforming to UL 94<br>Requirement 2 conforming to NF F 16-101<br>Requirement 2 conforming to NF F 16-102 |

## Oferta sustentable

|                                  |                                                                                                                                    |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status         | Green Premium product                                                                                                              |
| RoHS (date code: YYWW)           | Compliant - since 0633 - 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>                                                                               |

## Garantía contractual

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