

# Product datasheet

Specifications



## TeSys SK - mini contactor - 2P (2 NO) - AC-1 - 690 V 12 A - 24 V DC coil

Local distributor code: 386285882    LP1SK0600BD

### Main

|                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product or component type                   | Mini contactor                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Device short name                           | LP1SK                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Contactor application                       | Resistive load                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Utilisation category                        | AC-1                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Power pole contact composition              | 2P                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Pole contact composition                    | 2 NO                                                                                                                                                                                                                                                                                                                                                                                                                              |
| [Ue] rated operational voltage              | Power circuit: 690 V AC 50/60 Hz                                                                                                                                                                                                                                                                                                                                                                                                  |
| [Ie] rated operational current              | 12 A (at <55 °C) AC AC-1                                                                                                                                                                                                                                                                                                                                                                                                          |
| Control circuit type                        | DC standard                                                                                                                                                                                                                                                                                                                                                                                                                       |
| [Uc] control circuit voltage                | 24 V DC                                                                                                                                                                                                                                                                                                                                                                                                                           |
| [Ith] conventional free air thermal current | 12 A (at 55 °C) for power circuit                                                                                                                                                                                                                                                                                                                                                                                                 |
| Irms rated making capacity                  | 66 A at 690 V AC conforming to IEC 60947<br>66 A at 690 V AC conforming to NF C 63-110                                                                                                                                                                                                                                                                                                                                            |
| Rated breaking capacity                     | 52 A at <= 400 V for power circuit conforming to NF C 63-110<br>52 A at <= 400 V for power circuit conforming to IEC 60947                                                                                                                                                                                                                                                                                                        |
| [Icw] rated short-time withstand current    | 50 A 55 °C for power circuit                                                                                                                                                                                                                                                                                                                                                                                                      |
| Associated fuse rating                      | 16 A gl at <= 440 V for power circuit conforming to IEC 60947                                                                                                                                                                                                                                                                                                                                                                     |
| Average impedance                           | 4 mOhm - Ith 12 A 50 Hz                                                                                                                                                                                                                                                                                                                                                                                                           |
| [Ui] rated insulation voltage               | 690 V conforming to IEC 60947<br>690 V conforming to VDE 0110 group C<br>690 V conforming to BS 5424<br>690 V conforming to UL 508<br>690 V conforming to CSA C22.2 No 14                                                                                                                                                                                                                                                         |
| Mounting support                            | Rail                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Standards                                   | VDE 0660<br>BS 5424<br>NF C 63-110<br>IEC 60947                                                                                                                                                                                                                                                                                                                                                                                   |
| Product certifications                      | CSA<br>UL                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Connections - terminals                     | Power circuit: connector 1 cable(s) 0.35...6 mm²flexible with cable end<br>Power circuit: connector 1 cable(s) 0.5...6 mm²flexible without cable end<br>Power circuit: connector 1 cable(s) 1.5...6 mm²solid<br>Power circuit: connector 2 cable(s) 0.35...1.5 mm²flexible with cable end<br>Power circuit: connector 2 cable(s) 0.35...2.5 mm²flexible without cable end<br>Power circuit: connector 2 cable(s) 1.5...4 mm²solid |

|                        |                                                                                            |
|------------------------|--------------------------------------------------------------------------------------------|
| Tightening torque      | 0.8 N.m - on connector - with screwdriver pozidriv No 1                                    |
| Operating time         | 4...6 ms coil de-energisation and NO opening<br>8...12 ms coil energisation and NO closing |
| Mechanical durability  | 10 Mcycles                                                                                 |
| Maximum operating rate | 1200 cyc/h                                                                                 |

### Complementary

|                                |                                                                               |
|--------------------------------|-------------------------------------------------------------------------------|
| Control circuit voltage limits | Operational: 0.85...1.1 Uc (at <50 °C)<br>Drop-out: 0.1...0.75 Uc (at <50 °C) |
| Inrush power in W              | 2.2 W (at 20 °C)                                                              |
| Hold-in power consumption in W | 2.2 W at 20 °C                                                                |
| Heat dissipation               | 2.2 W                                                                         |

### Environment

|                                       |                                                          |
|---------------------------------------|----------------------------------------------------------|
| IP degree of protection               | IP2x conforming to VDE 0106                              |
| Protective treatment                  | TC conforming to IEC 60068<br>TC conforming to DIN 50015 |
| Ambient air temperature for operation | -20...50 °C                                              |
| Ambient air temperature for storage   | -50...70 °C                                              |
| Operating altitude                    | 2000 m without derating                                  |
| Height                                | 56 mm                                                    |
| Width                                 | 27 mm                                                    |
| Depth                                 | 55.5 mm                                                  |
| Net weight                            | 0.132 kg                                                 |

### Packing Units

|                              |          |
|------------------------------|----------|
| Unit Type of Package 1       | PCE      |
| Number of Units in Package 1 | 1        |
| Package 1 Weight             | 122.0 g  |
| Package 1 Height             | 3.3 cm   |
| Package 1 width              | 5.9 cm   |
| Package 1 Length             | 6.7 cm   |
| Unit Type of Package 2       | S01      |
| Number of Units in Package 2 | 40       |
| Package 2 Weight             | 5.174 kg |
| Package 2 Height             | 15 cm    |
| Package 2 width              | 15 cm    |
| Package 2 Length             | 40 cm    |

### 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>                                                                               |
| WEEE                        | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |
| <b>Contractual warranty</b> |                                                                                                                             |
| Warranty                    | 18 months                                                                                                                   |