

# LP1SK0600ED

TeSys SK - mini contactor - 2P (2 NO) - AC-1 - 690 V 12 A - 48 V DC coil



## Main

|                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|---------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range                                       | TeSys                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Product or component type                   | Mini contactor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Device short name                           | LP1SK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Contactor application                       | Resistive load                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Utilisation category                        | AC-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Poles description                           | 2P                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Pole contact composition                    | 2 NO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| [Ue] rated operational voltage              | 690 V AC 50/60 Hz for power circuit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| [Ie] rated operational current              | 12 A ( $\leq 55^{\circ}\text{C}$ ) AC AC-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Control circuit type                        | DC standard                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| [Uc] control circuit voltage                | 48 V DC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| [Ith] conventional free air thermal current | 12 A at $\leq 55^{\circ}\text{C}$ 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 $\leq 400\text{ V}$ for power circuit conforming to NF C 63-110<br>52 A at $\leq 400\text{ V}$ for power circuit conforming to IEC 60947                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| [Icw] rated short-time withstand current    | 50 A $\leq 55^{\circ}\text{C}$ power circuit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Associated fuse rating                      | 16 A gI at $\leq 440\text{ V}$ for power circuit conforming to IEC 60947                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Average impedance                           | 4 mOhm at 50 Hz - Ith 12 A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| [Ui] rated insulation voltage               | 690 V conforming to BS 5424<br>690 V conforming to IEC 60947<br>690 V conforming to VDE 0110 group C<br>690 V conforming to UL 508<br>690 V conforming to CSA C22.2 No 14                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Mounting support                            | Rail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Standards                                   | BS 5424<br>IEC 60947<br>NF C 63-110<br>VDE 0660                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Product certifications                      | CSA<br>UL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Connections - terminals                     | Power circuit : connector 1 cable(s) 0.35...6 mm <sup>2</sup> - cable stiffness: flexible - with cable end<br>Power circuit : connector 1 cable(s) 0.5...6 mm <sup>2</sup> - cable stiffness: flexible - without cable end<br>Power circuit : connector 1 cable(s) 1.5...6 mm <sup>2</sup> - cable stiffness: solid<br>Power circuit : connector 2 cable(s) 0.35...1.5 mm <sup>2</sup> - cable stiffness: flexible - with cable end<br>Power circuit : connector 2 cable(s) 0.35...2.5 mm <sup>2</sup> - cable stiffness: flexible - without cable end<br>Power circuit : connector 2 cable(s) 1.5...4 mm <sup>2</sup> - cable stiffness: solid |
| 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Operating rate                              | 1200 cyc/h                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

The information provided in this documentation contains general descriptions and/or technical characteristics of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

## Complementary

|                                |                                                                                                   |
|--------------------------------|---------------------------------------------------------------------------------------------------|
| Control circuit voltage limits | 0.85...1.1 U <sub>c</sub> at ≤ 50 °C operational<br>0.1...0.75 U <sub>c</sub> at ≤ 50 °C drop-out |
| 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 in temperature                   |
| height                                | 56 mm                                                    |
| width                                 | 27 mm                                                    |
| depth                                 | 55.5 mm                                                  |
| product weight                        | 0.132 kg                                                 |

## Offer Sustainability

|                                  |                                                                       |
|----------------------------------|-----------------------------------------------------------------------|
| Sustainable offer status         | Green Premium product                                                 |
| RoHS (date code: YYWW)           | Compliant - since 0718 - Schneider Electric declaration of conformity |
| REACH                            | Reference not containing SVHC above the threshold                     |
| Product environmental profile    | Available                                                             |
| Product end of life instructions | Need no specific recycling operations                                 |