

# Product datasheet

Specifications



## TeSys SK mini contactor - 2P (2 NO) - AC-3 - 690 V 6 A - 42 V AC coil

LC1SK0600D7

⚠ Discontinued on: 1 Nov 2020

⚠ Discontinued

### Main

|                                |                                                     |
|--------------------------------|-----------------------------------------------------|
| Range                          | TeSys                                               |
| Product name                   | TeSys SK                                            |
| Product or component type      | Mini contactor                                      |
| Device short name              | LC1SK                                               |
| Contactor application          | Motor control<br>Resistive load                     |
| Utilisation category           | AC-3<br>AC-1                                        |
| power pole contact composition | 2P                                                  |
| Pole contact composition       | 2 NO                                                |
| [Ie] rated operational current | 6 A at <= 440 V AC AC-3<br>12 A (at <55 °C) AC AC-1 |
| [Ue] rated operational voltage | Power circuit: 690 V AC 50/60 Hz                    |

### Complementary

|                                             |                                                                                                                                                                           |
|---------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Control circuit type                        | AC at 50/60 Hz                                                                                                                                                            |
| [Uc] control circuit voltage                | 42 V AC 50/60 Hz                                                                                                                                                          |
| [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 gI 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 |
| safety cover                                | With                                                                                                                                                                      |
| Mounting support                            | Rail                                                                                                                                                                      |
| Standards                                   | EN/IEC 60947-4-1<br>UL 60947-4-1<br>CSA C22.2 No 60947-4-1                                                                                                                |

Disclaimer: 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

|                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product certifications          | CB Scheme<br>CE<br>UKCA<br>EAC<br>cULus                                                                                                                                                                                                                                                                                                                                                                                           |
| 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                  | 6...8 ms coil de-energisation and NO opening<br>7...14 ms coil energisation and NO closing                                                                                                                                                                                                                                                                                                                                        |
| Mechanical durability           | 10 Mcycles                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Maximum operating rate          | 1200 cyc/h                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Control circuit voltage limits  | Operational: 0.85...1.1 Uc (at <50 °C)<br>Drop-out: 0.2...0.75 Uc (at <50 °C)                                                                                                                                                                                                                                                                                                                                                     |
| Inrush power in VA              | 16 VA (at 20 °C)                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Hold-in power consumption in VA | 4.2 VA (at 20 °C)                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Heat dissipation                | 1.4 W at 50/60 Hz                                                                                                                                                                                                                                                                                                                                                                                                                 |

## 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 Height             | 3.3 cm |
| Package 1 Width              | 6.7 cm |
| Package 1 Length             | 5.9 cm |
| Package 1 Weight             | 121 g  |

## Contractual warranty

|                      |    |
|----------------------|----|
| Warranty (in months) | 18 |
|----------------------|----|



## Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

### Use Better

|                                   |           |
|-----------------------------------|-----------|
| <b>Materials and Substances</b>   |           |
| <a href="#">EU RoHS Directive</a> | Compliant |

### Use Longer

|                           |    |
|---------------------------|----|
| <b>Lifetime extension</b> |    |
| Repair                    | No |

### Use Again

|                                 |                                                                                                                             |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| <b>Repack and remanufacture</b> |                                                                                                                             |
| WEEE Label                      | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |