

# Product datasheet

Specifications



## TeSys SK mini contactor - 3P (3 NO) - AC-3 - 690 V 9 A - 400 V AC coil

LC1SKGC310V7

⚠ Discontinued on: 30 Dec 2019

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### Main

|                                |  |
|--------------------------------|--|
| Range                          | TeSys  |
| Product name                   | TeSys SK   |
| Product or component type      | Mini contactor   |
| Device short name              | LC1SKGC  |
| Contactors application         | Resistive load<br>Motor control  |
| Utilisation category           | AC-3<br>AC-1   |
| power pole contact composition | 3P   |
| Pole contact composition       | 3 NO   |
| Auxiliary contact composition  | 1 NO   |
| [Ie] rated operational current | 20 A (at <50 °C) AC AC-1<br>9 A at <= 400 V AC AC-3                        |
| [Ue] rated operational voltage | Power circuit: 690 V AC 50/60 Hz<br>Signalling circuit: 690 V AC <= 400 Hz |

### Complementary

|   |  |
|---|--|
| Control circuit type                        | AC at 50/60 Hz   |
| [Uc] control circuit voltage                | 400 V AC 50/60 Hz  |
| Motor power kW                              | 4 kW at 380...415 V AC 50/60 Hz<br>4 kW at 660...690 V AC 50/60 Hz<br>1.1 kW at 220...230 V AC 50/60 Hz  |
| [Ith] conventional free air thermal current | 20 A (at 55 °C) for power circuit<br>10 A (at 55 °C) for signalling circuit  |
| Irms rated making capacity                  | 85 A AC conforming to NF C 63-110<br>85 A AC conforming to IEC 60947   |
| Rated breaking capacity                     | 68 A at <= 400 V conforming to NF C 63-110<br>68 A at <= 400 V conforming to IEC 60947   |
| [Icw] rated short-time withstand current    | 60 A 55 °C for power circuit   |
| Associated fuse rating                      | 20 A gI at <= 440 V for power circuit<br>10 A gI for signalling circuit conforming to IEC 60947<br>10 A gI for signalling circuit conforming to VDE 0660   |
| Average impedance                           | 4 mOhm - Ith 20 A 50 Hz for power circuit  |
| [Ui] rated insulation voltage               | Power circuit: 690 V conforming to BS 5424<br>Power circuit: 690 V conforming to IEC 60947<br>Power circuit: 690 V conforming to UL 508<br>Power circuit: 690 V conforming to VDE 0110 group C<br>Power circuit: 690 V conforming to CSA C22.2 No 14 |

|  |   |
|--|---|
| <b>Mounting support</b>                | Rail<br>Panel   |
| <b>Standards</b>                       | EN/IEC 60947-4-1<br>UL 60947-4-1<br>CSA C22.2 No 60947-4-1  |
| <b>Product certifications</b>          | CB Scheme<br>CE<br>UKCA<br>EAC<br>cULus   |
| <b>Connections - terminals</b>         | Connector 1 cable(s) 1.5...6 mm <sup>2</sup> solid<br>Connector 2 cable(s) 1.5...4 mm <sup>2</sup> solid<br>Connector 1 cable(s) 0.5...6 mm <sup>2</sup> flexible without cable end<br>Connector 2 cable(s) 0.35...2.5 mm <sup>2</sup> flexible without cable end<br>Connector 1 cable(s) 0.35...6 mm <sup>2</sup> flexible with cable end<br>Connector 2 cable(s) 0.35...1.5 mm <sup>2</sup> flexible with cable end |
| <b>Tightening torque</b>               | Power circuit: 0.8 N.m - on connector - with screwdriver pozidriv No 1  |
| <b>Operating time</b>                  | 6...8 ms coil de-energisation and NO opening<br>7...14 ms coil energisation and NO closing  |
| <b>Mechanical durability</b>           | 10 Mcycles  |
| <b>Maximum operating rate</b>          | 1200 cyc/h  |
| <b>Control circuit voltage limits</b>  | Operational: 0.85...1.1 U <sub>c</sub> at 50/60 Hz (at <55 °C)<br>Drop-out: 0.2...0.75 U <sub>c</sub> at 50/60 Hz (at <55 °C)   |
| <b>Inrush power in VA</b>              | 23 VA 50/60 Hz (at 20 °C)   |
| <b>Hold-in power consumption in VA</b> | 4.9 VA 50/60 Hz (at 20 °C)  |
| <b>Heat dissipation</b>                | 1.5 W at 50/60 Hz   |
| <b>Signalling circuit frequency</b>    | <= 400 Hz   |

## Environment

|  |  |
|--|--|
| <b>IP degree of protection</b>               | IP2X conforming to VDE 0106                              |
| <b>Protective treatment</b>                  | TC conforming to IEC 60068<br>TC conforming to DIN 50015 |
| <b>Ambient air temperature for operation</b> | -20...50 °C  |
| <b>Ambient air temperature for storage</b>   | -50...70 °C  |
| <b>Operating altitude</b>                    | 2000 m without derating                                  |
| <b>Height</b>                                | 58 mm  |
| <b>Width</b>                                 | 45 mm  |
| <b>Depth</b>                                 | 56 mm  |
| <b>Net weight</b>                            | 0.175 kg   |

## Packing Units

|                                     |        |
|-------------------------------------|--------|
| <b>Unit Type of Package 1</b>       | PCE    |
| <b>Number of Units in Package 1</b> | 1      |
| <b>Package 1 Height</b>             | 6.4 cm |
| <b>Package 1 Width</b>              | 6 cm   |
| <b>Package 1 Length</b>             | 4.8 cm |
| <b>Package 1 Weight</b>             | 175 g  |

## Contractual warranty





## 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



#### Materials and Substances

EU RoHS Directive

[Compliant](#)

### Use Longer



#### Lifetime extension

Repair

No

### Use Again



#### Repack and remanufacture

WEEE Label



The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins