

# Product datasheet

Specifications



## Mini contactor, TeSys SK, 3P(3NO), AC-3, 690V 9A, 230V AC coil

LC1SKGC301P7

⚠ Discontinued on: 9 Feb 2023

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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 Motor control
Utilisation category	AC-3 AC-1
power pole contact composition	3P
Pole contact composition	3 NO
Auxiliary contact composition	1 NC
[Ie] rated operational current	20 A (at <50 °C) AC AC-1 9 A at <= 400 V AC AC-3
[Ue] rated operational voltage	Power circuit: 690 V AC 50/60 Hz Signalling circuit: 690 V AC <= 400 Hz

### Complementary

Control circuit type	AC at 50/60 Hz
[Uc] control circuit voltage	230 V AC 50/60 Hz
Motor power kW	4 kW at 380...415 V AC 50/60 Hz 4 kW at 660...690 V AC 50/60 Hz 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 10 A (at 55 °C) for signalling circuit
Irms rated making capacity	85 A AC conforming to NF C 63-110 85 A AC conforming to IEC 60947
Rated breaking capacity	68 A at <= 400 V conforming to NF C 63-110 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 10 A gI for signalling circuit conforming to IEC 60947 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 Power circuit: 690 V conforming to IEC 60947 Power circuit: 690 V conforming to UL 508 Power circuit: 690 V conforming to VDE 0110 group C Power circuit: 690 V conforming to CSA C22.2 No 14

<b>Mounting support</b>	Panel Rail
<b>Standards</b>	EN/IEC 60947-4-1 UL 60947-4-1 CSA C22.2 No 60947-4-1
<b>Product certifications</b>	CB Scheme CE UKCA EAC cULus
<b>Connections - terminals</b>	Connector 1 cable(s) 1.5...6 mm <sup>2</sup> solid Connector 2 cable(s) 1.5...4 mm <sup>2</sup> solid Connector 1 cable(s) 0.5...6 mm <sup>2</sup> flexible without cable end Connector 2 cable(s) 0.35...2.5 mm <sup>2</sup> flexible without cable end Connector 1 cable(s) 0.35...6 mm <sup>2</sup> flexible with cable end 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 7...14 ms coil energisation and NO closing 8...16 ms coil energisation and NC opening 8...10 ms coil de-energisation and NC 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) 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 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>	4.800 cm
<b>Package 1 Width</b>	6.200 cm
<b>Package 1 Length</b>	6.000 cm
<b>Package 1 Weight</b>	167.000 g

<b>Unit Type of Package 2</b>	S01
<b>Number of Units in Package 2</b>	28
<b>Package 2 Height</b>	15.000 cm
<b>Package 2 Width</b>	15.000 cm
<b>Package 2 Length</b>	40.000 cm
<b>Package 2 Weight</b>	4.862 kg

## **Contractual warranty**

<b>Warranty (in months)</b>	18
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## 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 >](#)



### Environmental footprint

Total lifecycle Carbon footprint	63 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	0.9 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.1 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	62 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	0.3 kg CO2 eq.

## Use Better



### Materials and Substances

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
SCIP Number	C39a7e5e-6a28-4540-b3bb-b5a727bdce6a

## Use Longer




### Lifetime extension

Repair	No
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## Use Again



### Repack and remanufacture

Recyclability potential, in %	64
End of life manual availability	<a href="#">End of Life Information</a>
Take-back	No
WEEE Label	 The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Technical Illustration

Assembly's dimensions

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