

# Product datasheet

Specifications

## TeSys K - star delta starter - 3 x 3P (3 NO) - 9 A - 24 V AC coil



LC3K09B7

⚠ Discontinued on: 1 Nov 2020

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### Main

Range	TeSys
Product name	TeSys K
Product or component type	Star delta starter
Device short name	LC3K
Contactors application	Motor control
Utilisation category	AC-3
Device presentation	Pre-wired
Poles description	3 x 3P
power pole contact composition	3 x 3 NO
[Ue] rated operational voltage	Power circuit: $\leq 690$ V AC 25...400 Hz
[Ie] rated operational current	9 A (at $\leq 50$ °C) at $\leq 440$ V AC AC-3 for power circuit
Motor power kW	4 kW at 220/230 V AC 50/60 Hz 7.5 kW at 380/400 V AC 50/60 Hz 7.5 kW at 415 V AC 50/60 Hz 7.5 kW at 440 V AC 50/60 Hz
Control circuit type	AC at 50/60 Hz
[Uc] control circuit voltage	24 V AC 50/60 Hz
Auxiliary contact composition	1 NC for KM1 star contactor
[Uimp] rated impulse withstand voltage	8 kV
Oversvoltage category	III
[Ui] rated insulation voltage	Power circuit: 750 V conforming to VDE 0110 group C Power circuit: 690 V conforming to IEC 60947 Power circuit: 690 V conforming to BS 5424 Power circuit: 690 V conforming to NF C 20-040 Power circuit: 600 V CSA 22-2 certified Power circuit: 600 V UL 508 certified Signalling circuit: 750 V conforming to VDE 0110 group C Signalling circuit: 690 V conforming to IEC 60947 Signalling circuit: 690 V conforming to BS 5424 Signalling circuit: 690 V conforming to NF C 20-040 Signalling circuit: 600 V CSA 22-2 certified Signalling circuit: 600 V UL 508 certified
Electrical durability	1.3 Mcycles 9 A AC-3 at $U_e \leq 440$ V
Interlocking type	Mechanical
Mounting support	Rail
Standards	NF C 63-110 IEC 60947 VDE 0660

## Complementary

<b>Connections - terminals</b>	Screw clamp terminals 1 1.5...4 mm <sup>2</sup> - cable stiffness: solid Screw clamp terminals 1 0.75...4 mm <sup>2</sup> - cable stiffness: flexible without cable end Screw clamp terminals 1 0.34...2.5 mm <sup>2</sup> - cable stiffness: flexible with cable end Screw clamp terminals 2 1.5...4 mm <sup>2</sup> - cable stiffness: solid Screw clamp terminals 2 0.75...4 mm <sup>2</sup> - cable stiffness: flexible without cable end Screw clamp terminals 2 0.34...1.5 mm <sup>2</sup> - cable stiffness: flexible with cable end
<b>Tightening torque</b>	0.8...1.3 N.m - on screw clamp terminals Philips No 2 0.8...1.3 N.m - on screw clamp terminals flat Ø 6 mm
<b>Mechanical durability</b>	10 Mcycles
<b>Maximum operating rate</b>	12 cyc/h 60 °C
<b>Starting time</b>	30 s
<b>Coil technology</b>	Without built-in suppressor module
<b>Control circuit voltage limits</b>	Operational: 0.8...1.15 U <sub>c</sub> (at <50 °C) Drop-out: 0.2...0.75 U <sub>c</sub> (at <50 °C)
<b>Inrush power in VA</b>	30 VA (at 20 °C)
<b>Hold-in power consumption in VA</b>	4.5 VA (at 20 °C)
<b>Heat dissipation</b>	1.3 W
<b>Auxiliary contacts type</b>	Mechanically linked conforming to IEC 60947-5-1 3 x 1 NO + 1 NC Mirror contact conforming to IEC 60947-4-1 3 x 1 NC
<b>Minimum switching current</b>	5 mA for signalling circuit
<b>minimum switching voltage</b>	17 V for signalling circuit
<b>Width</b>	150 mm
<b>Height</b>	110 mm
<b>Depth</b>	94 mm
<b>Net weight</b>	0.74 kg

## Environment

<b>Insulation resistance</b>	> 10 MOhm for signalling circuit
<b>IP degree of protection</b>	IP20 conforming to VDE 0106
<b>Protective treatment</b>	TC conforming to IEC 60068 TC conforming to DIN 50016
<b>Ambient air temperature for storage</b>	-50...80 °C
<b>Operating altitude</b>	2000 m without derating
<b>Flame retardance</b>	V1 conforming to UL 94 Requirement 2 conforming to NF F 16-101 Requirement 2 conforming to NF F 16-102
<b>Mechanical robustness</b>	Vibrations contactor open: 2 Gn, 5...300 Hz Vibrations contactor closed: 4 Gn, 5...300 Hz Shocks contactor closed, on X axis: 10 Gn for 11 ms Shocks contactor opened, on X axis: 6 Gn for 11 ms Shocks contactor closed, on Y axis: 15 Gn for 11 ms Shocks contactor opened, on Y axis: 10 Gn for 11 ms Shocks contactor closed, on Z axis: 15 Gn for 11 ms Shocks contactor opened, on Z axis: 10 Gn for 11 ms

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	8.5 cm

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Package 1 Width	10.5 cm
Package 1 Length	18.5 cm
Package 1 Weight	900 g

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## Contractual warranty

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Warranty (in months)	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

[Environmental Disclosure](#)

[Product Environmental Profile](#)

## 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