

# Product data sheet

## Characteristics

# LC3K09P7

TeSys K - star delta starter - 3 x 3P (3 NO) - 9 A - 230 V AC coil



## Main

Range	TeSys
Product name	TeSys K
Product or component type	Star delta starter
Device short name	LC3K
Contactor 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: ≤ 690 V AC 25...400 Hz
[Ie] rated operational current	9 A (at ≤ 50 °C) at ≤ 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	230 V AC 50/60 Hz
Auxiliary contact composition	1 NC for KM1 star contactor
[Uimp] rated impulse withstand voltage	8 kV
Overvoltage 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 Ue ≤ 440 V
Interlocking type	Mechanical
Mounting support	Rail
Standards	IEC 60947 NF C 63-110 VDE 0660

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## Complementary

Connections - terminals	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
Tightening torque	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 0.8...1.3 N.m - on screw clamp terminals pozidriv No 2
Mechanical durability	10 Mcycles
Maximum operating rate	12 cyc/h 60 °C
Starting time	30 s
Coil technology	Without built-in suppressor module
Control circuit voltage limits	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)
Inrush power in VA	30 VA (at 20 °C)
Hold-in power consumption in VA	4.5 VA (at 20 °C)
Heat dissipation	1.3 W
Auxiliary contacts type	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
Minimum switching current	5 mA for signalling circuit
Minimum switching voltage	17 V for signalling circuit
Width	150 mm
Height	110 mm
Depth	94 mm
Net weight	0.74 kg

## Environment

Insulation resistance	> 10 MOhm for signalling circuit
IP degree of protection	IP20 conforming to VDE 0106
Protective treatment	TC conforming to IEC 60068 TC conforming to DIN 50016
Ambient air temperature for storage	-50...80 °C
Operating altitude	2000 m without derating
Flame retardance	V1 conforming to UL 94 Requirement 2 conforming to NF F 16-101 Requirement 2 conforming to NF F 16-102
Mechanical robustness	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

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	8.5 cm
Package 1 Width	10.5 cm
Package 1 Length	18.5 cm
Package 1 Weight	900.0 g

## Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	<a href="#">REACH Declaration</a>
REACH free of SVHC	Yes
EU RoHS Directive	Compliant <a href="#">EU RoHS Declaration</a>
Toxic heavy metal free	Yes
Mercury free	Yes
China RoHS Regulation	<a href="#">China RoHS Declaration</a>
RoHS exemption information	<a href="#">Yes</a>
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Circularity Profile	<a href="#">End Of Life Information</a>
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

## Contractual warranty

Warranty	18 months
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