## **Product datasheet**

Specifications



## TeSys K contactor - 3P - AC-3 <= 440 V 12 A - 1 NC aux. - 42 V AC coil

Local distributor code: 402893831 LC1K1201D7

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Range	TeSys	
Product or component type	Contactor	
Product name	TeSys K	
Device short name	LC1K	
Device application	Control	
Contactor application	Motor control Resistive load	
Complementary		
Utilisation category	AC-3 AC-1 AC-4	
Poles description	3P	
Power pole contact composition	3 NO	
[le] rated operational current	20 A (at <50 °C) at <= 440 V AC AC-1 for power circuit 12 A at <= 440 V AC AC-3 for power circuit 16 A (at <70 °C) at 690 V AC AC-1 for power circuit	
Control circuit type	AC at 50/60 Hz	
[Uc] control circuit voltage	42 V AC 50/60 Hz	
Motor power kW	4 kW at 480 V AC 50/60 Hz AC-3 4 kW at 500600 V AC 50/60 Hz AC-3 4 kW at 660690 V AC 50/60 Hz AC-3 2.2 kW at 400 V AC 50/60 Hz AC-4 3 kW at 220230 V AC 50/60 Hz AC-3 5.5 kW at 380415 V AC 50/60 Hz AC-3 5.5 kW at 440 V AC 50/60 Hz AC-3	
Auxiliary contact composition	1 NC	
Overvoltage category	III	
[Ith] conventional free air thermal current	20 A (at 50 °C) for power circuit 10 A (at 50 °C) for signalling circuit	
Irms rated making capacity	110 A AC for signalling circuit conforming to IEC 60947 144 A AC for power circuit conforming to NF C 63-110 144 A AC for power circuit conforming to IEC 60947	
Rated breaking capacity	110 A at 440 V conforming to IEC 60947 80 A at 500 V conforming to IEC 60947 70 A at 660690 V conforming to IEC 60947	
Associated fuse rating	25 A gG at <= 440 V for power circuit 25 A aM for power circuit 10 A gG for signalling circuit conforming to IEC 60947 10 A gG for signalling circuit conforming to VDE 0660	

Average impedance	3 mOhm - Ith 20 A 50 Hz for power circuit	
Insulation resistance	> 10 MOhm for signalling circuit	
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	
Control circuit voltage limits	Operational: 0.81.15 Uc (at <50 °C) Drop-out: 0.20.75 Uc (at <50 °C)	
Maximum operating rate	3600 cyc/h	
Auxiliary contacts type	type instantaneous 1 NC	
Signalling circuit frequency	<= 400 Hz	
Minimum switching current	5 mA for signalling circuit	
Minimum switching voltage	17 V for signalling circuit	
Operating time	1020 ms coil de-energisation and NO opening 1020 ms coil energisation and NO closing	
Safety reliability level	B10d = 1369863 cycles contactor with nominal load conforming to EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load conforming to EN/ISO 13849-1	
Non overlap distance	0.5 mm	
Mechanical robustness	Shocks contactor closed, on X axis: 10 Gn for 11 ms conforming to IEC 60068-2-27 Shocks contactor closed, on Y axis: 15 Gn for 11 ms conforming to IEC 60068-2-27 Shocks contactor closed, on Z axis: 15 Gn for 11 ms conforming to IEC 60068-2-27 Shocks contactor opened, on X axis: 6 Gn for 11 ms conforming to IEC 60068-2-27 Shocks contactor opened, on Y axis: 10 Gn for 11 ms conforming to IEC 60068-2-27 Shocks contactor opened, on Z axis: 10 Gn for 11 ms conforming to IEC 60068-2-27 Vibrations contactor closed: 4 Gn, 5300 Hz conforming to IEC 60068-2-6 Vibrations contactor opened: 2 Gn, 5300 Hz conforming to IEC 60068-2-6	
Environment		
Product certifications	CSA UL UKCA	
Protective treatment	TC conforming to IEC 60068 TC conforming to DIN 50016	
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	
Packing Units		
Unit Type of Package 1	PCE	
Number of Units in Package 1	1	
Package 1 Weight	180.0 g	
Package 1 Height	6.6 cm	
Package 1 width	4.8 cm	

Unit Type of Package 2

Number of Units in Package 2 1

Package 2 Weight 635.0 g

6.2 cm

S02

Package 2 Height 15 cm

Package 2 width 30 cm

Package 2 Length 40 cm

## Offer Sustainability

Sustainable offer status	Green Premium product	
REACh Regulation	REACh Declaration	
REACh free of SVHC	Yes	
EU RoHS Directive	Compliant EU RoHS Declaration	
Toxic heavy metal free	Yes	
Mercury free	Yes	
RoHS exemption information	Yes	
China RoHS Regulation	China RoHS declaration Pro-active China RoHS declaration (out of China RoHS legal scope)	
Environmental Disclosure	Product Environmental Profile	
Circularity Profile	End of Life Information	
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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