Product datasheet

Specification





TeSys K contactor - 3P - AC-3 <= 440 V 9 A - 1 NC aux. - 220...230 V AC coil

LC1K0901M7

Main

Mairi		
Range	TeSys	
Product or component type	e Contactor	
Device short name	LC1K	
Device application	Control	
contactor application	Motor control Resistive load	
Complementary		
Utilisation category	AC-3 AC-3e AC-1 AC-4	
poles description	3P	
power pole contact composition 3 NO		
[Ue] rated operational voltage	Power circuit: <= 690 V AC <= 400 Hz Signalling circuit: <= 690 V AC <= 400 Hz	
[le] rated operational current	9 A (at <60 °C) at <= 440 V AC AC-3 for power circuit 9 A (at <60 °C) at <= 440 V AC AC-3e for power circuit 20 A (at <60 °C) at <= 690 V AC AC-1 for power circuit	
Control circuit type	AC at 50/60 Hz	
[Uc] control circuit voltage	220230 V AC 50/60 Hz	
Motor power kW	2.2 kW at 220230 V AC 50/60 Hz AC-3 4 kW at 380415 V AC 50/60 Hz AC-3 4 kW at 440/690 V AC 50/60 Hz AC-3 2.2 kW at 220230 V AC 50/60 Hz AC-3e 4 kW at 380415 V AC 50/60 Hz AC-3e 4 kW at 440/690 V AC 50/60 Hz AC-3e 2.2 kW at 220230 V AC 50/60 Hz AC-4 4 kW at 380415 V AC 50/60 Hz AC-4 4 kW at 380415 V AC 50/60 Hz AC-4 4 kW at 440/690 V AC 50/60 Hz AC-4	
Auxiliary contact composition	1 NC	
[Uimp] rated impulse withstand voltage	8 kV	
Overvoltage category	III	
[Ith] conventional free air thermal current	20 A (at 60 °C) for power circuit 10 A (at 50 °C) for signalling circuit	
Irms rated making capacity	110 A AC for power circuit conforming to IEC 60947	

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

110 A AC for power circuit conforming to IEC 60947 110 A AC for signalling circuit conforming to IEC 60947

Rated breaking capacity	110 A at 220230 V conforming to IEC 60947 110 A at 380400 V conforming to IEC 60947 110 A at 415 V conforming to IEC 60947 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	
[Icw] rated short-time withstand current	90 A 50 °C - 1 s for power circuit 85 A 50 °C - 5 s for power circuit 80 A 50 °C - 10 s for power circuit 60 A 50 °C - 30 s for power circuit 45 A 50 °C - 1 min for power circuit 45 A 50 °C - 1 min for power circuit 40 A 50 °C - 3 min for power circuit 20 A 50 °C ->= 15 min for power circuit 80 A - 1 s for signalling circuit 90 A - 500 ms for signalling circuit 110 A - 100 ms for signalling circuit	
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 Uc (at <50 °C)	
Connections - terminals	Screw clamp terminals 1 cable(s) 1.54 mm²solid Screw clamp terminals 1 cable(s) 0.754 mm²flexible without cable end Screw clamp terminals 1 cable(s) 0.342.5 mm²flexible with cable end Screw clamp terminals 2 cable(s) 1.54 mm²solid Screw clamp terminals 2 cable(s) 0.754 mm²flexible without cable end Screw clamp terminals 2 cable(s) 0.341.5 mm²flexible with cable end	
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 durability	10 Mcycles	
Electrical durability	1.3 Mcycles 9 A AC-3 at Ue <= 440 V 1.3 Mcycles 9 A AC-3e at Ue <= 440 V 0.16 Mcycles 20 A AC-1 at Ue <= 690 V 0.02 Mcycles 54 A AC-4 at Ue <= 440 V	
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	
Height	58 mm	

Width	45 mm
Depth	57 mm

Environment

Standards	EN/IEC 60947-4-1 GB/T 14048.4 UL 60947-4-1 CSA C22.2 No 60947-4-1 JIS C8201-4-1	
Product certifications	CB Scheme CCC UL CSA EAC CE	
Protective treatment	TC conforming to IEC 60068 TC conforming to DIN 50016	
Operating altitude	g 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 Height	5.000 cm	
Package 1 Width	6.200 cm	
Package 1 Length	6.500 cm	
Package 1 Weight 177.500 g		
Unit Type of Package 2	S02	
Number of Units in Package 2	50	
Package 2 Height	15.000 cm	
Package 2 Width	30.000 cm	
Package 2 Length	40.000 cm	
Package 2 Weight	9.132 kg	
Unit Type of Package 3	P06	
Number of Units in Package 3	800	
Package 3 Height	75.000 cm	
Package 3 Width	80.000 cm	
Package 3 Length	60.000 cm	
Package 3 Weight	154.160 kg	

Contractual warranty

Warranty 18 months

Sustainability Green Premium

Green PremiumTM **label** is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >





Transparency RoHS/REACh

Well-being performance

⊘	Reach Free Of Svhc	
⊘	Toxic Heavy Metal Free	
⊘	Mercury Free	
⊘	Rohs Exemption Information	Yes

Certifications & Standards

Reach Regulation	REACh Declaration
Eu Rohs Directive	Compliant EU RoHS Declaration
China Rohs Regulation	China RoHS declaration Pro-active China RoHS declaration (out of China RoHS legal scope)
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
Circularity Profile	End of Life Information