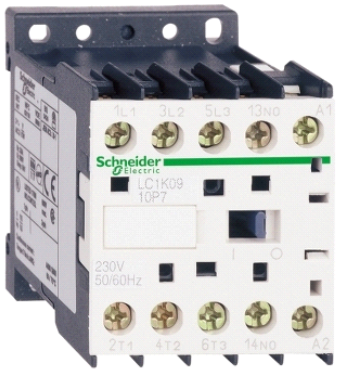
Product datasheet
Characteristics

LC1K0910P7TQ
contactor TeSys LC1-K - 3 poles - AC-3 440V 9 A - coil 230 V AC



Main

Range of product	TeSys K
Range	TeSys
Product or component type	Contactor
Device short name	LC1K
Contactor application	Motor control Resistive load
Utilisation category	AC-1 AC-3 AC-4
Control circuit type	AC
Coil type	AC 50/60 Hz
Poles description	3P
Pole contact composition	3 NO
[Ie] rated operational current	20 A (<= 50 °C) AC AC-1 for power circuit 9 A (<= 60 °C) at <= 440 V AC AC-3 for power circuit
Motor power kW	2.2 kW at 400 V AC 50/60 Hz AC-4 2.2 kW at 220...230 V AC 50/60 Hz AC-3 4 kW at 440/500 V AC 50/60 Hz AC-3 4 kW at 660/690 V AC 50/60 Hz AC-3 4 kW at 380...415 V AC 50/60 Hz AC-3
Motor power hp	5 hp at 575/600 V AC 60 Hz 2 hp at 200/208 V AC 60 Hz 3 hp at 230/240 V AC 60 Hz 5 hp at 460/480 V AC 60 Hz
Auxiliary contact composition	1 NO
[Uc] control circuit voltage	230 V AC 50/60 Hz
Connections - terminals	Screw clamp terminal 1 cable 0.75...4 mm² - cable stiffness: flexible - without cable end Screw clamp terminal 2 cable 0.75...4 mm² - cable stiffness: flexible - without cable end Screw clamp terminal 1 cable 0.34...2.5 mm² - cable stiffness: flexible - with cable end Screw clamp terminal 2 cable 0.34...2.5 mm² - cable stiffness: flexible - with cable end Screw clamp terminal 1 cable 1.5...4 mm² - cable stiffness: solid Screw-clamp terminals 2 cable 1.5...4 mm² - cable stiffness: solid

Complementary

Coil technology	Without built-in suppressor module
Control circuit voltage limits	>= 0.20 Uc at <= 50 °C drop-out 50/60 Hz 0.8...1.15 Uc at <= 50 °C operational 50/60 Hz
[Ui] rated insulation voltage	690 V conforming to BS 5424 690 V conforming to IEC 60947 750 V conforming to VDE 0110 group C 600 V conforming to CSA C22.2 No 60947-4-1 600 V conforming to UL 60947-4-1
[Uimp] rated impulse withstand voltage	8 kV
Mounting support	Plate Rail
Flame retardance	Class C2 conforming to NF F 16-101 Class C2 conforming to NF F 16-102 V1 conforming to UL 94

Tightening torque	0.8 N.m - on screw clamp terminal - with screwdriver flat Ø 6 mm 0.8 N.m - on screw clamp terminal - with screwdriver Philips No 2
[Ue] rated operational voltage	<= 690 V AC 40...400 Hz for power circuit <= 690 V AC 40...400 Hz for signalling circuit
[Ith] conventional free air thermal current	20 A at <= 50 °C for power circuit 20 A at <= 50 °C for power circuit 10 A at <= 50 °C for signalling circuit
Irms rated making capacity	110 A at 690 V AC for power circuit conforming to IEC 60947 110 A at 690 V AC for power circuit conforming to IEC 60947 110 A at 690 V AC for signalling circuit conforming to IEC 60947
Rated breaking capacity	110 A at 220...230 V for power circuit conforming to IEC 60947 110 A at 440 V for power circuit conforming to IEC 60947 70 A at 660...690 V for power circuit conforming to IEC 60947 110 A at 380...415 V for power circuit conforming to IEC 60947
Associated fuse rating	25 A gG at <= 440 V for power circuit 25 A gG at <= 440 V 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 at 50 Hz - Ith 20 A for power circuit
Inrush power in VA	30 VA at 20 °C
Hold-in power consumption in VA	4.5 VA at 20 °C 50/60 Hz
Operating time	10...20 ms between energisation of coil and closing of NO contact 10...20 ms coil de-energisation and NO opening
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
Mechanical durability	10 Mcycles
Operating rate	<= 3600 cyc/h
Minimum switching current	5 mA for signalling circuit
Minimum switching voltage	17 V for signalling circuit
Insulation resistance	> 10 MOhm for signalling circuit
Height	58 mm
Width	45 mm
Depth	57 mm
Product weight	0.18 kg

Environment

standards	BS 5424 IEC 60947 NF C 63-110 VDE 0660
product certifications	CSA UL
IP degree of protection	IP20 conforming to VDE 0106
protective treatment	TC conforming to IEC 60068
ambient air temperature for operation	-25...50 °C
ambient air temperature for storage	-50...80 °C
operating altitude	2000 m without derating
fire resistance	850 °C conforming to IEC 60695-2-1
shock resistance	10 gn contactor closed 6 gn contactor opened
vibration resistance	2 gn 5...300 Hz contactor opened 4 gn 5...300 Hz contactor closed
heat dissipation	1.3 W at 50/60 Hz for control circuit

Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 0633 - Schneider Electric declaration of conformity
REACh	Reference not containing SVHC above the threshold
Product environmental profile	Available
Product end of life instructions	Available