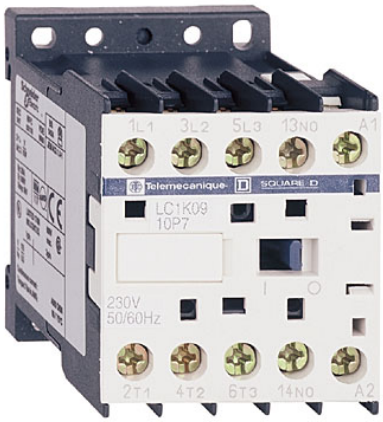
Product data sheet
Characteristics

LC1K0910G7
contactor TeSys LC1-K - 3 poles - AC-3 440V 9 A - coil 120 V AC



Main

Range of product	TeSys K
Product or component type	Contactor
Device short name	LC1K
Contactor application	Motor control Resistive load
Utilisation category	AC-1 AC-3
Control circuit type	AC
Coil type	Standard
Poles description	3P
Pole contact composition	3 NO
[Ie] rated operational current	9 A AC AC-3 power circuit 20 A ≤ 50 °C AC AC-1 power circuit
Control circuit voltage	120 V AC 50/60 Hz
Connections - terminals	Screw clamp terminal power circuit 1 0,75...4 mm² flexible without Screw clamp terminal power circuit 2 0,75...4 mm² flexible without Screw clamp terminal power circuit 1 1,5...4 mm² solid without Screw clamp terminal power circuit 1 0,34...2,5 mm² flexible with Screw clamp terminal power circuit 2 1,5...4 mm² solid without Screw clamp terminal power circuit 2 0,34...2,5 mm² flexible with

Complementary

Coil technology	Without built-in bidirectional peak limiting diode suppressor
Motor power kW	2,2 kW 220...230 V AC 50/60 Hz 4 kW 380...415 V AC 50/60 Hz 4 kW 440...500 V AC 50/60 Hz 4 kW 660...690 V AC 50/60 Hz
Motor power hp	2 hp 200/208 V AC 60 Hz UL 2 hp 200/208 V AC 60 Hz CSA 3 hp 230/240 V AC 60 Hz UL 3 hp 230/240 V AC 60 Hz CSA 5 hp 460/480 V AC 60 Hz UL 5 hp 460/480 V AC 60 Hz CSA 5 hp 575/600 V AC 60 Hz UL 5 hp 575/600 V AC 60 Hz CSA
Auxiliary contact composition	1 NO
Control circuit voltage limits	0.8...1.15 Uc ≤ 50 °C operational 50/60 Hz >= 0.20 Uc ≤ 50 °C drop-out 50/60 Hz
[Ui] rated insulation voltage	600 V UL 508 CSA C22-2 No 14 power circuit 600 V CSA C22-2 No 14 control circuit 690 V IEC 60947 power circuit 690 V NF C 20-040 power circuit 690 V BS 5424 power circuit 690 V BS 5424 control circuit 690 V IEC 60947 control circuit 750 V VDE 0110 group C power circuit 750 V VDE 0110 group C control circuit
[Uimp] rated impulse withstand voltage	8 kV
Mounting support	Plate Rail

Flame retardance	V1 UL 94 Class C2 NF F 16-101 Class C2 NF F 16-102
Tightening torque	0,8...1,3 N.m power circuit screw clamp terminal flat Ø 6 mm 0,8...1,3 N.m power circuit screw clamp terminal Philips No 2
[Ue] rated operational voltage	<= 690 V AC <= 400 Hz power circuit
[Ith] conventional free air thermal current	10 A ≤ 50 °C control circuit 20 A ≤ 50 °C power circuit
Irms rated making capacity	110 A 690 V AC power circuit NF C 63-110 110 A 690 V AC power circuit IEC 60947 110 A 690 V AC control circuit IEC 60947
Rated breaking capacity	70 A 660...690 V power circuit NF C 63-110 70 A 660...690 V power circuit IEC 60947 80 A 500 V power circuit NF C 63-110 80 A 500 V power circuit IEC 60947 110 A 220...230 V power circuit NF C 63-110 110 A 380...400 V power circuit NF C 63-110 110 A 415 V power circuit NF C 63-110 110 A 440 V power circuit NF C 63-110 110 A 220...230 V power circuit IEC 60947 110 A 380...400 V power circuit IEC 60947 110 A 415 V power circuit IEC 60947 110 A 440 V power circuit IEC 60947
Permissible short-time rating	20 A ≤ 50 °C ≥ 15 min power circuit 40 A ≤ 50 °C 3 min power circuit 45 A ≤ 50 °C 1 min power circuit 60 A ≤ 50 °C 30 s power circuit 80 A ≤ 50 °C 10 s power circuit 85 A ≤ 50 °C 5 s power circuit 90 A ≤ 50 °C 1 s power circuit
Associated fuse rating	10 A gG control circuit IEC 60947 10 A gG control circuit VDE 0660 25 A gG <= 440 V power circuit
Average impedance	3 mOhm 50 Hz 20 A power circuit
Inrush power in VA	30 VA 20 °C 50/60 Hz
Hold-in power consumption in VA	4,5 VA 20 °C 50/60 Hz
Operating time	5...15 ms coil energisation and NC opening 10...20 ms between energization of coil and closing of NO contact 10...20 ms coil de-energisation and NO opening 15...25 ms coil de-energisation and NC opening
Mechanical durability	10000000 cycles
Operating rate	3600 cyc/h
Minimum switching current	5 mA control circuit
Minimum switching voltage	17 V control circuit
Insulation resistance	> 10 MOhm control 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 GOST UL
IP degree of protection	IP2x VDE 0106
Protective treatment	TC IEC 60068
Ambient air temperature for operation	-25...50 °C
Ambient air temperature for storage	-50...80 °C
Operating altitude	2000 m without
Fire resistance	850 °C IEC 60695-2-1
Shock resistance	6 gn contactor opened 10 gn contactor closed

Vibration resistance	2 gn contactor opened 5...300 Hz 4 gn contactor closed 5...300 Hz
Heat dissipation	1,3 W 50/60 Hz control circuit
RoHS EUR conformity date	0640
RoHS EUR status	Compliant