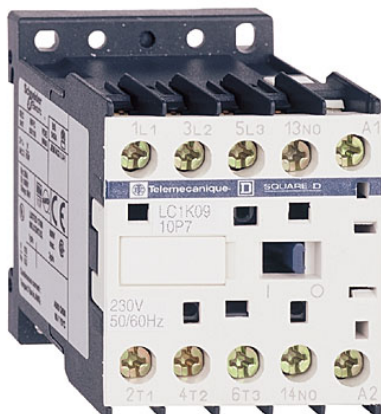


LC1K1601B7

contactor TeSys LC1-K - 3 poles - AC-3 440V
16 A - coil 24 V AC



Main

Range of product	TeSys K
Product or component type	Contacteur
Device short name	LC1K
Contacteur application	Motor control
Utilisation category	AC-3
Control circuit type	AC
Coil type	Standard
Poles description	3P
Pole contact composition	3 NO
[Ie] rated operational current	16 A AC AC-3 power circuit
Control circuit voltage	24 V AC 50/60 Hz
Connections - terminals	Screw clamp terminal power circuit 1 0,75...4 mm ² flexible without Screw clamp terminal power circuit 2 0,75...4 mm ² flexible without Screw clamp terminal power circuit 1 1,5...4 mm ² solid without Screw clamp terminal power circuit 1 0,34...2,5 mm ² flexible with Screw clamp terminal power circuit 2 1,5...4 mm ² solid without Screw clamp terminal power circuit 2 0,34...2,5 mm ² flexible with

Complementary

Coil technology	Without built-in bidirectional peak limiting diode suppressor
Motor power kW	4 kW 220...230 V AC 50/60 Hz 4 kW > 440 V AC 50/60 Hz 5,5 kW 440 V AC 50/60 Hz 7,5 kW 380...415 V AC 50/60 Hz
Auxiliary contact composition	1 NC
Control circuit voltage limits	0,8...1,15 U _c ≤ 50 °C operational 50/60 Hz >= 0,20 U _c ≤ 50 °C drop-out 50/60 Hz
[U _i] 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
[U _{imp}] 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
[U _e] rated operational voltage	<= 690 V AC <= 400 Hz power circuit
[I _{th}] conventional free air thermal current	10 A ≤ 50 °C control circuit 20 A ≤ 50 °C power circuit

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

Irms rated making capacity	110 A 690 V AC control circuit IEC 60947 160 A 690 V AC power circuit NF C 63-110 160 A 690 V AC power 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 440 V power circuit NF C 63-110 110 A 440 V power circuit IEC 60947
Permissible short-time rating	25 A ≤ 50 °C ≥ 15 min power circuit 50 A ≤ 50 °C 3 min power circuit 55 A ≤ 50 °C 1 min power circuit 75 A ≤ 50 °C 30 s power circuit 100 A ≤ 50 °C 10 s power circuit 105 A ≤ 50 °C 5 s power circuit 115 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	0633
RoHS EUR status	Compliant