

Product data sheet  
Characteristics

# LC1K0610M7

contactor TeSys LC1-K - 3 poles - AC-3 440V 6 A - coil 220...230 V AC

勝特力材料 886-3-5753170  
 勝特力电子(上海) 86-21-34970699  
 勝特力电子(深圳) 86-755-83298787  
[Http://www.100y.com.tw](http://www.100y.com.tw)



### 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	AC 50/60 Hz
Poles description	3P
Pole contact composition	3 NO
[Ie] rated operational current	6 A (<= 60 °C) at <= 440 V AC AC-3 for power circuit
Motor power kW	3 kW at 500 V AC 50/60 Hz 3 kW at 660...690 V AC 50/60 Hz 1.5 kW at 220...240 V AC 50/60 Hz 2.2 kW at 380...400 V AC 50/60 Hz
Motor power hp	1.5 hp at 200/208 V AC 60 Hz conforming to CSA 1.5 hp at 200/208 V AC 60 Hz conforming to UL 1.5 hp at 230/240 V AC 60 Hz conforming to CSA 1.5 hp at 230/240 V AC 60 Hz conforming to UL 3 hp at 460/480 V AC 60 Hz conforming to CSA 3 hp at 460/480 V AC 60 Hz conforming to UL 3 hp at 575/600 V AC 60 Hz conforming to CSA 3 hp at 575/600 V AC 60 Hz conforming to UL
Auxiliary contact composition	1 NO

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.

[Uc] control circuit voltage	220/230 V AC 50/60 Hz
Connections - terminals	<p>Power circuit: screw clamp terminal 1 cable 1.5 mm<sup>2</sup> - cable stiffness: solid</p> <p>Power circuit: screw clamp terminal 2 cable 4 mm<sup>2</sup> - cable stiffness: solid</p> <p>Power circuit: screw clamp terminal 1 cable 0.75 mm<sup>2</sup> - cable stiffness: flexible</p> <p>Power circuit: screw clamp terminal 2 cable 4 mm<sup>2</sup> - cable stiffness: flexible</p> <p>Power circuit: screw clamp terminal 1 cable 0.34 mm<sup>2</sup> - cable stiffness: flexible</p> <p>Power circuit: screw clamp terminal 1 cable 1.5 mm<sup>2</sup> - cable stiffness: flexible</p> <p>Power circuit: screw clamp terminal 1 cable 2.5 mm<sup>2</sup> - cable stiffness: flexible</p> <p>Control circuit: screw clamp terminal 1 cable 1.5 mm<sup>2</sup> - cable stiffness: solid</p> <p>Control circuit: screw clamp terminal 2 cable 4 mm<sup>2</sup> - cable stiffness: solid</p> <p>Control circuit: screw clamp terminal 1 cable 0.75 mm<sup>2</sup> - cable stiffness: flexible</p> <p>Control circuit: screw clamp terminal 2 cable 4 mm<sup>2</sup> - cable stiffness: flexible</p> <p>Control circuit: screw clamp terminal 1 cable 0.34 mm<sup>2</sup> - cable stiffness: flexible</p> <p>Control circuit: screw clamp terminal 1 cable 1.5 mm<sup>2</sup> - cable stiffness: flexible</p> <p>Control circuit: screw clamp terminal 1 cable 2.5 mm<sup>2</sup> - cable stiffness: flexible</p> <p>Power circuit: spring terminal 1 cable 0.75 mm<sup>2</sup> - cable stiffness: Solid</p> <p>Power circuit: spring terminal 1 cable 1.5 mm<sup>2</sup> - cable stiffness: Solid</p> <p>Power circuit: spring terminal 1 cable 0.75 mm<sup>2</sup> - cable stiffness: flexible</p> <p>Power circuit: spring terminal 1 cable 1.5 mm<sup>2</sup> - cable stiffness: flexible</p> <p>Control circuit: spring terminal 1 cable 0.75 mm<sup>2</sup> - cable stiffness: Solid</p> <p>Control circuit: spring terminal 1 cable 1.5 mm<sup>2</sup> - cable stiffness: Solid</p> <p>Control circuit: spring terminal 1 cable 0.75 mm<sup>2</sup> - cable stiffness: flexible</p> <p>Control circuit: spring terminal 1 cable 1.5 mm<sup>2</sup> - cable stiffness: flexible</p> <p>Power circuit: faston connectors 2 - width: 2.8 mm - cable stiffness: clip</p> <p>Power circuit: faston connectors 1 - width: 6.35 mm - cable stiffness: clip</p> <p>Control circuit: faston connectors 2 - width: 2.8 mm - cable stiffness: clip</p> <p>Control circuit: faston connectors 1 - width: 6.35 mm - cable stiffness: clip</p>

**勝特力材料 886-3-5753170**  
**勝特力电子(上海) 86-21-34970699**  
**勝特力电子(深圳) 86-755-83298787**  
[Http://www.100y.com.tw](http://www.100y.com.tw)

## Complementary

Coil technology	Without built-in bidirectional peak limiting diode suppressor
Control circuit voltage limits	$\geq 0.20 U_c$ at $\leq 50$ °C drop-out 50/60 Hz $0.8 \dots 1.15 U_c$ at $\leq 50$ °C operational 50/60 Hz
[Ui] rated insulation voltage	600 V conforming to CSA C22-2 No 14 for control circuit 600 V certifications UL 508 conforming to CSA C22-2 No 14 for power circuit 690 V conforming to BS 5424 for control circuit 690 V conforming to IEC 60947 for control circuit 690 V conforming to BS 5424 for power circuit 690 V conforming to IEC 60947 for power circuit 690 V conforming to NF C 20-040 for power circuit 750 V conforming to VDE 0110 group C for control circuit 750 V conforming to VDE 0110 group C for power circuit
[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	Power circuit: 0.8 N.m...1.3 nm - on screw clamp terminal - with screwdriver flat Ø 6 mm Power circuit: 0.8 N.m...1.3 nm - on screw clamp terminal - with screwdriver Philips No 2
[Ue] rated operational voltage	<= 690 V AC <= 400 Hz for power circuit
[Ith] conventional free air thermal current	10 A at <= 50 °C for control circuit 20 A at <= 50 °C for power circuit
Irms rated making capacity	110 A at 690 V AC for control 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 power circuit conforming to NF C 63-110
Rated breaking capacity	110 A at 220...230 V for power circuit conforming to IEC 60947 110 A at 220...230 V for power circuit conforming to NF C 63-110 110 A at 380...400 V for power circuit conforming to IEC 60947 110 A at 380...400 V for power circuit conforming to NF C 63-110 110 A at 415 V for power circuit conforming to IEC 60947 110 A at 415 V for power circuit conforming to NF C 63-110 110 A at 440 V for power circuit conforming to IEC 60947 110 A at 440 V for power circuit conforming to NF C 63-110 70 A at 660...690 V for power circuit conforming to IEC 60947 70 A at 660...690 V for power circuit conforming to NF C 63-110 80 A at 500 V for power circuit conforming to IEC 60947 80 A at 500 V for power circuit conforming to NF C 63-110
Permissible short-time rating	20 A (<= 50 °C) - short time current duration: >= 15 min - for power circuit 40 A (<= 50 °C) - short time current duration: 3 min - for power circuit 45 A (<= 50 °C) - short time current duration: 1 min - for power circuit 60 A (<= 50 °C) - short time current duration: 30 s - for power circuit 80 A (<= 50 °C) - short time current duration: 10 s - for power circuit 85 A (<= 50 °C) - short time current duration: 5 s - for power circuit 90 A (<= 50 °C) - short time current duration: 1 s - for power circuit
Associated fuse rating	10 A gG for control circuit conforming to IEC 60947 10 A gG for control circuit conforming to VDE 0660 25 A gG at <= 440 V for power circuit
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 15...25 ms coil de-energisation and NC opening 5...15 ms coil energisation and NC 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	10000000 cycles
Operating rate	3600 cyc/h
Minimum switching current	5 mA for control circuit
Minimum switching voltage	17 V for control circuit
Insulation resistance	> 10 MOhm for control circuit
Height	58 mm
Width	45 mm
Depth	57 mm
Product weight	0.18 kg

**勝特力材料 886-3-5753170**  
**勝特力电子(上海) 86-21-34970699**  
**勝特力电子(深圳) 86-755-83298787**  
[Http://www.100y.com.tw](http://www.100y.com.tw)

## Environment

Standards	BS 5424 IEC 60947 NF C 63-110 VDE 0660
Product certifications	CSA GOST UL
IP degree of protection	IP2x 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 in temperature
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

**勝特力材料 886-3-5753170**  
**勝特力电子(上海) 86-21-34970699**  
**勝特力电子(深圳) 86-755-83298787**  
**Http://www.100y.com.tw**