## Product data sheet Characteristics

# LC1K0610G7 TeSys K contactor - 3P - AC-3 <= 440 V 6 A - 1 NO aux. - 120 V AC coil





#### Main

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Main		
Range	TeSys	
Product or component type	Contactor	
Product name	TeSys K	
Device short name	LC1K	
Device application	Control	
Contactor application	Motor control	
Complementer		
Complementary Utilisation category	AC-4	
Ounsation category	AC-4 AC-3	:
Poles description	3P	
Power pole contact composition	3 NO	
[Ue] rated operational voltage	690 V AC 50/60 Hz for power circuit	
	<= 690 V AC 50/60 Hz for signalling circuit	
[le] rated operational current	6 A at <= 440 V AC AC-3 for power circuit	
Control circuit type	AC 50/60 Hz	
[Uc] control circuit voltage	120 V AC 50/60 Hz	
Motor power kW	1.5 kW at 220230 V AC 50/60 Hz AC-3	
	2.2 kW at 380415 V AC 50/60 Hz AC-3	
	1.5 kW at 400 V AC 50/60 Hz AC-4 3 kW at 660690 V AC 50/60 Hz AC-3	
	3 kW at 440 V AC 50/60 Hz AC-3	
	3 kW at 480 V AC 50/60 Hz AC-3	
	3 kW at 500600 V AC 50/60 Hz AC-3	
Auxiliary contact composition	1 NO	
[Uimp] rated impulse withstand voltage	8 kV	,
Overvoltage category	III	
[Ith] conventional free air thermal	20 A at <= 50 °C for power circuit	
current	10 A at <= 50 °C for signalling circuit	
Irms rated making capacity	110 A AC for power circuit conforming to NF C 63-110	
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	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 Act for signaling circuit contonning to IEC 60947110 A at 415 V conforming to IEC 60947110 A at 420230 V conforming to IEC 60947110 A at 220230 V conforming to IEC 60947110 A at 380400 V conforming to IEC 6094720 A at 660690 V conforming to IEC 6094720 A <= 50 °C >= 15 min power circuit90 A <= 50 °C 1 s power circuit80 A <= 50 °C 3 s power circuit80 A <= 50 °C 3 s power circuit80 A <= 50 °C 3 min power circuit80 A <= 50 °C 3 min power circuit80 A 1 s signalling circuit90 A 500 ms signalling circuit110 A 100 ms signalling circuit	
[Icw] rated short-time withstand current		
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 at 50 Hz - Ith 20 A for power circuit	
[Ui] rated insulation voltage	<ul> <li>690 V for signalling circuit conforming to IEC 60947-4-1</li> <li>690 V for signalling circuit conforming to IEC 60947-5-1</li> <li>600 V for signalling circuit conforming to UL 508</li> <li>600 V for power circuit conforming to CSA C22.2 No 14</li> <li>600 V for signalling circuit conforming to IEC 60947-4-1</li> <li>600 V for power circuit conforming to UL 508</li> </ul>	
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	0.20.75 Uc at <= 50 °C drop-out 0.81.15 Uc at <= 50 °C operational	
Connections - terminals	Screw clamp terminals 1 cable(s) 1.54 mm <sup>2</sup> - cable stiffness: solid Screw clamp terminals 1 cable(s) 0.754 mm <sup>2</sup> - cable stiffness: flexible - without cable end Screw clamp terminals 1 cable(s) 0.342.5 mm <sup>2</sup> - cable stiffness: flexible - with cable end Screw clamp terminals 2 cable(s) 1.54 mm <sup>2</sup> - cable stiffness: solid Screw clamp terminals 2 cable(s) 0.754 mm <sup>2</sup> - cable stiffness: flexible - without cable end Screw clamp terminals 2 cable(s) 0.754 mm <sup>2</sup> - cable stiffness: flexible - without cable end Screw clamp terminals 2 cable(s) 0.754 mm <sup>2</sup> - cable stiffness: flexible - without cable end Screw clamp terminals 2 cable(s) 0.341.5 mm <sup>2</sup> - cable stiffness: flexible - with cable end	
Operating rate	3600 cyc/h	
Auxiliary contacts type	Type instantaneous (1 NO)	
Signalling circuit frequency	<= 400 Hz	
Minimum switching current	5 mA for signalling circuit	
Minimum switching voltage	17 V for signalling circuit	
Mounting support	Plate Rail	
Tightening torque	1.3 N.m - on screw clamp terminals - with screwdriver Philips No 2 1.3 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm	
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 6 A AC-3 at Ue <= 440 V	
Mechanical robustness	Shocks contactor closed, on X axis 10 Gn for 11 ms IEC 60068-2-27 Shocks contactor closed, on Y axis 15 Gn for 11 ms IEC 60068-2-27 Shocks contactor closed, on Z axis 15 Gn for 11 ms IEC 60068-2-27 Shocks contactor opened, on X axis 6 Gn for 11 ms IEC 60068-2-27 Shocks contactor opened, on Y axis 10 Gn for 11 ms IEC 60068-2-27 Shocks contactor opened, on Z axis 10 Gn for 11 ms IEC 60068-2-27 Shocks contactor opened, on Z axis 10 Gn for 11 ms IEC 60068-2-27 Vibrations contactor closed 4 Gn, 5300 Hz IEC 60068-2-6	

#### Vibrations contactor opened 2 Gn, 5...300 Hz IEC 60068-2-6

Height	58 mm	
Width	45 mm	
Depth	57 mm	
Product weight	0.18 kg	

#### Environment

#### Offer Sustainability

Sustainable offer status	Istainable offer status Green Premium product	
RoHS (date code: YYWW)	Compliant - since 0640 - Schneider Electric declaration of conformity	
	Schneider Electric declaration of conformity	
REACh	Reference not containing SVHC above the threshold	
	Reference not containing SVHC above the threshold	
Product environmental profile	Available	
	Product Environmental Profile	
Product end of life instructions	Available	
	End of Life Information	

### Contractual warranty

Warranty period 18 months