Product datasheet Characteristics

LC1K0610F7

TeSys K contactor - 3P(3 NO) - AC-3 - <= 440 V 6 A - 110 V AC coil



Main

Range of product	TeSys K	•
Range	TeSys	
Product or component type	Contactor	
Product name	TeSys K	;
Device short name	LC1K	
Contactor application	Motor control	
-		

Complementary

Utilisation category	AC-4	
	AC-3	
Poles description	3P	
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	2
Control circuit type	AC 50/60 Hz	
Control circuit voltage	110 V AC 50/60 Hz	
Motor power kW	3 kW at 480 V AC 50/60 Hz 3 kW at 500600 V AC 50/60 Hz 3 kW at 440 V AC 50/60 Hz 2.2 kW at 380415 V AC 50/60 Hz 3 kW at 660690 V AC 50/60 Hz 1.5 kW at 220230 V AC 50/60 Hz	in the state of th
Auxiliary contact composition	1 NO	
[Uimp] rated impulse withstand voltage	8 kV	
Overvoltage category	III	
[lth] conventional free air thermal current	10 A at <= 50 °C for signalling circuit 20 A at <= 50 °C for power circuit	
Irms rated making capacity	110 A AC for power circuit conforming to NF C 63-110	

	110 A AC for power circuit conforming to IEC 60947	
Rated breaking capacity	80 A at 500 V conforming to IEC 60947 110 A at 220230 V conforming to IEC 60947 70 A at 660690 V conforming to IEC 60947 110 A at 415 V conforming to IEC 60947 110 A at 380400 V conforming to IEC 60947 110 A at 440 V conforming to IEC 60947	
[Icw] rated short-time withstand current	20 A <= 50 °C >= 15 s power circuit 80 A <= 50 °C 10 s power circuit 45 A <= 50 °C 1 min power circuit 85 A <= 50 °C 5 s power circuit 80 A 1 s signalling circuit 60 A <= 50 °C 30 s power circuit 90 A <= 50 °C 1 s power circuit 110 A 100 ms signalling circuit 90 A 500 ms signalling circuit 40 A <= 50 °C 3 min power circuit	
Associated fuse rating	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 25 A gG at <= 440 V for power circuit	
Average impedance	3 mOhm at 50 Hz - Ith 20 A for power circuit	
[Ui] rated insulation voltage	600 V for signalling circuit conforming to CSA C22.2 No 14 600 V for power circuit conforming to CSA C22.2 No 14 600 V for signalling circuit conforming to UL 508 690 V for signalling circuit conforming to IEC 60947-5-1 690 V for signalling circuit conforming to IEC 60947-4-1 600 V for power circuit conforming to UL 508 690 V for power circuit conforming to IEC 60947-4-1	
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	0.81.15 Uc at <= 50 °C operational 0.20.75 Uc at <= 50 °C drop-out	
Connections - terminals	Screw clamp terminals 2 cable(s) 0.754 mm² - cable stiffness: flexible - without cable end Screw clamp terminals 1 cable(s) 0.754 mm² - cable stiffness: flexible - without cable end Screw clamp terminals 2 cable(s) 0.341.5 mm² - cable stiffness: flexible - with cable end Screw clamp terminals 1 cable(s) 1.54 mm² - cable stiffness: solid Screw clamp terminals 1 cable(s) 0.342.5 mm² - cable stiffness: flexible - with cable end Screw clamp terminals 2 cable(s) 1.54 mm² - cable stiffness: solid	
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	Rail Plate	
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 energisation and NO closing 1020 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	
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 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 X axis 6 Gn for 11 ms IEC 60068-2-27 Shocks contactor closed, on Y axis 15 Gn for 11 ms IEC 60068-2-27 Vibrations contactor closed 4 Gn, 5300 Hz IEC 60068-2-6 Shocks contactor closed, on X axis 10 Gn for 11 ms IEC 60068-2-27 Vibrations contactor opened 2 Gn, 5300 Hz IEC 60068-2-6 Shocks contactor closed, on Z axis 15 Gn for 11 ms IEC 60068-2-27	



Height	58 mm	
Width	45 mm	
Depth	57 mm	
Product weight	0.18 kg	
Compatibility code	LC1K	

Environment

Standards	VDE 0660	
	BS 5424	
	IEC 60947	
	NF C 63-110	
Product certifications	UL	
	CSA	
IP degree of protection	IP2x conforming to VDE 0106	
Protective treatment	TC conforming to IEC 60068	
	TC conforming to DIN 50016	
Ambient air temperature for operation	-2550 °C	
Ambient air temperature for storage	-5080 °C	
Operating altitude	2000 m without derating in temperature	
Flame retardance	Requirement 2 conforming to NF F 16-102	
	V1 conforming to UL 94	
	Requirement 2 conforming to NF F 16-101	

Offer Sustainability

Sustainable 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	
	End of life manual	
Product end of life instructions	Available	

Contractual warranty

Warranty period	18 months

Schneider Electric