Product datasheet Characteristics

LC1K1210F7

TeSys K contactor - 3P(3 NO) - AC-3 - <= 440 V 12 A - 110 V AC coil



Main

Range of product	TeSys K	
Range	TeSys	ž
Product or component type	Contactor	9
Product name	TeSys K	, a
Device short name	LC1K	- C
Contactor application	Resistive load Motor control	i de la companya de l

Complementary

Complementary		2.
Utilisation category	AC-4	
	AC-1	g t
	AC-3	,
Poles description	3P	
Pole contact composition	3 NO	
[Ue] rated operational voltage	690 V AC 50/60 Hz for power circuit	chi-
	<= 690 V AC 50/60 Hz for signalling circuit	<u>ه</u> . ح
[le] rated operational current	12 A at <= 440 V AC AC-3 for power circuit	
	16 A (<= 70 °C) at 690 V AC AC-1 for power circuit	<u>ئ</u> 1
	20 A (<= 50 °C) at <= 440 V AC AC-1 for power circuit	: <u>:</u>
Control circuit type	AC 50/60 Hz	
Control circuit voltage	110 V AC 50/60 Hz	 0 7
Motor power kW	4 kW at 480 V AC 50/60 Hz	to to the state of
	4 kW at 500600 V AC 50/60 Hz	
	4 kW at 660690 V AC 50/60 Hz	2
	5.5 kW at 440 V AC 50/60 Hz	<u>».</u> 2
	5.5 kW at 380415 V AC 50/60 Hz	5
	3 kW at 220230 V AC 50/60 Hz	
Auxiliary contact composition	1 NO	Tric Aran mantation
[Uimp] rated impulse withstand voltage	8 kV	. <u></u>
Overvoltage category	III	

[lth] conventional free air thermal current	20 A at <= 50 °C for power circuit 10 A at <= 50 °C for signalling circuit	
Irms rated making capacity	144 A AC for power circuit conforming to IEC 60947 110 A AC for signalling circuit conforming to IEC 60947 144 A AC for power circuit conforming to NF C 63-110	
Rated breaking capacity	70 A at 660690 V conforming to IEC 60947 110 A at 440 V conforming to IEC 60947 80 A at 500 V conforming to IEC 60947	
[Icw] rated short-time withstand current	110 A 100 ms signalling circuit 105 A <= 50 °C 5 s power circuit 75 A <= 50 °C 30 s power circuit 115 A <= 50 °C 1 s power circuit 90 A 500 ms signalling circuit 55 A <= 50 °C 1 min power circuit 50 A <= 50 °C 3 min power circuit 25 A <= 50 °C >= 15 s power circuit 80 A 1 s signalling circuit 100 A <= 50 °C 10 s power circuit	
Associated fuse rating	10 A gG for signalling circuit conforming to IEC 60947 25 A gG at <= 440 V for power circuit 10 A gG for signalling circuit conforming to VDE 0660 25 A aM for power circuit	
Average impedance	3 mOhm at 50 Hz - Ith 20 A for power circuit	
[Ui] rated insulation voltage	690 V for signalling circuit conforming to IEC 60947-4-1 600 V for signalling circuit conforming to CSA C22.2 No 14 600 V for signalling circuit conforming to UL 508 600 V for power circuit conforming to CSA C22.2 No 14 690 V for power circuit conforming to IEC 60947-4-1 690 V for signalling circuit conforming to IEC 60947-5-1 600 V for power circuit conforming to UL 508	
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 2 cable(s) 0.341.5 mm² - cable stiffness: flexible - with cable end Screw clamp terminals 1 cable(s) 0.342.5 mm² - cable stiffness: flexible - with cable end Screw clamp terminals 1 cable(s) 1.54 mm² - cable stiffness: solid Screw clamp terminals 2 cable(s) 1.54 mm² - cable stiffness: solid Screw clamp terminals 1 cable(s) 0.754 mm² - cable stiffness: flexible - without 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 flat Ø 6 mm 1.3 N.m - on screw clamp terminals - with screwdriver Philips No 2	
Operating time	1020 ms coil energisation and NO closing 1020 ms coil de-energisation and NO opening	
Safety reliability level	B10d = 20000000 cycles contactor with mechanical load conforming to EN/ISO 13849-1 B10d = 1369863 cycles contactor with nominal load conforming to EN/ISO 13849-1	
Non overlap distance	0.5 mm	
Mechanical durability	10 Mcycles	
Electrical durability	1.3 Mcycles 12 A AC-3 at Ue <= 440 V 0.3 Mcycles 20 A AC-1 at Ue <= 440 V	
Mechanical robustness	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 closed, on Y axis 15 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 Y 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 X axis 10 Gn for 11 ms IEC 60068-2-27	
Vibrations contactor closed 4 Gn, 5300 Hz IEC 60068-2-6	

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

Environment

Standards	BS 5424
	NF C 63-110
	IEC 60947
	VDE 0660
Product certifications	UL
	CSA
IP degree of protection	IP2x conforming to VDE 0106
Protective treatment	TC conforming to DIN 50016
	TC conforming to IEC 60068
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
	Requirement 2 conforming to NF F 16-101
	V1 conforming to UL 94

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