Product datasheet Characteristics

LC1K1210U7

TeSys K contactor - 3P - AC-3 <= 440 V 12 A - 1 NO aux. - 230...240 V AC coil



Main

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271 4T2 6T3 14N0 7		
Main		
Range of product	TeSys K	
Range	TeSys	
Product or component type	Contactor	
Product name	TeSys K	
Device short name	LC1K	
Device application	Control	
Contactor application	Resistive load	
	Motor control	
Complementary		
Utilisation category	AC-3	
	AC-4 AC-1	
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	20 A (<= 50 °C) at <= 440 V AC AC-1 for power circuit	
	16 A (<= 70 °C) at 690 V AC AC-1 for power circuit 12 A at <= 440 V AC AC-3 for power circuit	
Control circuit type	AC 50/60 Hz	
Control circuit voltage	230240 V AC 50/60 Hz	
	3 kW at 220230 V AC 50/60 Hz AC-3	
Motor power kW	2.2 kW at 200 V AC 50/60 Hz AC-3	
	5.5 kW at 440 V AC 50/60 Hz AC-3	
	5.5 kW at 380415 V AC 50/60 Hz AC-3	
	4 kW at 480 V AC 50/60 Hz AC-3 4 kW at 500600 V AC 50/60 Hz AC-3	
	4 kW at 660690 V AC 50/60 Hz AC-3	
Auxiliary contact composition	1 NO	
[Uimp] rated impulse withstand voltage	8 kV	
Mar 00, 2017		



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	110 A AC for signalling circuit conforming to IEC 60947 144 A AC for power circuit conforming to NF C 63-110 144 A AC for power circuit conforming to IEC 60947		
Rated breaking capacity	110 A at 440 V conforming to IEC 60947 80 A at 500 V conforming to IEC 60947 70 A at 660690 V conforming to IEC 60947		
[Icw] rated short-time withstand current	80 A 1 s signalling circuit 90 A 500 ms signalling circuit 110 A 100 ms signalling circuit 115 A \leq 50 °C 1 s power circuit 105 A \leq 50 °C 5 s power circuit 100 A \leq 50 °C 10 s power circuit 75 A \leq 50 °C 30 s power circuit 55 A \leq 50 °C 1 min power circuit 50 A \leq 50 °C 3 min power circuit 25 A \leq 50 °C 3 min power circuit		
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	690 V for signalling circuit conforming to IEC 60947-4-1 690 V for signalling circuit conforming to IEC 60947-5-1 600 V for signalling circuit conforming to UL 508 600 V for power circuit conforming to CSA C22.2 No 14 600 V for signalling circuit conforming to CSA C22.2 No 14 690 V for power circuit conforming to IEC 60947-4-1 600 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	0.20.75 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 ² - cable stiffness: solid Screw clamp terminals 1 cable(s) 0.754 mm ² - cable stiffness: flexible - without cable end Screw clamp terminals 1 cable(s) 0.342.5 mm ² - cable stiffness: flexible - with cable end Screw clamp terminals 2 cable(s) 1.54 mm ² - cable stiffness: solid Screw clamp terminals 2 cable(s) 0.754 mm ² - cable stiffness: flexible - without cable end Screw clamp terminals 2 cable(s) 0.341.5 mm ² - 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	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 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	0.3 Mcycles 20 A AC-1 at Ue <= 440 V 1.3 Mcycles 12 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 Vibrations contactor closed 4 Gn, 5...300 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

Standards	BS 5424 IEC 60947 NF C 63-110 VDE 0660	
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	V1 conforming to UL 94 Requirement 2 conforming to NF F 16-101 Requirement 2 conforming to NF F 16-102	

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	
	Product environmental	
Product end of life instructions	Available	
	🛃 End of life manual	

Contractual warranty

Warranty period

18 months