Product data sheet Characteristics

LC1K1210B7 TeSys K contactor - 3P - AC-3 <= 440 V 12 A - 1 NO aux. - 24 V AC coil





Main

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2T1 4T2 6T3 14N0 /		:	
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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-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		
[Uc] control circuit voltage	24 V AC 50/60 Hz		
Motor power kW	3 kW at 220230 V AC 50/60 Hz AC-3		
	2.2 kW at 400 V AC 50/60 Hz AC-4		
	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		
May 28, 2018			



Overvoltage category	III		
[Ith] conventional free air thermal current	20 A at <= 50 °C for power circuit		
Irms rated making capacity			
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		
[lcw] rated short-time withstand current	$25 \text{ A} \le 50 \text{ °C} \ge 15 \text{ min power circuit}$ 80 A 1 s signalling circuit 90 A 500 ms signalling circuit 110 A 100 ms signalling circuit $115 \text{ A} \le 50 \text{ °C 1 s power circuit}$ $105 \text{ A} \le 50 \text{ °C 5 s power circuit}$ $100 \text{ A} \le 50 \text{ °C 10 s power circuit}$ $75 \text{ A} \le 50 \text{ °C 30 s power circuit}$ $55 \text{ A} \le 50 \text{ °C 1 min power circuit}$ 50 A <= 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		
nsulation resistance	> 10 MOhm for signalling circuit		
nrush power in VA	30 VA at 20 °C		
Hold-in power consumption in VA	4.5 VA at 20 °C		
leat 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 2 cable(s) 4 mm ² - cable stiffness: solid Screw clamp terminals 2 cable(s) 4 mm ² - cable stiffness: flexible - without cable end Screw clamp terminals 2 cable(s) 1.5 mm ² - cable stiffness: flexible - with cable end		
Operating rate	3600 cyc/h		
uxiliary contacts type	Type instantaneous (1 NO)		
ignalling circuit frequency	<= 400 Hz		
Iinimum switching current	5 mA for signalling circuit		
linimum switching voltage	17 V for signalling circuit		
Nounting support	Rail Plate		
rightening 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		
Aechanical 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 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	
Compatibility code	LC1K	

Environment

BS 5424		
IEC 60947 NF C 63-110 VDE 0660		
UL CSA		
IP2x conforming to VDE 0106		
TC conforming to IEC 60068 TC conforming to DIN 50016		
-2550 °C		
-5080 °C		
2000 m without derating in temperature		
V1 conforming to UL 94 Requirement 2 conforming to NF F 16-101 Requirement 2 conforming to NF F 16-102		
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Offer Sustainability

Sustainable offer status	Green Premium product	
RoHS (date code: YYWW)	Compliant - since 0633 - 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