# **Product datasheet** Characteristics

LC1K1210B7 TeSys K contactor - 3P(3 NO) - AC-3 - <= 440 V 12 A - 24 V AC coil



### Main

IVIAIII		
Range of product	TeSys K	
Range	TeSys	
Product or component type	Contactor	
Product name	TeSys K	
Device short name	LC1K	
Contactor application	Resistive load Motor control	

#### Complementary

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TeSys K	
TeSys	
Contactor	
TeSys K	
LC1K	
Resistive load Motor control	
AC-3 AC-4 AC-1	
3P	
3 NO	
<= 690 V AC 50/60 Hz for signalling circuit 690 V AC 50/60 Hz for power circuit	
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	
AC 50/60 Hz	
24 V AC 50/60 Hz	
4 kW at 480 V AC 50/60 Hz 4 kW at 500600 V AC 50/60 Hz 5.5 kW at 440 V AC 50/60 Hz 3 kW at 220230 V AC 50/60 Hz 5.5 kW at 380415 V AC 50/60 Hz 4 kW at 660690 V AC 50/60 Hz	
1 NO	
8 kV	
	TeSysContactorTeSys KLC1KResistive load Motor controlAC-3 AC-4 AC-13P3 NO<= 690 V AC 50/60 Hz for signalling circuit 690 V AC 50/60 Hz for power circuit20 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 AC 50/60 HzAC 50/60 Hz4 kW at 480 V AC 50/60 Hz 5.5 kW at 440 V AC 50/60 Hz 5.5 kW at 440 V AC 50/60 Hz 5.5 kW at 220230 V AC 50/60 Hz 3 kW at 220230 V AC 50/60 Hz 4 kW at 660690 V AC 50/60 Hz1 NO



[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 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 80 A at 500 V conforming to IEC 60947 110 A at 440 V conforming to IEC 60947
[Icw] rated short-time withstand current	110 A 100 ms signalling circuit 50 A <= 50 °C 3 min power circuit 105 A <= 50 °C 5 s power circuit 115 A <= 50 °C 1 s power circuit 75 A <= 50 °C 30 s power circuit 25 A <= 50 °C >= 15 s power circuit 55 A <= 50 °C 1 min power circuit 80 A 1 s signalling circuit 100 A <= 50 °C 10 s power circuit 90 A 500 ms signalling circuit
Associated fuse rating	25 A aM for power circuit 25 A gG at <= 440 V 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 60947-5-1</li> <li>690 V for signalling circuit conforming to IEC 60947-4-1</li> <li>600 V for power circuit conforming to CSA C22.2 No 14</li> <li>600 V for power circuit conforming to UL 508</li> <li>600 V for signalling circuit conforming to UL 508</li> <li>690 V for power circuit conforming to IEC 60947-4-1</li> <li>600 V for signalling circuit conforming to CSA C22.2 No 14</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	0.81.15 Uc at <= 50 °C operational 0.20.75 Uc at <= 50 °C drop-out
Connections - terminals	Screw clamp terminals 2 cable(s) 4 mm² - cable stiffness: solid Screw clamp terminals 2 cable(s) 4 mm² - cable stiffness: flexible - without cable end Screw clamp terminals 2 cable(s) 1.5 mm² - 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 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 12 A AC-3 at Ue <= 440 V 0.3 Mcycles 20 A AC-1 at Ue <= 440 V
Mechanical robustness	Shocks contactor opened, on Z 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 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 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



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

#### Environment

IEC 60947 BS 5424 NF C 63-110 VDE 0660
CSA UL
IP2x conforming to VDE 0106
TC conforming to DIN 50016 TC conforming to IEC 60068
-2550 °C
-5080 °C
2000 m without derating in temperature
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 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	
	🚰 End of life manual	
Product end of life instructions	Available	

# Contractual warranty

Warranty period

18 months

