# **Product datasheet** Characteristics

LP1K0610JD TeSys K contactor - 3P(3 NO) - AC-3 - <= 440 V 6 A - 12 V DC coil



### Main

Main		
Range of product	TeSys K	
Range	TeSys	
Product or component type	Contactor	
Product name	TeSys K	
Device short name	LP1K	
Contactor application	Motor control	-

## Complementary

AC 50/60 Hz for signalling circuit C 50/60 Hz for power circuit C 50/60 Hz for power circuit 440 V AC AC-3 for power circuit 660690 V AC 50/60 Hz 660690 V AC 50/60 Hz 130 V AC 50/60 Hz 1430415 V AC 50/60 Hz 1430415 V AC 50/60 Hz 14 320415 V AC 50/60 Hz 150 °C for power circuit 16 50 °C for power circuit 17 50 °C for power circuit 18 50 °C for signalling circuit 19 70 °C for power circuit 20 °C for signalling circu	
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/ AC 50/60 Hz for signalling circuit C 50/60 Hz for power circuit	
= 440 V AC AC-3 for power circuit	
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660690 V AC 50/60 Hz 500600 V AC 50/60 Hz 480 V AC 50/60 Hz at 380415 V AC 50/60 Hz at 220230 V AC 50/60 Hz 440 V AC 50/60 Hz	
<= 50 °C for power circuit <= 50 °C for signalling circuit	
110 A AC for signalling circuit conforming to IEC 60947 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	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         110 A at 415 V conforming to IEC 60947         110 A at 380400 V conforming to IEC 60947         110 A at 220230 V conforming to IEC 60947		
[Icw] rated short-time withstand current	80 A 1 s signalling circuit 85 A <= 50 °C 5 s power circuit 80 A <= 50 °C 10 s power circuit 45 A <= 50 °C 1 min power circuit 20 A <= 50 °C >= 15 s power circuit 60 A <= 50 °C 30 s power circuit 40 A <= 50 °C 3 min power circuit 90 A <= 50 °C 1 s power circuit 90 A 500 ms signalling circuit 110 A 100 ms signalling circuit		
Associated fuse rating	10 A gG for signalling circuit conforming to IEC 60947 10 A gG for signalling circuit conforming to VDE 0660 25 A aM for power circuit 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 14 690 V for signalling circuit conforming to IEC 60947-4-1 600 V for signalling circuit conforming to UL 508 690 V for power circuit conforming to IEC 60947-4-1 600 V for power circuit conforming to UL 508 690 V for signalling circuit conforming to IEC 60947-5-1		
Insulation resistance	> 10 MOhm for signalling circuit		
Inrush power in W	3 W at 20 °C		
Hold-in power consumption in W	3 W at 20 °C		
Heat dissipation	3 W		
Control circuit voltage limits	0.10.75 Uc at <= 50 °C drop-out 0.81.15 Uc at <= 50 °C operational		
Connections - terminals	Screw clamp terminals 2 cable(s) 0.754 mm <sup>2</sup> - cable stiffness: flexible - without cable end Screw clamp terminals 1 cable(s) 1.54 mm <sup>2</sup> - cable stiffness: solid Screw clamp terminals 2 cable(s) 1.54 mm <sup>2</sup> - cable stiffness: solid Screw clamp terminals 1 cable(s) 0.342.5 mm <sup>2</sup> - cable stiffness: flexible - with cable end Screw clamp terminals 1 cable(s) 0.754 mm <sup>2</sup> - cable stiffness: flexible - without cable end Screw clamp terminals 1 cable(s) 0.754 mm <sup>2</sup> - cable stiffness: flexible - without cable end Screw clamp terminals 2 cable(s) 0.341.5 mm <sup>2</sup> - cable stiffness: flexible - with cable end		
Operating rate	3600 cyc/h		
Auxiliary contacts type	Type instantaneous (1 NO)		
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	3040 ms coil energisation and NO closing 10 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 6 A AC-3 at Ue <= 440 V		
Mechanical robustness	Shocks contactor closed, on X 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 10 Gn for 11 ms IEC 60068-2-27 Shocks contactor opened, on Y axis 6 Gn for 11 ms IEC 60068-2-27 Vibrations contactor opened 2 Gn, 5300 Hz IEC 60068-2-6 Vibrations contactor closed 4 Gn, 5300 Hz IEC 60068-2-6 Shocks contactor opened, on Z axis 10 Gn for 11 ms IEC 60068-2-27 Shocks contactor closed, on Y axis 10 Gn for 11 ms IEC 60068-2-27		
Height	58 mm		



Width	45 mm	
Depth	57 mm	
Product weight	0.225 kg	
Compatibility code	LP1K	

#### Environment

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

Green Premium product		
Compliant - since 0640 - Schneider Electric declaration of conformity		
Schneider Electric declaration of conformity		
Reference not containing SVHC above the threshold		
Reference not containing SVHC above the threshold		
Available		
🛃 End of life manual		
Available		
	Compliant - since 0640 - Schneider Electric declaration of conformity  Compliant - since 0640 - Schneider Electric declaration of conformity  Reference not containing SVHC above the threshold  Reference not containing SVHC above the threshold  Available  Reference not life manual	

# Contractual warranty

Warranty period

18 months

