# Product data sheet Characteristics

## LP1K0910BD

TeSys K contactor - 3P - AC-3 <= 440 V 9 A - 1 NO aux. - 24 V DC coil





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Range	TeSys	
Product or component type	Contactor	ž
Product name	TeSys K	9
Device short name	LP1K	
Device application	Control	
Contactor application	Motor control Resistive load	ia r

#### Complementary

Complementary		. <u></u>
Utilisation category	AC-4	i.
	AC-3	et e
	AC-1	force
Poles description	3P	used for determining
Power pole contact composition	3 NO	t o be
[Ue] rated operational voltage	690 V AC 50/60 Hz for power circuit	to
	<= 690 V AC 50/60 Hz for signalling circuit	<u>w</u> .
[le] rated operational current	9 A at <= 440 V AC AC-3 for power circuit	
	20 A (<= 50 °C) at <= 440 V AC AC-1 for power circuit	te fo
	16 A (<= 70 °C) at 690 V AC AC-1 for power circuit	substitute for
Control circuit type	DC standard	an Sur
[Uc] control circuit voltage	24 V DC	is not intended as
Motor power kW	2.2 kW at 400 V AC 50/60 Hz AC-4	9
	2.2 kW at 220230 V AC 50/60 Hz AC-3	ţ
	4 kW at 380415 V AC 50/60 Hz AC-3	0
	4 kW at 440 V AC 50/60 Hz AC-3	. <del></del> 6
	4 kW at 480 V AC 50/60 Hz AC-3	tat:
	4 kW at 500600 V AC 50/60 Hz AC-3	m m
	4 kW at 660690 V AC 50/60 Hz AC-3	0
Auxiliary contact composition	1 NO	This documentation
[Uimp] rated impulse withstand voltage	8 kV	
Overvoltage category	III	

fight annually of four staff	20 A at 4- 50 °C for a super simult
[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 power circuit conforming to NF C 63-110 110 A AC for power circuit conforming to IEC 60947 110 A AC for signalling circuit conforming to IEC 60947
Rated breaking capacity	110 A at 415 V conforming to IEC 60947 110 A at 440 V conforming to IEC 60947 80 A at 500 V conforming to IEC 60947 110 A at 220230 V conforming to IEC 60947 110 A at 380400 V conforming to IEC 60947 70 A at 660690 V conforming to IEC 60947
[lcw] rated short-time withstand current	20 A <= 50 °C >= 15 min power circuit  90 A <= 50 °C 1 s power circuit  85 A <= 50 °C 5 s power circuit  80 A <= 50 °C 10 s power circuit  60 A <= 50 °C 30 s power circuit  45 A <= 50 °C 1 min power circuit  40 A <= 50 °C 3 min power circuit  80 A 1 s signalling circuit  90 A 500 ms signalling circuit  110 A 100 ms signalling 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 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	0.81.15 Uc at <= 50 °C operational 0.10.75 Uc at <= 50 °C drop-out
Connections - terminals	Screw clamp terminals 1 cable(s) 1.54 mm² - cable stiffness: solid Screw clamp terminals 1 cable(s) 0.754 mm² - cable stiffness: flexible - without cable end Screw clamp terminals 1 cable(s) 0.342.5 mm² - cable stiffness: flexible - with cable end Screw clamp terminals 2 cable(s) 1.54 mm² - cable stiffness: solid 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
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	Plate Rail
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	10 ms coil de-energisation and NO opening 3040 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	0.18 Mcycles 20 A AC-1 at Ue <= 440 V 1.3 Mcycles 9 A AC-3 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 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, 5300 Hz IEC 60068-2-6

	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 Shocks contactor closed, on X axis 15 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	

#### Environment

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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 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

Outractical warranty		
Warranty period	18 months	