Specifications



# Contactor, TeSys K, 3P, AC-3/ AC-3e, 440V, 9A, 1NO, 24V DC coil, screw terminal

LP1K0910BD3

#### Main

Range	TeSys	
Product Or Component Type	Contactor	
Device Short Name	LP1K	
Contactor Application	Resistive load Motor control	

# Complementary

AC-3
AC-3e
AC-36 AC-1
AC-1 AC-4
AC-4
3P
3 NO
Power circuit: <= 690 V AC <= 400 Hz
Signalling circuit: <= 690 V AC <= 400 Hz
9 A (at <60 °C) at <= 440 V AC AC-3 for power circuit
9 A (at <60 °C) at <= 440 V AC AC-3e for power circuit
20 A (at <60 °C) at <= 690 V AC AC-1 for power circuit
DC standard
24 V DC
2.2 kW at 220230 V AC 50/60 Hz AC-3
4 kW at 380415 V AC 50/60 Hz AC-3
4 kW at 440/690 V AC 50/60 Hz AC-3
2.2 kW at 220230 V AC 50/60 Hz AC-3e
4 kW at 380415 V AC 50/60 Hz AC-3e
4 kW at 440/690 V AC 50/60 Hz AC-3e
2.2 kW at 220230 V AC 50/60 Hz AC-4
4 kW at 380415 V AC 50/60 Hz AC-4
4 kW at 440/690 V AC 50/60 Hz AC-4
1 NO
8 kV
III
20 A (at 60 °C) for power circuit
10 A (at 50 °C) for signalling circuit
110 A AC for power circuit conforming to IEC 60947
110 A AC for signalling circuit conforming to IEC 60947
110 A at 220230 V conforming to IEC 60947
110 A at 380400 V conforming to IEC 60947
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
70 A at 660690 V conforming to IEC 60947

[Icw] Rated Short-Time Withstand	90 A 50 °C - 1 s for power circuit
Current	85 A 50 °C - 5 s for power circuit
	80 A 50 °C - 10 s for power circuit
	60 A 50 °C - 30 s for power circuit
	45 A 50 °C - 1 min for power circuit
	40 A 50 °C - 3 min for power circuit 20 A 50 °C - >= 15 min for power circuit
	80 A - 1 s for signalling circuit
	90 A - 500 ms for signalling circuit
	110 A - 100 ms for 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 - Ith 20 A 50 Hz for power circuit
[Ui] Rated Insulation Voltage	Power circuit: 600 V conforming to UL 508
	Power circuit: 690 V conforming to IEC 60947-4-1
	Signalling circuit: 690 V conforming to IEC 60947-4-1
	Signalling circuit: 690 V conforming to IEC 60947-5-1
	Signalling circuit: 600 V conforming to UL 508
	Power circuit: 600 V conforming to CSA C22.2 No 14
	Signalling circuit: 600 V conforming to CSA C22.2 No 14
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	1.3 W
Control Circuit Voltage Limits	Operational: 0.81.15 Uc (at <50 °C) Drop-out: >= 0.10 Uc (at <50 °C)
Connections - Terminals	Screw clamp terminals 1 cable(s) 1.54 mm <sup>2</sup> solid
	Screw clamp terminals 1 cable(s) 0.754 mm <sup>2</sup> flexible without cable end
	Screw clamp terminals 1 cable(s) 0.342.5 mm <sup>2</sup> flexible with cable end
	Screw clamp terminals 2 cable(s) 1.54 mm <sup>2</sup> solid
	Screw clamp terminals 2 cable(s) 0.754 mm <sup>2</sup> flexible without cable end
	Screw clamp terminals 2 cable(s) 0.341.5 mm <sup>2</sup> flexible with cable end
	Power circuit: screw clamp terminals 2 cable(s) 1.5 mm <sup>2</sup> flexible with cable end
Maximum Operating Rate	3600 cyc/h
Coil Technology	Built-in bidirectional peak limiting diode suppressor
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	
Tightening Torque	0.81.3 N.m - on screw clamp terminals Philips No 2
Tightening Torque	0.8…1.3 N.m - on screw clamp terminals Philips No 2 0.8…1.3 N.m - on screw clamp terminals flat Ø 6 mm
Tightening Torque	0.81.3 N.m - on screw clamp terminals Philips No 2
Tightening Torque	0.8…1.3 N.m - on screw clamp terminals Philips No 2 0.8…1.3 N.m - on screw clamp terminals flat Ø 6 mm
	0.81.3 N.m - on screw clamp terminals Philips No 2 0.81.3 N.m - on screw clamp terminals flat Ø 6 mm 0.81.3 N.m - on screw clamp terminals pozidriv No 2
Operating Time	0.81.3 N.m - on screw clamp terminals Philips No 2 0.81.3 N.m - on screw clamp terminals flat Ø 6 mm 0.81.3 N.m - on screw clamp terminals pozidriv No 2 3040 ms coil energisation and NO closing 10 ms coil de-energisation and NO opening
	0.81.3 N.m - on screw clamp terminals Philips No 2 0.81.3 N.m - on screw clamp terminals flat Ø 6 mm 0.81.3 N.m - on screw clamp terminals pozidriv No 2 3040 ms coil energisation and NO closing 10 ms coil de-energisation and NO opening B10d = 1369863 cycles contactor with nominal load conforming to EN/ISO 13849-1
Operating Time	0.81.3 N.m - on screw clamp terminals Philips No 2 0.81.3 N.m - on screw clamp terminals flat Ø 6 mm 0.81.3 N.m - on screw clamp terminals pozidriv No 2 3040 ms coil energisation and NO closing 10 ms coil de-energisation and NO opening B10d = 1369863 cycles contactor with nominal load conforming to EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load conforming to EN/ISO
Operating Time	0.81.3 N.m - on screw clamp terminals Philips No 2 0.81.3 N.m - on screw clamp terminals flat Ø 6 mm 0.81.3 N.m - on screw clamp terminals pozidriv No 2 3040 ms coil energisation and NO closing 10 ms coil de-energisation and NO opening B10d = 1369863 cycles contactor with nominal load conforming to EN/ISO 13849-1
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Operating Time Safety Reliability Level	0.81.3 N.m - on screw clamp terminals Philips No 2 0.81.3 N.m - on screw clamp terminals flat Ø 6 mm 0.81.3 N.m - on screw clamp terminals pozidriv No 2 3040 ms coil energisation and NO closing 10 ms coil de-energisation and NO opening 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
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Operating Time Safety Reliability Level Mechanical Durability Electrical Durability	0.81.3 N.m - on screw clamp terminals Philips No 2   0.81.3 N.m - on screw clamp terminals flat Ø 6 mm   0.81.3 N.m - on screw clamp terminals pozidriv No 2   3040 ms coil energisation and NO closing   10 ms coil de-energisation and NO opening   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   10 Mcycles   1.3 Mcycles 9 A AC-3 at Ue <= 440 V
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Operating Time Safety Reliability Level Mechanical Durability Electrical Durability	0.81.3 N.m - on screw clamp terminals Philips No 2   0.81.3 N.m - on screw clamp terminals flat Ø 6 mm   0.81.3 N.m - on screw clamp terminals pozidriv No 2   3040 ms coil energisation and NO closing   10 ms coil de-energisation and NO opening   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   10 Mcycles   1.3 Mcycles 9 A AC-3 at Ue <= 440 V

Depth	57 mm	
Net Weight	0.225 kg	
Environment		
Standards	EN/IEC 60947-4-1 EN/IEC 60947-5-1 UL 60947-5-1 UL 60947-5-1 CSA C22.2 No 60947-4-1 CSA C22.2 No 60947-5-1 GB/T 14048.4	
Product Certifications	CB Scheme CCC UL CSA EAC CE UKCA	
Ip Degree Of Protection	IP2X	
Ambient Air Temperature For Operation	-2550 °C	
Ambient Air Temperature For Storage	-5080 °C	

**Operating Altitude** 2000 m without derating Flame Retardance V1 conforming to UL 94 Requirement 2 conforming to NF F 16-101 Requirement 2 conforming to NF F 16-102

# **Packing Units**

Unit Type Of Package 1	PCE	
Number Of Units In Package 1	1	
Package 1 Height	6.600 cm	
Package 1 Width	4.800 cm	
Package 1 Length	6.200 cm	
Package 1 Weight	224.000 g	
Unit Type Of Package 2	S02	
Number Of Units In Package 2	40	
Package 2 Height	15.000 cm	
Package 2 Width	30.000 cm	
Package 2 Length	40.000 cm	
Package 2 Weight	9.353 kg	
Unit Type Of Package 3	P06	
Number Of Units In Package 3	320	
Package 3 Height	45.000 cm	
Package 3 Width	60.000 cm	
Package 3 Length	80.000 cm	
Package 3 Weight	82.860 kg	

# **Contractual warranty**

Warranty

18 months

### **Sustainability**

**Green Premium<sup>TM</sup> label** is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> products.

**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >



Fa

Transparency RoHS/REACh

#### Well-being performance

Reach Free Of Svhc

Toxic Heavy Metal Free	
Mercury Free	
Rohs Exemption Information	Yes

### **Certifications & Standards**

Reach Regulation	REACh Declaration
Eu Rohs Directive	Compliant
	EU RoHS Declaration
China Rohs Regulation	China RoHS declaration
	Pro-active China RoHS declaration (out of China RoHS legal scope)
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
Circularity Profile	End of Life Information
California Proposition 65	WARNING: This product can expose you to chemicals including: Antimony oxide & Antimony trioxide, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov