

Contactor, TeSys K, 3P, AC-3/ AC-3e, 440V, 9A, 1NC aux, 24V DC coil,with integral suppression device

LP1K0901BD3

Main

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

Complementary

Utilisation Category	AC-3	
ounsation oategory	AC-3e	
	AC-1	
	AC-1 AC-4	
	AC-4	
Poles Description	3P	
Power Pole Contact Composition	3 NO	
[Ue] Rated Operational Voltage	Power circuit: <= 690 V AC <= 400 Hz	
	Signalling circuit: <= 690 V AC <= 400 Hz	
[le] Rated Operational Current	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 Å (at <60 °C) at <= 690 V AC AC-1 for power circuit	
Control Circuit Type	DC standard	
[Uc] Control Circuit Voltage	24 V DC	
Motor Power Kw	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	
Auxiliary Contact Composition	1 NC	
[Uimp] Rated Impulse Withstand Voltage	8 kV	
Overvoltage Category	Ш	
[Ith] Conventional Free Air	20 A (at 60 °C) for power circuit	
Thermal Current	10 A (at 50 °C) for signalling circuit	
Irms Rated Making Capacity	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 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	

[Icw] Rated Short-Time Withstand Current	90 A 50 °C - 1 s for power circuit 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 IEC 00347
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
Combani Cinavit Valtana Limita	0 1 100 44511 (4 5000)
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 mm²solid
	Screw clamp terminals 1 cable(s) 0.754 mm²flexible without cable end
	Screw clamp terminals 1 cable(s) 0.342.5 mm²flexible with cable end
	Screw clamp terminals 2 cable(s) 1.54 mm²solid
	Screw clamp terminals 2 cable(s) 0.754 mm²flexible without cable end
	Screw clamp terminals 2 cable(s) 0.341.5 mm²flexible with cable end
	Power circuit: screw clamp terminals 2 cable(s) 1.5 mm²flexible with cable end
Maximum Operating Rate	3600 cyc/h
Coil Technology	Built-in bidirectional peak limiting diode suppressor
Auxiliary Contacts Type	type instantaneous 1 NC
Minimum Switching Current	5 mA for signalling circuit
Minimum Switching Voltage	17 V for signalling circuit
Mounting Support	Rail
	Plate
Tightening Torque	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	3040 ms coil energisation and NO closing
	10 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
Mechanical Durability	10 Mcycles
Electrical Durability	1.3 Mcycles 9 A AC-3 at Ue <= 440 V
Electrical Burasinty	1.3 Mcycles 9 A AC-3e at Ue <= 440 V
	0.16 Mcycles 20 A AC-1 at Ue <= 690 V
	0.02 Mcycles 54 A AC-4 at Ue <= 440 V
Height	58 mm
	45 mm

Depth	57 mm
Net Weight	0.225 kg

Environment

Standards	EN/IEC 60947-4-1 EN/IEC 60947-5-1 UL 60947-4-1 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	4.500 cm
Package 1 Width	6.000 cm
Package 1 Length	6.500 cm
Package 1 Weight	225.000 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	9.248 kg
Unit Type Of Package 3	P06
Number Of Units In Package 3	640
Package 3 Height	75.000 cm
Package 3 Width	80.000 cm
Package 3 Length	60.000 cm
Package 3 Weight	155.968 kg

Contractual warranty

Warranty 18 months

Sustainability

Green PremiumTM **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-CO₂ 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 >





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 WARNING: This product can expose you to chemicals including: Antimony oxide &California Proposition 65 Antimony trioxide, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov