Product data sheet





TeSys

Contactor, TeSys K, 3P, AC-3, It or eq to 440V, 9A, 1 NC aux, 24VDC coil

LP1K0901BD3

Product availability: Stock - Normally stocked in distribution facility

Price*: 102.00 USD

Main Range

Product or Component Type	Contactor
Device short name	LP1K
contactor application	Motor control Resistive load
Complementary	
Utilisation category	AC-3 AC-3e
	AC-1 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 <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit 9 A (at <140 °F (60 °C)) at <= 440 V AC AC-3e for power circuit 20 A (at <140 °F (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 220230 V AC 50/60 Hz AC-3 4 kW 380415 V AC 50/60 Hz AC-3 4 kW 440/690 V AC 50/60 Hz AC-3 2.2 kW 220230 V AC 50/60 Hz AC-3e 4 kW 380415 V AC 50/60 Hz AC-3e 4 kW 440/690 V AC 50/60 Hz AC-3e 2.2 kW 220230 V AC 50/60 Hz AC-3e 4 kW 440/690 V AC 50/60 Hz AC-3e 2.2 kW 220230 V AC 50/60 Hz AC-4 4 kW 380415 V AC 50/60 Hz AC-4
Auxiliary contact composition	4 kW 440/690 V AC 50/60 Hz AC-4 1 NC
[Uimp] rated impulse withstand voltage	8 kV
Overvoltage category	III
[Ith] conventional free air thermal current	20 A (at 140 °F (60 °C)) for power circuit 10 A (at 122 °F (50 °C)) for signalling circuit
Irms rated making capacity	110 A AC for power circuit conforming to IEC 60947

Price is "List Price" and may be subject to a trade discount - check with your local distributor or retailer for actual price.

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
	70 A at 660690 V conforming to IEC 60947
[Icw] rated short-time withstand	90 A 122 °F (50 °C) - 1 s for power circuit
current	85 A 122 °F (50 °C) - 5 s for power circuit
	80 A 122 °F (50 °C) - 10 s for power circuit 60 A 122 °F (50 °C) - 30 s for power circuit
	45 A 122 °F (50 °C) - 1 min for power circuit
	40 A 122 °F (50 °C) - 3 min for power circuit
	20 A 122 °F (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 UL 508 Power circuit 690 V IEC 60947-4-1
	Signalling circuit 690 V IEC 60947-4-1
	Signalling circuit 690 V IEC 60947-4-1
	Signalling circuit 600 V UL 508
	Power circuit 600 V CSA C22.2 No 14
	Signalling circuit 600 V CSA C22.2 No 14
Insulation resistance	> 10 MOhm for signalling circuit
Inrush power in W	3 W 68 °F (20 °C))
Hold-in power consumption in W	3 W 68 °F (20 °C)
Heat dissipation	1.3 W
Control circuit voltage limits	Operational: 0.81.15 Uc (at <122 °F (50 °C)) Drop-out: >= 0.10 Uc (at <122 °F (50 °C))
Connections - terminals	screw clamp terminals 1 0.0020.006 in² (1.54 mm²)solid
	screw clamp terminals 1 0.0010.006 in² (0.754 mm²)flexible without cable end
	screw clamp terminals 1 0.00050.004 in² (0.342.5 mm²)flexible with cable end
	screw clamp terminals 2 0.0020.006 in ² (1.54 mm ²)solid
	screw clamp terminals 2 0.0010.006 in² (0.754 mm²)flexible without cable end
	screw clamp terminals 2 0.00050.002 in² (0.341.5 mm²)flexible with cable end Power circuit screw clamp terminals 2 0.002 in² (1.5 mm²)flexible with cable end
Maximum operating rate	3600 cyc/h
Coil technology	Built-in bidirectional peak limiting diode suppressor
Auxiliary contacts 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	7.0811.5 lbf.in (0.81.3 N.m) screw clamp terminals Philips No 2
	7.0811.5 lbf.in (0.81.3 N.m) screw clamp terminals flat Ø 6 mm 7.0811.5 lbf.in (0.81.3 N.m) screw clamp terminals pozidriv No 2
Operating time	3040 ms coil energisation and NO closing
-pording unit	10 ms coil de-energisation and NO opening
Safety reliability level	B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1
	B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1
Mechanical durability	10 Mcycles

Electrical durability	1.3 Mcycles 9 A AC-3 <= 440 V 1.3 Mcycles 9 A AC-3e <= 440 V 0.16 Mcycles 20 A AC-1 <= 690 V 0.02 Mcycles 54 A AC-4 <= 440 V	
Height	2.3 in (58 mm)	
Width	1.8 in (45 mm)	
Depth	2.2 in (57 mm)	
Net Weight	0.496 lb(US) (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
IP degree of protection	IP2X
Ambient air temperature for operation	-13122 °F (-2550 °C)
Ambient Air Temperature for Storage	-58176 °F (-5080 °C)
Operating altitude	6561.68 ft (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

Ordering and shipping details

Category	US10l1222321
Discount Schedule	0112
GTIN	3389110428506
Returnability	Yes
Country of origin	ID

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	1.772 in (4.500 cm)
Package 1 Width	2.362 in (6.000 cm)
Package 1 Length	2.559 in (6.500 cm)
Package 1 Weight	7.937 oz (225.000 g)
Unit Type of Package 2	S02
Number of Units in Package 2	40
Package 2 Height	5.906 in (15.000 cm)
Package 2 Width	11.811 in (30.000 cm)

Package 2 Length	15.748 in (40.000 cm)
Package 2 Weight	20.388 lb(US) (9.248 kg)
Unit Type of Package 3	P06
Number of Units in Package 3	640
Package 3 Height	29.528 in (75.000 cm)
Package 3 Width	31.496 in (80.000 cm)
Package 3 Length	23.622 in (60.000 cm)
Package 3 Weight	343.851 lb(US) (155.968 kg)

Contractual warranty

Warranty 18 months



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Transparency RoHS/REACh

Well-being performance

⊘	Reach Free Of Svhc	
⊘	Toxic Heavy Metal Free	
②	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