Product datasheet

Specifications





TeSys K contactor - 3P - AC-3 <= 440 V 6 A - 1 NC aux. - 24 V DC coil

LP1K0601BD

Main

Wall		
Range	TeSys	
product or component type	Contactor	
Device short name	LP1K	
contactor application	Motor control	
Complementary		
Utilisation category	AC-3	
	AC-3e	

Utilisation category	AC-3
	AC-3e
	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	6 A (at <60 °C) at <= 440 V AC AC-3 for power circuit 6 A (at <60 °C) at <= 440 V AC AC-3e for power circuit
Control circuit type	DC standard
[Uc] control circuit voltage	24 V DC
Motor power kW	1.5 kW at 220230 V AC 50/60 Hz AC-3 2.2 kW at 380415 V AC 50/60 Hz AC-3 3 kW at 440/690 V AC 50/60 Hz AC-3 1.5 kW at 220230 V AC 50/60 Hz AC-3e 2.2 kW at 380415 V AC 50/60 Hz AC-3e 3 kW at 440/690 V AC 50/60 Hz AC-3e 1.5 kW at 220230 V AC 50/60 Hz AC-4 2.2 kW at 380415 V AC 50/60 Hz AC-4 3 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	III
[Ith] conventional free air thermal current	20 A (at 60 °C) for power circuit 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 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
C C	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 ² solid
	Screw clamp terminals 1 cable(s) 0.754 mm ² flexible without cable end
	Screw clamp terminals 1 cable(s) 0.342.5 mm ² flexible with cable end
	Screw clamp terminals 2 cable(s) 1.54 mm ² solid
	Screw clamp terminals 2 cable(s) 0.754 mm ² flexible without cable end
	Screw clamp terminals 2 cable(s) 0.74 min headle without cable end
	Power circuit: screw clamp terminals 2 cable(s) 1.5 mm ² flexible with cable end
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Maximum operating rate	3600 cyc/h
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
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
calley rendenity level	, ,
	B10d = 20000000 cycles contactor with mechanical load conforming to EN/ISO 13849-1
Mechanical durability	10 Mcycles
Electrical durability	1.3 Movelop 6.4 AC 3 at $l_{10} = 440 V$
	1.3 Mcycles 6 A AC-3 at Ue <= 440 V
	1.3 Mcycles 6 A AC-3e at Ue <= 440 V 0.05 Mcycles 36 A AC-4 at Ue <= 440 V
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Height	58 mm
Width	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	221.000 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	9.093 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	153.488 kg

Contractual warranty

Warranty

18 months

Sustainability Screen Premium

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

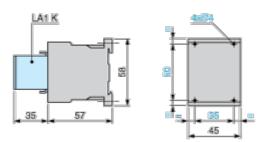
Reach Regulation	REACh Declaration
Eu Rohs Directive	Compliant EU RoHS Declaration
China Rohs Regulation	China RoHS declaration Pro-active China RoHS declaration (out of China RoHS legal scope)
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
Circularity Profile	End of Life Information

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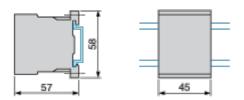
Dimensions Drawings

Dimensions

Contactors LC1 K, LP1 K, LP4 K: Mounting on Panel



Contactors LC1 K, LP1 K, LP4 K: Mounting on Rail AM1 DP200 or AM1 DE200 (35 mm)

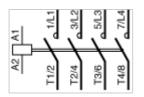


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Connections and Schema

Wiring

3-Pole Contactors: 3P + N/O



3-Pole Contactors: 3P + N/C

