## **Product datasheet**

Specification





## Contactor, TeSys K, 3P, AC-3/ AC-3e, 440V, 6A, 1NC aux, 24V DC coil, spring terminals

LP1K06013BD

#### Main

Mairi		
Range	TeSys	
product or component type	Contactor	
Device short name	LP1K	
contactor application	Motor control	
Complementary	,	
Utilisation category	AC-3	
	AC-3e	
	AC-4	

power pole contact composition
[Ue] rated operational voltage

poles description

[Oc] rated operational voltage	Power circuit. <= 090 V AC <= 400 HZ
	Signalling circuit: <= 690 V AC <= 400 Hz
	·

3P 3 NO

[le] rated operational current	6 A (at <60 °C) at <= 440 V AC AC-3 for power circuit
	6 A (at <60 $^{\circ}$ C) at <= 440 V AC AC-3e for power circuit

Control circuit type	DC Standar	
[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 220...230 V AC 50/60 Hz AC-3e 2.2 kW at 380...415 V AC 50/60 Hz AC-3e 3 kW at 440/690 V AC 50/60 Hz AC-3e 1.5 kW at 220...230 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

[lth] conventional free air thermal current	16 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 609

Rated breaking capacity	110 A at 220230 V conforming to IEC 60947

110 A at 380...400 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 660...690 V conforming to IEC 60947



[lcw] 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
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 16 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	Spring terminals 1 cable(s) 0.751.5 mm²solid Spring terminals 1 cable(s) 0.751.5 mm²flexible without cable end Spring terminals 2 cable(s) 0.751.5 mm²flexible without cable end
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
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 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
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	Ititude 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	4.800 cm
Package 1 Width	6.500 cm
Package 1 Length	6.200 cm
Package 1 Weight	226.000 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	9.443 kg

### **Contractual warranty**

Warranty 18 months



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Transparency RoHS/REACh

#### Well-being performance

<b>⊘</b>	Reach Free Of Svhc	
<b>⊘</b>	Toxic Heavy Metal Free	
<b>⊘</b>	Mercury Free	
<b>⊘</b>	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