# **Product datasheet**

Specifications





## TeSys K contactor - 3P - AC-3 <= 440 V 12 A - 1 NC aux. - 110 V DC coil

LP1K1201FD

#### ① Discontinued

### Main

Range	TeSys
Product or component type	Contactor
Device short name	LP1K
contactor application	Resistive load Motor control

## Complementary

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	12 A (at <60 °C) at <= 440 V AC AC-3 for power circuit
	12 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
Control circuit type	DC standard
[Uc] control circuit voltage	110 V DC
Motor power kW	3 kW at 220230 V AC 50/60 Hz AC-3
	5.5 kW at 380415 V AC 50/60 Hz AC-3
	5.5 kW at 440 V AC 50/60 Hz AC-3
	4 kW at 690 V AC 50/60 Hz AC-3
	3 kW at 220230 V AC 50/60 Hz AC-3e
	5.5 kW at 380415 V AC 50/60 Hz AC-3e
	5.5 kW at 440 V AC 50/60 Hz AC-3e
	4 kW at 690 V AC 50/60 Hz AC-3e
	3 kW at 220230 V AC 50/60 Hz AC-4
	5.5 kW at 380415 V AC 50/60 Hz AC-4
	5.5 kW at 440 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	20 A (at 60 °C) for power circuit
current	10 A (at 50 °C) for signalling circuit
Irms rated making capacity	144 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 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	115 A 50 °C - 1 s for power circuit
current	105 A 50 °C - 5 s for power circuit
	100 A 50 °C - 10 s for power circuit
	75 A 50 °C - 30 s for power circuit
	55 A 50 °C - 1 min for power circuit
	50 A 50 °C - 3 min for power circuit 25 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
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	Plate Rail
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 12 A AC-3 at Ue <= 440 V 1.3 Mcycles 12 A AC-3e at Ue <= 440 V 0.3 Mcycles 20 A AC-1 at Ue <= 690 V 0.02 Mcycles 72 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	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	6.6 cm
Package 1 Width	4.8 cm
Package 1 Length	6.2 cm
Package 1 Weight	220.0 g

# **Contractual warranty**

Warranty

18 months

## Sustainability Screen Premium

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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