

Product data sheet

Specifications



contactor, TeSys K, 3P, AC-3, 440V, 6A, 1NO aux, 24V DC coil, screw clamps

LP1K0610BD

Main

Range	TeSys
Range of product	TeSys K
Product or component type	Contacteur
Device short name	LP1K
Contacteur application	Motor control
Utilisation category	AC-4 AC-3
Poles description	3P
Pole contact composition	3 NO
[Ie] rated operational current	6 A at <= 440 V AC AC-3 for power circuit
Auxiliary contact composition	1 NO

Complementary

Auxiliary contacts type	type instantaneous 1 NO
Control circuit voltage limits	Operational: 0.8...1.15 U _c (at <50 °C) Drop-out: 0.1...0.75 U _c (at <50 °C)
[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
[Uimp] rated impulse withstand voltage	8 kV
Overvoltage category	III
Mounting support	Rail Plate
Flame retardance	V1 conforming to UL 94 Requirement 2 conforming to NF F 16-101 Requirement 2 conforming to NF F 16-102
Tightening torque	1.3 N.m - on screw clamp terminals - with screwdriver Philips No 2 1.3 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm 1.3 N.m - on screw clamp terminals - with screwdriver pozidriv No 2
[Ue] rated operational voltage	Power circuit: 690 V AC 50/60 Hz Signalling circuit: <= 690 V AC 50/60 Hz
[I _{th}] conventional free air thermal current	20 A (at 50 °C) for power circuit 10 A (at 50 °C) for signalling circuit

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Irms rated making capacity	110 A AC for power circuit conforming to NF C 63-110 110 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 415 V conforming to IEC 60947 110 A at 440 V conforming to IEC 60947 80 A at 500 V conforming to IEC 60947 110 A at 220...230 V conforming to IEC 60947 110 A at 380...400 V conforming to IEC 60947 70 A at 660...690 V conforming to IEC 60947
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 - lth 20 A 50 Hz for power circuit
Inrush power in W	3 W (at 20 °C)
Hold-in power consumption in W	3 W at 20 °C
Operating time	30...40 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
Maximum operating rate	3600 cyc/h
Minimum switching current	5 mA for signalling circuit
Minimum switching voltage	17 V for signalling circuit
Insulation resistance	> 10 MOhm for signalling circuit
Depth	57 mm
Net weight	0.225 kg

Environment

Product certifications	UL CSA UKCA
Ambient air temperature for storage	-50...80 °C
Operating altitude	2000 m without derating

Packing Units

Unit Type of Package 1	PCE
Package 1 Length	6.5 cm
Number of Units in Package 1	1
Package 3 Width	80.0 cm
Package 3 Weight	154.416 kg
Package 2 Width	30.0 cm
Package 2 Height	15.0 cm
Package 2 Weight	9.151 kg
Number of Units in Package 3	640
Unit Type of Package 3	P06
Package 3 Height	75.0 cm
Package 3 Length	60.0 cm
Package 1 Width	6.0 cm
Package 1 Height	5.0 cm

Package 1 Weight	223.0 g
Number of Units in Package 2	40
Unit Type of Package 2	S02
Package 2 Length	40.0 cm

Offer Sustainability

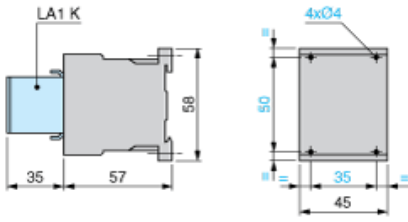
Sustainable offer status	Green Premium product
REACH Regulation	REACH Declaration
REACH free of SVHC	Yes
EU RoHS Directive	Compliant EU RoHS Declaration
Toxic heavy metal free	Yes
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS declaration Pro-active China RoHS declaration (out of China RoHS legal scope)
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
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

Contractual warranty

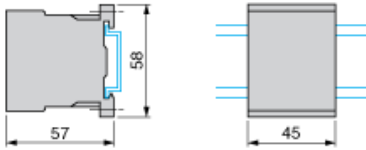
Warranty	18 months
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Dimensions

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

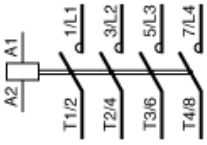


Contactors LC1 K, LP1 K, LP4 K: Mounting on Rail AM1 DP200 or AM1 DE200 (35 mm)



Wiring

3-Pole Contactors: 3P + N/O



3-Pole Contactors: 3P + N/C

