

# Product data sheet

Specifications



## Contactor, TeSys K, 4P, 4 NO, AC-1, It or eq to 440V, 20A, 24VDC coil

LP1K12004BD

**Product availability : Stock - Normally stocked in distribution facility**

### Main

Range of Product	TeSys K
Range	TeSys
Product or Component Type	Contactor
Device short name	LP1K
Contactor application	Resistive load
Utilisation category	AC-1
Poles description	4P
Pole contact composition	4 NO
[Ie] rated operational current	20 A 122 °F (50 °C) <= 440 V AC AC-1 power circuit 16 A 158 °F (70 °C) 690 V AC AC-1 power circuit

### Complementary

Control circuit voltage limits	Operational 0.8...1.15 U <sub>c</sub> 122 °F (50 °C) Drop-out 0.1...0.75 U <sub>c</sub> 122 °F (50 °C)
[Ui] rated insulation voltage	Power circuit 600 V UL 508 Power circuit 690 V IEC 60947-4-1 Power circuit 600 V CSA C22.2 No 14
[Uimp] rated impulse withstand voltage	8 kV
Overvoltage category	III
Mounting Support	Plate Rail
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	7.08...11.51 lbf.in (0.8...1.3 N.m) screw clamp terminals Philips No 2 7.08...11.51 lbf.in (0.8...1.3 N.m) screw clamp terminals flat Ø 6 mm 7.08...11.51 lbf.in (0.8...1.3 N.m) screw clamp terminals pozidriv No 2
[Ue] rated operational voltage	Power circuit 690 V AC 50/60 Hz
[I <sub>th</sub> ] conventional free air thermal current	20 A 122 °F (50 °C) power circuit
I <sub>rms</sub> rated making capacity	144 A AC power circuit NF C 63-110 144 A AC power circuit IEC 60947
Rated breaking capacity	110 A 440 V IEC 60947 80 A 500 V IEC 60947 70 A 660...690 V IEC 60947

<b>Associated fuse rating</b>	25 A gG <= 440 V power circuit 25 A aM power circuit
<b>Average impedance</b>	3 mOhm - lth 20 A 50 Hz power circuit
<b>Inrush power in W</b>	3 W 68 °F (20 °C))
<b>Hold-in power consumption in W</b>	3 W 68 °F (20 °C)
<b>Operating time</b>	30...40 ms coil energisation and NO closing 10 ms coil de-energisation and NO opening
<b>Safety reliability level</b>	B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1
<b>Mechanical durability</b>	10 Mcycles
<b>Maximum operating rate</b>	3600 cyc/h
<b>Height</b>	2.28 in (58 mm)
<b>Width</b>	1.77 in (45 mm)
<b>Depth</b>	2.24 in (57 mm)
<b>Net Weight</b>	0.50 lb(US) (0.225 kg)

## Environment

<b>Product Certifications</b>	UL CSA UKCA
<b>Ambient Air Temperature for Operation</b>	-13...122 °F (-25...50 °C)
<b>Ambient Air Temperature for Storage</b>	-58...176 °F (-50...80 °C)
<b>Operating altitude</b>	6561.68 ft (2000 m) without derating

## Ordering and shipping details

<b>Category</b>	22321-CTR,K-LINE,DC,OPEN,NONREV
<b>Discount Schedule</b>	I12
<b>GTIN</b>	3389110790627
<b>Returnability</b>	Yes
<b>Country of origin</b>	FR

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	2.56 in (6.500 cm)
<b>Package 1 Width</b>	2.44 in (6.200 cm)
<b>Package 1 Length</b>	1.89 in (4.800 cm)
<b>Package 1 Weight</b>	7.83 oz (222.000 g)
<b>Unit Type of Package 2</b>	S02
<b>Number of Units in Package 2</b>	40
<b>Package 2 Height</b>	5.91 in (15.000 cm)
<b>Package 2 Width</b>	11.81 in (30.000 cm)
<b>Package 2 Length</b>	15.75 in (40.000 cm)
<b>Package 2 Weight</b>	20.44 lb(US) (9.270 kg)

## Offer Sustainability

<b>Sustainable offer status</b>	Green Premium product
<b>California proposition 65</b>	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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>
<b>REACH Regulation</b>	<a href="#">REACH Declaration</a>
<b>REACH free of SVHC</b>	Yes
<b>EU RoHS Directive</b>	Compliant <a href="#">EU RoHS Declaration</a>
<b>Toxic heavy metal free</b>	Yes
<b>Mercury free</b>	Yes
<b>China RoHS Regulation</b>	<a href="#">China RoHS declaration</a> Pro-active China RoHS declaration (out of China RoHS legal scope)
<b>RoHS exemption information</b>	Yes
<b>Environmental Disclosure</b>	<a href="#">Product Environmental Profile</a>
<b>Circularity Profile</b>	<a href="#">End of Life Information</a>
<b>WEEE</b>	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

## Contractual warranty

<b>Warranty</b>	18 months
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## Recommended replacement(s)