

# Product data sheet

Specifications



Contactor, TeSys K, 4P, 2 NO + 2 NC, AC-1, lt or eq to 440V, 20A, 24VDC coil

LP1K09008BD3

Product availability: Stock - Normally stocked in distribution facility

Price\*: 108.00 USD

## Main

Range	TeSys
Product or Component Type	Contactor
Device short name	LP1K
contactor application	Resistive load

## Complementary

Utilisation category	AC-1
poles description	4P
power pole contact composition	2 NO + 2 NC
[Ue] rated operational voltage	Power circuit <= 690 V AC <= 400 Hz Signalling circuit <= 690 V AC <= 400 Hz
[Ie] rated operational current	20 A (at <140 °F (60 °C)) at <= 690 V AC AC-1 for power circuit
Control circuit type	DC standard
[Uc] control circuit voltage	24 V DC
[Uimp] rated impulse withstand voltage	8 kV
Overvoltage category	III
[Ith] conventional free air thermal current	20 A (at 140 °F (60 °C)) for power circuit 10 A (at 122 °F (50 °C)) for signalling circuit
Irms rated making capacity	110 A AC for power circuit conforming to IEC 60947
Rated breaking capacity	110 A at 220...230 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
[Icw] rated short-time withstand current	90 A 122 °F (50 °C) - 1 s for power circuit 85 A 122 °F (50 °C) - 5 s for power circuit 80 A 122 °F (50 °C) - 10 s for power circuit 60 A 122 °F (50 °C) - 30 s for power circuit 45 A 122 °F (50 °C) - 1 min for power circuit 40 A 122 °F (50 °C) - 3 min for power circuit 20 A 122 °F (50 °C) - >= 15 min for power circuit
Associated fuse rating	25 A gG at <= 440 V for power circuit 25 A aM for power circuit
Average impedance	3 mOhm - Ith 20 A 50 Hz for power circuit

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

<b>[Ui] rated insulation voltage</b>	Power circuit 600 V UL 508 Power circuit 690 V IEC 60947-4-1 Power circuit 600 V CSA C22.2 No 14
<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>Heat dissipation</b>	1.3 W
<b>Control circuit voltage limits</b>	Operational: 0.8...1.15 U <sub>c</sub> (at <122 °F (50 °C)) Drop-out: >= 0.10 U <sub>c</sub> (at <122 °F (50 °C))
<b>Connections - terminals</b>	screw clamp terminals 1 0.002...0.006 in <sup>2</sup> (1.5...4 mm <sup>2</sup> )solid screw clamp terminals 1 0.001...0.006 in <sup>2</sup> (0.75...4 mm <sup>2</sup> )flexible without cable end screw clamp terminals 1 0.0005...0.004 in <sup>2</sup> (0.34...2.5 mm <sup>2</sup> )flexible with cable end screw clamp terminals 2 0.002...0.006 in <sup>2</sup> (1.5...4 mm <sup>2</sup> )solid screw clamp terminals 2 0.001...0.006 in <sup>2</sup> (0.75...4 mm <sup>2</sup> )flexible without cable end screw clamp terminals 2 0.0005...0.002 in <sup>2</sup> (0.34...1.5 mm <sup>2</sup> )flexible with cable end Power circuit screw clamp terminals 2 0.002 in <sup>2</sup> (1.5 mm <sup>2</sup> )flexible with cable end
<b>Maximum operating rate</b>	3600 cyc/h
<b>Coil technology</b>	Built-in bidirectional peak limiting diode suppressor
<b>Mounting Support</b>	Plate Rail
<b>Tightening torque</b>	7.08...11.5 lbf.in (0.8...1.3 N.m) screw clamp terminals Philips No 2 7.08...11.5 lbf.in (0.8...1.3 N.m) screw clamp terminals flat Ø 6 mm 7.08...11.5 lbf.in (0.8...1.3 N.m) screw clamp terminals pozidriv No 2
<b>Operating time</b>	30...40 ms coil energisation and NO closing 10 ms coil de-energisation and NO opening 25...35 ms coil energisation and NC opening 15 ms coil de-energisation and NC closing
<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>Electrical durability</b>	0.16 Mcycles 20 A AC-1 <= 690 V
<b>Height</b>	2.3 in (58 mm)
<b>Width</b>	1.8 in (45 mm)
<b>Depth</b>	2.2 in (57 mm)
<b>Net Weight</b>	0.496 lb(US) (0.225 kg)

## Environment

<b>Standards</b>	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
<b>Product Certifications</b>	CB Scheme CCC UL CSA EAC CE UKCA
<b>IP degree of protection</b>	IP2X
<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

<b>Flame retardance</b>	V1 conforming to UL 94 Requirement 2 conforming to NF F 16-101 Requirement 2 conforming to NF F 16-102
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## Ordering and shipping details

<b>Category</b>	US1011222321
<b>Discount Schedule</b>	0112
<b>GTIN</b>	3389110495867
<b>Returnability</b>	No
<b>Country of origin</b>	ID

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	2.559 in (6.500 cm)
<b>Package 1 Width</b>	2.441 in (6.200 cm)
<b>Package 1 Length</b>	1.890 in (4.800 cm)
<b>Package 1 Weight</b>	7.866 oz (223.000 g)
<b>Unit Type of Package 2</b>	S02
<b>Number of Units in Package 2</b>	40
<b>Package 2 Height</b>	5.906 in (15.000 cm)
<b>Package 2 Width</b>	11.811 in (30.000 cm)
<b>Package 2 Length</b>	15.748 in (40.000 cm)
<b>Package 2 Weight</b>	20.730 lb(US) (9.403 kg)

## Contractual warranty

<b>Warranty</b>	18 months
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## Sustainability

**Green Premium™ label** is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> 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](#)

**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](http://www.P65Warnings.ca.gov)