

# Product data sheet

Specifications



Reversing contactor, TeSys K, 3P, AC-3, It or eq to 440V 12 A, 1 NO, 24VDC coil

LP2K1210BD3

Product availability: Non-Stock - Not normally stocked in distribution facility

Price\*: 252.00 USD

## Main

Range	TeSys
Product Name	TeSys K
Product Or Component Type	Reversing contactor
Device Short Name	LP2K
Device Application	Control
Contactors Application	Resistive load Motor control
Utilisation Category	AC-3 AC-4 AC-1 AC-3e
Device Presentation	Preassembled with reversing power busbar
Poles Description	3P
Power Pole Contact Composition	3 NO
[Ue] Rated Operational Voltage	Power circuit 690 V AC 50/60 Hz Signalling circuit <= 690 V AC 50/60 Hz
[Ie] Rated Operational Current	20 A (at <122 °F (50 °C)) at <= 440 V AC AC-1 for power circuit 16 A (at <158 °F (70 °C)) at 690 V AC AC-1 for power circuit 12 A at <= 440 V AC AC-3 for power circuit 12 A at <= 440 V AC AC-3e for power circuit
Motor Power Kw	4 kW 480 V AC 50/60 Hz 4 kW 500...600 V AC 50/60 Hz 4 kW 660...690 V AC 50/60 Hz 3 kW 220...230 V AC 50/60 Hz 5.5 kW 380...415 V AC 50/60 Hz 5.5 kW 440 V AC 50/60 Hz
Control Circuit Type	DC standard
[Uc] Control Circuit Voltage	24 V DC
Auxiliary Contact Composition	1 NO
[Uimp] Rated Impulse Withstand Voltage	8 kV
Overvoltage Category	III
[Ith] Conventional Free Air Thermal Current	20 A (at 122 °F (50 °C)) for power circuit 10 A (at 122 °F (50 °C)) for signalling circuit
Irms Rated Making Capacity	110 A AC for signalling circuit conforming to IEC 60947 144 A AC for power circuit conforming to NF C 63-110 144 A AC for power circuit conforming to IEC 60947

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

<b>Rated Breaking Capacity</b>	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
<b>[Icw] Rated Short-Time Withstand Current</b>	115 A 122 °F (50 °C) - 1 s for power circuit 105 A 122 °F (50 °C) - 5 s for power circuit 100 A 122 °F (50 °C) - 10 s for power circuit 75 A 122 °F (50 °C) - 30 s for power circuit 55 A 122 °F (50 °C) - 1 min for power circuit 50 A 122 °F (50 °C) - 3 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 25 A 122 °F (50 °C) - >= 15 min for power circuit
<b>Associated Fuse Rating</b>	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
<b>Average Impedance</b>	3 mOhm - lth 20 A 50 Hz for power circuit
<b>[Ui] Rated Insulation Voltage</b>	Power circuit 600 V UL 508 Power circuit 690 V IEC 60947-4-1 Signalling circuit 690 V IEC 60947-4-1 Signalling circuit 690 V IEC 60947-5-1 Signalling circuit 600 V UL 508 Power circuit 600 V CSA C22.2 No 14 Signalling circuit 600 V CSA C22.2 No 14
<b>Electrical Durability</b>	1.3 Mcycles 12 A AC-3 <= 440 V 1.3 Mcycles 12 A AC-3e <= 440 V 0.3 Mcycles 20 A AC-1 <= 690 V 0.02 Mcycles 72 A AC-4 <= 440 V
<b>Interlocking Type</b>	Mechanical
<b>Mounting Support</b>	Plate Rail
<b>Standards</b>	EN/IEC 60947-4-1 GB/T 14048.4 UL 60947-4-1 CSA C22.2 No 60947-4-1 JIS C8201-4-1
<b>Product Certifications</b>	CB Scheme CCC UL CSA EAC CE UKCA
<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
<b>Tightening Torque</b>	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
<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>	5 Mcycles
<b>Maximum Operating Rate</b>	3600 cyc/h

## Complementary

<b>Coil Technology</b>	Built-in bidirectional peak limiting diode suppressor
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<b>Control Circuit Voltage Limits</b>	Operational: 0.8...1.15 Uc (at <122 °F (50 °C)) Drop-out: 0.1...0.75 Uc (at <122 °F (50 °C))
<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>	3 W
<b>Auxiliary Contacts Type</b>	Instantaneous 1 NO
<b>Minimum Switching Current</b>	5 mA for signalling circuit
<b>Minimum Switching Voltage</b>	17 V for signalling circuit
<b>Non Overlap Distance</b>	0.02 in (0.5 mm)
<b>Insulation Resistance</b>	> 10 MOhm for signalling circuit

## Environment

<b>Ip Degree Of Protection</b>	IP20 VDE 0106
<b>Protective Treatment</b>	TC IEC 60068 TC DIN 50016
<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
<b>Mechanical Robustness</b>	Shocks contactor closed, on Z axis15 Gn for 11 ms IEC 60068-2-27 Shocks contactor opened, on Z axis10 Gn for 11 ms IEC 60068-2-27 Vibrations contactor closed4 Gn, 5...300 Hz IEC 60068-2-6 Vibrations contactor opened2 Gn, 5...300 Hz IEC 60068-2-6 Shocks contactor opened, on X axis10 Gn for 11 ms IEC 60068-2-27 Shocks contactor opened, on Y axis6 Gn for 11 ms IEC 60068-2-27 Shocks contactor closed, on X axis15 Gn for 11 ms IEC 60068-2-27 Shocks contactor closed, on Y axis10 Gn for 11 ms IEC 60068-2-27
<b>Height</b>	2.3 in (58 mm)
<b>Width</b>	3.5 in (90 mm)
<b>Depth</b>	2.2 in (57 mm)
<b>Net Weight</b>	1.06 lb(US) (0.48 kg)

## Ordering and shipping details

<b>Category</b>	US10I1222322
<b>Discount Schedule</b>	0I12
<b>Gtin</b>	3389118110168
<b>Returnability</b>	No
<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>	2.40 in (6.100 cm)
<b>Package 1 Width</b>	2.638 in (6.700 cm)
<b>Package 1 Length</b>	3.66 in (9.300 cm)

<b>Package 1 Weight</b>	15.87 oz (450.000 g)
<b>Unit Type Of Package 2</b>	S02
<b>Number Of Units In Package 2</b>	20
<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>	20.61 lb(US) (9.348 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)