## Product data sheet

Specifications





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

LP2K1210BD

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

#### Price\*: 232.00 USD

#### Main

Range	TeSys
Product Name	TeSys K
Product Or Component Type	Reversing contactor
Device Short Name	LP2K
Device Application	Control
Contactor Application	Motor control Resistive load
Utilisation Category	AC-3 AC-3e AC-4 AC-1
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
[le] Rated Operational Current	12 A (at <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit 12 A (at <140 °F (60 °C)) at <= 440 V AC AC-3e for power circuit 20 A (at <140 °F (60 °C)) at <= 690 V AC AC-1 for power circuit
Motor Power Kw	3 kW 220230 V AC 50/60 Hz 5.5 kW 380415 V AC 50/60 Hz 5.5 kW 440 V AC 50/60 Hz 4 kW 690 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 140 °F (60 °C)) for power circuit 10 A (at 122 °F (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

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

[Icw] Rated Short-Time Withstand	115 A 122 °F (50 °C) - 1 s for power circuit
Current	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
	25 A 122 °F (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 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
Electrical Durability	1.3 Moveles 12.8 AC 3 $c = 140$ V
	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
Interlocking Type	Mechanical
Mounting Support	Rail
	Plate
Standards	EN/IEC 60947-4-1
	GB/T 14048.4
	UL 60947-4-1
	CSA C22.2 No 60947-4-1
	JIS C8201-4-1
Product Certifications	CB Scheme
	CCC
	UL
	CSA EAC
	EAC CE
	UKCA
Connections - Terminals	screw clamp terminals 1 0.000.01 in² (1.54 mm²)solid
	screw clamp terminals 1 0.000.01 in <sup>2</sup> (0.754 mm <sup>2</sup> )flexible without cable end
	screw clamp terminals 1 0.000.00 in <sup>2</sup> (0.342.5 mm <sup>2</sup> )flexible with cable end
	screw clamp terminals 2 0.000.01 in <sup>2</sup> (1.54 mm <sup>2</sup> )solid
	screw clamp terminals 2 0.000.01 in <sup>2</sup> (0.754 mm <sup>2</sup> )flexible without cable end screw clamp terminals 2 0.000.00 in <sup>2</sup> (0.341.5 mm <sup>2</sup> )flexible with cable end
Tightening Torque	
ngnoning rorque	7.0811.51 lbf.in (0.81.3 N.m) screw clamp terminals Philips No 2 7.0811.51 lbf.in (0.81.3 N.m) screw clamp terminals flat Ø 6 mm
	7.0811.51 lbf.in (0.81.3 N.m) screw clamp terminals hat b 0 him 7.0811.51 lbf.in (0.81.3 N.m) 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 EN/ISO 13849-1
	B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1
Mechanical Durability	5 Mcycles
Maximum Operating Rate	3600 cyc/h

## Complementary

Control Circuit Voltage Limits	Operational: 0.81.15 Uc (at <122 °F (50 °C)) Drop-out: 0.10.75 Uc (at <122 °F (50 °C))
Inrush Power In W	3 W 68 °F (20 °C))

Hold-In Power Consumption In W	3 W 68 °F (20 °C)
Heat Dissipation	3 W
Auxiliary Contacts Type	Instantaneous 1 NO
Minimum Switching Current	5 mA for signalling circuit
Minimum Switching Voltage	17 V for signalling circuit
Non Overlap Distance	0.02 in (0.5 mm)
Insulation Resistance	> 10 MOhm for signalling circuit

### Environment

Ip Degree Of Protection	IP20 VDE 0106
Protective Treatment	TC IEC 60068 TC DIN 50016
Ambient Air Temperature For Operation	-13122 °F (-2550 °C)
Ambient Air Temperature For Storage	-58176 °F (-5080 °C)
Operating Altitude	6561.68 ft (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
Mechanical Robustness	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, 5300 Hz IEC 60068-2-6 Vibrations contactor opened2 Gn, 5300 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
Height	2.28 in (58 mm)
Width	3.54 in (90 mm)
Depth	2.24 in (57 mm)
Net Weight	1.06 lb(US) (0.48 kg)

## Ordering and shipping details

Category	US10I1222322
Discount Schedule	0 12
Gtin	03389110791105
Returnability	No
Country Of Origin	FR

## **Packing Units**

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	2.48 in (6.3 cm)
Package 1 Width	2.28 in (5.8 cm)
Package 1 Length	3.58 in (9.1 cm)
Package 1 Weight	15.80 oz (448.0 g)
Unit Type Of Package 2	S02

Number Of Units In Package 2	20
Package 2 Height	5.91 in (15.0 cm)
Package 2 Width	11.81 in (30.0 cm)
Package 2 Length	15.75 in (40.0 cm)
Package 2 Weight	20.47 lb(US) (9.283 kg)

## **Contractual warranty**

Warranty

18 months

## Sustainability Screen Premium

**Green Premium<sup>TM</sup> label** is Schneider Electric's commitment to delivering products with best-inclass 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