

# Product data sheet

Specifications



## Reversing contactor, TeSys K, 3P, AC-3, It or eq to 440V 9A, 1 NC, 24VDC coil

LP2K0901BD

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

### 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
[Ie] rated operational current	9 A (at <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit 9 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	2.2 kW 220...230 V AC 50/60 Hz 4 kW 380...415 V AC 50/60 Hz 4 kW 440/690 V AC 50/60 Hz
Control circuit type	DC standard
[Uc] control circuit voltage	24 V DC
Auxiliary contact composition	1 NC
[Uimp] rated impulse withstand voltage	8 kV
Overtoltage 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 110 A AC for signalling 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

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

<b>[Icw] rated short-time withstand current</b>	<p>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) - &gt;= 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</p>
<b>Associated fuse rating</b>	<p>25 A gG at &lt;= 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</p>
<b>Average impedance</b>	3 mOhm - lth 20 A 50 Hz for power circuit
<b>[Ui] rated insulation voltage</b>	<p>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</p>
<b>Electrical durability</b>	<p>1.3 Mcycles 9 A AC-3 &lt;= 440 V  1.3 Mcycles 9 A AC-3e &lt;= 440 V  0.16 Mcycles 20 A AC-1 &lt;= 690 V  0.02 Mcycles 54 A AC-4 &lt;= 440 V</p>
<b>Interlocking type</b>	Mechanical
<b>Mounting Support</b>	<p>Plate  Rail</p>
<b>Standards</b>	<p>EN/IEC 60947-4-1  GB/T 14048.4  UL 60947-4-1  CSA C22.2 No 60947-4-1  JIS C8201-4-1</p>
<b>Product Certifications</b>	<p>CB Scheme  CCC  UL  CSA  EAC  CE  UKCA</p>
<b>Connections - terminals</b>	<p>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</p>
<b>Tightening torque</b>	<p>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</p>
<b>Operating time</b>	<p>30...40 ms coil energisation and NO closing  10 ms coil de-energisation and NO opening</p>
<b>Safety reliability level</b>	<p>B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1  B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1</p>
<b>Mechanical durability</b>	5 Mcycles
<b>Maximum operating rate</b>	3600 cyc/h
<b>Complementary</b>	
<b>Control circuit voltage limits</b>	<p>Operational: 0.8...1.15 U<sub>c</sub> (at &lt;122 °F (50 °C))  Drop-out: 0.1...0.75 U<sub>c</sub> (at &lt;122 °F (50 °C))</p>
<b>Inrush power in W</b>	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 NC
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	-13...122 °F (-25...50 °C)
Ambient Air Temperature for Storage	-58...176 °F (-50...80 °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, 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
Height	2.3 in (58 mm)
Width	3.5 in (90 mm)
Depth	2.2 in (57 mm)
Net Weight	1.06 lb(US) (0.48 kg)

## Ordering and shipping details

Category	US10I1222322
Discount Schedule	0112
GTIN	3389110428537
Returnability	Yes
Country of origin	FR

## Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	2.559 in (6.500 cm)
Package 1 Width	3.622 in (9.200 cm)
Package 1 Length	2.362 in (6.000 cm)
Package weight(Lbs)	15.908 oz (451.000 g)
Unit Type of Package 2	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>	20.746 lb(US) (9.410 kg)
<b>Unit Type of Package 3</b>	P06
<b>Number of Units in Package 3</b>	160
<b>Package 3 Height</b>	17.717 in (45.000 cm)
<b>Package 3 Width</b>	23.622 in (60.000 cm)
<b>Package 3 Length</b>	31.496 in (80.000 cm)
<b>Package 3 Weight</b>	184.439 lb(US) (83.660 kg)

## Contractual warranty

<b>Warranty (in months)</b>	18
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## Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)



### Environmental footprint

Carbon footprint (kg CO2 eq, Total Life cycle) 229

## Use Better



### Materials and Substances

Packaging made with recycled cardboard Yes

Packaging without single use plastic Yes

[EU RoHS Directive](#) Compliant

REACH Regulation [REACH Declaration](#)

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)**

## Use Longer



### Lifetime extension

Repair No

## Use Again



### Repack and remanufacture

Circularity Profile [End of Life Information](#)

Take-back No

WEEE Label  The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

Offer Marketing Illustration

Product benefits / Features

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## TeSys K

### Reversing contactors



#### Flexibility

Designed with control voltages, low consumption, minimal noise levels, robust power connections, and a range of auxiliaries, and application-specific variants to meet diverse needs.



#### Safety

It provide ultimate protection with IP20 finger-safe terminals, built-in NO/NC auxiliary contacts, and IEC-certified mirror and mechanically linked contacts for safety applications.



#### Compact size

Up to 50% less volume is captured in your panels. One of the smallest contactors offerings in the market



Offer Marketing Illustration

Product benefits / Features

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## TeSys K Technical Benefits



- Preassembled with reversing power busbar
- Built-in in all 3 pole versions: 1NO or 1NC
- Up to 4 more by add-on blocks
- Wide variety of coil voltage and terminal connection options
- Delivers strong performance for its compact size and promises seamless integration in all applications and use
- Pre-wired power circuit connections as standard on screw clamp versions.
- It Features specific versions for railway (TeSys S207) and electrodomestic (TeSys S335) applications

Technical Illustration

Assembly's dimensions

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