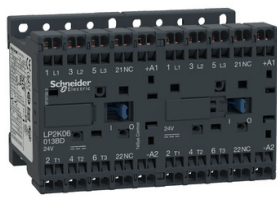


# Product data sheet

Specifications



reversing Contactor, TeSys K, 3P,  
AC-3/AC-3e,440V 6A, 1NC, 24V DC  
coil, spring terminals

LP2K06013BD

## Main

|                                             |                                                                                                                                                                                                                                                                          |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range                                       | TeSys                                                                                                                                                                                                                                                                    |
| Product name                                | TeSys K                                                                                                                                                                                                                                                                  |
| Product or component type                   | Reversing contactor                                                                                                                                                                                                                                                      |
| Device short name                           | LP2K                                                                                                                                                                                                                                                                     |
| Device application                          | Control                                                                                                                                                                                                                                                                  |
| Contactor application                       | Motor control                                                                                                                                                                                                                                                            |
| Utilisation category                        | AC-3<br>AC-3e<br>AC-4                                                                                                                                                                                                                                                    |
| 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<br>Signalling circuit <= 690 V AC 50/60 Hz                                                                                                                                                                                               |
| [Ie] rated operational current              | 6 A (at <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit<br>6 A (at <140 °F (60 °C)) at <= 440 V AC AC-3e for power circuit                                                                                                                                        |
| Motor power kW                              | 1.5 kW 220...230 V AC 50/60 Hz<br>2.2 kW 380...415 V AC 50/60 Hz<br>3 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                                                                                                                                                                                                                                                                     |
| Overvoltage category                        | III                                                                                                                                                                                                                                                                      |
| [Ith] conventional free air thermal current | 16 A (at 140 °F (60 °C)) for power circuit<br>10 A (at 122 °F (50 °C)) for signalling circuit                                                                                                                                                                            |
| Irms rated making capacity                  | 110 A AC for power circuit conforming to IEC 60947<br>110 A AC for signalling circuit conforming to IEC 60947                                                                                                                                                            |
| Rated breaking capacity                     | 110 A at 220...230 V conforming to IEC 60947<br>110 A at 380...400 V conforming to IEC 60947<br>110 A at 415 V conforming to IEC 60947<br>110 A at 440 V conforming to IEC 60947<br>80 A at 500 V conforming to IEC 60947<br>70 A at 660...690 V conforming to IEC 60947 |

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

|                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| [Icw] rated short-time withstand current | 90 A 122 °F (50 °C) - 1 s for power circuit<br>85 A 122 °F (50 °C) - 5 s for power circuit<br>80 A 122 °F (50 °C) - 10 s for power circuit<br>60 A 122 °F (50 °C) - 30 s for power circuit<br>45 A 122 °F (50 °C) - 1 min for power circuit<br>40 A 122 °F (50 °C) - 3 min for power circuit<br>20 A 122 °F (50 °C) - >= 15 min for power circuit<br>80 A - 1 s for signalling circuit<br>90 A - 500 ms for signalling circuit<br>110 A - 100 ms for signalling circuit |
| Associated fuse rating                   | 25 A gG at <= 440 V for power circuit<br>25 A aM for power circuit<br>10 A gG for signalling circuit conforming to IEC 60947<br>10 A gG for signalling circuit conforming to VDE 0660                                                                                                                                                                                                                                                                                   |
| Average impedance                        | 3 mOhm - lth 16 A 50 Hz for power circuit                                                                                                                                                                                                                                                                                                                                                                                                                               |
| [Ui] rated insulation voltage            | Power circuit 600 V UL 508<br>Power circuit 690 V IEC 60947-4-1<br>Signalling circuit 690 V IEC 60947-4-1<br>Signalling circuit 690 V IEC 60947-5-1<br>Signalling circuit 600 V UL 508<br>Power circuit 600 V CSA C22.2 No 14<br>Signalling circuit 600 V CSA C22.2 No 14                                                                                                                                                                                               |
| Electrical durability                    | 1.3 Mcycles 6 A AC-3 <= 440 V<br>1.3 Mcycles 6 A AC-3e <= 440 V<br>0.05 Mcycles 36 A AC-4 <= 440 V                                                                                                                                                                                                                                                                                                                                                                      |
| Interlocking type                        | Mechanical                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Mounting support                         | Rail<br>Plate                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Standards                                | EN/IEC 60947-4-1<br>GB/T 14048.4<br>UL 60947-4-1<br>CSA C22.2 No 60947-4-1<br>JIS C8201-4-1                                                                                                                                                                                                                                                                                                                                                                             |
| Product certifications                   | CB Scheme<br>CCC<br>UL<br>CSA<br>EAC<br>CE<br>UKCA                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Connections - terminals                  | spring terminals 1 0.001...0.002 in² (0.75...1.5 mm²)solid<br>spring terminals 1 0.001...0.002 in² (0.75...1.5 mm²)flexible without cable end                                                                                                                                                                                                                                                                                                                           |
| Operating time                           | 30...40 ms coil energisation and NO closing<br>10 ms coil de-energisation and NO opening                                                                                                                                                                                                                                                                                                                                                                                |
| Safety reliability level                 | B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1<br>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: 0.8...1.15 Uc (at <122 °F (50 °C))<br>Drop-out: 0.1...0.75 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 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<br>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                    | 2000 m without derating                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Flame retardance                      | V1 UL 94<br>Requirement 2 NF F 16-101<br>Requirement 2 NF F 16-102                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Mechanical robustness                 | Shocks contactor closed, on Z axis15 Gn for 11 ms IEC 60068-2-27<br>Shocks contactor opened, on Z axis10 Gn for 11 ms IEC 60068-2-27<br>Vibrations contactor closed4 Gn, 5...300 Hz IEC 60068-2-6<br>Vibrations contactor opened2 Gn, 5...300 Hz IEC 60068-2-6<br>Shocks contactor opened, on X axis10 Gn for 11 ms IEC 60068-2-27<br>Shocks contactor opened, on Y axis6 Gn for 11 ms IEC 60068-2-27<br>Shocks contactor closed, on X axis15 Gn for 11 ms IEC 60068-2-27<br>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)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

## Packing Units

|                              |                             |
|------------------------------|-----------------------------|
| Unit Type of Package 1       | PCE                         |
| Number of Units in Package 1 | 1                           |
| Package 1 Height             | 1.890 in (4.800 cm)         |
| Package 1 Width              | 2.441 in (6.200 cm)         |
| Package 1 Length             | 2.559 in (6.500 cm)         |
| Package 1 Weight             | 7.972 oz (226.000 g)        |
| Unit Type of Package 2       | S01                         |
| Number of Units in Package 2 | 36                          |
| Package 2 Height             | 5.9 in (15 cm)              |
| Package 2 Width              | 5.9 in (15 cm)              |
| Package 2 Length             | 15.7 in (40 cm)             |
| Package 2 Weight             | 18.378 lb(US) (8.336 kg)    |
| Unit Type of Package 3       | P06                         |
| Number of Units in Package 3 | 1152                        |
| Package 3 Height             | 29.528 in (75.000 cm)       |
| Package 3 Width              | 31.496 in (80.000 cm)       |
| Package 3 Length             | 23.622 in (60.000 cm)       |
| Package 3 Weight             | 605.725 lb(US) (274.752 kg) |

# Contractual warranty

|                      |    |
|----------------------|----|
| Warranty (in months) | 18 |
|----------------------|----|



## 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

|                                                        |                |
|--------------------------------------------------------|----------------|
| Total lifecycle Carbon footprint                       | 222 kg CO2 eq. |
| Carbon footprint of the manufacturing phase [A1 to A3] | 3 kg CO2 eq.   |
| Carbon footprint of the distribution phase [A4]        | 0.2 kg CO2 eq. |
| Carbon footprint of the installation phase [A5]        | 0 kg CO2 eq.   |
| Carbon footprint of the use phase [B2, B3, B4, B6]     | 218 kg CO2 eq. |
| Carbon footprint of the end-of-life phase [C1 to C4]   | 0.8 kg CO2 eq. |

## Use Better



### Materials and Substances

|                                        |                                   |
|----------------------------------------|-----------------------------------|
| Packaging made with recycled cardboard | Yes                               |
| Packaging without single use plastic   | Yes                               |
| <a href="#">EU RoHS Directive</a>      | Compliant                         |
| REACH Regulation                       | <a href="#">REACH Declaration</a> |

## Use Longer



### Lifetime extension

|        |    |
|--------|----|
| Repair | No |
|--------|----|

## Use Again



### Repack and remanufacture

|                               |                                                                                                                                                                                                                 |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Recyclability potential, in % | 64                                                                                                                                                                                                              |
| Circularity Profile           | <a href="#">End of Life Information</a>                                                                                                                                                                         |
| 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

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

Offer Marketing Illustration

Product benefits / Features

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 he smallest contactors offerings in the market



Technical Illustration

Assembly's dimensions

