

# Product data sheet

Specifications



## Reversing contactor, TeSys K, 3 poles, AC-3/AC-3e, 440V 6A, coil 24V DC

LP2K0601BDTQ

⚠ Discontinued

### Main

|                                |  |
|--------------------------------|--|
| Range of Product               | TeSys K  |
| Product or Component Type      | Reversing contactor  |
| Device short name              | LP2K   |
| Contact application            | Motor control  |
| Utilisation category           | AC-3<br>AC-3e  |
| Control circuit type           | DC   |
| Coil type                      | DC standard  |
| Poles description              | 3P   |
| Pole contact composition       | 3 NO   |
| [Ie] rated operational current | Power circuit 6 A AC AC-3<br>Power circuit 6 A AC AC-3e  |
| 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 440/500 V AC 50/60 Hz<br>3 kW 660/690 V AC 50/60 Hz   |
| Maximum Horse Power Rating     | 1.5 hp 200/208 V AC 60 Hz CSA<br>1.5 hp 200/208 V AC 60 Hz UL<br>1.5 hp 230/240 V AC 60 Hz CSA<br>1.5 hp 230/240 V AC 60 Hz UL<br>3 hp 460/480 V AC 60 Hz CSA<br>3 hp 460/480 V AC 60 Hz UL<br>3 hp 575/600 V AC 60 Hz CSA<br>3 hp 575/600 V AC 60 Hz UL |
| Auxiliary contact composition  | 1 NC   |
| [Uc] control circuit voltage   | 24 V DC  |

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

|                                |   |
|--------------------------------|---|
| <b>Connections - terminals</b> | <p>Power circuit screw clamp terminal 1 x 0.002 in<sup>2</sup> (1.5 mm<sup>2</sup>)solid</p> <p>Power circuit screw clamp terminal 2 x 0.006 in<sup>2</sup> (4 mm<sup>2</sup>)solid</p> <p>Power circuit screw clamp terminal 1 x 0.001 in<sup>2</sup> (0.75 mm<sup>2</sup>)flexible without cable end</p> <p>Power circuit screw clamp terminal 2 x 0.006 in<sup>2</sup> (4 mm<sup>2</sup>)flexible without cable end</p> <p>Power circuit screw clamp terminal 1 x 0.0005 in<sup>2</sup> (0.34 mm<sup>2</sup>)flexible with cable end</p> <p>Power circuit screw clamp terminal 1 x 0.002 in<sup>2</sup> (1.5 mm<sup>2</sup>)flexible with cable end</p> <p>Power circuit screw clamp terminal 1 x 0.004 in<sup>2</sup> (2.5 mm<sup>2</sup>)flexible with cable end</p> <p>Control circuit screw clamp terminal 1 x 0.002 in<sup>2</sup> (1.5 mm<sup>2</sup>)solid</p> <p>Control circuit screw clamp terminal 2 x 0.006 in<sup>2</sup> (4 mm<sup>2</sup>)solid</p> <p>Control circuit screw clamp terminal 1 x 0.001 in<sup>2</sup> (0.75 mm<sup>2</sup>)flexible without cable end</p> <p>Control circuit screw clamp terminal 2 x 0.006 in<sup>2</sup> (4 mm<sup>2</sup>)flexible without cable end</p> <p>Control circuit screw clamp terminal 1 x 0.0005 in<sup>2</sup> (0.34 mm<sup>2</sup>)flexible with cable end</p> <p>Control circuit screw clamp terminal 1 x 0.002 in<sup>2</sup> (1.5 mm<sup>2</sup>)flexible with cable end</p> <p>Control circuit screw clamp terminal 1 x 0.004 in<sup>2</sup> (2.5 mm<sup>2</sup>)flexible with cable end</p> <p>Power circuit spring terminal 1 x 0.001 in<sup>2</sup> (0.75 mm<sup>2</sup>)solid</p> <p>Power circuit spring terminal 1 x 0.002 in<sup>2</sup> (1.5 mm<sup>2</sup>)solid</p> <p>Power circuit spring terminal 1 x 0.001 in<sup>2</sup> (0.75 mm<sup>2</sup>)flexible without cable end</p> <p>Power circuit spring terminal 1 x 0.002 in<sup>2</sup> (1.5 mm<sup>2</sup>)flexible without cable end</p> <p>Control circuit spring terminal 1 x 0.001 in<sup>2</sup> (0.75 mm<sup>2</sup>)solid</p> <p>Control circuit spring terminal 1 x 0.002 in<sup>2</sup> (1.5 mm<sup>2</sup>)solid</p> <p>Control circuit spring terminal 1 x 0.001 in<sup>2</sup> (0.75 mm<sup>2</sup>)flexible without cable end</p> <p>Control circuit spring terminal 1 x 0.002 in<sup>2</sup> (1.5 mm<sup>2</sup>)flexible without cable end</p> <p>Power circuit Faston connectors 2 x clip 0.1 in (2.8 mm)</p> <p>Power circuit Faston connectors 1 x clip 0.25 in (6.35 mm)</p> <p>Control circuit Faston connectors 2 x clip 0.1 in (2.8 mm)</p> <p>Control circuit Faston connectors 1 x clip 0.25 in (6.35 mm)</p> |
|--------------------------------|---|

|                         |           |
|-------------------------|-----------|
| <b>Quantity per Set</b> | Set of 10 |
|-------------------------|-----------|

## Complementary

|  |   |
|--|---|
| <b>Assembly style</b>                              | Ready assembled   |
| <b>Coil technology</b>                             | Built-in bidirectional peak limiting diode suppressor   |
| <b>Interlocking type</b>                           | Mechanical  |
| <b>Control circuit voltage limits</b>              | Drop-out: $\geq 0.10 U_c$ (at $<122^\circ\text{F}$ ( $50^\circ\text{C}$ ))<br>Operational: $0.8...1.15 U_c$ (at $<122^\circ\text{F}$ ( $50^\circ\text{C}$ ))  |
| <b>[Ui] rated insulation voltage</b>               | Control circuit 690 V BS 5424<br>Control circuit 690 V IEC 60947<br>Power circuit 690 V BS 5424<br>Power circuit 690 V IEC 60947<br>Power circuit 690 V NF C 20-040<br>Control circuit 750 V VDE 0110 group C<br>Power circuit 750 V VDE 0110 group C<br>Control circuit 600 V CSA C22.2 No 14<br>Power circuit 600 V UL 508 CSA C22.2 No 14  |
| <b>[Uimp] rated impulse withstand voltage</b>      | 8 kV  |
| <b>Mounting Support</b>                            | Rail<br>Plate   |
| <b>Flame retardance</b>                            | Class C2 conforming to NF F 16-101<br>Class C2 conforming to NF F 16-102<br>V1 conforming to UL 94  |
| <b>Tightening torque</b>                           | Power circuit 0.0005...0.002 in <sup>2</sup> (0.34...1.5 mm <sup>2</sup> ) Philips No 2 flat M6<br>Power circuit 0.0005...0.004 in <sup>2</sup> (0.34...2.5 mm <sup>2</sup> ) Philips No 2 flat M6<br>Power circuit 0.001...0.006 in <sup>2</sup> (0.75...4 mm <sup>2</sup> ) Philips No 2 flat M6<br>Power circuit 0.002...0.006 in <sup>2</sup> (1.5...4 mm <sup>2</sup> ) Philips No 2 flat M6 |
| <b>[Ue] rated operational voltage</b>              | Power circuit $\leq 690\text{ V AC}$ $\leq 400\text{ Hz}$   |
| <b>[Ith] conventional free air thermal current</b> | 10 A (at $122^\circ\text{F}$ ( $50^\circ\text{C}$ )) for control circuit<br>20 A (at $122^\circ\text{F}$ ( $50^\circ\text{C}$ )) for power circuit  |
| <b>Irms rated making capacity</b>                  | 110 A at 690 V AC for control circuit conforming to IEC 60947<br>110 A at 690 V AC for power circuit conforming to IEC 60947<br>110 A at 690 V AC for power circuit conforming to NF C 63-110   |

|                                       |  |
|---------------------------------------|--|
| <b>Rated breaking capacity</b>        | 110 A at 220...230 V for power circuit conforming to IEC 60947<br>110 A at 220...230 V for power circuit conforming to NF C 63-110<br>110 A at 380...400 V for power circuit conforming to IEC 60947<br>110 A at 380...400 V for power circuit conforming to NF C 63-110<br>110 A at 415 V for power circuit conforming to IEC 60947<br>110 A at 415 V for power circuit conforming to NF C 63-110<br>110 A at 440 V for power circuit conforming to IEC 60947<br>110 A at 440 V for power circuit conforming to NF C 63-110<br>70 A at 660...690 V for power circuit conforming to IEC 60947<br>70 A at 660...690 V for power circuit conforming to NF C 63-110<br>80 A at 500 V for power circuit conforming to IEC 60947<br>80 A at 500 V for power circuit conforming to NF C 63-110 |
| <b>Permissible short-time rating</b>  | 40 A 122 °F (50 °C) 3 min for power circuit<br>45 A 122 °F (50 °C) 1 min for power circuit<br>60 A 122 °F (50 °C) 30 s for power circuit<br>80 A 122 °F (50 °C) 10 s for power circuit<br>85 A 122 °F (50 °C) 5 s for power circuit<br>90 A 122 °F (50 °C) 1 s for power circuit<br>20 A 122 °F (50 °C) >= 15 min for power circuit  |
| <b>Associated fuse rating</b>         | 10 A gG for control circuit conforming to IEC 60947<br>10 A gG for control circuit conforming to VDE 0660<br>25 A gG at <= 440 V for power circuit   |
| <b>Average impedance</b>              | 3 mOhm - lth 20 A 50 Hz for power circuit  |
| <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>Operating time</b>                 | 25...35 ms coil energisation and NC opening<br>30...40 ms coil energisation and NO closing<br>10 ms coil de-energisation and NO opening<br>15 ms coil de-energisation and NC opening   |
| <b>Safety reliability level</b>       | B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1<br>B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1   |
| <b>Mechanical durability</b>          | 5000000 cycles   |
| <b>Maximum operating rate</b>         | 3600 cyc/h   |
| <b>Minimum switching current</b>      | 5 mA for control circuit   |
| <b>Minimum switching voltage</b>      | 17 V for control circuit   |
| <b>Insulation resistance</b>          | > 10 MOhm for control circuit  |
| <b>Rated operational power in W</b>   | 120 W 24 V DC-13 1000000 cycles - control circuit<br>15 W 24 V DC-13 10000000 cycles - control circuit<br>55 W 24 V DC-13 3000000 cycles - control circuit   |
| <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)  |

## Environment

|                                |   |
|--------------------------------|---|
| <b>Standards</b>               | 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 |
| <b>Product Certifications</b>  | CB Scheme<br>CCC<br>UL<br>CSA<br>EAC<br>CE<br>UKCA  |
| <b>IP degree of protection</b> | IP2X VDE 0106   |

|  |  |
|--|--|
| <b>Protective treatment</b>                  | TCIEC 60068  |
| <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>Fire resistance</b>                       | 1562 °F (850 °C) IEC 60695-2-1                                       |
| <b>Shock resistance</b>                      | 10 gn contactor closed<br>6 gn contactor opened                      |
| <b>Vibration resistance</b>                  | 2 gn 5...300 Hz contactor opened<br>4 gn 5...300 Hz contactor closed |
| <b>Heat dissipation</b>                      | 3 W for control circuit  |

## Ordering and shipping details

|                          |                              |
|--------------------------|------------------------------|
| <b>Category</b>          | 22322-CTR,K-LINE,DC,OPEN,REV |
| <b>Discount Schedule</b> | I12                          |
| <b>GTIN</b>              | 3389110497014                |
| <b>Returnability</b>     | No                           |

## Packing Units

|                               |                   |
|-------------------------------|-------------------|
| <b>Unit Type of Package 1</b> | PCE               |
| <b>Nbr. of units in pkg.</b>  | 1                 |
| <b>Package 1 Height</b>       | 2.4 in (6.0 cm)   |
| <b>Package 1 Width</b>        | 3.5 in (9.0 cm)   |
| <b>Package 1 Length</b>       | 2.3 in (5.8 cm)   |
| <b>Package weight(Lbs)</b>    | 15.5 oz (440.0 g) |

## Contractual warranty

|                             |    |
|-----------------------------|----|
| <b>Warranty (in months)</b> | 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

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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