

## Product data sheet

### Characteristics

# LP1K0610BD3

TeSys K contactor - 3P - AC-3  $\leq$  440 V 6 A - 1  
NO aux. - 24 V DC coil



### Main

|                                |   |
|--------------------------------|---|
| Range of product               | TeSys K                                       |
| Range                          | TeSys   |
| Product or component type      | Contacteur                                    |
| Device short name              | LP1K  |
| Contacteur application         | Motor control                                 |
| Utilisation category           | AC-3<br>AC-4                                  |
| Poles description              | 3P  |
| Pole contact composition       | 3 NO  |
| [Ie] rated operational current | 6 A at $\leq$ 440 V AC AC-3 for power circuit |
| Auxiliary contact composition  | 1 NO  |

### Complementary

|   |  |
|---|--|
| Coil technology                                     | Built-in bidirectional peak limiting diode suppressor  |
| Auxiliary contacts type                             | type instantaneous 1 NO  |
| Control circuit voltage limits                      | Operational: 0.8...1.15 U <sub>c</sub> (at $<50$ °C)<br>Drop-out: 0.1...0.75 U <sub>c</sub> (at $<50$ °C)  |
| [U <sub>i</sub> ] rated insulation voltage          | Power circuit: 600 V conforming to UL 508<br>Power circuit: 690 V conforming to IEC 60947-4-1<br>Signalling circuit: 690 V conforming to IEC 60947-4-1<br>Signalling circuit: 690 V conforming to IEC 60947-5-1<br>Signalling circuit: 600 V conforming to UL 508<br>Power circuit: 600 V conforming to CSA C22.2 No 14<br>Signalling circuit: 600 V conforming to CSA C22.2 No 14 |
| [U <sub>imp</sub> ] rated impulse withstand voltage | 8 kV   |
| Overvoltage category                                | III  |
| Mounting support                                    | Plate<br>Rail  |
| Flame retardance                                    | V1 conforming to UL 94<br>Requirement 2 conforming to NF F 16-101<br>Requirement 2 conforming to NF F 16-102   |

|   |  |
|---|--|
| Tightening torque                           | 1.3 N.m - on screw clamp terminals - with screwdriver Philips No 2<br>1.3 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm  |
| [Ue] rated operational voltage              | Power circuit: 690 V AC 50/60 Hz<br>Signalling circuit: ≤ 690 V AC 50/60 Hz  |
| [Ith] conventional free air thermal current | 20 A (at 50 °C) for power circuit<br>10 A (at 50 °C) for signalling circuit  |
| Irms rated making capacity                  | 110 A AC for power circuit conforming to NF C 63-110<br>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 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>110 A at 220...230 V conforming to IEC 60947<br>110 A at 380...400 V conforming to IEC 60947<br>70 A at 660...690 V conforming to IEC 60947 |
| 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 - Ith 20 A 50 Hz for power circuit  |
| Inrush power in W                           | 3 W (at 20 °C)   |
| Hold-in power consumption in W              | 3 W at 20 °C   |
| 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 conforming to EN/ISO 13849-1<br>B10d = 20000000 cycles contactor with mechanical load conforming to EN/ISO 13849-1   |
| Mechanical durability                       | 10 Mcycles   |
| Maximum operating rate                      | 3600 cyc/h   |
| Minimum switching current                   | 5 mA for signalling circuit  |
| Minimum switching voltage                   | 17 V for signalling circuit  |
| Insulation resistance                       | > 10 MOhm for signalling circuit   |
| Depth                                       | 57 mm  |
| Net weight                                  | 0.225 kg   |

## Environment

|                                     |                |
|-------------------------------------|----------------|
| Product certifications              | CSA<br>UL      |
| Ambient air temperature for storage | -50...80 °C    |
| Operating altitude                  | 2000 m without |

## Offer Sustainability

|                            |   |
|----------------------------|---|
| Sustainable offer status   | Green Premium product   |
| REACH Regulation           | <a href="#">REACH Declaration</a>   |
| REACH free of SVHC         | Yes   |
| EU RoHS Directive          | Compliant<br><a href="#">EU RoHS Declaration</a>  |
| Mercury free               | Yes   |
| RoHS exemption information | <a href="#">Yes</a>   |
| China RoHS Regulation      | <a href="#">China RoHS declaration</a><br>Product out of China RoHS scope. Substance declaration for your information       |
| Environmental Disclosure   | <a href="#">Product Environmental Profile</a>   |
| Circularity Profile        | <a href="#">End of Life Information</a>   |
| WEEE                       | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |

## Contractual warranty

|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|



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