

# LP2K0910BD

Reversing contactor, TeSys Micra, 3P, AC-3, It or eq to 440V 9A, 1 NO, 24VDC coil

## Main

|   |   |
|---|---|
| Range                                       | TeSys   |
| Product name                                | TeSys K   |
| Product or Component Type                   | Reversing contactor   |
| Device short name                           | LP2K  |
| Device Application                          | Control   |
| Contactor application                       | Resistive load<br>Motor control   |
| Utilisation category                        | AC-1<br>AC-4<br>AC-3  |
| 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              | 20 A 122 °F (50 °C)) <= 440 V AC AC-1 power circuit<br>16 A 158 °F (70 °C)) 690 V AC AC-1 power circuit<br>9 A <= 440 V AC AC-3 power circuit   |
| Motor power kW                              | 2.2 KW 220...230 V AC 50/60 Hz<br>4 KW 380...415 V AC 50/60 Hz<br>4 KW 440 V AC 50/60 Hz<br>4 KW 480 V AC 50/60 Hz<br>4 KW 500...600 V AC 50/60 Hz<br>4 kW 660...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 122 °F (50 °C) power circuit<br>10 A 122 °F (50 °C) signalling circuit   |
| Irms rated making capacity                  | 110 A AC power circuit NF C 63-110<br>110 A AC power circuit IEC 60947<br>110 A AC signalling circuit IEC 60947   |
| Rated breaking capacity                     | 110 A 415 V IEC 60947<br>110 A 440 V IEC 60947<br>80 A 500 V IEC 60947<br>110 A 220...230 V IEC 60947<br>110 A 380...400 V IEC 60947<br>70 A 660...690 V IEC 60947  |
| [Icw] rated short-time withstand current    | 90 A 122 °F (50 °C) - 1 s power circuit<br>85 A 122 °F (50 °C) - 5 s power circuit<br>80 A 122 °F (50 °C) - 10 s power circuit<br>60 A 122 °F (50 °C) - 30 s power circuit<br>45 A 122 °F (50 °C) - 1 min power circuit<br>40 A 122 °F (50 °C) - 3 min power circuit<br>80 A - 1 s signalling circuit<br>90 A - 500 ms signalling circuit<br>110 A - 100 ms signalling circuit<br>20 A 122 °F (50 °C) - >= 15 min power circuit |

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|                               |  |
|-------------------------------|--|
| Associated fuse rating        | 25 A gG <= 440 V power circuit<br>25 A aM power circuit<br>10 A gG signalling circuit IEC 60947<br>10 A gG signalling circuit VDE 0660   |
| Average impedance             | 3 mOhm - lth 20 A 50 Hz 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         | 0.18 Mcycles 20 A AC-1 <= 440 V<br>1.3 Mcycles 9 A AC-3 <= 440 V   |
| Interlocking type             | Mechanical   |
| Mounting Support              | Plate<br>Rail  |
| Standards                     | VDE 0660<br>BS 5424<br>IEC 60947<br>NF C 63-110  |
| Product Certifications        | UL<br>CSA<br>UKCA  |
| Connections - terminals       | Screw clamp terminals 1 0.00...0.01 in <sup>2</sup> (1.5...<br>4 mm <sup>2</sup> )solid<br>Screw clamp terminals 1 0.00...0.01 in <sup>2</sup> (0.75...<br>4 mm <sup>2</sup> )flexible without cable end<br>Screw clamp terminals 1 0.00...0.00 in <sup>2</sup> (0.34...<br>2.5 mm <sup>2</sup> )flexible with cable end<br>Screw clamp terminals 2 0.00...0.01 in <sup>2</sup> (1.5...<br>4 mm <sup>2</sup> )solid<br>Screw clamp terminals 2 0.00...0.01 in <sup>2</sup> (0.75...<br>4 mm <sup>2</sup> )flexible without cable end<br>Screw clamp terminals 2 0.00...0.00 in <sup>2</sup> (0.34...<br>1.5 mm <sup>2</sup> )flexible with cable end |
| Tightening torque             | 11.51 Lbf.In (1.3 N.m) screw clamp terminals Philips<br>No 2<br>11.51 Lbf.In (1.3 N.m) screw clamp terminals flat Ø<br>6 mm<br>11.51 lbf.in (1.3 N.m) screw clamp terminals pozidriv<br>No 2   |
| 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<br>EN/ISO 13849-1<br>B10d = 20000000 cycles contactor with mechanical<br>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 122 °F (50 °C))<br>Drop-out 0.1...0.75 Uc 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 signalling circuit   |
| Minimum switching voltage      | 17 V signalling circuit   |
| Non overlap distance           | 0.02 in (0.5 mm)  |
| Insulation resistance          | > 10 MOhm 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                    | 6561.68 ft (2000 m) without derating  |
| 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  |
| 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                                | 2.28 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              | 22322-CTR,K-LINE,DC,OPEN,REV |
| Discount Schedule     | I12                          |
| GTIN                  | 3389110499476                |
| Nbr. of units in pkg. | 1                            |
| Package weight(Lbs)   | 15.63 oz (443.0 g)           |
| Returnability         | Yes                          |
| Country of origin     | FR                           |

## Packing Units

|                              |                         |
|------------------------------|-------------------------|
| Unit Type of Package 1       | PCE                     |
| Package 1 Height             | 2.36 in (6 cm)          |
| Package 1 width              | 2.56 in (6.5 cm)        |
| Package 1 Length             | 3.62 in (9.2 cm)        |
| Unit Type of Package 2       | S02                     |
| Number of Units in Package 2 | 20                      |
| Package 2 Weight             | 20.51 lb(US) (9.302 kg) |
| Package 2 Height             | 5.91 in (15 cm)         |
| Package 2 width              | 11.81 in (30 cm)        |
| Package 2 Length             | 15.75 in (40 cm)        |

## Offer Sustainability

|                            |   |
|----------------------------|---|
| Sustainable offer status   | Green Premium product   |
| 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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> |
| REACH Regulation           |  <a href="#">REACH Declaration</a>   |
| REACH free of SVHC         | Yes   |
| EU RoHS Directive          | Compliant  <a href="#">EU RoHS Declaration</a>   |
| Toxic heavy metal free     | Yes   |
| Mercury free               | Yes   |
| RoHS exemption information |  Yes   |
| China RoHS Regulation      |  <a href="#">China RoHS Declaration</a>  |

|                          |  |
|--------------------------|--|
| 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 |
|----------|-----------|