

# LP4K06103BW3

Contacteur, TeSys K, 3P, AC-3/AC-3e, 440V, 6A, 1NO aux, 24V DC low consumption coil, spring terminal



## Main

|                           |               |
|---------------------------|---------------|
| Range                     | TeSys         |
| Product or Component Type | Contacteur    |
| Device short name         | LP4K          |
| Contacteur application    | Motor control |

## Complementary

|   |  |
|---|--|
| Utilisation category                        | AC-3<br>AC-3e<br>AC-4  |
| Poles description                           | 3P   |
| Pole contact composition                    | 3 NO   |
| [Ue] rated operational voltage              | Power circuit $\leq 690$ V AC $\leq 400$ Hz<br>Signalling circuit $\leq 690$ V AC $\leq 400$ Hz  |
| [Ie] rated operational current              | 6 A (at $\leq 140$ °F (60 °C)) at $\leq 440$ V AC AC-3 for power circuit<br>6 A (at $\leq 140$ °F (60 °C)) at $\leq 440$ V AC AC-3e for power circuit  |
| Control circuit type                        | DC wide range  |
| [Uc] control circuit voltage                | 24 V DC  |
| Motor power kW                              | 1.5 KW 220...230 V AC 50/60 Hz AC-3<br>2.2 KW 380...415 V AC 50/60 Hz AC-3<br>3 KW 440/690 V AC 50/60 Hz AC-3<br>1.5 KW 220...230 V AC 50/60 Hz AC-3e<br>2.2 KW 380...415 V AC 50/60 Hz AC-3e<br>3 KW 440/690 V AC 50/60 Hz AC-3e<br>1.5 KW 220...230 V AC 50/60 Hz AC-4<br>2.2 KW 380...415 V AC 50/60 Hz AC-4<br>3 kW 440/690 V AC 50/60 Hz AC-4 |
| Auxiliary contact composition               | 1 NO   |
| [Uimp] rated impulse withstand voltage      | 8 kV   |
| Overtension 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   |

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|---|--|
| [I <sub>cw</sub> ] 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 |
| 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  |
| [U <sub>i</sub> ] 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  |
| Insulation resistance                                 | > 10 MOhm for signalling circuit   |
| Inrush power in W                                     | 1.8 W 68 °F (20 °C))   |
| Hold-in power consumption in W                        | 1.8 W 68 °F (20 °C)  |
| Heat dissipation                                      | 1.8 W  |
| Control circuit voltage limits                        | Operational: 0.7...1.3 U <sub>c</sub> (at <122 °F (50 °C))<br>Drop-out: >= 0.10 U <sub>c</sub> (at <122 °F (50 °C))  |
| Connections - terminals                               | Spring terminals 1 0.00...0.00 in <sup>2</sup> (0.75...1.5 mm <sup>2</sup> )solid<br>Spring terminals 1 0.00...0.00 in <sup>2</sup> (0.75...1.5 mm <sup>2</sup> )flexible without cable end<br>Spring terminals 2 0.00...0.00 in <sup>2</sup> (0.75...1.5 mm <sup>2</sup> )flexible without cable end  |
| Maximum operating rate                                | 3600 cyc/h   |
| Coil technology                                       | Built-in bidirectional peak limiting diode suppressor  |
| Auxiliary contacts type                               | Instantaneous 1 NO   |
| Minimum switching current                             | 5 mA for signalling circuit  |
| Minimum switching voltage                             | 17 V for signalling circuit  |
| Mounting Support                                      | Rail<br>Plate  |
| Operating time  | 10...20 ms coil de-energisation and NO opening<br>30...40 ms coil energisation and NO closing  |
| 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                                 | 30 Mcycles   |
| 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   |
| Height  | 2.28 in (58 mm)  |
| Width   | 1.77 in (45 mm)  |
| Depth   | 2.24 in (57 mm)  |
| Net Weight  | 0.52 lb(US) (0.235 kg)   |

## Environment

|                                       |  |
|---------------------------------------|--|
| Standards                             | EN/IEC 60947-4-1<br>EN/IEC 60947-5-1<br>UL 60947-4-1<br>UL 60947-5-1<br>CSA C22.2 No 60947-4-1<br>CSA C22.2 No 60947-5-1<br>GB/T 14048.4 |
| Product Certifications                | CB<br>Scheme[RETURN]CCC[RETURN]UL[RETURN]CSA[RETURN]EAC[RETURN]CE[RETURN]UKCA  |
| IP degree of protection               | IP2X   |
| 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 |

### Packing Units

|                              |                         |
|------------------------------|-------------------------|
| Unit Type of Package 1       | PCE                     |
| Number of Units in Package 1 | 1                       |
| Package 1 Height             | 1.89 in (4.800 cm)      |
| Package 1 Width              | 2.56 in (6.500 cm)      |
| Package 1 Length             | 2.44 in (6.200 cm)      |
| Package 1 Weight             | 7.94 oz (225.000 g)     |
| Unit Type of Package 2       | S02                     |
| Number of Units in Package 2 | 40                      |
| Package 2 Height             | 5.91 in (15.000 cm)     |
| Package 2 Width              | 11.81 in (30.000 cm)    |
| Package 2 Length             | 15.75 in (40.000 cm)    |
| Package 2 Weight             | 20.72 lb(US) (9.399 kg) |

### Offer Sustainability

|                            |  |
|----------------------------|--|
| Sustainable offer status   | Green Premium product  |
| 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  |
| China RoHS Regulation      | <a href="#">China RoHS Declaration</a>   |
| RoHS exemption information | <a href="#">Yes</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. |