# Product data sheet

Specifications

## Contactor, TeSys K, 4P, 4 NO, AC-1, lt or eq to 440V, 20A, 24VDC coil

LP4K12004BW3

**Product availability: Non-Stock - Not normally stocked in distribution facility**

**Price*: 126.00 USD**

## Main

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|---|---|
| **Range** | TeSys |
| **Product or Component Type** | Contactor |
| **Device short name** | LP4K |
| **contactor application** | Resistive load |

## Complementary

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|---|---|
| **Utilisation category** | AC-1 |
| **poles description** | 4P |
| **power pole contact composition** | 4 NO |
| **[Ue] rated operational voltage** | Power circuit <= 690 V AC <= 400 Hz<br>Signalling circuit <= 690 V AC <= 400 Hz |
| **[Ie] rated operational current** | 20 A (at <140 °F (60 °C)) at <= 690 V AC AC-1 for power circuit |
| **Control circuit type** | DC wide range |
| **[Uc] control circuit voltage** | 24 V DC |
| **[Uimp] rated impulse withstand voltage** | 8 kV |
| **Overvoltage category** | III |
| **[Ith] conventional free air thermal current** | 20 A (at 140 °F (60 °C)) for power circuit<br>10 A (at 122 °F (50 °C)) for signalling circuit |
| **Irms rated making capacity** | 144 A AC for power circuit conforming to IEC 60947 |
| **Rated breaking capacity** | 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 |
| **[Icw] rated short-time withstand current** | 115 A 122 °F (50 °C) - 1 s for power circuit<br>105 A 122 °F (50 °C) - 5 s for power circuit<br>100 A 122 °F (50 °C) - 10 s for power circuit<br>75 A 122 °F (50 °C) - 30 s for power circuit<br>55 A 122 °F (50 °C) - 1 min for power circuit<br>50 A 122 °F (50 °C) - 3 min for power circuit<br>25 A 122 °F (50 °C) - >= 15 min for power circuit |
| **Associated fuse rating** | 25 A gG at <= 440 V for power circuit<br>25 A aM for power circuit |
| **Average impedance** | 3 mOhm - Ith 20 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>Power circuit 600 V CSA C22.2 No 14 |
| **Inrush power in W** | 1.8 W 68 °F (20 °C)) |

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

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

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|---|---|
| **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 Uc (at <122 °F (50 °C))<br>Drop-out: >= 0.10 Uc (at <122 °F (50 °C)) |
| **Connections - terminals** | screw clamp terminals 1 0.002…0.006 in² (1.5…4 mm²)solid<br>screw clamp terminals 1 0.001…0.006 in² (0.75…4 mm²)flexible without cable end<br>screw clamp terminals 1 0.0005…0.004 in² (0.34…2.5 mm²)flexible with cable end<br>screw clamp terminals 2 0.002…0.006 in² (1.5…4 mm²)solid<br>screw clamp terminals 2 0.001…0.006 in² (0.75…4 mm²)flexible without cable end<br>screw clamp terminals 2 0.0005…0.002 in² (0.34…1.5 mm²)flexible with cable end<br>Power circuit screw clamp terminals 2 0.002 in² (1.5 mm²)flexible with cable end |
| **Maximum operating rate** | 3600 cyc/h |
| **Coil technology** | Built-in bidirectional peak limiting diode suppressor |
| **Mounting Support** | Plate<br>Rail |
| **Tightening torque** | 7.08…11.5 lbf.in (0.8…1.3 N.m) screw clamp terminals Philips No 2<br>7.08…11.5 lbf.in (0.8…1.3 N.m) screw clamp terminals flat Ø 6 mm<br>7.08…11.5 lbf.in (0.8…1.3 N.m) screw clamp terminals pozidriv 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 EN/ISO 13849-1<br>B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1 |
| **Mechanical durability** | 30 Mcycles |
| **Electrical durability** | 0.3 Mcycles 20 A AC-1 <= 690 V |
| **Height** | 2.3 in (58 mm) |
| **Width** | 1.8 in (45 mm) |
| **Depth** | 2.2 in (57 mm) |
| **Net Weight** | 0.518 lb(US) (0.235 kg) |

# Environment

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| **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 Scheme<br>CCC<br>UL<br>CSA<br>EAC<br>CE<br>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 |

# Ordering and shipping details

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| **Category** | US10I1222321 |

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| **Discount Schedule** | 0I12 |
| **GTIN** | 3389110791136 |
| **Returnability** | No |
| **Country of origin** | FR |

## Packing Units

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|---|---|
| **Unit Type of Package 1** | PCE |
| **Number of Units in Package 1** | 1 |
| **Package 1 Height** | 2.638 in (6.700 cm) |
| **Package 1 Width** | 2.441 in (6.200 cm) |
| **Package 1 Length** | 1.890 in (4.800 cm) |
| **Package 1 Weight** | 7.760 oz (220.000 g) |
| **Unit Type of Package 2** | S02 |
| **Number of Units in Package 2** | 40 |
| **Package 2 Height** | 5.906 in (15.000 cm) |
| **Package 2 Width** | 11.811 in (30.000 cm) |
| **Package 2 Length** | 15.748 in (40.000 cm) |
| **Package 2 Weight** | 20.488 lb(US) (9.293 kg) |

## Contractual warranty

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| **Warranty** | 18 months |

## Sustainability

**Green Premium™ label** is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-$CO_2$ products.

**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >

Transparency RoHS/REACh

## Well-being performance

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| Reach Free Of Svhc | |
| Toxic Heavy Metal Free | |
| Mercury Free | |
| Rohs Exemption Information | Yes |

## Certifications & Standards

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|---|---|
| **Reach Regulation** | REACh Declaration |
| **Eu Rohs Directive** | Compliant<br>EU RoHS Declaration |
| **China Rohs Regulation** | China RoHS declaration<br>Pro-active China RoHS declaration (out of China RoHS legal scope) |
| **Environmental Disclosure** | Product Environmental Profile |
| **Weee** | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins. |
| **Circularity Profile** | End of Life Information |
| **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 www.P65Warnings.ca.gov |