

Product data sheet

Specifications



Contactor, TeSys K, 3P, AC-3, 1t or eq to 440V, 9A, 1 NO aux, 110VDC coil

LP1K0910FD

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

Main

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|---------------------------|---------------------------------|
| Range | TeSys |
| Product or Component Type | Contactor |
| Device short name | LP1K |
| Contactor application | Motor control Resistive load |

Complementary

| | |
|---|--|
| Utilisation category | AC-3 AC-3e AC-1 AC-4 |
| Poles description | 3P |
| power pole contact composition | 3 NO |
| [Ue] rated operational voltage | Power circuit <= 690 V AC <= 400 Hz Signalling circuit <= 690 V AC <= 400 Hz |
| [Ie] rated operational current | 9 A (at <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit 9 A (at <140 °F (60 °C)) at <= 440 V AC AC-3e for power circuit 20 A (at <140 °F (60 °C)) at <= 690 V AC AC-1 for power circuit |
| Control circuit type | DC standard |
| [Uc] control circuit voltage | 110 V DC |
| Motor power kW | 2.2 kW 220...230 V AC 50/60 Hz AC-3 4 kW 380...415 V AC 50/60 Hz AC-3 4 kW 440/690 V AC 50/60 Hz AC-3 2.2 kW 220...230 V AC 50/60 Hz AC-3e 4 kW 380...415 V AC 50/60 Hz AC-3e 4 kW 440/690 V AC 50/60 Hz AC-3e 2.2 kW 220...230 V AC 50/60 Hz AC-4 4 kW 380...415 V AC 50/60 Hz AC-4 4 kW 440/690 V AC 50/60 Hz AC-4 |
| Auxiliary contact composition | 1 NO |
| [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 10 A (at 122 °F (50 °C)) for signalling circuit |
| Irms rated making capacity | 110 A AC for power circuit conforming to IEC 60947 110 A AC for signalling circuit conforming to IEC 60947 |
| Rated breaking capacity | 110 A at 220...230 V conforming to IEC 60947 110 A at 380...400 V conforming to IEC 60947 110 A at 415 V conforming to IEC 60947 110 A at 440 V conforming to IEC 60947 80 A at 500 V conforming to IEC 60947 70 A at 660...690 V conforming to IEC 60947 |

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

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|---|---|
| [Icw] rated short-time withstand current | 90 A 122 °F (50 °C) - 1 s for power circuit 85 A 122 °F (50 °C) - 5 s for power circuit 80 A 122 °F (50 °C) - 10 s for power circuit 60 A 122 °F (50 °C) - 30 s for power circuit 45 A 122 °F (50 °C) - 1 min for power circuit 40 A 122 °F (50 °C) - 3 min for power circuit 20 A 122 °F (50 °C) - >= 15 min for power circuit 80 A - 1 s for signalling circuit 90 A - 500 ms for signalling circuit 110 A - 100 ms for signalling circuit |
| Associated fuse rating | 25 A gG at <= 440 V for power circuit 25 A aM for power circuit 10 A gG for signalling circuit conforming to IEC 60947 10 A gG for signalling circuit conforming to VDE 0660 |
| Average impedance | 3 mOhm - Ith 20 A 50 Hz for power circuit |
| [Ui] rated insulation voltage | Power circuit 600 V UL 508 Power circuit 690 V IEC 60947-4-1 Signalling circuit 690 V IEC 60947-4-1 Signalling circuit 690 V IEC 60947-5-1 Signalling circuit 600 V UL 508 Power circuit 600 V CSA C22.2 No 14 Signalling circuit 600 V CSA C22.2 No 14 |
| Insulation resistance | > 10 MOhm for signalling circuit |
| Inrush power in W | 3 W 68 °F (20 °C) |
| Hold-in power consumption in W | 3 W 68 °F (20 °C) |
| Heat dissipation | 1.3 W |
| Control circuit voltage limits | Operational: 0.8...1.15 Uc (at <122 °F (50 °C)) Drop-out: >= 0.10 Uc (at <122 °F (50 °C)) |
| Connections - terminals | screw clamp terminals 1 0.002...0.006 in ² (1.5...4 mm ²)solid screw clamp terminals 1 0.001...0.006 in ² (0.75...4 mm ²)flexible without cable end screw clamp terminals 1 0.0005...0.004 in ² (0.34...2.5 mm ²)flexible with cable end screw clamp terminals 2 0.002...0.006 in ² (1.5...4 mm ²)solid screw clamp terminals 2 0.001...0.006 in ² (0.75...4 mm ²)flexible without cable end screw clamp terminals 2 0.0005...0.002 in ² (0.34...1.5 mm ²)flexible with cable end Power circuit screw clamp terminals 2 0.002 in ² (1.5 mm ²)flexible with cable end |
| Maximum operating rate | 3600 cyc/h |
| 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 Plate |
| Tightening torque | 7.08...11.5 lbf.in (0.8...1.3 N.m) screw clamp terminals Philips No 2 7.08...11.5 lbf.in (0.8...1.3 N.m) screw clamp terminals flat Ø 6 mm 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 10 ms coil de-energisation and NO opening |
| Safety reliability level | B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1 |
| Mechanical durability | 10 Mcycles |
| Electrical durability | 1.3 Mcycles 9 A AC-3 <= 440 V 1.3 Mcycles 9 A AC-3e <= 440 V 0.16 Mcycles 20 A AC-1 <= 690 V 0.02 Mcycles 54 A AC-4 <= 440 V |
| Height | 2.3 in (58 mm) |
| Width | 1.8 in (45 mm) |
| Depth | 2.2 in (57 mm) |
| Net Weight | 0.496 lb(US) (0.225 kg) |

Environment

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|---------------------------------------|--|
| Standards | EN/IEC 60947-4-1 EN/IEC 60947-5-1 UL 60947-4-1 UL 60947-5-1 CSA C22.2 No 60947-4-1 CSA C22.2 No 60947-5-1 GB/T 14048.4 |
| Product Certifications | CB Scheme CCC UL CSA EAC CE 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 Requirement 2 conforming to NF F 16-101 Requirement 2 conforming to NF F 16-102 |

Ordering and shipping details

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|-------------------|---------------|
| Category | US101222321 |
| Discount Schedule | 012 |
| GTIN | 3389110496406 |
| Returnability | No |
| Country of origin | ID |

Packing Units

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|------------------------------|--------------------------|
| Unit Type of Package 1 | PCE |
| Nbr. of units in pkg. | 1 |
| Package 1 Height | 1.9 in (4.8 cm) |
| Package 1 Width | 2.4 in (6.2 cm) |
| Package 1 Length | 2.6 in (6.6 cm) |
| Package weight(Lbs) | 7.7 oz (218.0 g) |
| Unit Type of Package 2 | S02 |
| Number of Units in Package 2 | 40 |
| Package 2 Height | 5.9 in (15.0 cm) |
| Package 2 Width | 11.8 in (30.0 cm) |
| Package 2 Length | 15.7 in (40.0 cm) |
| Package 2 Weight | 20.181 lb(US) (9.154 kg) |

Contractual warranty

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

| | |
|--|-----|
| Carbon footprint (kg CO2 eq, Total Life cycle) | 114 |
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|--------------------------|---|
| Environmental Disclosure | Product Environmental Profile |
|--------------------------|---|

Use Better

Materials and Substances

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| Packaging made with recycled cardboard | Yes |
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| Packaging without single use plastic | Yes |
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| EU RoHS Directive | Compliant |
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| REACH Regulation | REACH Declaration |
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| 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 |
|---------------------------|--|

Use Again

Repack and remanufacture

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|---------------------|---|
| Circularity Profile | End of Life Information |
|---------------------|---|

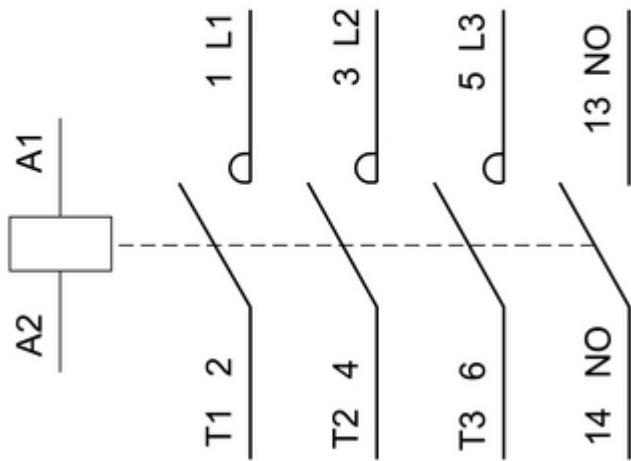
| | |
|-----------|----|
| Take-back | No |
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| WEEE Label |  The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins. |
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Technical Illustration

Wiring diagram

3P NO



Offer Marketing Illustration

Product benefits / Features

TeSys K 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 provides 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



TeSys K

Technical Benefits

- Built-in in all 3 pole versions: 1NO or 1NC
- Up to 4 more by add-on blocks
- Up to 16 A for motor control (AC3/ AC3E) and 20A for resistive load control (AC1)
- Available as single contactors, star-delta, and reversing combos, with a wealth of options and accessories
- Control Options:
 - AC: 24 to 660/690 V, standard or low-noise versions
 - DC: 12 to 250V, standard or low consumption (1.8 W) versions
- Thermal protection relays
- It Features specific versions for railway (TeSys S207) and electrodomestic (TeSys S335) applications

Technical Illustration

Assembly's dimensions

