

Product data sheet

Specifications



set of 10 contactors, TeSys LP1-K,
3P, AC-3/AC-3e, 690V, 9A, coil 24V
DC

LP1K09015BDTQ

⚠ Discontinued

Main

Range of Product	TeSys K
Product or Component Type	Contactors
Device short name	LP1K
Contactors application	Motor control Resistive load
Utilisation category	AC-3 AC-1 AC-3e
Control circuit type	DC
Coil type	DC standard
Poles description	3P
Pole contact composition	3 NO
[Ie] rated operational current	20 A (at <122 °F (50 °C)) AC AC-1 for power circuit 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
Motor power kW	4 kW 380...415 V AC 50/60 Hz 2.2 kW 220...230 V AC 50/60 Hz 4 kW 440/500 V AC 50/60 Hz 4 kW 660/690 V AC 50/60 Hz
Maximum Horse Power Rating	2 hp at 200/208 V AC 60 Hz conforming to CSA 2 hp at 200/208 V AC 60 Hz conforming to UL 3 hp at 230/240 V AC 60 Hz conforming to CSA 3 hp at 230/240 V AC 60 Hz conforming to UL 5 hp at 460/480 V AC 60 Hz conforming to CSA 5 hp at 460/480 V AC 60 Hz conforming to UL 5 hp at 575/600 V AC 60 Hz conforming to CSA 5 hp at 575/600 V AC 60 Hz conforming to UL
Auxiliary contact composition	1 NC
[Uc] control circuit voltage	24 V DC

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

Connections - terminals	Power circuit screw clamp terminal 1 x 0.002 in ² (1.5 mm ²)solid Power circuit screw clamp terminal 2 x 0.006 in ² (4 mm ²)solid Power circuit screw clamp terminal 1 x 0.001 in ² (0.75 mm ²)flexible Power circuit screw clamp terminal 2 x 0.006 in ² (4 mm ²)flexible Power circuit screw clamp terminal 1 x 0.0005 in ² (0.34 mm ²)flexible Power circuit screw clamp terminal 1 x 0.002 in ² (1.5 mm ²)flexible Power circuit screw clamp terminal 1 x 0.004 in ² (2.5 mm ²)flexible Control circuit screw clamp terminal 1 x 0.002 in ² (1.5 mm ²)solid Control circuit screw clamp terminal 2 x 0.006 in ² (4 mm ²)solid Control circuit screw clamp terminal 1 x 0.001 in ² (0.75 mm ²)flexible Control circuit screw clamp terminal 2 x 0.006 in ² (4 mm ²)flexible Control circuit screw clamp terminal 1 x 0.0005 in ² (0.34 mm ²)flexible Control circuit screw clamp terminal 1 x 0.002 in ² (1.5 mm ²)flexible Control circuit screw clamp terminal 1 x 0.004 in ² (2.5 mm ²)flexible Power circuit spring terminal 1 x 0.001 in ² (0.75 mm ²)solid Power circuit spring terminal 1 x 0.002 in ² (1.5 mm ²)solid Power circuit spring terminal 1 x 0.001 in ² (0.75 mm ²)flexible Power circuit spring terminal 1 x 0.002 in ² (1.5 mm ²)flexible Control circuit spring terminal 1 x 0.001 in ² (0.75 mm ²)solid Control circuit spring terminal 1 x 0.002 in ² (1.5 mm ²)solid Control circuit spring terminal 1 x 0.001 in ² (0.75 mm ²)flexible Control circuit spring terminal 1 x 0.002 in ² (1.5 mm ²)flexible Power circuit Faston connectors 2 x clip 0.1 in (2.8 mm) Power circuit Faston connectors 1 x clip 0.25 in (6.35 mm) Control circuit Faston connectors 2 x clip 0.1 in (2.8 mm) Control circuit Faston connectors 1 x clip 0.25 in (6.35 mm)
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Complementary

Coil technology	Built-in bidirectional peak limiting diode suppressor
Auxiliary contacts type	Instantaneous 1 NC
Control circuit voltage limits	Drop-out: $\geq 0.10 U_c$ (at $<122^\circ\text{F}$ (50°C)) Operational: 0.8...1.15 U_c (at $<122^\circ\text{F}$ (50°C))
[Ui] rated insulation voltage	Control circuit 690 V BS 5424 Control circuit 690 V IEC 60947 Power circuit 690 V BS 5424 Power circuit 690 V IEC 60947 Power circuit 690 V NF C 20-040 Control circuit 750 V VDE 0110 group C Power circuit 750 V VDE 0110 group C Control circuit 600 V CSA C22.2 No 14 Power circuit 600 V UL 508 CSA C22.2 No 14
[Uimp] rated impulse withstand voltage	8 kV
Mounting Support	Rail Plate
Flame retardance	Class C2 conforming to NF F 16-101 Class C2 conforming to NF F 16-102 V1 conforming to UL 94
[Ue] rated operational voltage	Power circuit ≤ 690 V AC ≤ 400 Hz
[Ith] conventional free air thermal current	10 A (at 122°F (50°C)) for control circuit 20 A (at 122°F (50°C)) for power circuit
Irms rated making capacity	110 A at 690 V AC for control circuit conforming to IEC 60947 110 A at 690 V AC for power circuit conforming to IEC 60947 110 A at 690 V AC for power circuit conforming to NF C 63-110
Rated breaking capacity	110 A at 220...230 V for power circuit conforming to IEC 60947 110 A at 220...230 V for power circuit conforming to NF C 63-110 110 A at 380...400 V for power circuit conforming to IEC 60947 110 A at 380...400 V for power circuit conforming to NF C 63-110 110 A at 415 V for power circuit conforming to IEC 60947 110 A at 415 V for power circuit conforming to NF C 63-110 110 A at 440 V for power circuit conforming to IEC 60947 110 A at 440 V for power circuit conforming to NF C 63-110 70 A at 660...690 V for power circuit conforming to IEC 60947 70 A at 660...690 V for power circuit conforming to NF C 63-110 80 A at 500 V for power circuit conforming to IEC 60947 80 A at 500 V for power circuit conforming to NF C 63-110

Associated fuse rating	10 A gG for control circuit conforming to IEC 60947 10 A gG for control circuit conforming to VDE 0660 25 A gG at <= 440 V for power circuit
Average impedance	3 mOhm - lth 20 A 50 Hz for power circuit
Inrush power in W	3 W 68 °F (20 °C))
Hold-in power consumption in W	3 W 68 °F (20 °C)
Operating time	10 ms coil de-energisation and NO opening 15 ms coil de-energisation and NC opening 25...35 ms coil energisation and NC opening 30...40 ms between energisation of coil and closing of NO contact
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	10000000 cycles
Maximum operating rate	3600 cyc/h
Minimum switching current	5 mA for control circuit
Minimum switching voltage	17 V for control circuit
Insulation resistance	> 10 MOhm for control circuit
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)
Quantity per Set	Set of 10

Environment

Standards	EN/IEC 60947-4-1 GB/T 14048.4 UL 60947-4-1 CSA C22.2 No 60947-4-1 JIS C8201-4-1
Product Certifications	CB Scheme CCC UL CSA EAC CE UKCA
IP degree of protection	IP2X VDE 0106
Protective treatment	TCIEC 60068
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
Fire resistance	1562 °F (850 °C) IEC 60695-2-1
Shock resistance	10 gn contactor closed 6 gn contactor opened
Vibration resistance	2 gn 5...300 Hz contactor opened 4 gn 5...300 Hz contactor closed
Heat dissipation	3 W for control circuit

Ordering and shipping details

Category	22321-CTR,K-LINE,DC,OPEN,NONREV
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Discount Schedule	112
GTIN	3389110495966
Returnability	No

Packing Units

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)	9.0 oz (255.0 g)
Unit Type of Package 2	CAR
Number of Units in Package 2	30
Package 2 Height	1.9 in (4.8 cm)
Package 2 Width	2.4 in (6.2 cm)
Package 2 Length	2.6 in (6.6 cm)
Package 2 Weight	16.87 lb(US) (7.65 kg)

Contractual warranty

Warranty (in months)	18
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Environmental Data

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

Total lifecycle Carbon footprint	114 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	1 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.1 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	113 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	0.4 kg CO2 eq.

Use Better



Materials and Substances

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

Use Longer




Lifetime extension

Repair	No
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Use Again



Repack and remanufacture

Recyclability potential, in %	64
Circularity Profile	End of Life Information
Take-back	No
WEEE Label	 The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

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

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 provide 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

