Product data sheet

Specifications

Reversing contactor, TeSys K, 3poles, AC-3/AC-3e,440V 9A, coil 24V DC

LP2K09015BDTQ

Discontinued

Main

Range of Product	TeSys K
Product or Component Type	Reversing contactor
Device short name	LP2K
Contactor application	Motor control
Utilisation category	AC-3 AC-3e
Control circuit type	DC
Coil type	DC standard
Poles description	3P
Pole contact composition	3 NO
[Ie] rated operational current	Power circuit 20 A AC AC-1 122 °F (50 °C)) Power circuit 9 A AC AC-3e
Motor power kW	2.2 kW 220...230 V AC 50/60 Hz 4 kW 380...415 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 200/208 V AC 60 Hz CSA 2 hp 200/208 V AC 60 Hz UL 3 hp 230/240 V AC 60 Hz CSA 3 hp 230/240 V AC 60 Hz UL 5 hp 460/480 V AC 60 Hz CSA 5 hp 460/480 V AC 60 Hz UL 5 hp 575/600 V AC 60 Hz CSA 5 hp 575/600 V AC 60 Hz 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 in² (1.5 mm²)solid Power circuit screw clamp terminal 2 x 0.006 in² (4 mm²)solid Power circuit screw clamp terminal 1 x 0.001 in² (0.75 mm²)flexible without cable end Power circuit screw clamp terminal 2 x 0.006 in² (4 mm²)flexible without cable end Power circuit screw clamp terminal 1 x 0.0005 in² (0.34 mm²)flexible with cable end Power circuit screw clamp terminal 1 x 0.002 in² (1.5 mm²)flexible with cable end Power circuit screw clamp terminal 1 x 0.004 in² (2.5 mm²)flexible with cable end Control circuit screw clamp terminal 1 x 0.002 in² (1.5 mm²)solid Control circuit screw clamp terminal 2 x 0.006 in² (4 mm²)solid Control circuit screw clamp terminal 1 x 0.001 in² (0.75 mm²)flexible without cable end Control circuit screw clamp terminal 2 x 0.006 in² (4 mm²)flexible without cable end Control circuit screw clamp terminal 1 x 0.0005 in² (0.34 mm²)flexible with cable end Control circuit screw clamp terminal 1 x 0.002 in² (1.5 mm²)flexible with cable end Control circuit screw clamp terminal 1 x 0.004 in² (2.5 mm²)flexible with cable end Power circuit spring terminal 1 x 0.001 in² (0.75 mm²)solid Power circuit spring terminal 1 x 0.002 in² (1.5 mm²)solid Power circuit spring terminal 1 x 0.001 in² (0.75 mm²)flexible without cable end Power circuit spring terminal 1 x 0.002 in² (1.5 mm²)flexible without cable end Control circuit spring terminal 1 x 0.001 in² (0.75 mm²)solid Control circuit spring terminal 1 x 0.002 in² (1.5 mm²)solid Control circuit spring terminal 1 x 0.001 in² (0.75 mm²)flexible without cable end Control circuit spring terminal 1 x 0.002 in² (1.5 mm²)flexible without cable end 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)
Quantity per Set	Set of 10

Complementary

Assembly style	Ready assembled
Coil technology	Built-in bidirectional peak limiting diode suppressor
Interlocking type	Mechanical
Control circuit voltage limits	Drop-out: >= 0.10 Uc (at <122 °F (50 °C)) Operational: 0.8...1.15 Uc (at <122 °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	Plate Rail
Flame retardance	Class C2 conforming to NF F 16-101 Class C2 conforming to NF F 16-102 V1 conforming to UL 94
Tightening torque	Power circuit solder pins 0 in² (0 mm²) Philips No 2 flat M6
[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
Permissible short-time rating	40 A 122 °F (50 °C) 3 min for power circuit 45 A 122 °F (50 °C) 1 min for power circuit 60 A 122 °F (50 °C) 30 s for power circuit 80 A 122 °F (50 °C) 10 s for power circuit 85 A 122 °F (50 °C) 5 s for power circuit 90 A 122 °F (50 °C) 1 s for power circuit 20 A 122 °F (50 °C) >= 15 min for power circuit
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 - Ith 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	25...35 ms coil energisation and NC opening 30...40 ms between energisation of coil and closing of NO contact 10 ms coil de-energisation and NO opening 15 ms coil de-energisation and NC 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	5000000 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
Rated operational power in W	120 W 24 V DC-13 1000000 cycles - control circuit 15 W 24 V DC-13 10000000 cycles - control circuit 55 W 24 V DC-13 3000000 cycles - control circuit
Height	2.3 in (58 mm)
Width	3.5 in (90 mm)
Depth	2.2 in (57 mm)
Net Weight	1.06 lb(US) (0.48 kg)

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	22322-CTR,K-LINE,DC,OPEN,REV
Discount Schedule	I12
GTIN	3389110498608
Returnability	No

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	2.4 in (6.0 cm)
Package 1 Width	2.4 in (6.2 cm)
Package 1 Length	3.6 in (9.2 cm)
Package weight(Lbs)	18.3 oz (520.0 g)
Unit Type of Package 2	CAR
Number of Units in Package 2	15
Package 2 Height	2.4 in (6.0 cm)
Package 2 Width	2.4 in (6.2 cm)
Package 2 Length	3.6 in (9.2 cm)
Package 2 Weight	17.198 lb(US) (7.801 kg)

Contractual warranty

Warranty (in months)	18

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	**229 kg CO2 eq.**
Carbon footprint of the manufacturing phase [A1 to A3]	**3 kg CO2 eq.**
Carbon footprint of the distribution phase [A4]	**0.2 kg CO2 eq.**
Carbon footprint of the installation phase [A5]	**0 kg CO2 eq.**
Carbon footprint of the use phase [B2, B3, B4, B6]	**225 kg CO2 eq.**
Carbon footprint of the end-of-life phase [C1 to C4]	**0.8 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**

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

Offer Marketing Illustration

Product benefits / Features