

## Main

Range	TeSys
Range of Product	TeSys K
Product or Component Type	Contacteur
Device short name	LP1K
Contacteur application	Resistive load Motor control
Utilisation category	AC-3 AC-1 AC-4
Poles description	3P
Pole contact composition	3 NO
[Ie] rated operational current	20 A 122 °F (50 °C)) <= 440 V AC AC-1 power circuit 9 A <= 440 V AC AC-3 power circuit 16 A 158 °F (70 °C)) 690 V AC AC-1 power circuit
Auxiliary contact composition	1 NO

## Complementary

Coil technology	Built-in bidirectional peak limiting diode suppressor
Auxiliary contacts type	Instantaneous 1 NO
Control circuit voltage limits	Operational 0.8...1.15 U <sub>c</sub> 122 °F (50 °C)) Drop-out 0.1...0.75 U <sub>c</sub> 122 °F (50 °C))
[U <sub>i</sub> ] 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
[U <sub>imp</sub> ] rated impulse withstand voltage	8 kV
Overvoltage category	III
Mounting Support	Plate Rail
Flame retardance	V1 conforming to UL 94 Requirement 2 conforming to NF F 16-101 Requirement 2 conforming to NF F 16-102
Tightening torque	11.51 Lbf.in (1.3 N.m) screw clamp terminals Philips No 2 11.51 Lbf.in (1.3 N.m) screw clamp terminals flat Ø 6 mm 11.51 lbf.in (1.3 N.m) screw clamp terminals pozidriv No 2
[U <sub>e</sub> ] rated operational voltage	Power circuit 690 V AC 50/60 Hz Signalling circuit <= 690 V AC 50/60 Hz
[I <sub>th</sub> ] conventional free air thermal current	20 A 122 °F (50 °C) power circuit 10 A 122 °F (50 °C) signalling circuit
I <sub>rms</sub> rated making capacity	110 A AC power circuit NF C 63-110 110 A AC power circuit IEC 60947 110 A AC signalling circuit IEC 60947
Rated breaking capacity	110 A 415 V IEC 60947 110 A 440 V IEC 60947 80 A 500 V IEC 60947 110 A 220...230 V IEC 60947 110 A 380...400 V IEC 60947 70 A 660...690 V IEC 60947

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Associated fuse rating	25 A gG <= 440 V power circuit 25 A aM power circuit 10 A gG signalling circuit IEC 60947 10 A gG signalling circuit VDE 0660
Average impedance	3 mOhm - lth 20 A 50 Hz 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	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
Maximum operating rate	3600 cyc/h
Minimum switching current	5 mA signalling circuit
Minimum switching voltage	17 V signalling circuit
Insulation resistance	> 10 MOhm signalling circuit
Height	2.28 in (58 mm)
Width	1.77 in (45 mm)
Depth	2.24 in (57 mm)
Net Weight	0.50 lb(US) (0.225 kg)

## Environment

Product Certifications	UL CSA UKCA
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

## Ordering and shipping details

Category	22321-CTR,K-LINE,DC,OPEN,NONREV
Discount Schedule	I12
GTIN	3389110428513
Nbr. of units in pkg.	1
Package weight(Lbs)	7.90 oz (224.0 g)
Returnability	Yes
Country of origin	FR

## Packing Units

Unit Type of Package 1	PCE
Package 1 Height	2.60 in (6.6 cm)
Package 1 width	1.89 in (4.8 cm)
Package 1 Length	2.44 in (6.2 cm)
Unit Type of Package 2	BB1
Number of Units in Package 2	10
Package 2 Weight	4.89 lb(US) (2.217 kg)
Package 2 Height	2.44 in (6.2 cm)
Package 2 width	5.20 in (13.2 cm)
Package 2 Length	9.45 in (24 cm)
Unit Type of Package 3	P06
Number of Units in Package 3	320
Package 3 Weight	182.68 lb(US) (82.86 kg)
Package 3 Height	17.72 in (45 cm)
Package 3 width	31.50 in (80 cm)
Package 3 Length	23.62 in (60 cm)

## Offer Sustainability

Sustainable offer status	Green Premium product
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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>
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
RoHS exemption information	<a href="#">Yes</a>
China RoHS Regulation	<a href="#">China RoHS Declaration</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.

## Contractual warranty

Warranty	18 months
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