



LP1K09105ED3 has not been replaced. Please contact your customer care center for more information.

❗ Discontinued

## Main

Range of product	TeSys K
Range	TeSys
Product or component type	Contactor
Device short name	LP1K
Contactor application	Resistive load Motor control
Utilisation category	AC-1 AC-4 AC-3
Poles description	3P
Pole contact composition	3 NO
[Ie] rated operational current	20 A 122 °F (50 °C) $\leq$ 440 V AC AC-1 power circuit 9 A $\leq$ 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))
[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
[Uimp] rated impulse withstand voltage	8 kV
Overvoltage category	III
Mounting support	Printed circuit boards

Flame retardance	V1 UL 94 Requirement 2 NF F 16-101 Requirement 2 NF F 16-102
[Ue] rated operational voltage	Power circuit 690 V AC 50/60 Hz Signalling circuit <= 690 V AC 50/60 Hz
[Ith] conventional free air thermal current	20 A 122 °F (50 °C) power circuit 10 A 122 °F (50 °C) signalling circuit
Irms 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
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 - Ith 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
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

## Ordering and shipping details

Category	22321-CTR,K-LINE,DC,OPEN,NONREV
Discount Schedule	I12
GTIN	03389110496659
Returnability	No

## Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	<a href="#">REACH Declaration</a>
REACH free of SVHC	Yes
EU RoHS Directive	Compliant <a href="#">EU RoHS Declaration</a>
Mercury free	Yes

RoHS exemption information	<a href="#">Yes</a>
China RoHS Regulation	<a href="#">China RoHS declaration</a> Product out of China RoHS scope. Substance declaration for your information.
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Circularity Profile	<a href="#">End of Life Information</a>

### Contractual warranty

Warranty	18 months
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