

# Product data sheet

Specifications



Contactor, TeSys K, 4P, 4 NO,  
AC-1, It or eq to 440V, 20A, 48VDC  
coil

LP4K090045EW3

⚠ Discontinued

## Main

Range of Product	TeSys K
Range	TeSys
Product or Component Type	Contactors
Device short name	LP4K
Utilisation category	AC-1
Coil technology	Built-in bidirectional peak limiting diode suppressor
Poles description	4P
Pole contact composition	4 NO
[Ie] rated operational current	20 A (at <122 °F (50 °C)) at <= 440 V AC AC-1 for power circuit 16 A (at <158 °F (70 °C)) at 690 V AC AC-1 for power circuit

## Complementary

Contactor application	Resistive load
Control circuit voltage limits	Operational: 0.7...1.30 U <sub>c</sub> (at <122 °F (50 °C)) Drop-out: 0.1...0.7 U <sub>c</sub> (at <122 °F (50 °C))
[Ui] rated insulation voltage	Power circuit 600 V UL 508 Power circuit 690 V IEC 60947-4-1 Power circuit 600 V CSA C22.2 No 14
[Uimp] rated impulse withstand voltage	8 kV
Overvoltage category	III
Mounting Support	Printed circuit boards
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
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
[Ue] rated operational voltage	Power circuit 690 V AC 50/60 Hz

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

<b>[Ith] conventional free air thermal current</b>	20 A (at 122 °F (50 °C)) for power circuit
<b>Irms rated making capacity</b>	110 A AC for power circuit conforming to NF C 63-110 110 A AC for power circuit conforming to IEC 60947
<b>Rated breaking capacity</b>	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 110 A at 220...230 V conforming to IEC 60947 110 A at 380...400 V conforming to IEC 60947 70 A at 660...690 V conforming to IEC 60947
<b>Associated fuse rating</b>	25 A gG at <= 440 V for power circuit 25 A aM for power circuit
<b>Average impedance</b>	3 mOhm - Ith 20 A 50 Hz for power circuit
<b>Operating time</b>	30...40 ms coil energisation and NO closing 10 ms coil de-energisation and NO opening
<b>Safety reliability level</b>	B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1
<b>Mechanical durability</b>	30 Mcycles
<b>Maximum operating rate</b>	3600 cyc/h
<b>Height</b>	2.3 in (58 mm)
<b>Width</b>	1.8 in (45 mm)
<b>Depth</b>	2.2 in (57 mm)
<b>Net Weight</b>	0.518 lb(US) (0.235 kg)
<b>Compatibility code</b>	LP4K

## Environment

<b>Inrush power in W</b>	1.8 W 68 °F (20 °C))
<b>Hold-in power consumption in W</b>	1.8 W 68 °F (20 °C)
<b>Flame retardance</b>	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

<b>Category</b>	22321-CTR,K-LINE,DC,OPEN,NONREV
<b>Discount Schedule</b>	I12
<b>GTIN</b>	3389110498752
<b>Returnability</b>	No

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Nbr. of units in pkg.</b>	1

## Contractual warranty

<b>Warranty (in months)</b>	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 >](#)

### Use Longer



#### Lifetime extension

Repair

No