

# Product data sheet

Specifications



## TeSys K contactor , 4P (4 NO) ,AC-1, <= 440V, 20A , 24V DC coil

LP4K120045BW3

⚠ Discontinued on: Jan 26, 2021

⚠ Discontinued

## Main

Range of product	TeSys K
Range	TeSys
Product or component type	Contacteur
Device short name	LP4K
Contacteur application	Resistive load
Utilisation category	AC-1
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

Coil technology	Built-in bidirectional peak limiting diode suppressor
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
Ambient air temperature for operation	-13...122 °F (-25...50 °C)
Flame retardance	V1 UL 94 Requirement 2 NF F 16-101 Requirement 2 NF F 16-102
Connections - terminals	solder pins 1.5 x 0.9 mm
[Ue] rated operational voltage	Power circuit 690 V AC 50/60 Hz
[Ith] conventional free air thermal current	20 A (at 122 °F (50 °C)) for power circuit
Irms rated making capacity	144 A AC for power circuit conforming to NF C 63-110 144 A AC for power circuit conforming to IEC 60947

<b>Rated breaking capacity</b>	110 A at 440 V conforming to IEC 60947 80 A at 500 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 - lth 20 A 50 Hz for power circuit
<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>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)

## Environment

<b>Product certifications</b>	CB Scheme CCC UL CSA EAC CE UKCA
<b>Ambient air temperature for storage</b>	-58...176 °F (-50...80 °C)
<b>Operating altitude</b>	2000 m without derating

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	1.9 in (4.8 cm)
<b>Package 1 Width</b>	2.4 in (6.2 cm)
<b>Package 1 Length</b>	2.6 in (6.6 cm)
<b>Package 1 Weight</b>	9.3 oz (265 g)

## Contractual warranty

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

[Environmental Disclosure](#)

[Product Environmental Profile](#)

## Use Better



### Materials and Substances

[EU RoHS Directive](#)

Compliant

## Use Longer



### Lifetime extension

Repair

No

## Use Again



### Repack and remanufacture

WEEE Label



The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins