

# Product datasheet

Specifications



## TeSys K contactor , 4P (4 NO) ,AC-1, <= 440V, 20A , 72V DC coil

LP1K090045SD

⚠ End-of-service on: 04-Nov-2020

⚠ Discontinued

### Main

Range Of Product	TeSys K
Range	TeSys
Product Or Component Type	Contactors
Device Short Name	LP1K
Utilisation Category	AC-1
Poles Description	4P
Pole Contact Composition	4 NO
[Ie] Rated Operational Current	20 A (at <50 °C) at <= 440 V AC AC-1 for power circuit 16 A (at <70 °C) at 690 V AC AC-1 for power circuit

### Complementary

Contactors Application	Resistive load
Control Circuit Voltage Limits	Operational: 0.8...1.15 Uc (at <50 °C) Drop-out: 0.1...0.75 Uc (at <50 °C)
[Ui] Rated Insulation Voltage	Power circuit: 600 V conforming to UL 508 Power circuit: 690 V conforming to IEC 60947-4-1 Power circuit: 600 V conforming to 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	-25...50 °C
Ambient Air Temperature For Storage	-50...80 °C
Operating Altitude	2000 m without derating
[Ue] Rated Operational Voltage	Power circuit: 690 V AC 50/60 Hz

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

<b>[Ith] Conventional Free Air Thermal Current</b>	20 A (at 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 conforming to EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load conforming to EN/ISO 13849-1
<b>Mechanical Durability</b>	10 Mcycles
<b>Maximum Operating Rate</b>	3600 cyc/h
<b>Height</b>	58 mm
<b>Width</b>	45 mm
<b>Depth</b>	57 mm
<b>Net Weight</b>	0.225 kg
<b>Compatibility Code</b>	LP1K

## Environment

<b>Inrush Power In W</b>	3 W (at 20 °C)
<b>Hold-In Power Consumption In W</b>	3 W at 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

## Packing Units

<b>Unit Type Of Package 1</b>	PCE
<b>Number Of Units In Package 1</b>	1

## Contractual warranty

<b>Warranty</b>	18 months
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