

Product datasheet

Specifications



TeSys K contactor , 4P (2 NO + 2 NC) ,AC-1, <= 440V, 20A , 60V DC coil

LP1K090087ND3

⚠ 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
Coil Technology	Built-in bidirectional peak limiting diode suppressor
Poles Description	4P
Pole Contact Composition	2 NO + 2 NC
[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	Plate Rail
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

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

[Ue] Rated Operational Voltage	Power circuit: 690 V AC 50/60 Hz
[Ith] Conventional Free Air Thermal Current	20 A (at 50 °C) for power circuit
Irms Rated Making Capacity	110 A AC for power circuit conforming to NF C 63-110 110 A AC for power circuit conforming to IEC 60947
Rated Breaking Capacity	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
Associated Fuse Rating	25 A gG at <= 440 V for power circuit 25 A aM for power circuit
Average Impedance	3 mOhm - Ith 20 A 50 Hz for power circuit
Operating Time	30...40 ms coil energisation and NO closing 10 ms coil de-energisation and NO opening 25...35 ms coil energisation and NC opening 15 ms coil de-energisation and NC closing
Safety Reliability Level	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
Mechanical Durability	10 Mcycles
Maximum Operating Rate	3600 cyc/h
Height	58 mm
Width	45 mm
Depth	57 mm
Net Weight	0.225 kg
Compatibility Code	LP1K

Environment

Inrush Power In W	3 W (at 20 °C)
Hold-In Power Consumption In W	3 W at 20 °C
Flame Retardance	V1 conforming to UL 94 Requirement 2 conforming to NF F 16-101 Requirement 2 conforming to NF F 16-102

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1

Contractual warranty

Warranty	18 months
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