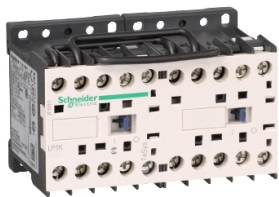


Product data sheet

Specifications



Changeover contactor, TeSys K, 4P, AC-1, It or eq to 440V 10A, 72VDC coil

LP5K09004SW3

! Discontinued

Main

Range	TeSys
Product Name	TeSys K
Product Or Component Type	Changeover contactor
Device Short Name	LP5K
Device Application	Control
Contactor Application	Resistive load
Utilisation Category	AC-1
Device Presentation	Preassembled with reversing power busbar
Poles Description	4P
Power Pole Contact Composition	4 NO
[Ue] Rated Operational Voltage	Power circuit 690 V AC 50/60 Hz
[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
Control Circuit Type	DC low consumption
[Uc] Control Circuit Voltage	72 V DC
[Uimp] Rated Impulse Withstand Voltage	8 kV
Overvoltage Category	III
[Ith] Conventional Free Air Thermal Current	20 A (at 122 °F (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
[Icw] Rated Short-Time Withstand Current	90 A 122 °F (50 °C) - 1 s for power circuit 85 A 122 °F (50 °C) - 5 s for power circuit 80 A 122 °F (50 °C) - 10 s for power circuit 60 A 122 °F (50 °C) - 30 s for power circuit 45 A 122 °F (50 °C) - 1 min for power circuit 40 A 122 °F (50 °C) - 3 min for power circuit 20 A 122 °F (50 °C) - >= 15 min for power circuit
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

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

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

[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
Electrical Durability	0.18 Mcycles 20 A AC-1 <= 440 V
Interlocking Type	Mechanical
Mounting Support	Plate Rail
Standards	NF C 63-110 VDE 0660 IEC 60947 BS 5424
Product Certifications	CB Scheme CCC UL CSA EAC CE UKCA
Connections - Terminals	screw clamp terminals 1 0.00...0.01 in² (1.5...4 mm²)solid screw clamp terminals 1 0.00...0.01 in² (0.75...4 mm²)flexible without cable end screw clamp terminals 1 0.00...0.00 in² (0.34...2.5 mm²)flexible with cable end screw clamp terminals 2 0.00...0.01 in² (1.5...4 mm²)solid screw clamp terminals 2 0.00...0.01 in² (0.75...4 mm²)flexible without cable end screw clamp terminals 2 0.00...0.00 in² (0.34...1.5 mm²)flexible with cable end
Tightening Torque	11.51 lbf.in (1.3 N.m) screw clamp terminals Philips No 2 11.51 lbf.in (1.3 N.m) screw clamp terminals flat Ø 6 mm
Operating Time	10...20 ms coil de-energisation and NO opening 30...40 ms coil energisation and NO closing
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	5 Mcycles
Maximum Operating Rate	3600 cyc/h

Complementary

Coil Technology	Built-in bidirectional peak limiting diode suppressor
Control Circuit Voltage Limits	Operational: 0.7...1.30 Uc (at <122 °F (50 °C)) Drop-out: 0.1...0.7 Uc (at <122 °F (50 °C))
Inrush Power In W	1.8 W 68 °F (20 °C))
Hold-In Power Consumption In W	1.8 W 68 °F (20 °C)
Heat Dissipation	1.8 W

Environment

Ip Degree Of Protection	IP20 VDE 0106
Protective Treatment	TC IEC 60068 TC DIN 50016
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
Flame Retardance	V1 conforming to UL 94 Requirement 2 conforming to NF F 16-101 Requirement 2 conforming to NF F 16-102

Mechanical Robustness	Shocks contactor closed, on Z axis15 Gn for 11 ms IEC 60068-2-27 Shocks contactor opened, on Z axis10 Gn for 11 ms IEC 60068-2-27 Vibrations contactor closed4 Gn, 5...300 Hz IEC 60068-2-6 Vibrations contactor opened2 Gn, 5...300 Hz IEC 60068-2-6 Shocks contactor opened, on X axis10 Gn for 11 ms IEC 60068-2-27 Shocks contactor opened, on Y axis6 Gn for 11 ms IEC 60068-2-27 Shocks contactor closed, on X axis15 Gn for 11 ms IEC 60068-2-27 Shocks contactor closed, on Y axis10 Gn for 11 ms IEC 60068-2-27
Height	2.28 in (58 mm)
Width	3.54 in (90 mm)
Depth	2.24 in (57 mm)
Net Weight	1.08 lb(US) (0.49 kg)

Ordering and shipping details

Category	22322-CTR,K-LINE,DC,OPEN,REV
Discount Schedule	I12
Gtin	3389110501520
Returnability	No

Packing Units

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

Contractual warranty

Warranty	18 months
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