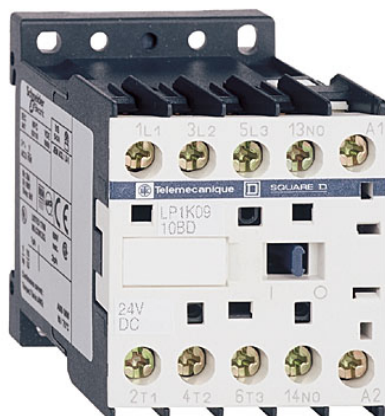




Main

Range of product	TeSys K
Product or component type	Contacteur
Device short name	LP1K
Contacteur application	Motor control Resistive load
Utilisation category	AC-1 AC-3
Control circuit type	DC
Coil type	Standard
Poles description	3P
Pole contact composition	3 NO
[Ie] rated operational current	9 A AC AC-3 power circuit 20 A ≤ 50 °C AC AC-1 power circuit
Control circuit voltage	24 V DC

Complementary

Coil technology	Without built-in bidirectional peak limiting diode suppressor
Motor power kW	4 kW 380...415 V AC 50/60 Hz 4 kW 440...500 V AC 50/60 Hz 4 kW 660...690 V AC 50/60 Hz 2,2 kW 220...230 V AC 50/60 Hz
Motor power hp	2 hp 200/208 V AC 60 Hz UL 2 hp 200/208 V AC 60 Hz CSA 3 hp 230/240 V AC 60 Hz UL 3 hp 230/240 V AC 60 Hz CSA 5 hp 460/480 V AC 60 Hz UL 5 hp 460/480 V AC 60 Hz CSA 5 hp 575/600 V AC 60 Hz UL 5 hp 575/600 V AC 60 Hz CSA
Auxiliary contact composition	1 NC
Control circuit voltage limits	0.8...1.15 U _c ≤ 50 °C operational ≥ 0.10 U _c ≤ 50 °C drop-out
[Ui] rated insulation voltage	600 V CSA C22-2 No 14 control circuit 600 V UL 508 CSA C22-2 No 14 power circuit 690 V IEC 60947 power circuit 690 V BS 5424 power circuit 690 V NF C 20-040 power circuit 690 V BS 5424 control circuit 690 V IEC 60947 control circuit 750 V VDE 0110 group C power circuit 750 V VDE 0110 group C control circuit
[Uimp] rated impulse withstand voltage	8 kV
Mounting support	Plate Rail
Flame retardance	V1 UL 94 Class C2 NF F 16-101 Class C2 NF F 16-102
Connections - terminals	Screw clamp terminal power circuit 1 0,34...2,5 mm ² flexible with Screw clamp terminal power circuit 2 0,75...4 mm ² flexible without Screw clamp terminal power circuit 1 1,5...4 mm ² solid without Screw clamp terminal power circuit 2 1,5...4 mm ² solid without Screw clamp terminal power circuit 1 0,75...4 mm ² flexible without Screw clamp terminal power circuit 2 0,34...2,5 mm ² flexible with
Tightening torque	0,8...1,3 N.m power circuit screw clamp terminal flat Ø 6 mm 0,8...1,3 N.m power circuit screw clamp terminal Philips No 2

[Ue] rated operational voltage	<= 690 V AC <= 400 Hz power circuit
[Ith] conventional free air thermal current	10 A ≤ 50 °C control circuit 20 A ≤ 50 °C power circuit
Irms rated making capacity	110 A 690 V AC power circuit NF C 63-110 110 A 690 V AC power circuit IEC 60947 110 A 690 V AC control circuit IEC 60947
Rated breaking capacity	70 A 660...690 V power circuit NF C 63-110 70 A 660...690 V power circuit IEC 60947 80 A 500 V power circuit NF C 63-110 80 A 500 V power circuit IEC 60947 110 A 440 V power circuit NF C 63-110 110 A 440 V power circuit IEC 60947 110 A 220...230 V power circuit NF C 63-110 110 A 380...400 V power circuit NF C 63-110 110 A 415 V power circuit NF C 63-110 110 A 220...230 V power circuit IEC 60947 110 A 380...400 V power circuit IEC 60947 110 A 415 V power circuit IEC 60947
Permissible short-time rating	20 A ≤ 50 °C ≥ 15 min power circuit 40 A ≤ 50 °C 3 min power circuit 45 A ≤ 50 °C 1 min power circuit 60 A ≤ 50 °C 30 s power circuit 80 A ≤ 50 °C 10 s power circuit 85 A ≤ 50 °C 5 s power circuit 90 A ≤ 50 °C 1 s power circuit
Associated fuse rating	10 A gG control circuit VDE 0660 10 A gG control circuit IEC 60947 25 A gG <= 440 V power circuit
Average impedance	3 mOhm 50 Hz 20 A power circuit
Inrush power in W	3 W 20 °C
Hold-in power consumption in W	3 W 20 °C
Operating time	10 ms coil de-energisation and NO opening 15 ms coil de-energisation and NC opening 25...35 ms coil energisation and NC opening 30...40 ms between energisation of coil and closing of NO contact
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	10000000 cycles
Operating rate	3600 cyc/h
Minimum switching current	5 mA control circuit
Minimum switching voltage	17 V control circuit
Insulation resistance	> 10 MOhm control circuit
Rated operational power in W	15 W 24 V DC-13 10000000 cycles control circuit 55 W 24 V DC-13 3000000 cycles control circuit 120 W 24 V DC-13 1000000 cycles control circuit
Height	58 mm
Width	45 mm
Depth	57 mm
Product weight	0,225 kg

Environment

Standards	BS 5424 IEC 60947 NF C 63-110 VDE 0660
Product certifications	CSA GOST UL
IP degree of protection	IP2x VDE 0106
Protective treatment	TC IEC 60068
Ambient air temperature for operation	-25...50 °C
Ambient air temperature for storage	-50...80 °C
Operating altitude	2000 m without
Fire resistance	850 °C IEC 60695-2-1
Shock resistance	6 gn contactor opened 10 gn contactor closed

Vibration resistance	2 gn contactor opened 5...300 Hz 4 gn contactor closed 5...300 Hz
Heat dissipation	3 W control circuit
RoHS EUR conformity date	0633
RoHS EUR status	Compliant