Product data sheet
Characteristics

LP4K0910BW3
contactor TeSys LP4-K - 3 poles - AC-3 440V 9 A - coil 24 V DC

Main

Range of product	TeSys K
Product or component type	Contactor
Device short name	LP4K
Contactor application	Motor control Resistive load
Utilisation category	AC-1 AC-3
Control circuit type	DC
Coil type	Low consumption
Poles description	3P
Pole contact composition	3 NO
Control circuit voltage	24 V DC

Complementary

Coil technology	Built-in bidirectional peak limiting diode suppressor
[Ie] rated operational current	9 A AC AC-3 power circuit 20 A ≤ 50 °C AC AC-1 power circuit
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
Auxiliary contact composition	1 NO
Control circuit voltage limits	0.7...1.3 Uc ≤ 50 °C operational >= 0.10 Uc ≤ 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 mm² flexible with Screw clamp terminal power circuit 2 0,75...4 mm² flexible without Screw clamp terminal power circuit 1 1,5...4 mm² solid without Screw clamp terminal power circuit 2 1,5...4 mm² solid without Screw clamp terminal power circuit 1 0,75...4 mm² flexible without Screw clamp terminal power circuit 2 0,34...2,5 mm² 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

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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 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 440 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 110 A 440 V power circuit IEC 60947
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	1,8 W 20 °C
Hold-in power consumption in W	1,8 W 20 °C
Operating time	10...20 ms coil de-energisation and NO opening 15...25 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
Mechanical durability	30000000 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	0,235 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	1,8 W control circuit
RoHS EUR conformity date	0825
RoHS EUR status	Compliant