Product datasheet Characteristics

LP1K0901BD

TeSys K contactor - 3P(3 NO) - AC-3 - <= 440 V 9 A - 24 V DC coil



Main

Range of product	TeSys K	,
Range	TeSys	į
Product or component type	Contactor	
Product name	TeSys K	,
Device short name	LP1K	
Contactor application	Resistive load Motor control	

Complementary

Complementary		0
Utilisation category	AC-1	used for determining
	AC-3	det
	AC-4	
Poles description	3P	Sed
Pole contact composition	3 NO	and is not to be
[Ue] rated operational voltage	690 V AC 50/60 Hz for power circuit	
	<= 690 V AC 50/60 Hz for signalling circuit	<u>ଅ</u> .
[le] rated operational current	9 A at <= 440 V AC AC-3 for power circuit	n
	20 A (<= 50 °C) at <= 440 V AC AC-1 for power circuit	ق
	16 A (<= 70 °C) at 690 V AC AC-1 for power circuit	substitute for
Control circuit type	DC standard	a su
Control circuit voltage	24 V DC	ص ه ه
Motor power kW	2.2 kW at 220230 V AC 50/60 Hz	is not intended
	4 kW at 440 V AC 50/60 Hz	
	4 kW at 660690 V AC 50/60 Hz	Ō
	4 kW at 500600 V AC 50/60 Hz	
	4 kW at 480 V AC 50/60 Hz	atic
	4 kW at 380415 V AC 50/60 Hz	= ====================================
Auxiliary contact composition	1 NC	This documentation
[Uimp] rated impulse withstand voltage	8 kV	
Overvoltage category	III	

[lth] conventional free air thermal current	20 A at <= 50 °C for power circuit 10 A at <= 50 °C for signalling circuit
Irms rated making capacity	110 A AC for power circuit conforming to IEC 60947 110 A AC for signalling circuit conforming to IEC 60947 110 A AC for power circuit conforming to NF C 63-110
Rated breaking capacity	110 A at 380400 V conforming to IEC 60947 70 A at 660690 V conforming to IEC 60947 110 A at 440 V conforming to IEC 60947 110 A at 220230 V conforming to IEC 60947 80 A at 500 V conforming to IEC 60947 110 A at 415 V conforming to IEC 60947
[lcw] rated short-time withstand current	45 A <= 50 °C 1 min power circuit 90 A <= 50 °C 1 s power circuit 40 A <= 50 °C 3 min power circuit 60 A <= 50 °C 30 s power circuit 85 A <= 50 °C 5 s power circuit 110 A 100 ms signalling circuit 80 A <= 50 °C 10 s power circuit 80 A 1 s signalling circuit 20 A <= 50 °C >= 15 s power circuit 90 A 500 ms signalling circuit
Associated fuse rating	25 A aM for power circuit 10 A gG for signalling circuit conforming to VDE 0660 10 A gG for signalling circuit conforming to IEC 60947 25 A gG at <= 440 V for power circuit
Average impedance	3 mOhm at 50 Hz - Ith 20 A for power circuit
[Ui] rated insulation voltage	690 V for signalling circuit conforming to IEC 60947-4-1 600 V for signalling circuit conforming to CSA C22.2 No 14 690 V for power circuit conforming to IEC 60947-4-1 600 V for power circuit conforming to CSA C22.2 No 14 600 V for signalling circuit conforming to UL 508 600 V for power circuit conforming to UL 508 690 V for signalling circuit conforming to IEC 60947-5-1
Insulation resistance	> 10 MOhm for signalling circuit
Inrush power in W	3 W at 20 °C
Hold-in power consumption in W	3 W at 20 °C
Heat dissipation	3 W
Control circuit voltage limits	0.81.15 Uc at <= 50 °C operational 0.10.75 Uc at <= 50 °C drop-out
Connections - terminals	Screw clamp terminals 1 cable(s) 0.342.5 mm² - cable stiffness: flexible - with cable end Screw clamp terminals 2 cable(s) 0.341.5 mm² - cable stiffness: flexible - with cable end Screw clamp terminals 2 cable(s) 0.754 mm² - cable stiffness: flexible - without cable end Screw clamp terminals 1 cable(s) 0.754 mm² - cable stiffness: flexible - without cable end Screw clamp terminals 1 cable(s) 1.54 mm² - cable stiffness: solid Screw clamp terminals 2 cable(s) 1.54 mm² - cable stiffness: solid
Operating rate	3600 cyc/h
Auxiliary contacts type	Type instantaneous (1 NC)
Minimum switching current	5 mA for signalling circuit
Minimum switching voltage	17 V for signalling circuit
Mounting support	Rail Plate
Tightening torque	1.3 N.m - on screw clamp terminals - with screwdriver Philips No 2 1.3 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm
Operating time	3040 ms coil energisation and NO closing 10 ms coil de-energisation and NO opening
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
Non overlap distance	0.5 mm
Mechanical durability	10 Mcycles
Electrical durability	0.18 Mcycles 20 A AC-1 at Ue <= 440 V 1.3 Mcycles 9 A AC-3 at Ue <= 440 V
Mechanical robustness	Shocks contactor opened, on Z axis 10 Gn for 11 ms IEC 60068-2-27 Shocks contactor closed, on Y axis 10 Gn for 11 ms IEC 60068-2-27 Shocks contactor opened, on X axis 10 Gn for 11 ms IEC 60068-2-27 Shocks contactor opened, on Y axis 6 Gn for 11 ms IEC 60068-2-27



Vibrations contactor opened 2 Gn, 5300 Hz IEC 60068-2-6
Shocks contactor closed, on X axis 15 Gn for 11 ms IEC 60068-2-27
Shocks contactor closed, on Z axis 15 Gn for 11 ms IEC 60068-2-27
Vibrations contactor closed 4 Gn, 5300 Hz IEC 60068-2-6

Height	58 mm
Width	45 mm
Depth	57 mm
Product weight	0.225 kg
Compatibility code	LP1K

Environment

NF C 63-110
VDE 0660
BS 5424
IEC 60947
UL
CSA
IP2x conforming to VDE 0106
TC conforming to DIN 50016
TC conforming to IEC 60068
-2550 °C
-5080 °C
2000 m without derating in temperature
Requirement 2 conforming to NF F 16-101
V1 conforming to UL 94
Requirement 2 conforming to NF F 16-102

Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 0633 - Schneider Electric declaration of conformity
	Schneider Electric declaration of conformity
REACh	Reference not containing SVHC above the threshold
	Reference not containing SVHC above the threshold
Product environmental profile	Available
	End of life manual
Product end of life instructions	Available

Contractual warranty

Warranty period	18 months	