Product datasheet Characteristics

LP1K1201BD

TeSys K contactor - 3P(3 NO) - AC-3 - <= 440 V 12 A - 24 V DC coil



Main

Range of product	TeSys K	
Range	TeSys	ž
Product or component type	Contactor	9
Product name	TeSys K	
Device short name	LP1K	
Contactor application	Motor control Resistive load	i di

Complementary

Complementary		2.
Utilisation category	AC-1	i
	AC-3	9
	AC-4	j
Poles description	3P	Cilimates
Pole contact composition	3 NO	subjectify the fore and is not in to
[Ue] rated operational voltage	<= 690 V AC 50/60 Hz for signalling circuit	
	690 V AC 50/60 Hz for power circuit	<u>.ي</u> ت
[le] rated operational current	20 A (<= 50 °C) at <= 440 V AC AC-1 for power circuit	
	12 A at <= 440 V AC AC-3 for power circuit	\$ \$
	16 A (<= 70 °C) at 690 V AC AC-1 for power circuit	: <u>=</u>
Control circuit type	DC standard	
Control circuit voltage	24 V DC	ر م ح
Motor power kW	5.5 kW at 380415 V AC 50/60 Hz	tot interaction
	4 kW at 480 V AC 50/60 Hz	
	5.5 kW at 440 V AC 50/60 Hz	
	4 kW at 660690 V AC 50/60 Hz	<u>».</u> 2
	3 kW at 220230 V AC 50/60 Hz	
	4 kW at 500600 V AC 50/60 Hz	
Auxiliary contact composition	1 NC	is decommentation
[Uimp] rated impulse withstand voltage	8 kV	
Overvoltage category	III	E

[Ith] conventional free air thermal current	10 A at <= 50 °C for signalling circuit 20 A at <= 50 °C for power circuit
Irms rated making capacity	110 A AC for signalling circuit conforming to IEC 60947 144 A AC for power circuit conforming to NF C 63-110 144 A AC for power circuit conforming to IEC 60947
Rated breaking capacity	110 A at 440 V conforming to IEC 60947 70 A at 660690 V conforming to IEC 60947 80 A at 500 V conforming to IEC 60947
[lcw] rated short-time withstand current	55 A <= 50 °C 1 min power circuit 100 A <= 50 °C 10 s power circuit 25 A <= 50 °C >= 15 s power circuit 105 A <= 50 °C 5 s power circuit 90 A 500 ms signalling circuit 80 A 1 s signalling circuit 75 A <= 50 °C 30 s power circuit 110 A 100 ms signalling circuit 50 A <= 50 °C 3 min power circuit 115 A <= 50 °C 1 s power circuit
Associated fuse rating	10 A gG for signalling circuit conforming to IEC 60947 25 A gG at <= 440 V for power circuit 10 A gG for signalling circuit conforming to VDE 0660 25 A aM 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 60947-5-1 600 V for signalling circuit conforming to CSA C22.2 No 14 600 V for power circuit conforming to CSA C22.2 No 14 690 V for signalling circuit conforming to IEC 60947-4-1 600 V for signalling circuit conforming to UL 508 690 V for power circuit conforming to IEC 60947-4-1 600 V for power circuit conforming to UL 508
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 2 cable(s) 0.341.5 mm² - cable stiffness: flexible - with cable end Screw clamp terminals 1 cable(s) 0.342.5 mm² - cable stiffness: flexible - with cable end Screw clamp terminals 1 cable(s) 1.54 mm² - cable stiffness: solid Screw clamp terminals 1 cable(s) 0.754 mm² - cable stiffness: flexible - without cable end Screw clamp terminals 2 cable(s) 0.754 mm² - cable stiffness: flexible - without cable end 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	Plate Rail
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	10 ms coil de-energisation and NO opening 3040 ms coil energisation and NO closing
Safety reliability level	B10d = 20000000 cycles contactor with mechanical load conforming to EN/ISO 13849-1 B10d = 1369863 cycles contactor with nominal load conforming to EN/ISO 13849-1
Non overlap distance	0.5 mm
Mechanical durability	10 Mcycles
Electrical durability	1.3 Mcycles 12 A AC-3 at Ue <= 440 V 0.3 Mcycles 20 A AC-1 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 Z axis 15 Gn for 11 ms IEC 60068-2-27 Shocks contactor opened, on Y axis 6 Gn for 11 ms IEC 60068-2-27 Shocks contactor closed, on X axis 15 Gn for 11 ms IEC 60068-2-27 Vibrations contactor closed 4 Gn, 5300 Hz IEC 60068-2-6 Vibrations contactor opened 2 Gn, 5300 Hz IEC 60068-2-6 Shocks contactor opened, on X 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

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

Environment

Standards	VDE 0660
	NF C 63-110
	IEC 60947
	BS 5424
Product certifications	CSA
	UL
IP degree of protection	IP2x conforming to VDE 0106
Protective treatment	TC conforming to IEC 60068
	TC conforming to DIN 50016
Ambient air temperature for operation	-2550 °C
Ambient air temperature for storage	-5080 °C
Operating altitude	2000 m without derating in temperature
Flame retardance	Requirement 2 conforming to NF F 16-102
	Requirement 2 conforming to NF F 16-101
	V1 conforming to UL 94

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			
	1		18 months