Product datasheet Characteristics

LP1K0610BD

TeSys K contactor - 3P(3 NO) - AC-3 - <= 440 V 6 A - 24 V DC coil



Main

Mairi		}
Range of product	TeSys K	
Range	TeSys	,
Product name	TeSys K	
Device short name	LP1K	
Contactor application	Motor control	

Complementary

Utilisation category	AC-3
	AC-4
Poles description	3P
Pole contact composition	3 NO
[Ue] rated operational voltage	690 V AC 50/60 Hz for power circuit <= 690 V AC 50/60 Hz for signalling circuit
[le] rated operational current	6 A at <= 440 V AC AC-3 for power circuit
Control circuit type	DC standard
Control circuit voltage	24 V DC
Motor power kW	2.2 kW at 380415 V AC 50/60 Hz 3 kW at 440 V AC 50/60 Hz 1.5 kW at 220230 V AC 50/60 Hz 3 kW at 480 V AC 50/60 Hz 3 kW at 660690 V AC 50/60 Hz 3 kW at 500600 V AC 50/60 Hz
Auxiliary contact composition	1 NO
[Uimp] rated impulse withstand voltage	8 kV
Overvoltage category	III
[lth] 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 power circuit conforming to IEC 60947 110 A AC for power circuit conforming to NF C 63-110 110 A AC for signalling circuit conforming to IEC 60947

Rated breaking capacity	70 A at 660690 V conforming to IEC 60947 80 A at 500 V conforming to IEC 60947 110 A at 380400 V conforming to IEC 60947 110 A at 220230 V conforming to IEC 60947 110 A at 440 V conforming to IEC 60947 110 A at 415 V conforming to IEC 60947
[lcw] rated short-time withstand current	85 A <= 50 °C 5 s power circuit 60 A <= 50 °C 30 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 45 A <= 50 °C 1 min power circuit 90 A <= 50 °C 1 s power circuit 40 A <= 50 °C 3 min power circuit 90 A 500 ms signalling circuit
Associated fuse rating	10 A gG for signalling circuit conforming to IEC 60947 25 A aM for power circuit 10 A gG for signalling circuit conforming to VDE 0660 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 60947-5-1 690 V for signalling circuit conforming to IEC 60947-4-1 600 V for signalling circuit conforming to UL 508 600 V for signalling circuit conforming to CSA C22.2 No 14 600 V for power circuit conforming to UL 508 690 V for power circuit conforming to IEC 60947-4-1 600 V for power circuit conforming to CSA C22.2 No 14
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) 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 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 NO)
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 flat Ø 6 mm 1.3 N.m - on screw clamp terminals - with screwdriver Philips No 2
Operating time	3040 ms coil energisation and NO closing 10 ms coil de-energisation and NO opening
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 6 A AC-3 at Ue <= 440 V
Mechanical robustness	Shocks contactor opened, on Y axis 6 Gn for 11 ms IEC 60068-2-27 Shocks contactor opened, on Z axis 10 Gn for 11 ms IEC 60068-2-27 Vibrations contactor closed 4 Gn, 5300 Hz IEC 60068-2-6 Shocks contactor closed, on Y axis 10 Gn for 11 ms IEC 60068-2-27 Shocks contactor closed, on X axis 15 Gn for 11 ms IEC 60068-2-27 Without the property of 2 Cn F 2000 Hz IEC 60068-2
	Vibrations contactor opened 2 Gn, 5300 Hz IEC 60068-2-6 Shocks contactor closed, on Z axis 15 Gn for 11 ms IEC 60068-2-27 Shocks contactor opened, on X axis 10 Gn for 11 ms IEC 60068-2-27
Depth	Shocks contactor closed, on Z axis 15 Gn for 11 ms IEC 60068-2-27



Compatibility code	LP1K	
Environment		
Standards	BS 5424 VDE 0660 NF C 63-110 IEC 60947	
Product certifications	UL CSA	
IP degree of protection	IP2x conforming to VDE 0106	
Protective treatment	TC conforming to DIN 50016 TC conforming to IEC 60068	
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 V1 conforming to UL 94 Requirement 2 conforming to NF F 16-101	
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