

COMPACT PC BOARD POWER RELAY

SMI-2P-RELAY



UL,C-UL File No.:E179745 TUV File No.:R50143452 CQC File No.:CQC07001018779

- •Miniature package with universal terminal footprint P.C. board technique.
- •High dielectric withstanding for transient protection. 10,000 V surge in msec between coil and contact.

SPECIFICATIONS

Contact

Arrangement		2a, 2c		
Contact material		Silver alloy		
Contact resistance (1A 6VDC)		50m Ω Max .		
UL/C-UL rating Resistance load (cos ∳ =1)		5A 250 VAC 5A 24VDC		
Inductive load (cos		2A 240 VAC 2A 120 VAC		
TW rating		5A 250 VAC 5A 24VDC		
CQCrating		5A 250VAC		
Max.switching voltage		250VAC 30VDC		
Max.switching current		5A		
Max.switching power		1,250VA 120W		
Expected life(min.ope)	Mechanical (at 180 cpm)	1X10 ⁷		
	Electrical (at 20 cpm)	1X10⁵		

Characteristics

Item Operate time	Туре	SMI-D 15 msec. Max.	SMI-L 20 msec. Max.			
Release time		8 msec.Max.				
Operating humidity		45~80%	45~80% RH			
Initial Between contact and coil		5,000VAC (50/60Hz) for 1 min.				
breakdown voltage	Between open contacts	1,000VAC (50/60Hz) for 1 min.				
Ambient temperature		-40℃~+85℃				
Surge voltage		10,000V (between coil contacts)				
Shock Functional		10G Min.				
resistance	Destructive	100G Min.				
Vibration	Functional	10 TO 55 Hz at double Amplitude of 1.5				
resistance	Destructive	10 TO 55 Hz at double Amplitude of 1.5mr				
Temperature rise (Max.)		45℃	35℃			
Unit weight		Approx.15g				

Coil

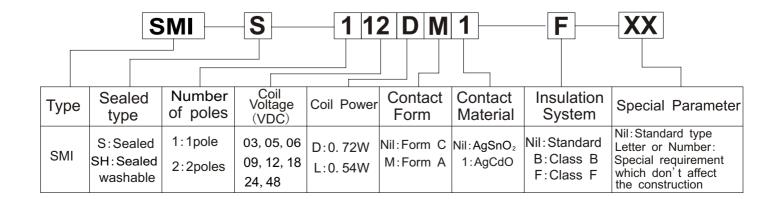
Nominal operating power 0.54W, 0.72W	Nominal operating power	0.54W, 0.72W
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TYPICAL APPLICATIONS

- 1. Cooking appliances
- 3. Audio equipment
- 5. Industrial equipment etc.

- 2. Air conditioners
- 4. Domestic appliances

ORDERING INFORMATION

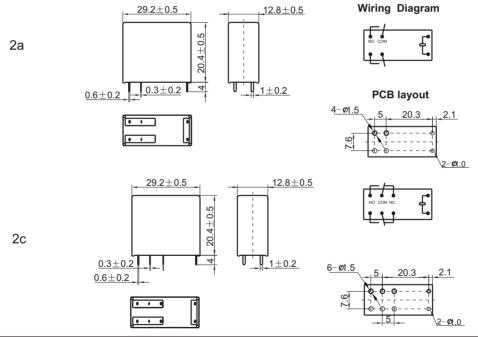


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Туре	Voltage code	Nominal voltage (VDC)	Nominal current (mA)	Coil resistance (Ω±10%)	Drop-out voltage (VDC)	Pick-up voltage (VDC)	Nominal operating power (W)	Max allowable voltage (VDC)		
03 05 06	03	3	240.00	12.5				130% of nominal voltage		
	05	5	138.89	36						
	06	6	120.00	50						
SMI-D	09	9	78.26	115	5%Min.	80%Max.	0.70			
2MII-D	12	12	60.00	200	5%WIII.	80%Max.	6Max. 0.72			
	18	18	40.00	450						
	24 48	24	29.27	820						
		48	14.55	3,300						
	03	3	176.47	17				130% of		
05 06 09 SMI-L 12 18 24 48	05	5	108.70	46	5%Min.					
	06	6	89.55	67						
	09	9	60.00	150						
	12	12	44.94	267		5%Min.	5%Min.	80%Max. 0.54	0.54	nominal voltage
	18	18	30.00	600						
	24	24	22.49	1,067						
	48	48	11.25	4,267						

OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT(unit:mm)



CHARACTERISTICS CURVE



MAXIMUM SWITCHING POWER

COIL TEMPERATURE RISE

