



UL,C-UL File No.:E179745
TUV File No.:R50038852/3
CQC File No.:CQC02001002125

- 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 resistive (By voltage drop 1A 6VDC)	50 mΩ Max.	
UL/C-UL rating		
Resistive load (cos φ =1)	5A	250VAC
	5A	24VDC
Inductive load (cos φ =0.75~0.8)	2A	240VAC
	2A	120VAC
TUV rating	5A	240VAC
	5A	30VDC
CQC rating	5A/40A	250VAC
Max.switching voltage	250VAC	30VDC
Max.switching current	5A	
Max.switching power	1,250VA	120W
Exoected life(min.ope)	Mechanical (at 180 cpm)	1X10 ⁷
	Electrical (at 20 cpm)	1X10 ⁵

Characteristics

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

Coil

Nominal operating power	0.54W, 0.72W
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TYPICAL APPLICATION

1. Cooking appliances
2. Airconditioners
3. Audio equipment.
4. Domestic appliances
5. Industrial equipment etc.

ORDERING INFORMATION

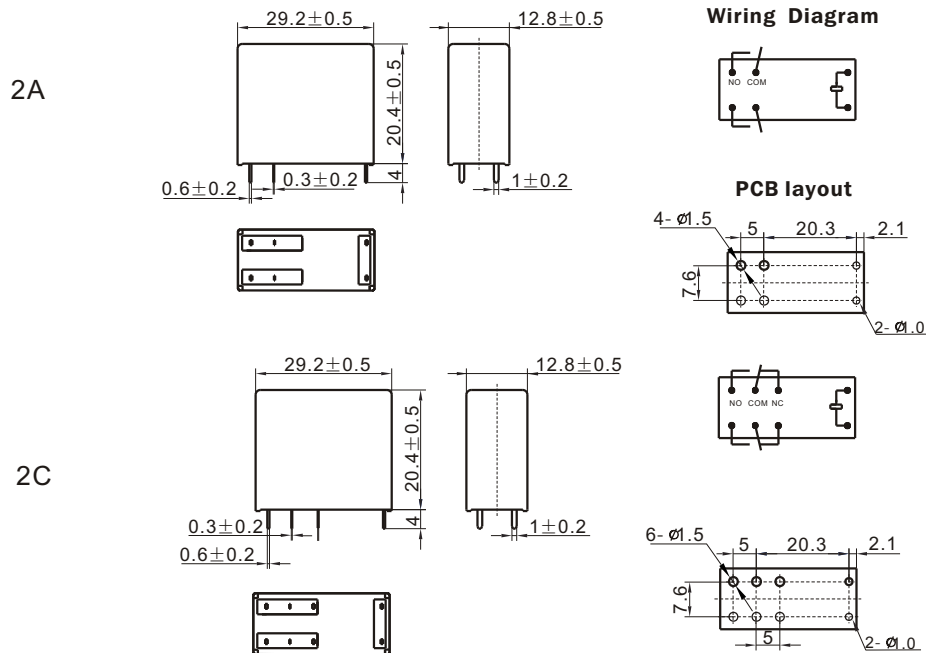
Type	Protective construction	Number of pole	Coil type	Coil sensitivity	Contact form
SMI	NIL:Flux type S:Seadled type	2:2 pole	03,05,06,09, 12,18,24,48	D:0.72W L:0.54W	M:2 Form A Nil:2 Form C

COIL(at 20°C)

SMI-2P

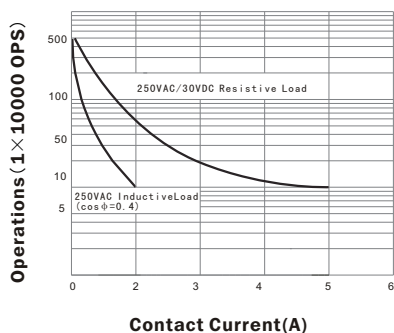
Type	Voltage code	Nominal voltage (VDC)	Nominal current (mA)	Coil resistance ($\Omega \pm 10\%$)	Drop-out voltage (VDC)	Pick-up voltage (VDC)	Nominal operating power (W)	Max allowable voltage (VDC)
SMI-D	03	3	240.00	12.5	5%Min.	80%Max.	0.72	130% of nominal voltage
	05	5	138.89	36				
	06	6	120.00	50				
	09	9	78.26	115				
	12	12	60.00	200				
	18	18	40.00	450				
	24	24	29.27	820				
	48	48	14.55	3,300				
SMI-L	03	3	176.47	17	5%Min.	80%Max.	0.54	130% of nominal voltage
	05	5	108.70	46				
	06	6	89.55	67				
	09	9	60.00	150				
	12	12	44.94	267				
	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)

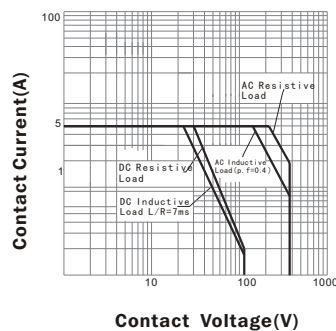


CHARACTERISTICS CURVE

LIFE CURVE



MAXIMUM SWITCHING POWER



COIL TEMPERATURE RISE

