



UL,C-UL File No.:E179745
TUV File No.:R50030681/1
CQC File No.:CQC03001007670

- Contact capacity of 5A and 10A available to comply with wide application
- Double insulation construction for high reliability
- Insulation distance of 6.0 mm designed for surge resistance of
- Employment of suitable plastic materials to be applied to high temperature and various chemical solution.
- Complete sealed type available if required.

SPECIFICATIONS

Contact

Arrangement	1a	
Contact material	Silver alloy	
Contact resistance (By voltage drop 1A 6VDC)	50mΩ Max.	
UL/C-UL rating		
Resistance load (cos φ =1)	10A	250VAC
	10A	30VDC
Inductive load (cos φ =0.75~0.8)	3A	250VAC
TUV rating	10A	250VAC
	10A	30VDC
CQC rating	10A	250VAC
Max.switching voltage	250VAC	30VDC
Max.switching current	10A	
Max.switching power	2,500VA	300W
Expected life(min.ope)	Mechanical (at 120 cpm)	1X10 ⁷
	Electrical (at 20 cpm)	1X10 ⁵

Coil

Nominal operating power	0.54W
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Characteristics

Operate time	15 msec.Max.	
Release time	5 msec.Max.	
Operating humidity	45~85%RH	
Initial breakdown voltage	Between contact and coil	4,000VAC (50/60Hz) for 1 min.
	Between open contacts	900VAC (50/60Hz) for 1 min.
Insulation resistance	100MΩ Min.(500VDC)	
Ambient temperature	-30℃ ~ +85℃	
Shock resistance	Functional	10G Min.
	Destructive	100G Min.
Vibration resistance	Functional	10 TO 55 Hz at double Amplitude of 1.5mm
	Destructive	10 TO 55 Hz at double Amplitude of 1.5mm
Unit weight	Approx. 11g	

TYPICAL APPLICATIONS

1. Domestic appliance.
2. Air conditioner
3. Office machine.

ORDERING INFORMATION



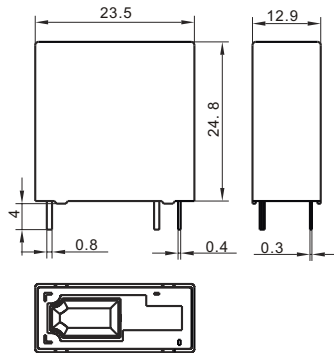
Type	Protective construction	Number of poles	Coil voltage	Coil sensitivity	Contact form
SMA	NIL:Flux type S:Sealed type	1:1 pole	03,05,06,09, 12,18,24,48	D:0.54W	M:1 Form A

COIL(at 20°C)

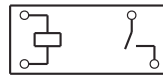
SMA

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)
03	3	176.47	17	10%Min.	75%Max.	Abt.0.54	130% of nominal voltage
05	5	106.38	47				
06	6	88.24	68				
09	9	44.44	155				
12	12	58.06	270				
18	18	30.00	600				
24	24	21.82	1,100				
48	48	10.91	4,400				

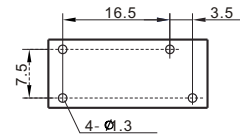
OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT(unit:mm)



Wiring Diagram

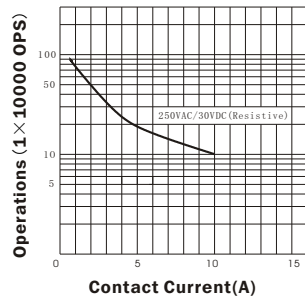


PCB layout



CHARACTERISTICS CURVE

LIFE CURVE



COIL TEMPERATURE RISE

