SONGLE RELAY

松乐继电器 ® SONGLE RELAY	RELAY ISO9002	SMI

1. MAIN FEATURES

•Slim type and small occupying space can offer high density P.C.B. technique.

•Low coil power consumption type and general coil power consumption
are prepared to comply with user's wide selections.

•Employment of suitable plastic materials to be applied to high temperature
and various chemical solutions.

•Complete protective construction from dust and soldering flux. If required,

2. APPLICATIONS

• Cooking appliances, air conditioners, audio equipment, domestic appliances, etc.

3. ORDERING INFORMATION

SMI-2P	XX VDC	S	L	C
Model of relay	Nominal coil voltage	Structure	Coil sensitivity	Contact form
SMI -1P	05，06，09，12，24，48VDC	S:Sealed type	L: 0.54W	A:1 form A
				B: 1 form B
		F:Flux free type	D: 0.72W	C: 1 form B

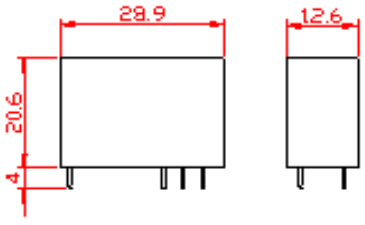
4. RATING

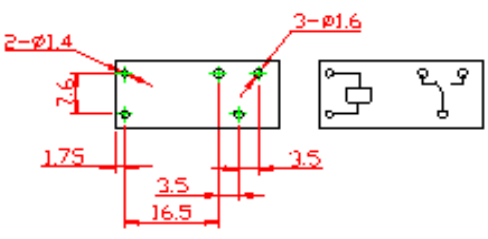
CQC FILE NUMBER:CH0036746-99 10 A/250VDC

UL FILE NUMBER: E167996 10 A/240VAC 30VDC

TUV FILE NUMBER: R9933789 10A/250VAC 30VDC

5. DIMENSION(unit:mm) DRILLING(unit:mm) WIRING DIAGRAM





6. COIL DATA CHART (AT20°C)

Coil Sensitivity	Coil Voltage Code	Nominal Voltage (VDC)	Nominal Current (mA)	Coil Resistance (Ω) ±10%	Power Consumption (W)	Pull-In Voltage (VDC)	Drop-Out Voltage (VDC)	Max-Allowable Voltage (VDC)
SMI- P0.72W	03	03	240	12.5	abt. 0.72W	80%Max.	5% Min.	130% Max.
	05	05	138.9	36				
	06	06	120	50				
	09	09	78.3	115				
	12	12	60	200				
	24	24	29.3	820				
	48	48	14.5	3300				
SMI- P0.54W	03	03	126.5	17	abt. 0.54W	80%Max.	5% Min.	130% Max.
	05	05	106.4	47				
	06	06	88	68				
	09	09	58	155				
	12	12	44.4	270				
	24	24	21.8	1100				
	48	48	10.9	4400				

7. CONTACT RATING

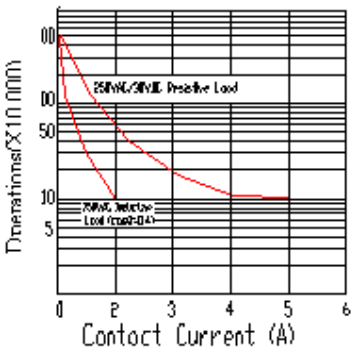
Item \ Arrangement	SMI- 1P	
Rated load	Resistive Load (cosΦ=1)	Inductive Load (cosΦ=0.4)
	5A 250VAC 5A 30VDC	2A 250VAC 2A 30VDC
Carrying current	5A	
Max. switching voltage	190VAC,65VDC	
Min. permissible load	5VDC 10Ma	
Contact material	AgCdO	

8. PERFORMANCE (at initial value)

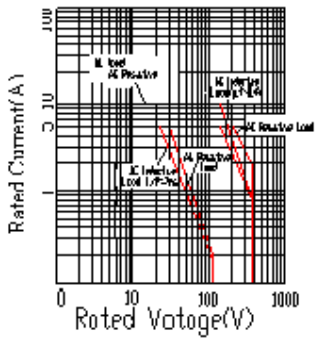
Item \ Type	SMI-2P
Contact Resistance	100mΩ Max.
Operation Time	15msec Max.
Release Time	8msec Max.
Dielectric Strength Between coil & contact Between contacts	 5000VAC 50/60HZ (1 minute) 1000VAC 50/60HZ (1 minute)
Surge Resistiveness	1000V (between coil & contact 1×40 msec)
Insulation Resistance	100 MΩ Min. (500VDC)
Max. ON/OFF Switching Mechanically Electrically	 300 operation/min 30 operation/min
Operating Ambient Temperature	-20°C to +55°C
Operating Humidity	45 to 80% RH
Coil Temperature Rise	45 deg. Max. (at rated coil voltage)
Vibration Endurance Error Operation	 10 to 55Hz Double Amplitude 1.5mm 10 to 55Hz Double Amplitude 1.5mm
Shock Endurance Error Operation	 100G Min. 10G Min.
Life Expectancy Mechanically Electrically	 10^7 operations. Min. 10^5 operations. Min.

9、USEFUL CURVES

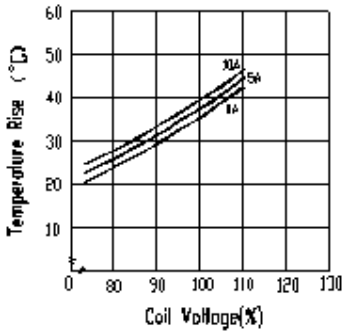
Life curve



Contact Switching Capacity



Temperature Rise



Weight	abt. 13grs.