

SONGLE RELAY



RELAY ISO9002

SMI-2P



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,

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

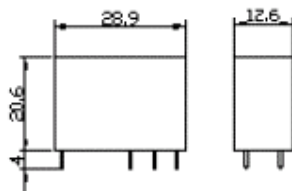
3. ORDERING INFORMATION

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

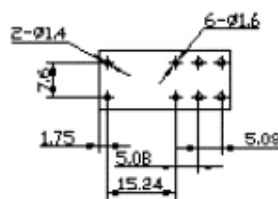
4. RATING

CCC FILE NUMBER: CH0036746-99 5A/250VDC
 UL FILE NUMBER: E167996 5A/240VAC 30VDC
 TUV FILE NUMBER: R9933789 5A/240VAC 30VDC

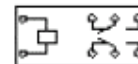
5. DIMENSION (unit:mm)



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) $\pm 10\%$	Power Consumption (W)	Pull-In Voltage (VDC)	Drop-Out Voltage (VDC)	Max-Allowable Voltage (VDC)
SMI-2P0.72W	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				
SMI-2P0.54W	48	48	14.5	3300				
	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				

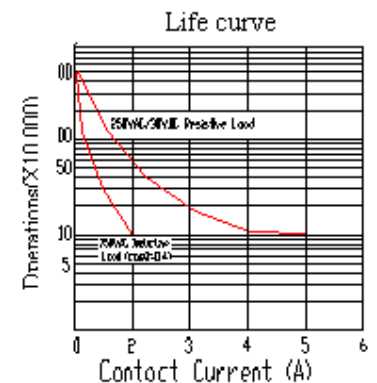
7. CONTACT RATING

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

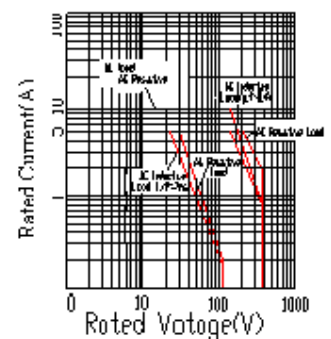
8. PERFORMANCE (at initial value)

Item	Type	SMI-2P
Contact Resistance		100m Ω Max.
Operation Time		15msec Max.
Release Time		8msec Max.
Dielectric Strength		
Between coil & contact		5000VAC 50/60HZ (1 minute)
Between contacts		1000VAC 50/60HZ (1 minute)
Surge Resistiveness		1000V (between coil & contact 1 $\times$ 40 msec)
Insulation Resistance		100 M Ω Min. (500VDC)
Max. ON/OFF Switching		
Mechanically		300 operation/min
Electrically		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		10 to 55Hz Double Amplitude 1.5mm
Error Operation		10 to 55Hz Double Amplitude 1.5mm
Shock		
Endurance		100G Min.
Error Operation		10G Min.
Life Expectancy		
Mechanically		10 ⁷ operations. Min.
Electrically		10 ⁵ operations. Min.

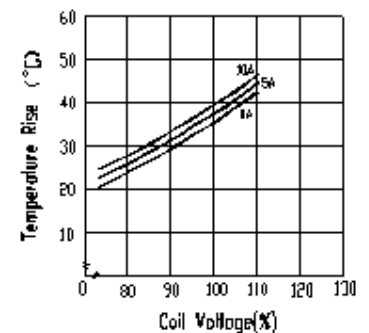
9. USEFUL CURVES



Contact Switching Capacity



Temperature Rise



Weight	abt. 13grs.
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