

	RELAY ISO9002	SMI
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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, plastic epoxy resin sealed type is available for washing procedure.

2. APPLICATIONS

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

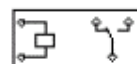
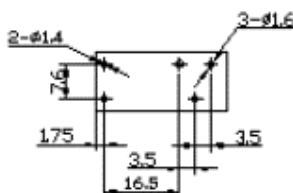
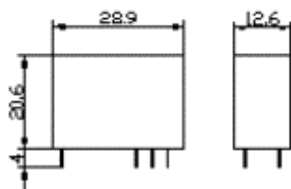
3. ORDERING INFORMATION

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

4. RATING

CCC	FILE NUMBER: CH0036746-99	10A/250VDC
UL	FILE NUMBER: E167996	10A/240VAC 30VDC
TUV	FILE NUMBER: R9933789	10A/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)
SMI0.72W	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				
SMI0.54W	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-1pole	
Rated load		Resistive Load ($\cos \phi = 1$)	Inductive Load ($\cos \phi = 0.4$)
		10A 250VAC 10A 30VDC	4A 250VAC 4A 30VDC
Carrying current		10A	
Max. switching voltage		380VAC, 125VDC	
Min. permissible load		5VDC 10mA	
Contact material		AgCdO	

9. USEFUL CURVES

8. PERFORMANCE (at initial value)

Item	Type	SMI-1pole
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.
Weight		abt. 13grs.