

SONGLE RELAY

	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.

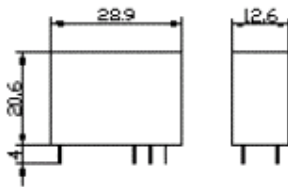
3. ORDERING INFORMATION

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

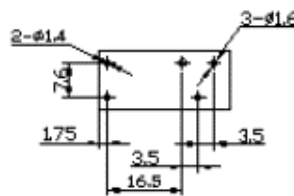
4. RATING

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

Arrangement	SMI-1pole	
Item	Resistive Load ($\cos \phi = 1$)	Inductive Load ($\cos \phi = 0.4$)
Rated load	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)

Type	SMI-1pole
Contact Resistance	100m Ω 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 \times 40 msec)
Insulation Resistance	100 M Ω 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.
Weight	abt. 13grs.