

SONGLE RELAY



1. MAIN FEATURES ISO9002

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

• Low coil power consumption type and general coil power consumption

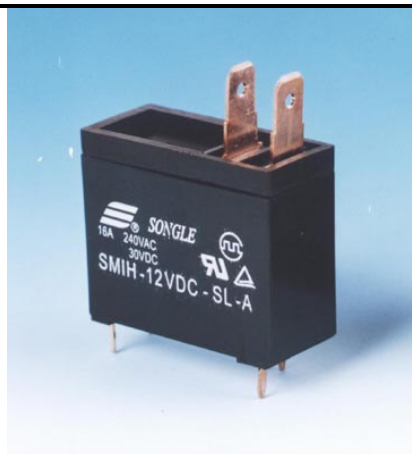
are prepared to comply with user's wide selections.

• 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

SMIH-plug in	XX VDC	S	L	A
Model of relay	Nominal coil voltage	Structure	Coil sensitivity	Contact form
SMIH-plug in	05、06、09、12、24、48VDC	S:Sealed type	L: 0.54W	A:1 form A
		F:Flux free type	D: 0.72W	

4. RATING

CCC FILE NUMBER:CH0036746-99 16A/250VDC

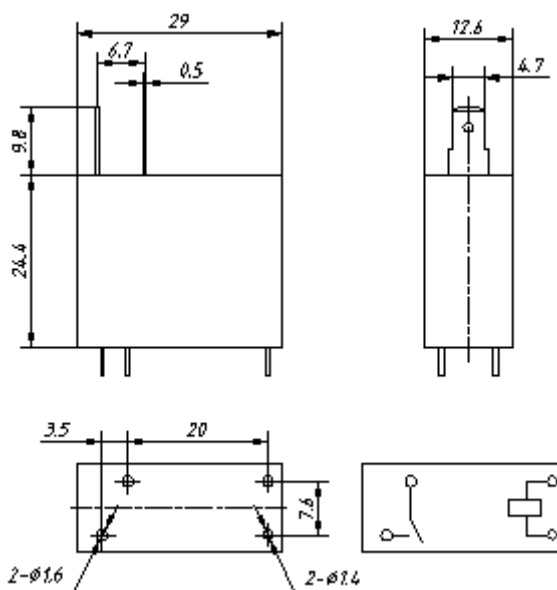
UL FILE NUMBER: E167996 16A/240VAC 30VDC

TUV FILE NUMBER: R9933789 16A/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)
SMIH-plug in 0.72W	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				
SMIH-plug in 0.54W	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	SMIH-plug in	
Rated load		Resistive Load ($\cos \Phi = 1$)	Inductive Load ($\cos \Phi = 0.4$)
		16A 250VAC 16A 30VDC	7A 250VAC 7A 30VDC
Carrying current		16A	
Max. switching voltage		450VAC, 200VDC	
Min. permissible load		5VDC 10mA	
Contact material		AgCdO	

9. USEFUL CURVES

8. PERFORMANCE (at initial value)

Item	Type	SMIH-plug in	
Contact Resistance		100m Ω Max.	
Operation Time		15msec Max.	
Release Time		8msec Max.	
Dielectric Strength			
Between coil & contact		4000VAC 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.	