

# S12H RELAY

SHORI

## ◆ Features

- Heavy duty 40A general purpose power relays.
- Special design for UPS , power supply of high rating application and home appliance



## ◆ Coil Data [at 23°C]

Rated voltage ( V )	Coil Resistance ±10% (Ω)	Rated Current ±10% (mA)	Pick up Voltage (Max)	Drop out Voltage (Min)	Max continuous Voltage	Power consumption At rated Voltage
5	27	186	75% of rated voltage	10% of rated voltage	130% Max of Rated voltage	Approx.0.93W
6	40	155				
9	97	93				
12	155	77				
15	256	59				
18	380	47				
24	660	36				
48	2560	18				
110	13450	8				

## ◆ Contact Rating

Resistive load	40A 240VAC
Max. switching current	40A
Max. switching voltage	277VAC
Max. switching capacity	9600VA

## ◆ Type List

Terminal style	Contact form	Designation(provided with)	
		Open type	Sealed type washable
PCB terminal	1A (SPNO)	S12H-PA-12	S12H-PAS-12
	1B (SPNC)	S12H-PB-12	S12H-PBS-12
	1C(SPDT)	S12H-PC-12	S12H-PCS-12

### ◆ Ordering information

S12H - P C S - 12

1            2    3   4       5

1. S12 -- Basic series designation
2. P -- PCB terminal
3. A -- Single pole normally open  
B -- Single pole normally closed  
C -- Single pole double throw
4. S -- Sealed type washable  
Blank -- Open type
5. 12 -- Coil Voltage (5V~110V)

### ◆ Specification

Contact material	Ag Alloy	
Contact resistance	50 mΩ Max	
Operate time	15 ms Max	
Release time	10 ms Max	
Insulation resistance	100 MΩ Min. (DC 500V)	
Dielectric strength	Between open contact : AC 1500V ,50/60Hz 1 min.	
	Between contact and coil : AC 1500V, 50/60Hz 1 min.	
Vibration resistance	Operating extremes	10~50Hz, amplitude 1.5 mm
	Damage limits	10~50Hz, amplitude 1.5 mm
Shock resistance	Operating extremes	10G
	Damage limits	100G
Life expectancy	Mechanical	10,000,000 operations (frequency 18,000 operations/hr)
	Electrical	NO:30,000 operations: NC:10,000 operations (frequency 360 operations/hr)
Operating ambient temperature	-30~+55°C(no freezing)	
Weight	Approx.20g(open type)、25g(P type)	

### ◆ Safety Approval

Certified	UL/CUL	TUV
File No.	E188091	

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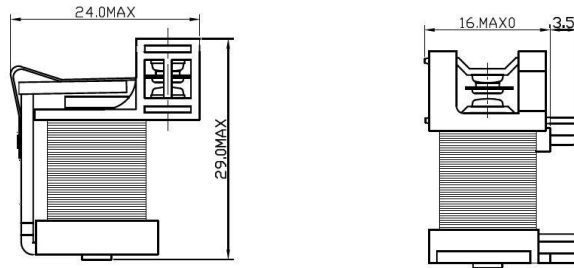
SHORI

## ◆ Safety Approval Rating (UL/CUL)

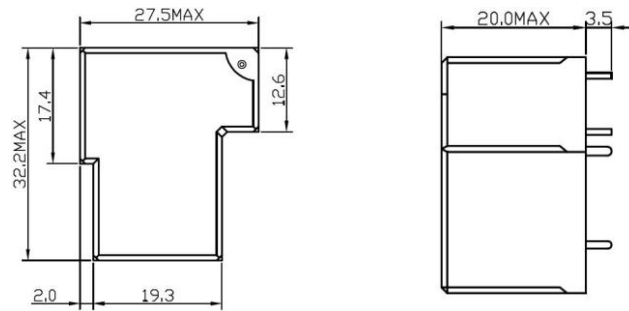
NO	NC
40A 277VAC	30A 277VAC
30A 28VDC	20A 28VDC
2HP 277VAC	2HP 240VAC
1HP 120VAC	1HP 120VAC
1800W 120VAC Tungsten	240W 120VAC Tungsten

## ◆ Outline dimensions

### ➤ S12H(Open t) type



### ➤ S12 (P) type



Dimension:mm

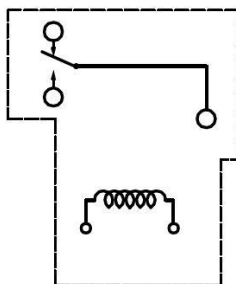
TOLERANCE:

<1mm:±0.2mm

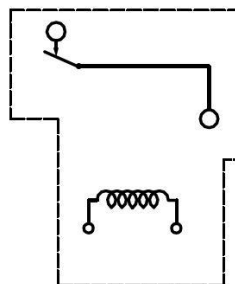
1-5mm:±0.3mm

>5mm :±0.4mm

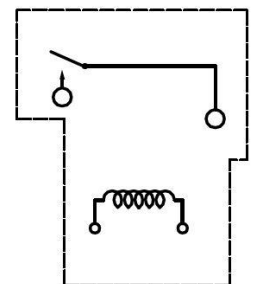
## ◆ Wiring Diagram (BOTTOM VIEW)



1C

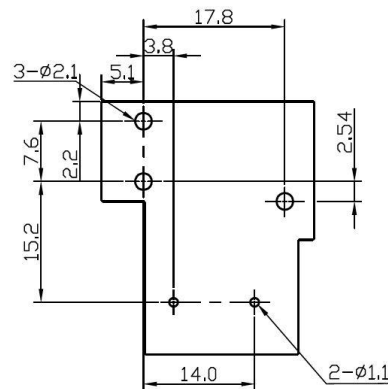


1B



1A

### ◆ PC BOARD LAYOUT (BOTTOM VIEW)



### ◆ Engineering Data

