### **♦** Features

- ➤ Heavy duty 40A general purpose power relays.
- Optional for open frame, dust cover, sealed type and with and without quick terminal on top ,etc.
- ➤ High insulation type Dielectric strength type available.
- ➤ Ideal for HVAC, UPS & power supply, home appliances.





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

## ◆ Contact Rating

L and type	1A	1B	1C	
Load type		115	NO	NC
Designation log d	40A 277VAC	30A 277VAC	40A 277VAC	30A 277VAC
Resistive load	30A 28VDC	20A 28VDC	30A 28VDC	20A 28VDC

## ◆ Type List

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

# S12H RELAY

### SHORI -

# ♦ Ordering information

S12H - P C S - 12 1 2 3 4 5

1. S12H -- Basic series designation

3. A -- Single pole normally open

B -- Single pole normally closed

C -- Single pole double throw

4. S -- Sealed type washable

Blank -- Open type

2. P -- PCB terminal

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)		
Dialoctric strongth	Between open contact : AC 1500V ,50/60Hz 1 min.		
Dielectric strength	Between contact and coil : AC 1500V, 50/60Hz 1 min.		
Vibration resistance	Operating extremes	10~50Hz, amplitude 1.5 mm	
Vibration resistance	Damage limits	10~50Hz, amplitude 1.5 mm	
Shock resistance	Operating extremes	10G	
SHOCK TESISTATICE	Damage limits	100G	
	Mechanical	10,000,000 operations	
I if avmeetanay	Mechanical	(frequency 18,000 operations/hr)	
Life expectancy	Electrical	100,000 operations	
	Eleculcai	(frequency 1,200 operations/hr)	
Operating ambient temperature	-30~+85°C (no freezing)		
Weight	Approx. 25g		

## ◆ Safety Approval

Certified	UL/CUL	TUV
File No.	E188091	

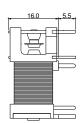
# ◆ Safety Approval Rating (UL/CUL)

PAS	PBS	PCS	
IAS	1 03	NO	NC
40 A 277 VA C	20 A 2773 A C	40A 277VAC	30A 277VAC
40A 277VAC	30A 277VAC 20A 28VDC	30A 28VDC	20A 28VDC
30A 28VDC		2HP 277VAC	2HP 240VAC
2HP 277VAC	2HP 240VAC	1HP 120VAC	1HP 120VAC
	1HP 120VAC 1800W120VAC Tungsten 240W/120VAC Tungsten	1800W120VAC	240W/120VAC
1800W120VAC Tungsten		Tungsten	Tungsten

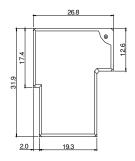
### ◆ Outline dimensions

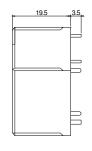
### ➤ S12H Open type



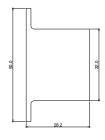


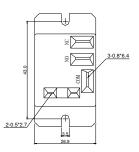
➤ S12H (P) type



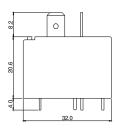


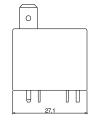
> S12H (F) type





➤ S12H (Q) type





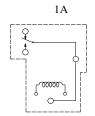


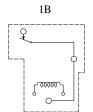
# S12H RELAY

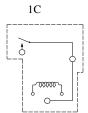
### **SHORI**

# ♦ Wiring Diagram

S12H(P) BOTTOM VIEW

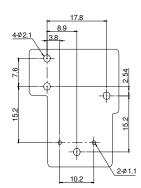




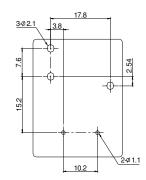


### ◆ PC BOARD LAYOUT

BOTTOM VIEW S12H(P) type



### S12H(Q) type



## ♦ Engineering Data

