

S3 RELAY

SHORI

◆ Features

- Low cost miniature PCB cube relay.
- General purpose application.
- 15A 24VDC, 15A 120VAC ratings.
- SPNO, SPNC, SPDT and sealed flux free & sealed Washable type are available.



◆ Coil Data [at 23°C]

- Standard Type

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
3	25	120	75% of rated voltage	10% of rated voltage	130% Max of Rated voltage	Approx.0.36W
5	70	72				
6	100	60				
9	225	40				
12	400	30				
24	1600	15				
48	6400	7.5				

- High sensitivity Type

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
3	37.5	120	75% of rated voltage	10% of rated voltage	130% Max of Rated voltage	Approx.0.24W
5	104.2	72				
6	150	60				
9	337.5	40				
12	600	30				
24	2400	15				
48	9600	7.5				

◆ Contact Rating

Resistive load	1C:5A 240VAC,10A 24VDC,10A 120VAC,10A 24VDC 1A/1B :15A 120VAC, 15A 24VDC
Max. switching current	10A
Max. switching voltage	240VAC
Max. switching capacity	1200VA

◆ Type List

Terminal style	Contact form	UL Insulation System approval	Designation(provided with)	
			Sealed type	Sealed type washable
PCB terminal	1A (SPNO)	-----	S3-12-A	S3-12-AS
		F	S3-12-A-F	S3-12-AS-F
	1C(SPDT)	-----	S3-12	S3-12-S
		F	S3-12-F	S3-12-S-F

◆ Ordering information

S3 - 12 B - A S - F
1 2 3 4 5 6

1. S3 -- Basic series designation

2. 12 -- Coil Voltage (3V~48V)

3. Power Consumption

B -- High sensitivity Type(0.24W)

Blank --Standard Type(0.36W)

4. A -- 1 Form A, Single pole normally open

B -- 1 Form B, Single pole normally closed

Blank -- 1 Form C, Single pole double throw

5. S -- Sealed type washable

Blank -- Sealed type

6. Insulation standard

F --Class F

Blank --standard type

◆ Specification

Contact material	Ag Alloy	
Contact resistance	100 mΩ Max	
Operate time	10 ms Max	
Release time	5 ms Max	
Insulation resistance	100 MΩ Min. (DC 500V)	
Dielectric strength	Between open contact : AC 500V ,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	100,000 operations (frequency 1,200 operations/hr)
Operating ambient temperature	-30~+55°C(no freezing)	
Weight	Approx.9.5 g	

S3 RELAY

SHORI

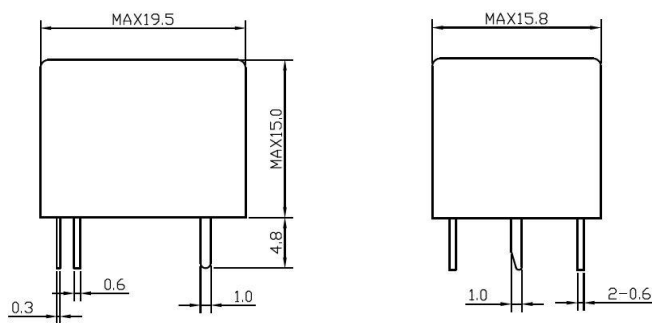
◆ Safety Approval

Certified	UL/CUL	TUV
File No.	E188091	R9754312

◆ Safety Approval Rating

UL/CUL		TUV
1A/1B	15A 120VAC 16A 125VAC(for 1A) 15A 24VDC 5A 125VAC Tungsten(for 1A)	5A 240VAC 10A 24VDC
1C	10A 120VAC 10A 24VDC	

◆ Outline dimensions



Dimention:mm

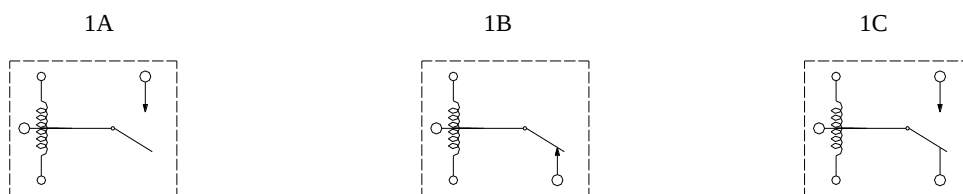
TOLERANCE:

<1mm:±0.2mm

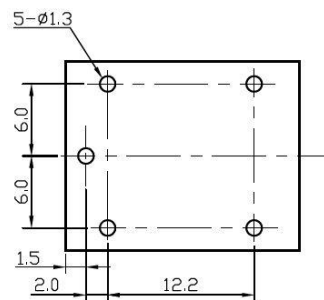
1-5mm:±0.3mm

>5mm :±0.4mm

◆ Wiring Diagram (BOTTOM VIEW)



◆ PC Board Layout (BOTTOM VIEW)



◆ Engineering Data

