S1 RELAY

SHORI

♦ Features

- > S1 Relay Performs high reliability in dry circuit.
- Low current and low profile miniature PCB relay.
- Plastic sealed and flow solder types are available.
- Fine Ag contacts with rating 1A and 3A.
- ➤ UL/CUL approval.

◆ Coil Data [at 23°C]

Standard Type

Rated voltage (V)	Coil Resistance $\pm 10\%$ (Ω)	Rated Current ±10% (mA)	Pick up Voltage (Max)	Drop out Voltage (Min)	Max continuous Voltage	Power consumption At rated Voltage
3	20	150	75% of rated voltage		130% Max of Rated	Approx.0.45W
5	56	90				
6	80	75				
9	180	50				
12	320	37.5			voltage	
24	1280	18.8				
48	5120	9.3				

➤ High sensitivity Type

Rated voltage (V)	Coil Resistance $\pm 10\%$ (Ω)	Rated Current ±10% (mA)	Pick up Voltage (Max)	Drop out Voltage (Min)	Max continuous Voltage	Power consumption At rated Voltage
3	45	66.7				
5	125	40	75% of	5% of	130% Max	
6	180	33.3	rated	rated	of Rated	Approx.0.2W
9	400	22.5	voltage voltage voltage	<i>п</i> рргол.0.2 w		
12	700	17	voltage	voitage	voltage	
24	2800	8.6				

◆ Contact Rating

Resistive load	1A/120VAC, 2A/24VDC
Max. switching current	2A
Max. switching voltage	120VAC
Max. switching capacity	120VA

◆ Type List

	Terminal	Coil Power	UL Insulation	Designation(provided with)		
	style		System approval	Sealed type	Sealed type washable	
	DCD 4 1	Standard		S1-12	S1-12-S	
PCB terminal	High sensitivity	F	S1-12B-F	S1-12B-S-F		

SHORI S1-12 INJERVAC - SALES IA 24VDC COLLIZVDC

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◆ Ordering information

S1 - 12B - S 1 23 4

1. S1 -- Basic series designation

2.12 -- Coil Voltage (3V~48V)

3. Power Consumption

B -- High sensitivity Type(0.2W) Blank -- Standard Type(0.45W) 4. S -- Sealed type washable Blank -- Sealed type

5. 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)		
Dialogania stromath	Between open contact : AC 500V ,50/60Hz 1 min.		
Dielectric strength	100 MΩ Min. (DC 500V) Between open contact : AC 500V ,50/60Hz 1 min. Between contact and coil : AC 1000V, 50/60Hz 1 min. Operating extremes 10~50Hz, amplitude 1.5 mm Damage limits 10~50Hz, amplitude 1.5 mm Operating extremes 10G Damage limits 100G Mechanical 10,000,000 operations	1000V, 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	10~50Hz, amplitude 1.5 mm 10G	
Shock resistance	Damage limits	100G	
	Departing extremes 10G Damage limits 100G 10,000,000 operations		
Life expectancy	Mechanical	(frequency 18,000 operations/hr)	
Life expectancy	Electrical	100,000 operations	
		(frequency 1,800 operations/hr)	
Operating ambient temperature	Standard Type(-25~+55°C),High sensitivity Type(-25~75°C)		
Weight	Approx 3.5 g		

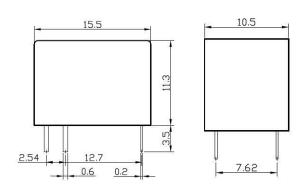
◆ Safety Approval

Certified	UL/CUL
File No.	E188091

♦ Safety Approval Rating

UL/CUL	
1A 120VAC 2A 24VDC	

◆ Outline Dimension

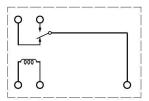


Dimention:mm

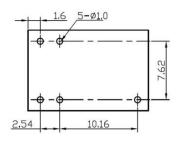
TOLERANCE: <1mm:±0.2mm
1-5mm:±0.3mm 2
>5mm:±0.4mm

SHORI

♦ Wiring Diagram (BOTTOM VIEW)



♦ PC Board Layout(BOTTOM VIEW)



◆ Engineering Data

