

◆ Features

- S2 Relay Performs high reliability in dry circuit.
- Low current and low profile miniature PCB relay.
- Plastic sealed and flow solder types are available.
- Employment of suitable plastic materials is applied Under high temperature condition and various chemical solutions.



◆ Coil Data [at 20°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	5% 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				

- 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	45	66.7	75% of rated voltage	5% of rated voltage	130% Max of Rated voltage	Approx.0.2W
5	125	40				
6	180	33.3				
9	400	22.5				
12	700	17				
24	2800	8.6				

◆ Contact Rating

Resistive load	3A/120VAC, 3A/24VDC
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◆ Type List

Terminal style	Contact form	Type	Designation(provided with)	
			Sealed type	Sealed type washable
PCB terminal	1C(SPDT)	Standard	S2-12	S2-12S
	1C(SPDT)	High sensitivity	S2-12B	S2-12BS

◆ Ordering information

S2 – 12 B S

1 2 3

1. S2 -- Basic series designation

2. 12 -- Coil Voltage (3V~24V)

3. B -- High sensitivity Type

Blank: Standard Type

S -- Sealed type washable

Blank: Sealed 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 500V, 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 1,800 operations/hr)
Operating ambient temperature	Standard Type(-25~+50℃),High sensitivity Type(-25~75℃)	
Weight	Approx 3.5 g	

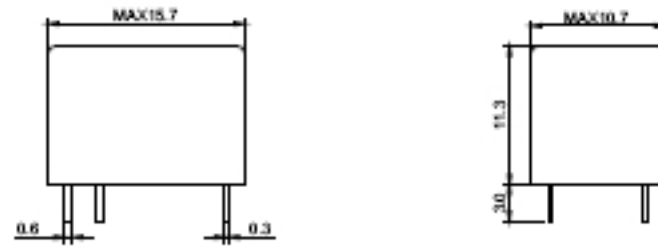
◆ Safety Approval

Certified	UL/CUL
File No.	E188091

◆ Safety Approval Rating

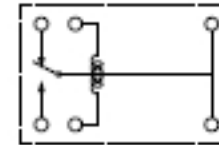
UL/CUL
1A 120VAC 2A 24VDC

◆ Outline Dimension



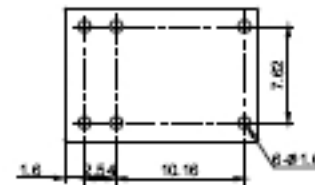
◆ Wiring Diagram

BOTTOM VIEW



◆ PC BOARD LAYOUT

BOTTOM VIEW



◆ Engineering Data

