

### u Features

- ∅ High rating miniature PCB relay.
- ∅ 16A switching capability.
- ∅ Transparent sealed available.
- ∅ SPNO,SPDT configuration.

### u 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
5	34.7	144	80% of rated voltage	5% of rated voltage	130% Max of Rated voltage	Approx.0.72W
6	50	120				
9	112.5	80				
12	200	60				
18	450	40				
24	800	30				
48	3200	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
5	46	108	80% of rated voltage	5% of rated voltage	130% Max of Rated voltage	Approx.0.54W
6	67	90				
9	150	60				
12	270	45				
18	600	30				
24	1060	22.5				
48	4360	11				

### u Contact Rating

Resistive load	16A 250VAC, 16A 30VDC
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### u Type List

Terminal style	Contact form	Type	Designation(provided with)
PCB terminal	1A (SPNO)	Standard	S4E-12V-1A
	1A (SPNO)	High sensitivity	S4E-12B-1A
	1C(SPDT)	Standard	S4E-12V-1C
	1C(SPDT)	High sensitivity	S4E-12B-1C

# S4E RELAY

SHORI

## Ordering information

S4E - 12 B - 1A S  
 1            2            3 4

- 1. S4E -- Basic series designation.
- 2. 12 -- Coil Voltage (5V~48V), Standard Type  
     12B – High sensitivity Type
- 3. 1A -- Single pole normally open  
     1C -- Single pole double throw
- 4. S -- Sealed type washable  
     Blank: Sealed type

## Specification

Contact material	Ag Alloy	
Contact resistance	100 mΩ Max	
Operate time	20 ms Max	
Release time	10 ms Max	
Insulation resistance	100 MΩ Min. (DC 500V)	
Dielectric strength	Between open contact : AC 1000V ,50/60Hz 1 min.	
	Between contact and coil : AC 5000V, 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	-40~+70°C (no freezing)	
Weight	Approx 13 g	

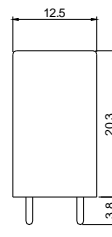
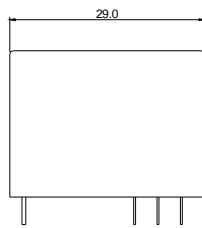
## Safety Approval

Certified	UL/CUL	TUV
File No.	E188091	R 50177786

## Safety Approval Rating

UL/CUL	TUV
16A 250VAC 16A 30VDC	16A 250VAC

### Outline Dimension



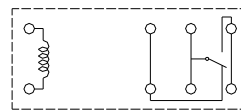
### Wiring Diagram

BOTTOM VIEW

1A

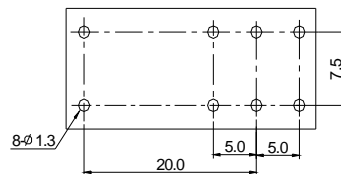
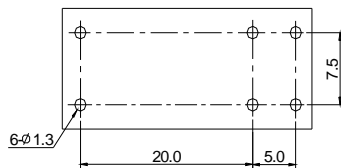


1C



### PC BOARD LAYOUT

BOTTOM VIEW



### Engineering Data

