

S7 RELAY

SHORI

◆ Features

- Small footprint.
- Miniature PCB surge cube relay.
- Reverse contact terminal position version is available.
- SPNO, SPNC, SPDT and Sealed flux free & sealed Washable type are available.



◆ Coil Data [at 23°C]

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	150% 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				

◆ Contact Rating

Resistive load	12A 120VAC, 10A 240VAC, 10A 24VDC
Max. switching current	15A
Max. switching voltage	250VAC
Max. switching capacity	2400VA

◆ Type List

Terminal style	Contact form	UL Insulation System approval	Designation(provided with)	
			Sealed type	Sealed type washable
PCB terminal	1A (SPNO)	-----	S7-12-A	S7-12-AS
		F	S7-12-A-F	S7-12-AS-F
	1B (SPNC)	-----	S7-12-B	S7-12-BS
		F	S7-12-B-F	S7-12-BS-F
	1C (SPDT)	-----	S7-12	S7-12-S-F
		F	S7-12-F	S7-12-S-F

◆ Ordering information

S7 - 12 - A S - F
1 2 3 4 5

1. S7 -- Basic series designation

4. S -- Sealed type washable

Blank -- Sealed type

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

5. Insulation standard

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

F -- Class F

B -- 1 Form B, Single pole normally closed

Blank -- standard type

Blank -- 1 Form C, Single pole double throw

◆ Specification

Contact material	Ag Alloy	
Contact resistance	50 mΩ Max	
Operate time	10ms Max	
Release time	5 ms Max	
Insulation resistance	100 MΩ Min. (DC 500V)	
Dielectric strength	Between open contact : AC 750V ,50/60Hz 1 min.	
	Between contact and coil : AC 1500V, 50/60Hz 1 min.	
Vibration resistance	Operating extremes	10~50Hz, amplitude 1.0 mm
	Damage limits	10~50Hz, amplitude 1.0 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.13g	

◆ Safety Approval

Certified	UL/CUL	TUV
File No.	E188091	R 09854356

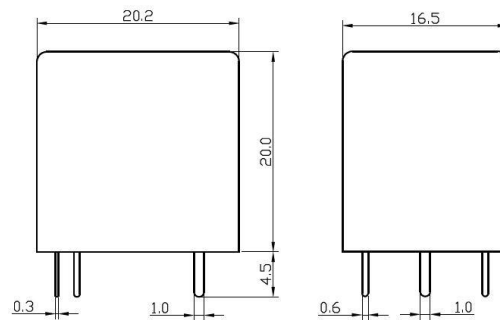
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◆ Safety Approval Rating

UL/CUL		TUV
1A	15A 125VAC TV-5 120VAC TV-8 125VAC 1HP 120VAC 2HP 240VAC	12A 120VAC 10A 240VAC 10A 24VDC
1C	12A 120VAC 10A 240VAC 1/2HP 250VAC	

◆ Outline dimensions



Dimension:mm

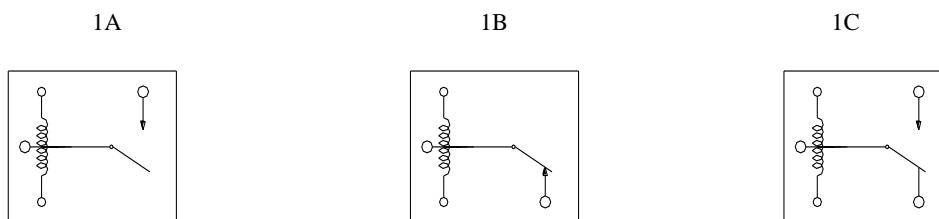
TOLERANCE:

<1mm:±0.2mm

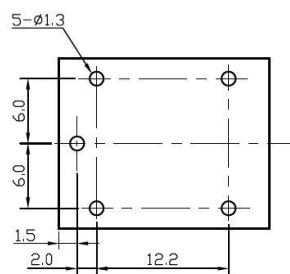
1-5mm:±0.3mm

>5mm :±0.4mm

◆ Wiring Diagram (BOTTOM VIEW)

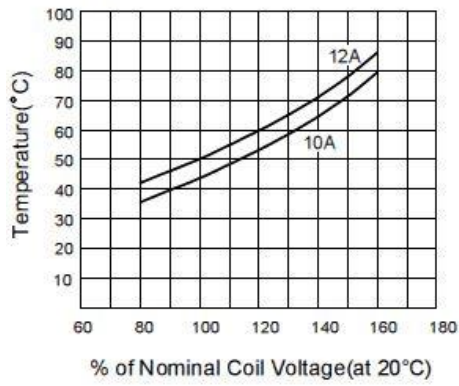


◆ PC BOARD LAYOUT (BOTTOM VIEW)

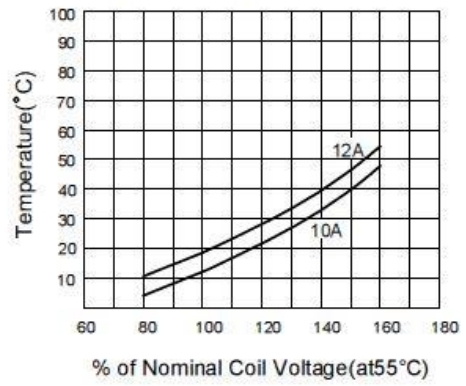


◆ Engineering Data

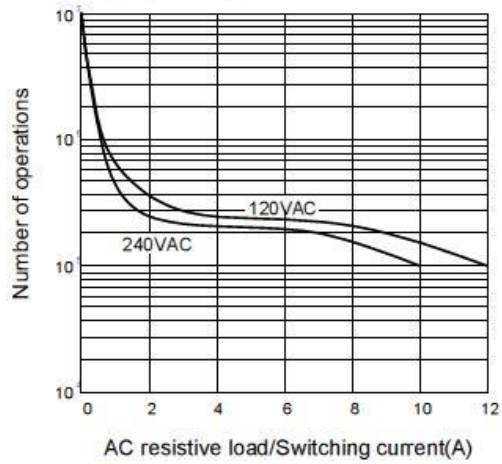
Coil temperature rise



Coil temperature rise



Life expectancy



Operate time/Release time

