

SUBMINIATURE POWER RELAY

SRU-RELAYS



- High contact capacity : 15A
- Sealed types available
- Ultra-miniature size with universal terminal footprint
- Low coil power consumption.
- TV-5 rated types available

SPECIFICATIONS

Contact

Arrangement	1a, 1b, 1c	
Contact material	Silver alloy	
Contact resistance (By voltage drop 1A 6VDC)	50m Ω Max.	
UL/C-UL rating		
Resistance load (cos ϕ =1)	TV-5	120VAC
	15A	120VAC
	12A	120VAC
	10A	240VAC
	10A	24VDC
	7A	250VAC
Inductive load (cos ϕ =0.75~0.8)	4A	120VAC
TUV rating	10A	240VAC
	10A	24VDC
	7A	240VDC
CQC rating	10A	250VAC
Max.switching voltage	250VAC	24VDC
Max.switching current	15A	
Max.switching power	2,400VA	240W
Expected life(min.ope)	Mechanical (at 180 cpm)	1X10 ⁷
	Electrical (at 20 cpm)	1X10 ⁵

Coil

Nominal operating power	0.36W, 0.45W
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Characteristics

Operate time	15 msec.Max.	
Release time	5 msec.Max.	
Operating humidity	45~85%RH	
Initial breakdown voltage	Between contact and coil	1,500VAC (50/60Hz) for 1 min.
	Between open contacts	1,000VAC (50/60Hz) for 1 min.
Insulation resistance	100M Ω Min.(500VDC)	
Ambient temperature	-40 $^{\circ}$ C ~ +85 $^{\circ}$ C	
Temperature rise (Max.)	35 $^{\circ}$ C	
Shock resistance	Functional	10G Min.
	Destructive	100G Min.
Vibration resistance	Functional	10 TO 55 Hz at double Amplitude of 1.5mm
	Destructive	10 TO 55 Hz at double Amplitude of 1.5mm
Unit weight	Approx. 12g	

TYPICAL APPLICATIONS

1. Domestic appliances.
2. Office machines.
- 3.Audio equipment.
- 4.Coffee pots.
- 5.Remote control TV receivers.
- 6.Car control unit,etc.

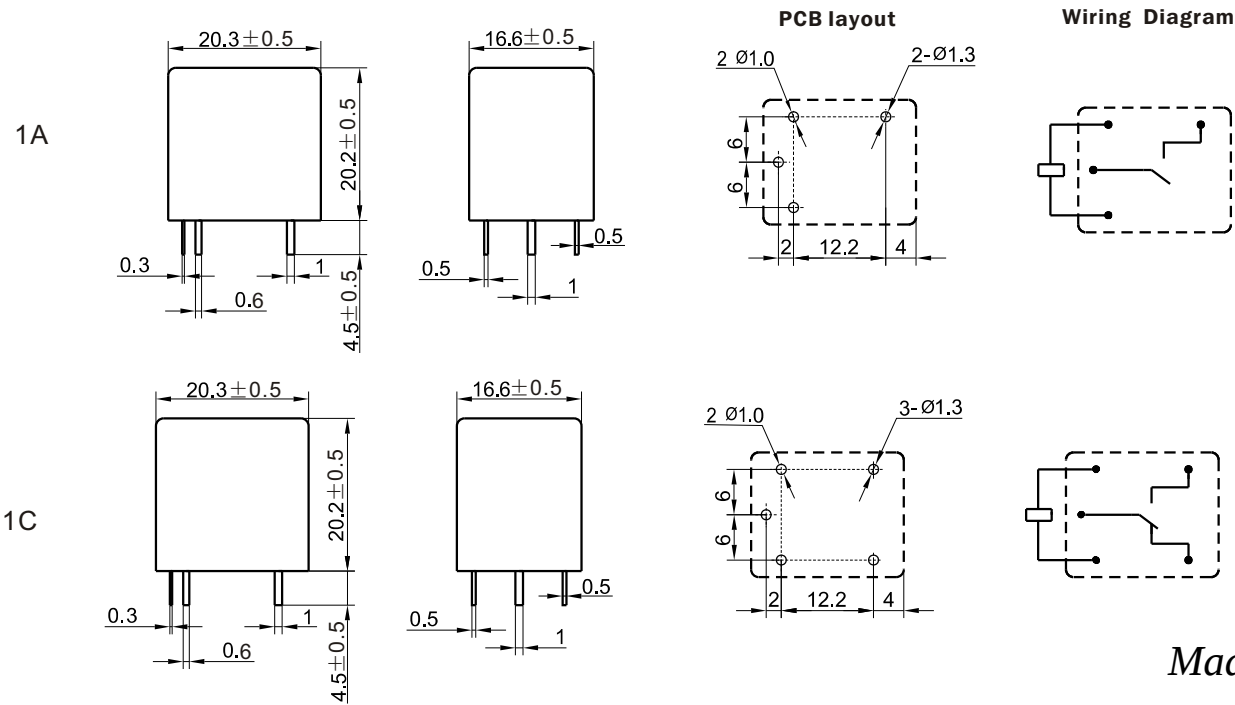
ORDERING INFORMATION

SRU S 1 12 D M					
Type	Protective construction	Number of poles	Coil voltage	Coil sensitivity	Contact form
SRU	NIL:Flux type S:Sealed type	1:1 pole	03,05,06,09, 12,18,24,48	D:0.45W L:0.36W	M:1 Form A B:1 Form B Nil:1 Form C

Voltage code	Nominal voltage (VDC)	Nominal current (mA)	Coil resistance ($\Omega \pm 10\%$)	Drop-out voltage (VDC)	Pick-up voltage (VDC)	Nominal operating power (W)	Max allowable voltage (VDC)
03	3	150.00	20	5%Min.	75%Max.	0.45	130% of nominal voltage
05	5	89.28	56				
06	6	75.00	80				
09	9	50.00	180				
12	12	37.50	320				
18	18	20.00	720				
24	24	18.75	1,280				
48	48	9.38	5,120				

Voltage code	Nominal voltage (VDC)	Nominal current (mA)	Coil resistance ($\Omega \pm 10\%$)	Drop-out voltage (VDC)	Pick-up voltage (VDC)	Nominal operating power (W)	Max allowable voltage (VDC)
03	3	150.00	25	5%Min.	75%Max.	0.36	130% of nominal voltage
05	5	71.42	70				
06	6	75.00	100				
09	9	50.00	225				
12	12	37.50	400				
18	18	20.00	900				
24	24	20.87	1,600				
48	48	9.38	6,400				

OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT(unit:mm)



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