

Subminiature Intermediate Power Relay

Features

- 10A switching capability
- 1 Form A and 1 Form C configurations
- Plastic sealed type
- Subminiature, Standard PCB layout

1. COIL DATA (at 23 ℃)

1) Standard type

1) Standard type						
Nominal	Pick-up	Drop-out	Max Allowable	Coil Current	Coil Resistance	Coil Power
Voltage (VDC)	Voltage (VDC)	Voltage (VDC)	Voltage (VDC)	(mA)(±10%)	(Ω)	(mW)
3	2.25	0.15	3.90	150	20 x (1±10%)	
5	3.75	0.25	6.50	90.0	55 x (1±10%)	
6	4.50	0.30	7.80	75.0	80 x (1±10%)	
9	6.75	0.45	11.7	50.0	180 x (1±10%)	450
12	9.00	0.60	15.6	37.5	320 x (1±10%)	450
18	13.5	0.90	23.4	25.0	720 x (1±10%)	
24	18.0	1.20	31.2	18.8	1280 x (1±10%)	
48	36.0	2.40	62.4	9.40	5120 x (1±10%)	

2) Sensitive type (Only for 1 Form A)

Nominal Voltage (VDC)	Pick-up Voltage (VDC)	Drop-out Voltage (VDC)	Max Allowable Voltage (VDC)	Coil Current (mA)(±10%)	Coil Resistance (Ω)	Coil Power (mW)
3	2.25	0.15	4.50	66.7	45 x (1±10%)	
5	3.75	0.25	7.50	40.0	125 x (1±10%)	
6	4.50	0.30	9.00	33.3	180 x (1±10%)	
9	6.75	0.45	13.5	22.2	400 x (1±10%)	200
12	9.00	0.60	18.0	16.7	720 x (1±10%)	200
18	13.5	0.90	27.0	11.1	1600 x (1±10%)	
24	18.0	1.20	36.0	8.33	2800 x (1±10%)	
48	36.0	2.40	72.0	4.17	11520 x (1±10%)	

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2. CONTACT DATA

Contact Arrangement		1 Forn	1 Form C			
Contact Resistance		100mΩ max. (at 1A 6VDC)				
Contact Material		AgNi				
Contact Ratings		Standard (450mW)	andard (450mW) Sensitive (200mW)			
		SH: 5A 250VAC / 30VDC H: 3A 250VAC / 30VDC		SH: 3A 250VAC		
		SGH: 10A 250VAC / 30VDC	Q: 8A 250VAC	3A 30VDC		
Max. Switching Voltage		250VAC / 30VDC				
Max. Switching Current		10A				
Max. Switching Power		"SGH" type: 2500VA / 300W				
		Others: 1,250VA / 150W				
Life Expectancy	Electrical	100,000 operations				
	Mechanical					

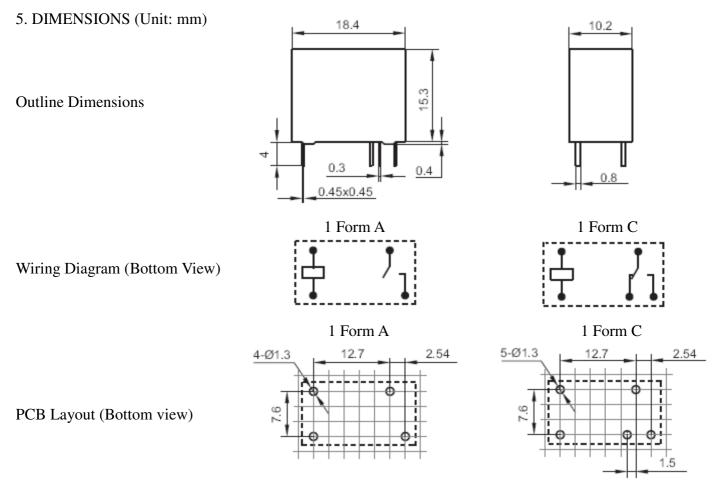
3. CHARACTERISTICS

Insulation Resistance		1000MΩ (at 500VDC)		
Dielectric Strength	Open Contacts	1000VAC 1min		
	Contacts and Coil	2500VAC 1min		
Operate Time (at nominal voltage)		8ms max		
Release Time (at nominal voltage)		5ms max		
Temperature Range	Standard	-40 °C ~ 70 °C		
Shock Resistance	Functional	98 m/s ²		
	Destructive	980 m/s ²		
Vibration Resistance		10 ~ 55Hz, 1.5mm DA		
Humidity		5 ~ 85% RH		
Termination		PCB		
Weight		Approx. 6g		
Outline Dimension (L x W x H)		18.4 x 10.2 x 15.3 mm		



4. ORDERING INFORMATION

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① Relay Model	CS				
2 Contact Arrangement	11: 1 Form A (SPST-NO)				
	1: 1 Form C (SPDT)				
③ Coil Voltage	3=3VDC, 5=5VDC, 6=6VDC, 9=9VDC, 12=12VDC, 18=18VDC,				
	24=24VDC, 48=48VDC				
	SH: 5A 250VAC/30VDC, Coil Power 450mW (only for 1 Form A)				
	3A 250VAC/30VDC, Coil Power 450mW (only for 1 Form C)				
④ Contact Capacity & Coil Power	SGH: 10A 250VAC / 30VDC, Coil Power 450mW (only for 1 Form A)				
	H: 3A 250VAC/30VDC, Coil Power 200mW (only for 1 Form A)				
	Q: 8A 250VAC, Coil Power 200mW (only for 1 Form A)				



Remark: 1) In case of no tolerance shown in outline dimension: outline dimension ≤1mm, tolerance should be ±0.2mm; outline dimension >1mm and ≤5mm, tolerance should be ±0.3mm; outline dimension >5mm, tolerance should be ±0.4mm.

2) The tolerance without indicating for PCB layout is always ±0.1mm.

3) The width of the gridding is 2.54mm.

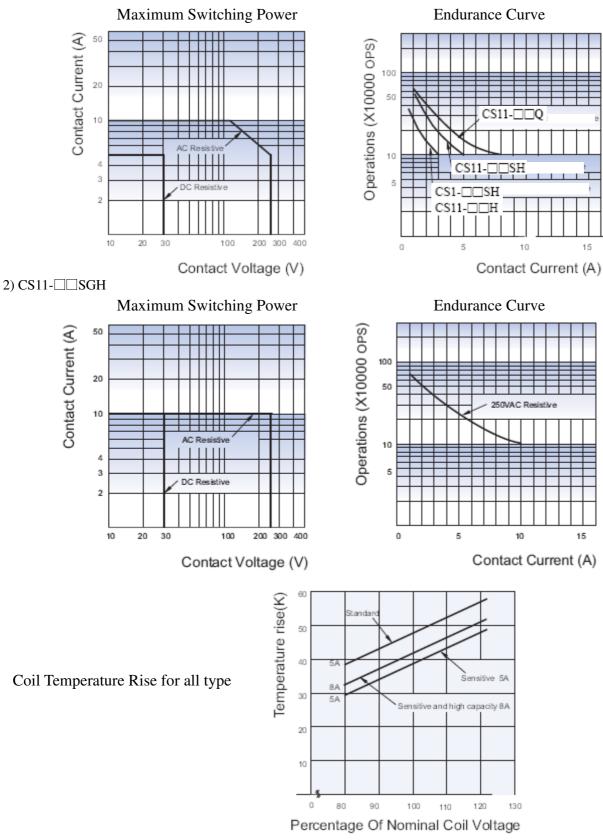
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6. CHARACTERISTIC CURVES

1) CS11-□□SH, CS11-□□H, CS11-□□Q, CS1-□□SH





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