

BS6 POWER RELAY

SUBMINIATURE HIGH POWER RELAY

- ◆ 16A 250VAC、TV-5 switching capability
- ◆ High sensitive, coil power: 0.2W
- ◆ Low height
- ◆ UL insulation grade: Class F



Contact Data

Contact Arrangement	1A
Contact Resistance	100mΩ(1A 6VDC)
Contact Material	AgSnO ₂ , AgCdO, AgNi alloy
Contact Rating	16A 250VAC
Max. Switching Voltage	250VAC
Max. Switching Current	16A
Max. Switching Power	4000VA
Mechanical Endurance	1*10 ⁷ ops
Electrical Endurance	1*10 ⁵ ops(10A 125VAC)

Characteristics

Insulation Resistance	100MΩ(500VDC)	
Dielectric Strength b/w	Coil&Contacts	2500VAC 50/60Hz 1min
	Open Contacts	1000VAC 50/60Hz 1min
Shock Resistance	Functional	98m/s ² (10G)
	Destructive	980m/s ² (100G)
Vibration Resistance	10Hz~55Hz 1.5mm DA	
Humidity	≤85% (at35°C)	
Ambient Temperature	-40°C~85°C	
Termination	PCB	
Unit Weight	Approx. 8g	
Construction	Plastic Sealed, Flux Proofed	

Coil Data

The parameters listed are the initial values measured in the standard state, if the environmental state changes will have an impact on the actual parameters The standard state is: temperature: 23°C±5°C, humidity: 25%-75%

Nominal Voltage (VDC)		Coil Resistance (Ω±10%)	Pick-up Voltage VDC	Drop-out Voltage VDC	Coil Power (W)	Pick-up Time (ms)	Drop-out Time (ms)
Nominal	Max. (at85°C)		Nominal Voltage 75%	Nominal Voltage 10%			
5	7.5	125	3.75	0.50	0.2	≤10	≤5
6	9	180	4.50	0.60			
9	13.5	405	6.75	0.90			
12	18	720	9.00	1.20			
18	27	1620	13.50	1.80			
24	36	2880	18.00	2.40			
48	72	11520	36.00	4.80			

Safety Approval Ratings

CQC	12A/16A 250VAC 12A/16A 30VDC
TUV	12A/16A 250VAC 12A/16A 30VDC
UL	16A 125VAC/277VAC TV-5 125VAC 1/3HP 250VAC

Soldering Conditions

Wave Soldering	260±5°C 3-5s (sec)
Soldering Resistance	Must be free from any abnormality in both the construction and characteristics after the terminals are dipped into solder at 260±5°C for 10 seconds and 350±5°C for 3 seconds and then left in room temperature and humidity for 2

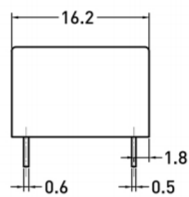
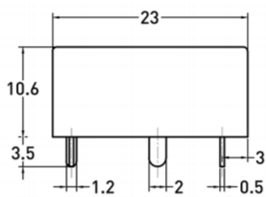
► Ordering Information

	BS6	- 24	- A	SL	T	- P
Type						
Coil Voltage	5, 6, 9, 12, 18, 24, 48 VDC					
Contact Form	A: 1 Form A					
Construction	SL : Plastic Sealed Nil : Flux Proofed					
Contact Material T	AgSnO2					
Load Type	P : High Load Type Nil : Standard Type					

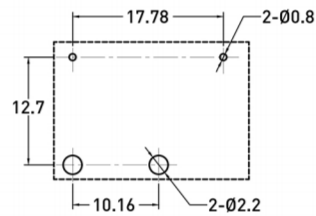
- *1) We suggest to choose plastic sealed types and validate it in real application for an unclean environment (with contaminations like H₂S, SO₂, NO₂, dust, etc), and verified by using it in real situations ;
- 2) Contact is recommended for suitable condition and specifications if water cleaning or surface process is involved in assembling relays on PCB ;
- 3) AgSnO₂ material contacts are recommended for application scenarios where capacitive loads, lamp loads, motor load lamps generate high inrush currents at the moment of relay turn-on ;
- 4) If customers have any special requirements, they need to contact our company for evaluation and then choose the corresponding product type according to the characteristics.

► Outline Dimensions, PCB Layout and Wiring Diagram (Unit : mm)

1 Form A



PCB Layout



Wiring Diagram

