

## Main Feature

1. High switching current 16A in small size.
2. 6mm insulation distance with surge strength 7,000V.
3. Dielectric Strength up to 4,000VAC.
4. TV-8 120VAC certified by UL.
5. Comply with RoHS and REACH regulations

## Contact Rating

Load Type	GSZ (DM)
Rated Load (Resistive)	16A 120VAC
	16A 30VDC
Contact Capacity	TV-8 120VAC
Rated Carrying Current	16A
Max. Allowable Voltage	AC 240V
	DC 100V
Max. Allowable Current	16A
Max. Allowable Power Force	1920VA
	480W
Contact Material	Ag Alloy
Contact Form	SPST

## Application

Cooling Applications, Air Conditioners, Controlling Equipment...etc.

## Performance (at Initial Value)

- Contact Resistance ..... 100mΩMax. @1A,6VDC
- Operate Time..... 20 mSec. Max.
- Release Time ..... 10 mSec. Max.
- Dielectric Strength:
  - Between Coil & Contact..... 4,000VAC at 50/60 Hz for one minute
  - Between Contacts ..... 1,000VAC at 50/60 Hz for one minute
- Surge Strength..... 7,000V (between Coil & Contact 1.2x50μSec.)
- Insulation Resistance ..... 100 MegaΩ Min. at 500VDC
- Max. On/Off Switching:
  - Electrical..... 6 Cycles per Minute
  - Mechanical ..... 300 Cycles per Minute
- Temperature Range..... -25~+55°C
- Humidity Range ..... 45~85% RH.

- Coil Temperature Rise .....55°C Max.
- Vibration:
  - Endurance..... 10 to 55 Hz dual amplitude width 1.5mm
  - Error Operation ..... 10 to 55 Hz dual amplitude width 1.5mm
- Shock:
  - Endurance ..... 1,000 m/S<sup>2</sup>
  - Error Operation ..... 100 m/S<sup>2</sup>
- Life Expectancy:
  - Mechanical ..... 10<sup>7</sup> Operations at No Load condition
  - Electrical ..... 10<sup>5</sup> Operations at Rated Resistive Load
  - 2.5x10<sup>4</sup> Operations at TV Rated Load
- Weight.....About 13.6 g

## Safety Standard & File Number

- UL .....E141060

## Coil Specification (at 20°C)

Coil Sensitivity	Nominal Voltage (VDC)	Nominal Current (mA)	Coil Resistance ( $\Omega \pm 10\%$ )	Power Consumption (W)	Pull-In Voltage (VDC)	Drop-Out Voltage (VDC)	Maximum Allowable Voltage (VDC)
GSZ	3	176.5	17	Abt. 0.54	80% Maximum	5% Minimum	120%
	5	106.4	47				
	6	88	68				
	9	58	155				
	12	44.4	270				
	24	21.8	1,100				
	48	11	4,400				

## Ordering Information

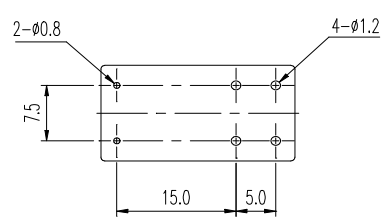
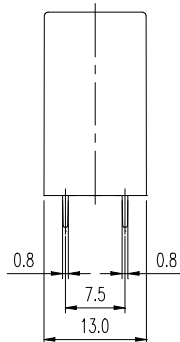
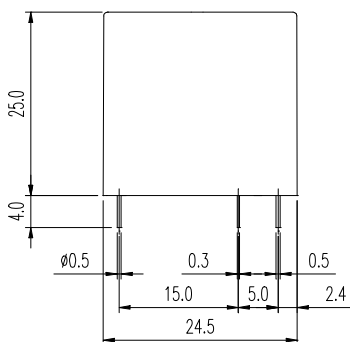
GSZ - SS - 1 12 D M

**Contact Form:** M: One Form A  
**Coil Type:** D: Standard DC Coil  
**Coil Voltage:** 03: 3V, 05: 5V, 06: 6V, 09: 9V, 12: 12V, 24: 24V, 48: 48V  
**Number of Pole:** 1: One Pole  
**Type of Sealing:** SS: RT II Flux Proofed  
 SH: RT III Wash Tight  
**Type:** GSZ

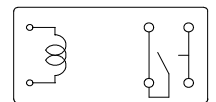
## Classification

Model	GSZ
Contact Form	1A
Flux Proofed	GSZ-SS-1 <input type="checkbox"/> <input type="checkbox"/> DM
Wash Tight	GSZ-SH-1 <input type="checkbox"/> <input type="checkbox"/> DM

Dimension ( $\leq 5\text{mm} \pm 0.2\text{mm}$ ,  $> 5\text{mm} \pm 0.3\text{mm}$ , the tolerance of PCB thru hole:  $+0.1\text{mm}$ )



P.C.B. Layout



BOTTOM VIEW