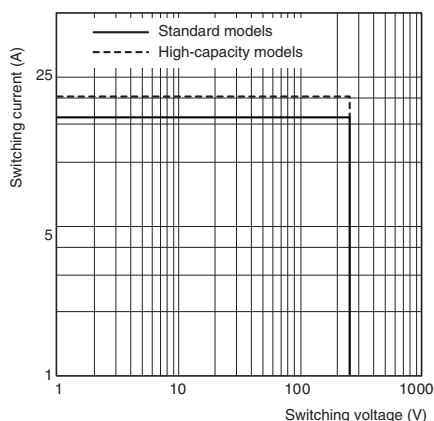
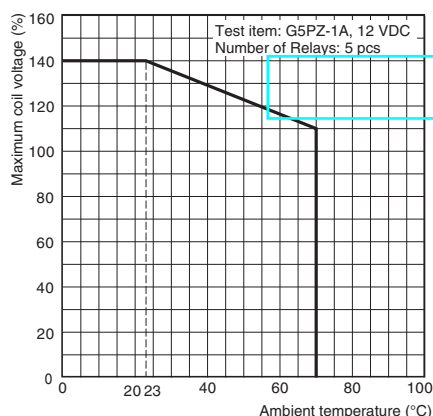


## Engineering Data

### Maximum Switching Capacity

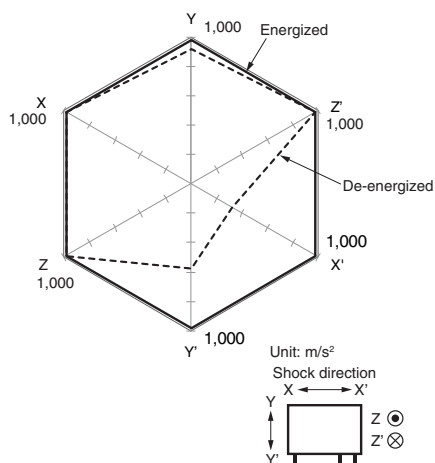


### Ambient Temperature vs. Maximum Coil Voltage



Note. The maximum coil voltage refers to the maximum value in a varying range of operating power voltage, not a continuous voltage.

### Shock malfunction



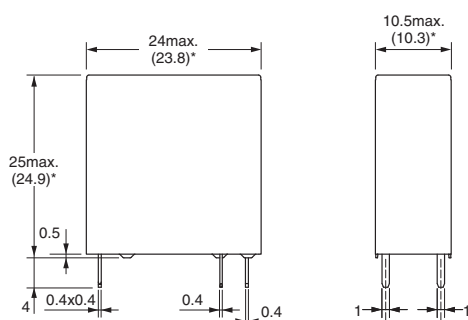
Test Item: G5PZ-1A 12 VDC  
 Number of Relays: 5 pcs  
 Test Method: Shock is applied 3 times in 6 directions along 3 axes and the level at which shock caused malfunction is measured.  
 The energized voltage is 100% of the rated voltage.  
 Rating: 200 m/s<sup>2</sup>

## Dimensions

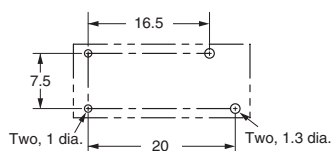
**CAD Data** Please visit our website, which is noted on the last page.

(Unit: mm)

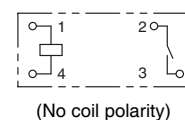
### G5PZ



**PCB Mounting Holes**  
 (Bottom View)  
 Tolerance: ±0.1 mm



**Terminal Arrangement/ Internal Connections**  
 (Bottom View)



\*Average value

**CAD Data**

■Approved Standards

The approval rating values for overseas standards are different from the performance values determined individually. Confirm the values before use.

●UL Recognized:  (File No. E41515)  
CSA Certified:  (File No. LR31928)

| Model     | Contact form | Coil ratings | Contact ratings                | Number of test operations |
|-----------|--------------|--------------|--------------------------------|---------------------------|
| G5PZ-1A   | SPST-NO(1a)  | 5 to 24 VDC  | 16 A, 277 VAC (Resistive) 70°C | 6,000                     |
| G5PZ-1A-E |              |              | 20 A, 277 VAC (Resistive) 70°C | 50,000                    |

●EN/IEC, VDE Certified:  (Certificate No. 40042966)

| Model   | Contact form | Coil ratings  | Contact ratings                 | Number of test operations |
|---------|--------------|---------------|---------------------------------|---------------------------|
| G5PZ-1A | SPST-NO(1a)  | 5, 12, 24 VDC | 16 A, 250 V AC (Resistive) 70°C | 6,000                     |

●EN/IEC, TÜV Certified:  (Certificate No. R50408241)

| Model     | Contact form | Coil ratings  | Contact ratings             | Number of test operations |
|-----------|--------------|---------------|-----------------------------|---------------------------|
| G5PZ-1A-E | SPST-NO(1a)  | 5, 12, 24 VDC | 20 A, 250 VAC (cosφ=1) 70°C | 50,000                    |

●CQC Certified:  (Certificate No. CQC15002133270)

| Model     | Contact form | Coil ratings  | Contact ratings             | Number of test operations |
|-----------|--------------|---------------|-----------------------------|---------------------------|
| G5PZ-1A   | SPST-NO(1a)  | 5, 12, 24 VDC | 16 A, 250 VAC (cosφ=1) 70°C | 6,000                     |
| G5PZ-1A-E |              |               | 20 A, 250 VAC (cosφ=1) 70°C | 50,000                    |

|                                                                 |                                                                                    |
|-----------------------------------------------------------------|------------------------------------------------------------------------------------|
| Creepage distance                                               | 9.5 mm min.                                                                        |
| Clearance distance                                              | 6.4 mm min.                                                                        |
| Insulation material group                                       | III a                                                                              |
| Type of insulation coil-contact circuit<br>open contact circuit | Reinforced (Standerd : Pollution degree 2)<br>(High-capacity : Pollution degree 3) |
| Type of disconnection open contact circuit                      | Micro disconnection                                                                |
| Rated Insulation voltage                                        | 250 VAC                                                                            |
| Pollution degree                                                | 2                                                                                  |
| Rated voltage system                                            | 250 V                                                                              |
| Over voltage category                                           | III                                                                                |
| Category of protection according to IEC 61810-1                 | RT II                                                                              |
| Tracking resistance according to IEC 60112                      | PTI 250 V min. (housing parts)                                                     |
| Flammability class according to UL94                            | V-0                                                                                |