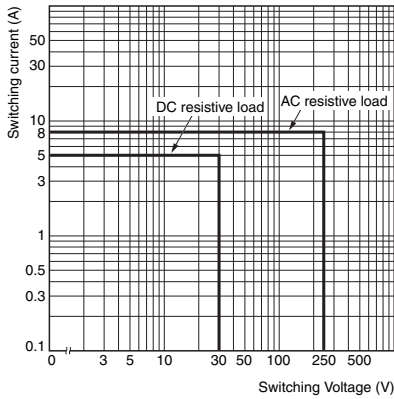


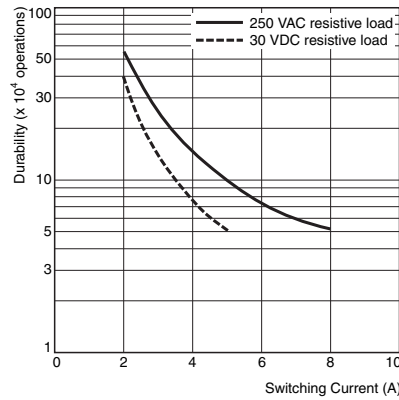


## Engineering Data

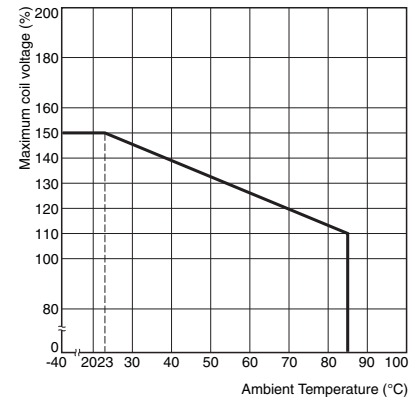
### Maximum Switching Capacity



### Durability

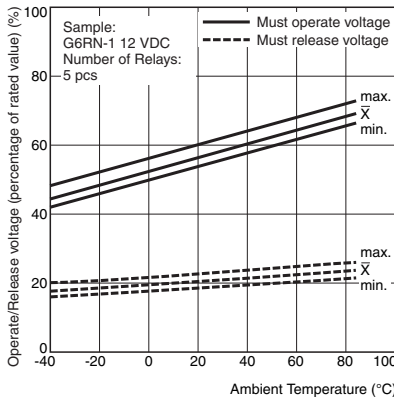


### Ambient Temperature vs. Maximum Coil Voltage

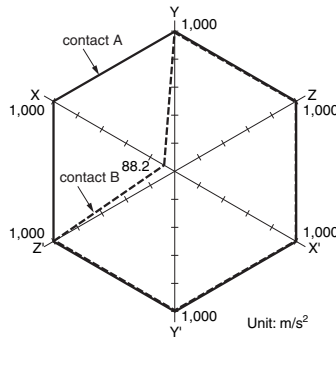


Note. The maximum coil voltage refers to the maximum value in a varying range of operating power voltage, not a continuous voltage.

### Ambient Temperature vs. Maximum Coil Voltage



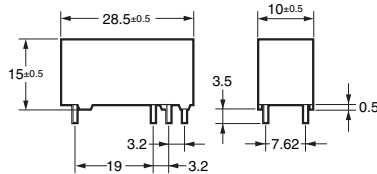
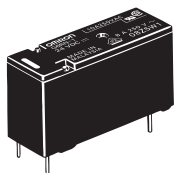
### Shock Malfunction G6RN-1



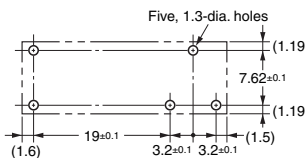
Sample: G6RN-1 24 VDC  
 Number of Relays: 5 pcs  
 Test conditions: The value at which malfunction occurred was measured after applying shock to the test piece 3 times each in 6 directions along 3 axes.  
 Standard value: 100 $\text{m/s}^2$  at contact A, 50 $\text{m/s}^2$  at contact B

## Dimensions

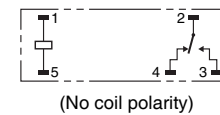
### G6RN-1



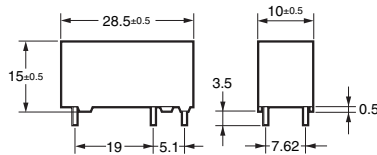
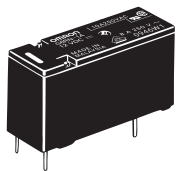
### PCB Mounting Holes (Bottom View)



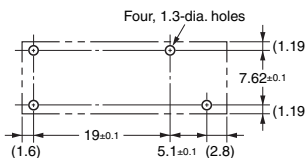
### Terminal Arrangement/ Internal Connections (Bottom View)



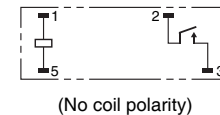
### G6RN-1A



### PCB Mounting Holes (Bottom View)



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



## Approved Standards

●The rated values approved by each of the safety standards may be different from the performance characteristics individually defined in this catalog.

**UL Recognized**  (File No. E41515)

**CSA Certified**  (File No. 31928)

Model	Number of poles	Coil ratings	Contact ratings	Number of test operations
G6RN-1	1	5 to 24 VDC	8 A, 250 VAC 85°C 8 A, 30 VDC 85°C	6,000

**ENTÜV Certified**  (Certificate No. 6135)

Model	Number of poles	Coil ratings	Contact ratings	Approved switching operations
G6RN-1 G6RN-1A	1	5, 6, 12, 24 VDC	8 A, 250 VAC (Resistive) 85°C	10,000

Creepage distance	8 mm
Clearance distance	8 mm
Insulation material group	IIIa
Rated Insulation voltage	250 V
Pollution degree	2
Rated voltage system	250 V
Overvoltage category	III
Tracking Index of relay base	PTI 250 V min. (housing parts)
Flammability class according to UL94	V-0
Ball pressure test (IEC 60695-10-2)	160°C

## Precautions

●Please refer to “PCB Relays Common Precautions” for correct use.

• Application examples provided in this document are for reference only. In actual applications, confirm equipment functions and safety before using the product.  
 • Consult your OMRON representative before using the product under conditions which are not described in the manual or applying the product to nuclear control systems, railroad systems, aviation systems, vehicles, combustion systems, medical equipment, amusement machines, safety equipment, and other systems or equipment that may have a serious influence on lives and property if used improperly. Make sure that the ratings and performance characteristics of the product provide a margin of safety for the system or equipment, and be sure to provide the system or equipment with double safety mechanisms.

**Note: Do not use this document to operate the Unit.**

**OMRON Corporation**

Electronic and Mechanical Components Company

Contact: [www.omron.com/ecb](http://www.omron.com/ecb)

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