

Specifications

■ Coil Ratings

General-purpose Type

Rated voltage		3 VDC	4.5 VDC	5 VDC	6 VDC	9 VDC	12 VDC	24 VDC	48 VDC
Rated current		120 mA	80 mA	72 mA	60 mA	40 mA	30 mA	15 mA	7.5 mA
Coil resistance		25 Ω	56 Ω	69 Ω	100 Ω	225 Ω	400 Ω	1,600 Ω	6,400 Ω
Coil inductance (H) (ref. value)	Armature OFF	0.058	0.14	0.18	0.26	0.61	1.15	5.0	22
	Armature ON	0.068	0.16	0.195	0.28	0.64	1.15	4.5	18
Must operate voltage	75% max. of rated voltage								
Must release voltage	10% min. of rated voltage								
Max. voltage	130% of rated voltage at 23°C, 115% at 70°C								
Power consumption	Approx. 360 mW								

High-sensitivity Type

Rated voltage		3 VDC	4.5 VDC	5 VDC	6 VDC	9 VDC	12 VDC	24 VDC	48 VDC
Rated current		50 mA	33 mA	30 mA	25 mA	16.7 mA	12.5 mA	6.63 mA	3.3 mA
Coil resistance		60 Ω	135 Ω	167 Ω	240 Ω	540 Ω	960 Ω	3,840 Ω	14,400 Ω
Coil inductance (H) (ref. value)	Armature OFF	0.165	0.35	0.44	0.64	1.55	2.95	10.27	53
	Armature ON	0.286	0.64	0.82	1.15	2.6	4.8	19	75
Must operate voltage	75% max. of rated voltage								
Must release voltage	10% min. of rated voltage								
Max. voltage	200% of rated voltage at 23°C, 150% at 70°C								
Power consumption	Approx. 150 mW								

- Note: 1. The rated current and coil resistance are measured at a coil temperature of 23°C with a tolerance of ±10%.
2. Operating characteristics are measured at a coil temperature of 23°C.

■ Contact Ratings

Item	Single crossbar		Bifurcated crossbar	
	Resistive load (cosφ = 1)	Inductive load (cosφ = 0.4; L/R = 7 ms)	Resistive load (cosφ = 1)	Inductive load (cosφ = 0.4; L/R = 7 ms)
Rated load	0.3 A at 110 VAC; 1 A at 24 VDC	0.2 A at 110 VAC; 0.3 A at 24 VDC	0.3 A at 110 VAC; 1 A at 24 VDC	0.2 A at 110 VAC; 0.3 A at 24 VDC
Contact material	AgPd (Au-clad)			
Rated carry current	2 A			
Max. switching voltage	125 VAC, 125 VDC			
Max. switching current	2 A			
Max. switching capacity	60 VA, 30 W	22 VA, 10 W	60 VA, 30 W	22 VA, 10 W
Min. permissible load	1 mA at 1 VDC (10 μA at 10 mVDC)		10 μA at 100 mVDC (10 μA at 10 mVDC)	

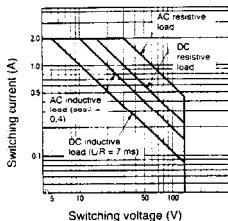
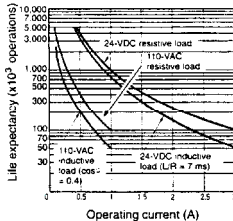
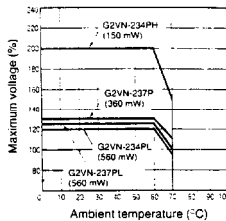
Note: P level: $\lambda_{60} = 0.1 \times 10^{-6}$ /operation

VDE D435 T201/5.83 = IEC255-1-00

Note: Spacing VDE0110 B/30
Class I equipment use

Model	Contact form	Coil ratings	Contact ratings
G2VN-234P-US	DPDT	5, 12, 24 V ⁻	2 A, 30 V [~] (cosφ = 1) 0.5 A, 30 V [~] (cosφ = 0.4) 0.83 A, 36 V ⁻ (0 m sec) 0.1 A, 36 V ⁻ (40 m sec)

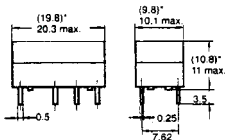
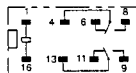
Engineering Data

Max. Switching Capacity
G2VN-237P, G2VN-287PLife Expectancy
G2VN-237P, G2VN-287PAmbient Temperature vs.
Maximum Voltage

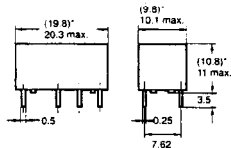
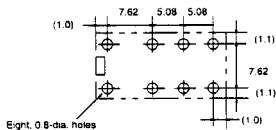
Dimensions

- Note: 1. All units are in millimeters unless otherwise indicated.
2. Orientation marks are indicated as follows:

Flux-tight

Terminal Arrangement/
Internal Connections
(Bottom View)

Plastic-sealed

Mounting Holes
(Bottom View)
Tolerance: ±0.1

*Average value