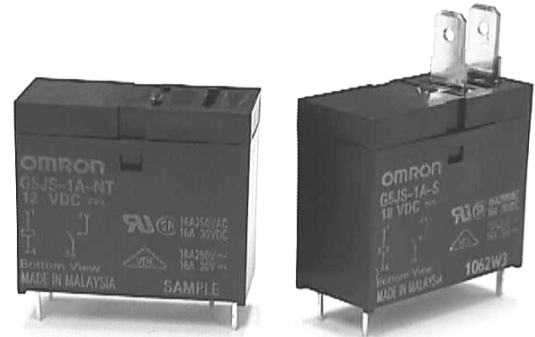


PCB Relay

G5JS

Ideal for Microwave Oven Magnetrons and Heater Switching

- Clearance/Creepage distance of 8mm min.
Confirmed to VDE0700
- High Impulse Withstand Voltage .(10kV)
High Dielectric Strength (5kV)
- Approved by UL,CSA and VDE
- Environment Friendly Contact Material.
- Quick-Connect Terminal (#187) and
PCB terminal available



Ordering Information

Enclosing rating	Contact Foam	Model
Unsealed	SPDT-NO	G5JS-1A

Note: When ordering, add the rated coil voltage to the model number.

Examples : G5JS-1A 12 VDC

Rated coil voltage

Model Number Legend

G5JS - -

1 2 3

1. Number of Poles

1A: 1pole (SPST-NO contact)

2. Terminals

None: Relays with #187, Tab and PCB

NT: Relays without #187, Tab

3. Rated Coil Voltage

12, 18, 24 VDC

Specifications

Coil Ratings

Rated voltage	12 VDC	18 VDC	24 VDC
Rated current	44.2 mA	29.4 mA	22.1 mA
Coil resistance	271.7 Ω	611.3 Ω	1086.8 Ω
Must operate voltage	70% max. of rated voltage		
Must release voltage	5% min. of rated voltage		
Max. voltage	110% of rated voltage		
Power consumption	Approx. 530 mW		

Contact Ratings

Rated load	16 A at 250 VAC (cosØ = 1)
Rated carry current	16 A
Max. switching voltage	250 VAC

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

2. --- indicates DC (IEC 417 publications).

■ Characteristics

Contact Resistance	100m Ω max.
Operation time	15ms max.
Release time	5 ms max.
Insulation resistance	1,000 MΩ min. (at 500 VDC)
Dielectric strength	5,000 VAC between coil and contacts (1 min.) 1,000 VAC between contact to contact (1 min.)
Impulse withstand voltage	10 kV (1.2 x 50 μs) between coil and contacts
Vibration resistance	Destruction : 10 to 55 to 10 Hz, 1.5 mm double amplitude Malfunction : 10 to 55 to 10 Hz, 1.5 mm double amplitude
Shock resistance	Destruction : 1,000 m/s ² Malfunction : 150 m/s ²
Life expectancy	Mechanical : 2,000,000 operations (18,000 operations/hr) Electrical : 100,000 operations min (1,800 operations/hr)
Ambient temperature	Operating : -40°C to 85°C (with no icing)
Ambient humidity	35% to 85%
Weight	Approx. 17g

Note : Values in the above table are the initial value.

■ Approved by Standards

UL508 (File No. E41643) & CSA C22.2 No. 14 (File No. LR31928)

Coil Rating	Contact ratings
12 to 24 VDC	16 A 250 VAC 16 A 30 VDC

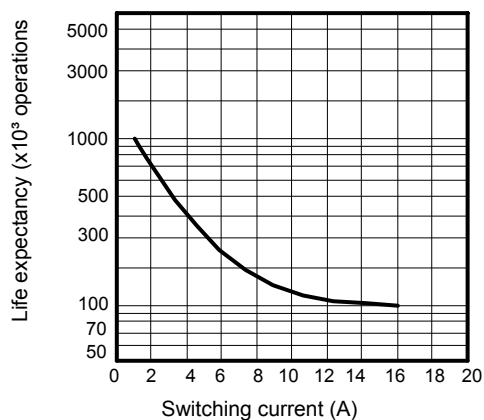
VDE0435 (EN60255, EN61810), VDE0700 (EN60335)

Coil Rating	Contact ratings	Approved conditions
12, 18, 24 V \equiv	16 A at 250V \sim ($\cos\phi = 1$) 16 A at 30V \equiv (0 ms)	Operation range : class 1 Pick-up class : class B Pollution degree : 2 Overvoltage category : III Material group : IIIa Ambient temperature : -40°C to 85 °C

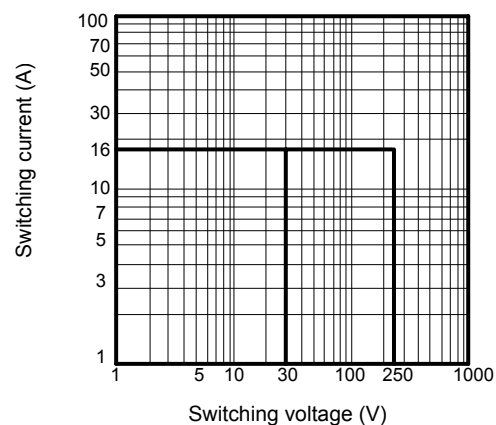
Note: \sim indicates AC and \equiv indicates DC (IE417 publications)

Engineering Data

Life Expectancy



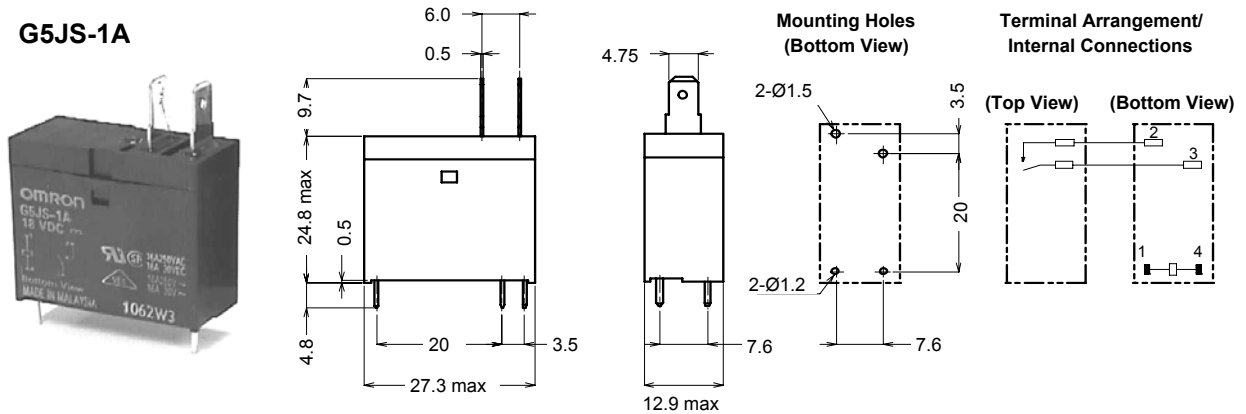
Max. Switching Capacity



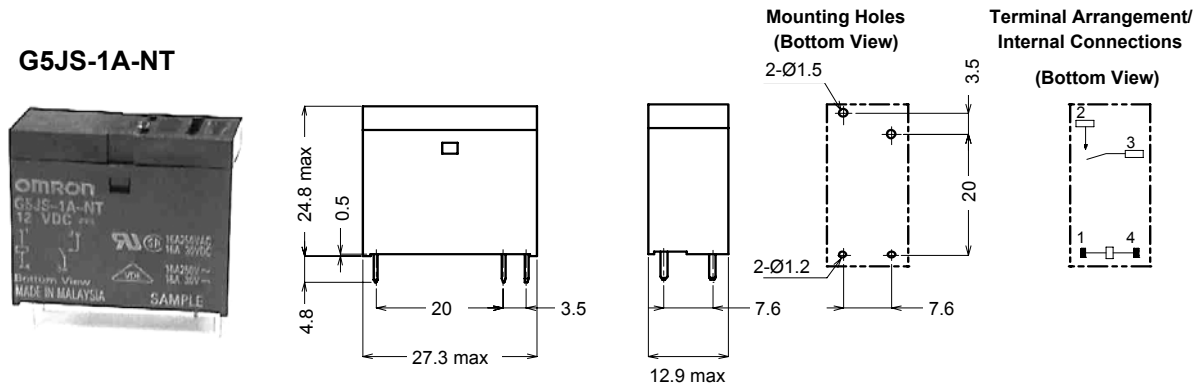
Note: All units are in millimeters unless otherwise indicated

Dimensions

G5JS-1A



G5JS-1A-NT



ALL DIMENSIONS SHOWN ARE IN MILLIMETERS

To convert millimeters into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527.