

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
$$- \frac{\Box}{1} - \frac{\Box}{2} \frac{\Box}{3}$$

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 volt	age	
Must release voltage	5% min. of rated voltage	ge	
Max. voltage	110% of rated 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.)	
Impluse 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)

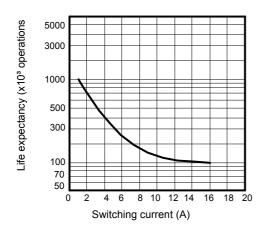
Coil Rating	Contact ratings	
12 to 24 VDC	16 A 250 VAC	
	16 A 30 VDC	

VDE0435 (EN60255, EN61810), VDE0700 (EN60335)

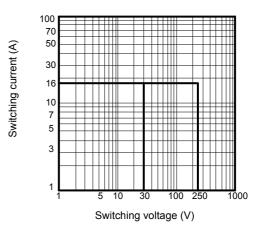
Coil Rating	Contact ratings	Approved conditions
12, 18, 24 V ===	16 A at 250V (cosØ = 1)	Operation range : class 1
	16 A at 30V === (0 ms)	Pick-up class : class B
		Pollution degree : 2
		Overvoltage category : III
		Material group : Illa
		Ambient temperature : -40°C to 85 °C

Engineering Data

Life Expectancy



Max. Switching Capacity

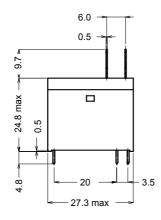


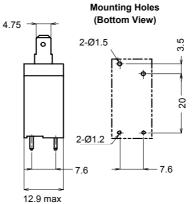
Note: All units are in millimeters unless otherwise indicated

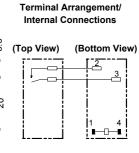
Dimensions

G5JS-1A









G5JS-1A-NT



