

Main Feature



1. Slim size (20.4 x 7.0 x 15.0mm).
2. Only 7mm wide.
3. Sensitive coil 200 mW.
4. 5A 277VAC suitable for PLC and heating element controls.
5. 8 mm creepage / clearance.
6. Halogen Free series is available.



Contact Rating

Load Type	GCJ (DM)
Rated Load (Resistive)	5A 277VAC
	5A 30VDC
Contact Capacity	1/8HP 250VAC
Rated Carrying Current	5A
Max. Allowable Voltage	AC 400V
	DC 30V
Max. Allowable Current	5A
Max. Allowable Power Force	1385VA
	150W
Contact Material	Ag Alloy
Contact Form	SPST

Application

Home Appliance, General Control.

Performance (at Initial Value)

- Contact Resistance 100mΩ Max.@1A,6VDC
- Operate Time..... 10 mSec. Max.
- Release Time 4 mSec. Max.
- Dielectric Strength:
 - Between Coil & Contact.....4,000VAC at 50/60 Hz for one minute
 - Between Contacts..... 1,250VAC at 50/60 Hz for one minute
- Surge Resistance 7,000V (between coil & Contact 1.2 / 50μSec.)
- Insulation Resistance 1,000 MegaΩ Min. at 500VDC.
- Max. On/Off Switching:
 - Electrical 20 Cycles per Minute.
 - Mechanical 300 Cycles per Minute.
- Temperature Range..... -30~85°C

- Humidity Range 20~85% RH.
- Temperature Range..... 45°C Max
- Vibration :
 - Endurance 10 to 55 Hz dual Amplitude width 1.5mm
 - Error Operation..... 10 to 55 Hz dual Amplitude width 1.5mm
- Shock:
 - Endurance..... 1,000 m/S²
 - Error Operation 100 m/S²
- Life Expectancy :
 - Mechanical..... 5x10⁷ Operations at No Load condition.
 - Electrical..... 10⁵ Operations at Rated Resistive Load.
- Contact Material Ag Alloy.
- Weight About 4 g.

Safety Standard & Its File Number

- UL & C-UL.....E141060
- VDE.....40026954

Coil Specification (at 20 °C)

Coil Sensitivity	Nominal Voltage (VDC)	Nominal Current (mA)	Coil Resistance ($\Omega \pm 10\%$)	Power Consumption (W)	Pull-In Voltage (VDC)	Drop-Out Voltage (VDC)	Maximum Allowable Voltage (VDC)
GCJ	3	66.7	45	Abt. 0.2	75% Maximum	5% Minimum	130%
	5	40	125				
	6	33.3	180				
	9	22.5	405				
	12	16.7	720				
	15	13.3	1125				
	18	11.1	1620				
	24	8.6	2880				

Ordering Information

GCJ - SH - 1 12 D M - N F	Insulation System:	Nil : Standard F : F Class
	Contact Material:	Nil : AgNi N : AgSnO2 S : AgSnO2 Gilded
	Contact Form:	M : One Form A
	Coil Type:	D : Standard DC Coil
	Coil Voltage:	03: 3V, 05: 5V, 06: 6V, 09: 9V, 12: 12V, 15: 15V, 18: 18V, 24: 24V
	Number of Pole:	1: One Pole
	Type of Sealing:	SS: RT II Flux Proofed Relays SH: RT III Wash Tight Relays
	Type:	GCJ

Classification

Model	GCJ
Coil Type	Standard DC Coil
Contact Form	1A
Flux Proofed Relays	GCJ-SS-1□□DM
Wash Tight Relays	GCJ-SH-1□□DM

Dimension ($\leq 5\text{mm} \pm 0.2\text{mm}$, $> 5\text{mm} \pm 0.3\text{mm}$, the tolerance of PCB thru hole: $+0.1\text{mm}$)

