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Please note that the number of variants of Goodsky relay part numbers means that it is not possible to maintain stock of every one. If you are researching to replace just one relay on a component, say as a spare part for domestic equipment, you may need to contact the manufacturer of that equipment. Stock of Goodsky relays is maintained in the UK for those exact parts where there is a continuous demand within the UK.

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### Important Note

The information shown in these documents is for guidance only. No liability is accepted for any errors or omissions. The designer or user is solely responsible for the safe and proper application of the parts, assemblies or equipment described.

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# ***G CJ SERIES***

## **For Home Appliance**

**Application :** Control Board on Washing Machine /  
Air-Conditioner / Refrigerator; PLC; etc.

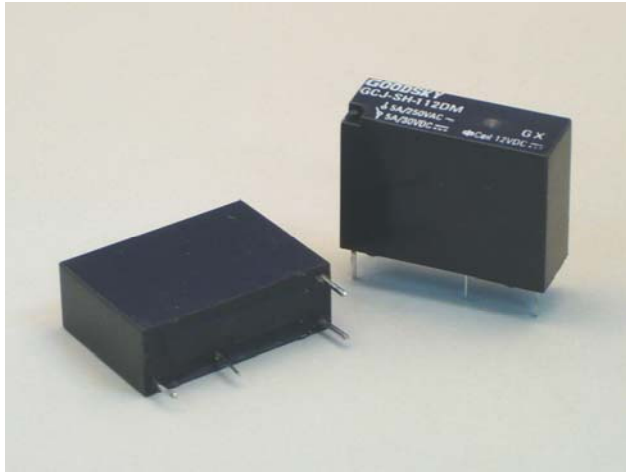
**Features :** ◆ 8mm Creepage / Clearance  
◆ Width = 7mm  
◆ 5A, 250VAC

**Safety Standard :** VDE, C-UL  
(Certification in Progress)

**RoHS Compliant**

# GCJ性能比較表 (Performance Comparison List)

品牌 Supplier		GOODSKY	HONGFA	OMRON	SONG CHUAN	NAIS	TYCO	
型號 Item		GCJ	JZC-43F	G5NB-1A	202	ALD	PCJ	
Coil Type		DVC	DCV	DCV	DCV	DCV	DCV	
接點部 Contact Specs	開關型式 Contact Configuration	1a	1H	1a	1a	1a	1a	
	接點材質 Contact Material	AgSnO <sub>2</sub> / AgNi	AgCdO / AgSnO <sub>2</sub> / AgNi	Ag Alloy	AgNi / AgSnO alloy	Silver alloy	AgNi	
	接點規格 Contact Rating	5A / 250VAC 5A / 30VDC	3A / 250VAC 3A / 30VDC 5A / 250VAC	3A / 125VAC 3A / 30VDC 5A / 250VDC 5A / 30DC	3A / 240VAC 5A / 240VAC 5A / 30VDC 7A / 240VAC 7A / 30VDC	3A / 277VAC 3A / 30VDC	3A / 250VAC 3A / 30VDC 5A / 250VAC 5A / 30VDC	
	最大流通電流 Max. Allowable Current	5A	3A / 5A	3A / 5A	3A / 5A / 7A	3A	3A / 5A	
	最大承受電壓 Max. Allowable Voltage	400VAC 30 VDC	277VAC 30VDC	250VAC 30VDC	277VAC 30VDC	277VAC 30VDC	400VAC 30VDC	
線圈部 Coil Specs	額定電壓 Nominal Voltage	3, 5, 6, 9, 12, 18, 24VDC	4.5, 5, 6, 9, 12, 18, 24VDC	5, 12, 18, 24VDC	5, 6, 9, 12, 18, 24VDC	4.5, 5, 6, 9, 12, 18, 24VDC	5, 6, 9, 12, 18, 24VDC	
	動作電壓 Pull-In Voltage %	75%	75%	75%	75%	75%	75%	
	開放電壓 Drop-Out Voltage %	5%	5%	10%	5%	5%	5%	
	額定消耗功率 Power Consumption	0.2W	0.2W	0.2W	Standand 0.36W High Sensivity 0.2W	0.2W	0.2W	
	最大承受電壓 Max. Allowable Voltage	130%	130%	180%	Standand: 160% High Sensivity: 170%	130%	130%	
性能 Performance	接點阻抗 Contact Resistance	100mΩ	100mΩ	100mΩ	100mΩ	100mΩ	100mΩ	
	動作時間 Operate Time	10ms	10ms	10ms	10ms	10ms	10ms	
	開放時間 Release Time	4ms	10ms	10ms	10mS	10ms	4ms	
	最大開閉頻率 Max. On/Off Switching:	機械 Mechanical	300 / Min			18,000 / hr		300 / Min
		電氣 Electrical	20 / Min		1,800 / h	900 / hr		20 / Min
	耐電壓 (AC) Dielectric Strength	I/O	4000VAC	4000VAC	4000VAC	4000VAC	4000VAC	4000VAC
		O/O	750VAC	750VAC	750VAC	750VAC	750VAC	750VAC
	振動 Vibration	耐久 Endurance	10~55Hz 1.5mm	10~55Hz 1.5mm	10~55Hz 1.5mm	10~55Hz 1.5mm	10~55Hz 1.5mm	10~55Hz 1.5mm
		誤動作 Error Operation	100m/S <sup>2</sup>	10~55Hz 1.5mm	10~55Hz 1.5mm	10~55Hz 1.5mm	10~55Hz 1.5mm	10~55Hz 1.5mm
	壽命 Life Expectancy	機械 Mechanical	5x10 <sup>6</sup>	1x10 <sup>7</sup>	5x10 <sup>6</sup>	5x10 <sup>6</sup>	5x10 <sup>6</sup>	5x10 <sup>6</sup>
		電氣 Electrical	10 <sup>5</sup>	10 <sup>5</sup> (3A 250VAC) 2x10 <sup>5</sup> (3A 125VAC/30VDC) 5x10 <sup>4</sup> (5A 250VAC)	2x10 <sup>5</sup>	10 <sup>5</sup>	2x10 <sup>5</sup> (3A 125VAC / 30VDC) 10 <sup>5</sup> (3A 250VAC)	10 <sup>5</sup>
	使用環境溫度 Temperature Range		-40~85℃	-40~85℃	-40~70℃	-40~70℃	-40~70℃	-30~85℃
	使用環境濕度 Humidity Range		20~85%RH	35~85%RH	5~85%RH	-	5~85%RH	20~85%RH
	重量 Weight		4 g	4 g	4 g	4 g	4 g	4 g
	安全規格 Safety Standard		-	UL&CUR, VDE	UL, CSA, VDE	UL&CUL, VDE	UL/CSA, VDE,TUV	UL, CSA, VDE
寸法 Dimension	外型尺寸 Dimension	20.4x7.0x15.0mm	20.4x7.0x15.0mm	20.4x7.0x15.0mm	20.5x7.0x15.3mm	20.3x7.0x15.0mm	20.4x7.0x15.0mm	
端腳外型 Terminal Type	直Pin(DIP)	V	V	V	V	V	V	
	90°Pin(SMD)	-	-	-	-	-	-	



## Main Feature

1. Slim size(20.4 x 7.0 x 15.0mm)
2. Only 7mm wide
3. Sensitive coil 200 mW
4. 5A 250VAC suitable for PLC and heating element controls
5. 8 mm creepage / clearance.
6. RoHS compliant (Directive 2002/95/EC)

## Contact Rating

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

## Application

Home Appliance.

## 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 ..... 750VAC at 50/60 Hz  
for one minute
- Surge Resistance ..... 7,000V (between coil &  
Contact 1.2/50 μ Sec.)
- Insulation Resistance ..... 1,000MΩ 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/S<sup>2</sup>  
Error Operation ..... 100 m/S<sup>2</sup>
- Life Expectancy :  
Mechanical ..... 5x10<sup>7</sup> Operations at No  
Load condition.  
Electrical ..... 10<sup>5</sup> Operations at Rated  
Resistive Load.
- Contact Material ..... Ag Alloy.
- Weight ..... About 4 g.

## Safety Standard & Its File Number

- In Progress

## 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				
	18	11.1	1620				
	24	8.6	2880				

## Ordering Information

GCJ - SH - 1 12 D M N

**Contact Material:**

**Nil:** AgNi 10%  
**N:** AgSnO<sub>2</sub>  
**S:** AgSnO<sub>2</sub> Gilded

**Contact Form:**

**M:** One Form A

**Coil Type:**

**D:** Standard DC Coil

**Coil Voltage:**

**03:** 3V, **05:** 5V, **05:** 5V, **06:** 6V, **09:** 9V, **12:** 12V, **18:** 18V, **24:** 24V

**Number of Pole:**

**1:** One Pole

**Type of Sealing:**

**Nil:** RT 0 Unclosed Relays  
**SS:** RT II Flux Proofed Relays  
**SH:** RT III Wash Tight Relays

**Type:**

**GCJ**

## Classification

Model	GCJ
Terminal Size	Standard DC Coil
Contact Form	1A
Unclosed Relay	GCJ-1□□DM
Flux Proofed Relay	GCJ-SS-1□□DM
Wash Tight Relay	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:  $+0.1\text{mm}$ )

GCJ-SS/SH-DM

