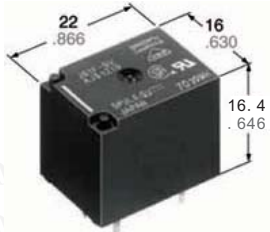




# Relays & Solenoids

## NAIS\_PCB Relays

Detailed product specifications are available on: [us.100y.com.tw](http://us.100y.com.tw)



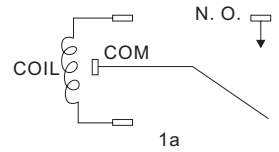
### FEATURES

- Low pick-up voltage for high ambient use
- Sealed construction
- Global standard terminal pitch
- Usable at high temperature: 85°C 185°F

### TYPICAL APPLICATIONS

- Power-window
- Car antenna
- Door lock
- Intermittent wiper
- Interior lighting
- Power seat
- Power sunroof
- Car stereo
- Horn
- Lift gate, etc.

Schematic (Bottom view)



### SPECIFICATIONS Contact

Arrangement	Standard type 1 Form A, 1 Form C	
Contact material	Ag alloy (Cadmium free)	
Contact voltage drop	Max. 0.2 V DC (at 10 A 12 V DC)	
Rating	Nominal switching capacity	10 A 16 V DC (resistive)
	Max. carrying current	25 A (at 20°C 68°F for 2 minutes) 15 A (at 20°C 68°F for 1 hour) 20 A (at 85°C 185°F for 2 minutes) 10 A (at 85°C 185°F for 1 hour)
	Max. switching power	160 W
	Max. switching voltage	16 V DC
	Max. switching current	10 A
	Min. switching capacity <sup>#1</sup>	1 A 12 V DC

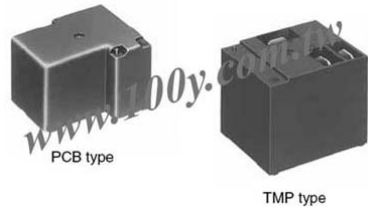
Max. operating speed (at rated load)	15 cps.	
Initial insulation resistance <sup>*1</sup>	Min. 100 MΩ (at 500 V DC)	
Shock resistance	Functional <sup>*4</sup>	Min. 98 m/s <sup>2</sup> {10 G}
	Destructive <sup>*5</sup>	Min. 980 m/s <sup>2</sup> {100 G}
Vibration resistance	Functional <sup>*6</sup>	10 Hz to 55 Hz at double amplitude of 1.6 mm
	Destructive	10 Hz to 55 Hz at double amplitude of 2 mm
Mass	Approx. 12 g .423 oz	

### Characteristics

### Coil

Nominal operating power	640 mW
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Part No.	Product No.	Manufacturer	Description	Coil Voltage	Type
47121	JSM1a-12V-4	NAIS	GLOBAL STANDARD TERMINAL PITCH AUTOMOTIVE POWER RELAY	12V	JS-M

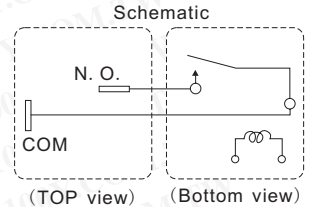


### FEATURES

- Surge withstand voltage: Min. 6,000 V
- High switching capacity — 30 A for 1 Form A
- 2 contact arrangements — 1 Form A or 1 Form C
- "TMP" types available
- UL/C-UL recognized
- Class F types standard

### TYPICAL APPLICATIONS

- Oven
- Heating & ventilation
- Home appliance

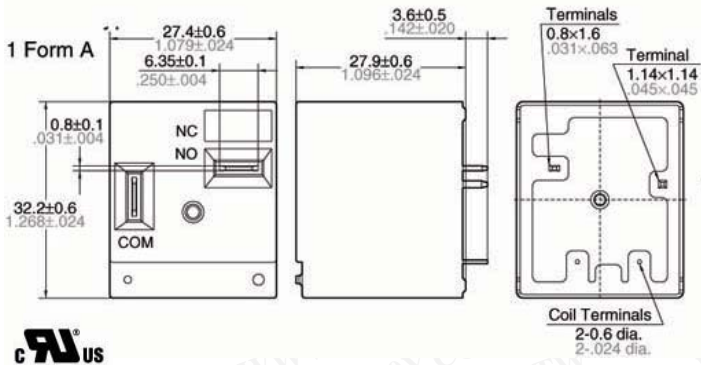


### SPECIFICATIONS Contacts

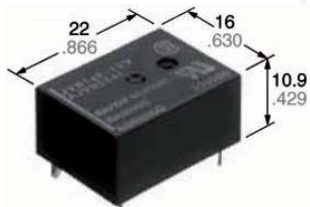
Arrangement	PCB & TMP type 1 Form A	
Initial contact resistance, max. (By voltage drop method, 6 V DC 1 A)	50 mΩ	
Contact material	AgSnO <sub>2</sub> type	
Rating	Max. switching power	8310 VA
	Max. switching voltage	277 V AC
	Max. switching current	30 A
	Min. switching capacity <sup>#1</sup>	100 mA, 5 V DC

### Characteristics

Initial insulation resistance <sup>*1</sup>	Min. 100 MΩ at 500 V DC	
Shock resistance	Functional <sup>*5</sup>	Min. 98 m/s <sup>2</sup> {10 G}
	Destructive <sup>*6</sup>	Min. 980 m/s <sup>2</sup> {100 G}
Vibration resistance	Functional <sup>*7</sup>	Max. 88.2 m/s <sup>2</sup> {9 G}, 10 to 55 Hz at double amplitude of 1.5 mm
	Destructive	Max. 117.6 m/s <sup>2</sup> {12 G}, 10 to 55 Hz at double amplitude of 2 mm
Unit weight	TMP type: Approx. 30 g (1.06 oz)	



Part No.	Product No.	Manufacturer	Description	Coil Voltage	Type
47004	JTV1a-S-TMP-24V	NAIS	SURGE VOLTAGE 6,000 V 30 AMP. RELAY	24V	JT-V



### FEATURES

- High 16 A capacity
  - Compact, flat type with low 10.9 mm .429 inch height
  - High sensitivity at 200 mW
- The contacts are high capacity 16A, 125 V AC.  
Compact flat type with low surface area of 16 × 22 mm .630 × .866 inch and height of 10.9 mm .429 inch.

### Represses contact terminal heat

The contact terminals are larger and thicker compared to the existing JV relay. This limits the rise in temperature of the terminals when there is a large current flowing to approx. 28°C 62°F (normal current of 16 A).

- Conforms to the various safety standards
- UL/CSA, TÜV approved.

### SPECIFICATIONS Contact

Arrangement	1 Form A	
Initial contact resistance, max. (By voltage drop 6 V DC 1 A)	Max. 30 mΩ	
Contact material	AgSnO <sub>2</sub> type	
Rating (resistive load)	Nominal switching capacity	16 A 125 V AC, 10 A 277 V AC 10 A 30 V DC, 10 A 125 V AC
	Max. switching power	2,770 VA, 300 W
	Max. switching voltage	277 V AC, 30 V DC
	Max. switching current	16 A (AC 125 V), 10 A (DC)
	Min. switching capacity <sup>#1</sup>	100 mA, 5 V DC

### Characteristics

Max. operating speed	20 cpm	
Initial insulation resistance	Min. 1,000 MΩ (at 500 V DC)	
Shock resistance	Functional	Min. 200 m/s <sup>2</sup> {20G} <sup>*5</sup>
	Destructive	Min. 1,000 m/s <sup>2</sup> {100G} <sup>*6</sup>
Vibration resistance	Functional	10 to 55 Hz <sup>*7</sup> at double amplitude of 1.6 mm
	Destructive	10 to 55 Hz at double amplitude of 2 mm
Unit weight	Approx. 8g .28 oz	

