| Relays for advanced technology | COMPACT ECONOMICAL POWER RELAYS | WJ106- RELAYS |
|---|---|---|


- Incorporates relay terminals separated form coil terminal, thus making it possible to design PCB patterns with ease.
- Dielectric strength of 2000V between the coil and contacts and an impulse withstand voltage of 5000V for greater safety
- Greater range of applicability with the addition of high-capacity relays (8A) to standard relays (5A).
- TUV recognized.

## SPECIFICATIONS

**Contact**

| | |
|---|---|
| Arrangement | 1A; 1B; 1C |
| Contact Material | Silver alloy |
| Contact Resistance (By voltage drop 6V 1A) | Max.100mΩ |
| Rating<br>Resistive load<br>(cosφ=1)<br><br><br>Inductive load<br>(cosφ=0.75~0.8) | <br>8A 125VAC<br>5A 250VAC<br>5A 30VDC<br>4A 120VAC<br>4A 30VDC |
| Max. Switching current | 8A |
| Max. Switching power | 1300VA 150W |
| Expected life (min. ope)<br>Mechanical(at 120 cpm)<br><br>Electrical (at 20 cpm) | <br>$1\times10^7$<br>$1\times10^5$ |

**Characteristics**

| | | |
|---|---|---|
| Operate Time | | Max.10msec. |
| Release Time | | Max.10msec. |
| Operating humidity | | 45 to 80% RH |
| Initial breakdown voltage<br>Between coil & contact<br>Between open contacts | | <br>2000VAC (50/60Hz)for 1 min.<br>750VAC (50/60Hz )for 1 min. |
| Insulation Resistance | | Min.1000MΩ (500 VDC) |
| Ambient temperature | | -40°C ~ +80°C |
| Shock Resistance | Functional | Min. 10G |
| | Destruction | Min. 50G |
| Vibration Resistance | Functional | 10 to 55 Hz at double Amplitude of 1.5mm |
| | Destruction | 10 to 55 Hz at double Amplitude of 1.5mm |
| Insulation withstand voltage | | 5000V 1.2×50μs(between coil and contacts) |
| Unit weight | | Approx.9.5g |

**Coil**

| | |
|---|---|
| Nominal operating power | 0.36W |

## TYPICAL APPLICATIONS

1. Home appliances: Oven, range, dryer, heater, air conditioner, etc.
2. Automotive.
3. Garage door opener.
4. Personal computer.
5. Programmable controller.

## ORDERING INFORMATION

**WJ106 - 1 C - 5VDC**

**1 2 3 4**

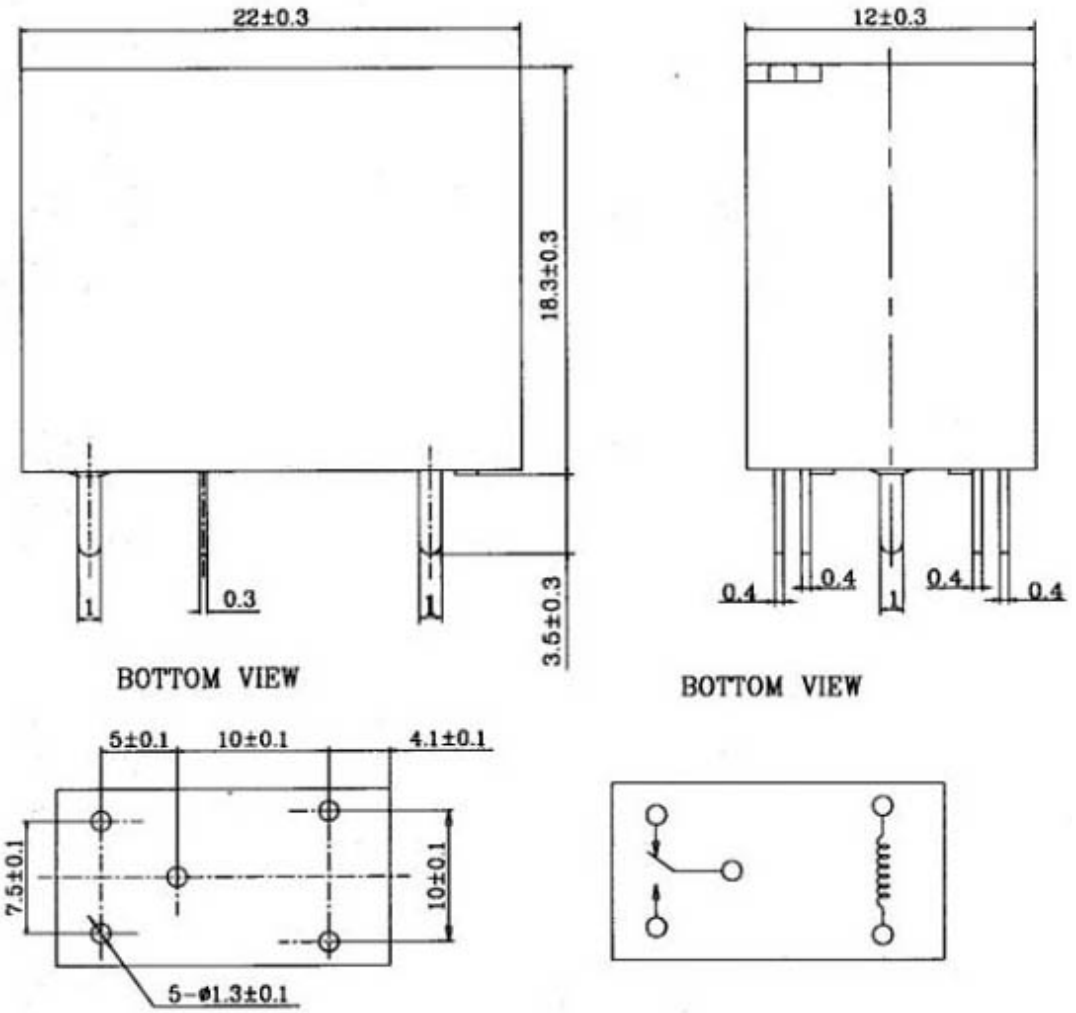
| 1. Type | 2. Number of pole | 3. Contact form | 4. Coil voltage (DC) |
|---|---|---|---|
| WJ106 | 1:1pole | A: 1 form A<br>B: 1 form B<br>C: 1 form C | 5, 6, 9,<br>12, 24, 48V |

# COIL DATA (at 20°C)

| Nominal Voltage (VDC) | Coil Resistance (Ω)±10% | Power Consumption (W) | Pull-in Voltage (VDC) | Drop-out Voltage (VDC) | Max.Allowable Voltage (VDC) |
|---|---|---|---|---|---|
| 5 | 70 | 0.36 | 75%Max. | 5%Min. | 130% of nominal Voltage |
| 6 | 100 | | | | |
| 9 | 225 | | | | |
| 12 | 400 | | | | |
| 24 | 1600 | | | | |
| 48 | 6400 | | | | |

## DIMENSIONS

Unit: mm




## Quality policy:

Today's quality is our future market;
Vendors'satisfaction is our pursuing goal.

## Environment policy:

Keeping the system,Abiding by laws;
Innovation in technology,Precaution in pollutions;
Propaganda & education,Continual improvement.

Note: The relative changes for the specification will not be advised in the future.