



- Small size and light weight.
- Low coil power consumption.
- High contact load.
- Strong anti-shock high reliability.

**SPECIFICATIONS**
**Contact**

|   |                   |            |
|---|-------------------|------------|
| Arrangement                                   | 1A 1B 1C          |            |
| Contact Material                              | Silver alloy      |            |
| Contact Resistance<br>(By voltage drop 6V 1A) | Max.50mΩ          |            |
| Rating  | 50A               | 40A 250VAC |
| Nominal switching capacity                    | 250VAC            |            |
| Resistive load                                |                   |            |
| Max. Switching Voltage                        | 28VDC/250VAC      |            |
| Max. Switching Current                        | 40A               |            |
| Max. Switching Power                          | 10000VA/1120W     |            |
| Expected life (min. ope)                      | 1×10 <sup>7</sup> |            |
| Mechanical (at 120 cpm)                       | 1×10 <sup>5</sup> |            |
| Electrical (at 20 cpm)                        |                   |            |

**Characteristics**

|   |                              |  |
|---|------------------------------|--|
| Operate Time  | Max. 20 msec.                |  |
| Release Time  | Max. 15 msec.                |  |
| Initial breakdown voltage<br>Between coil & contact | 1500VAC (50/60Hz) for 1 min. |  |
| Between open contacts                               | 1500VAC (50/60Hz) for 1 min. |  |
| Insulation Resistance                               | Min. 1000MΩ (500 VDC)        |  |
| Ambient temperature                                 | -40°C ~ +70°C                |  |
| Operating humidity                                  | 45 to 85% RH                 |  |
| Shock Resistance                                    | Functional                   | Min. 10G                                 |
|   | Destruction                  | Min. 100G                                |
| Vibration Resistance                                | Functional                   | 10 to 55 Hz at double Amplitude of 1.5mm |
|   | Destruction                  | 10 to 55 Hz at double Amplitude of 1.5mm |
| Unit weight   | Approx. 90g                  |  |

**COIL DATE**

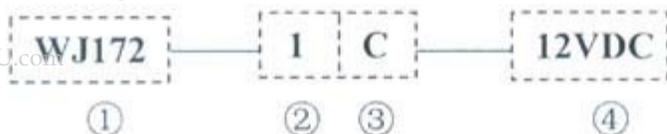
|                      |                              |
|----------------------|------------------------------|
| Coil Consumption     | sensitive: 4.5VA/3W          |
| Coil Voltage (1pole) | 6 - 110VDC                   |
| Coil Voltage (2pole) | 6 - 240VAC                   |
| Coil Resistance      | see COIL SPECIFICATION below |

**UL/C-UL Rating**

|                                     |  |
|-------------------------------------|--|
| Resistive load<br>(cosφ=1)          |  |
| Inductive load<br>(cosφ=0.75 - 0.8) |  |

**COIL SPECIFICATION (at 20°C)**

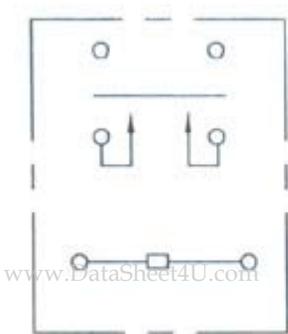
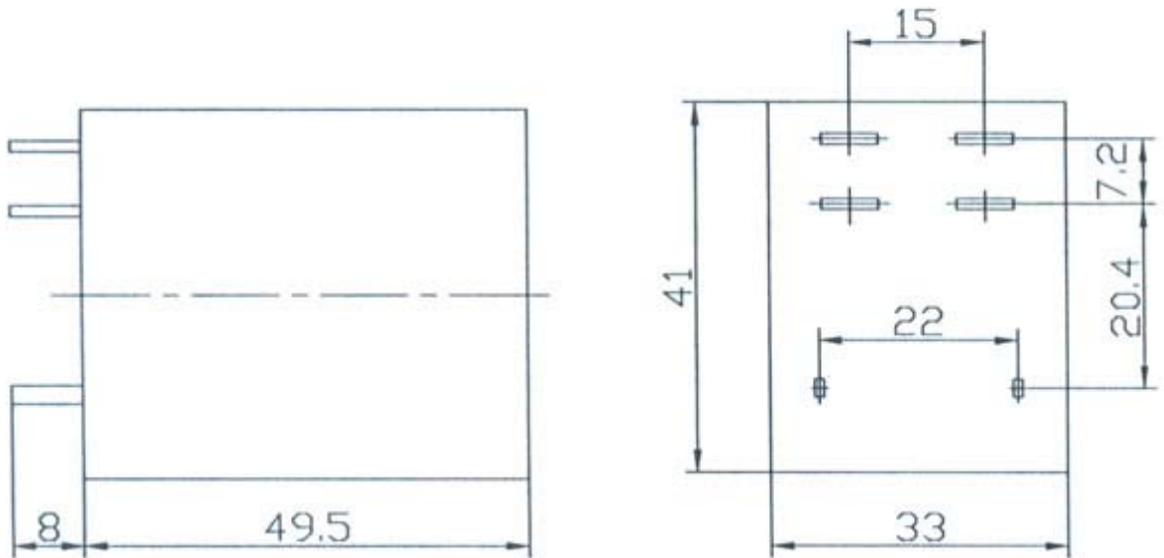
| Type | Nominal Voltage (VDC) (VAC) | Coil Resistance (Ω) | Nominal operating power (W) | Pick-up Voltage | Drop-out & Allowable Voltage & Max. Voltage |      |
|------|-----------------------------|---------------------|-----------------------------|-----------------|---|------|
| AC   | 12                          | 9                   | abt. 4.5VA<br>(50 - 60Hz)   | 75% Max.        | 30% Min.                                    | 120% |
|      | 24                          | 40                  |                             |                 |   |      |
|      | 36                          | 78                  |                             |                 |   |      |
|      | 48                          | 145                 |                             |                 |   |      |
|      | 110                         | 790                 |                             |                 |   |      |
|      | 220                         | 2800                |                             |                 |   |      |
| DC   | 6                           | 12                  | abt. 3W                     | 75% Max.        | 10% Min.                                    | 120% |
|      | 12                          | 48                  |                             |                 |   |      |
|      | 15                          | 75                  |                             |                 |   |      |
|      | 24                          | 192                 |                             |                 |   |      |
|      | 48                          | 768                 |                             |                 |   |      |
|      | 110                         | 4030                |                             |                 |   |      |

**ORDERING INFORMATION**
[www.DataSheet4U.com](http://www.DataSheet4U.com)


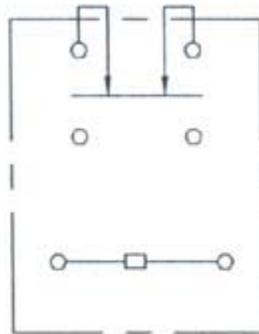
| ① Type | ② Number of pole | ③ Contact form                      | ④ Coil voltage                                    |
|--------|------------------|-------------------------------------|---|
| WJ172  | 1 : 1pole        | A: Form A<br>B: Form B<br>C: Form C | Coil: 6-110VDC<br>www.DataSheet4U.com<br>6-240VAC |

# DIMENSIONS Unit: mm

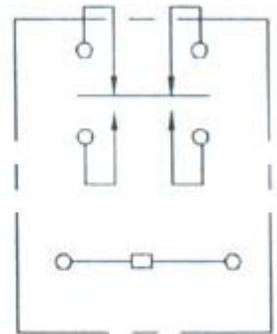
## WJ172-1Pole Plug terminal



1A



1B



1C

### Quality policy:

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

### Environmental policy:

Keeping the system safe, Abiding by laws;  
Innovation in technology, Prevention of pollution;  
Advertising & education, Continuous improvement.

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