



# WANJIA

Relays for advanced technology

## POWER PCB RELAY

## WJ119-RELAYS



- Smallest size for 25A resistive load
- 20~25A switching capability
- SPST-NO configuration
- Withstand inrush current of 80A
- Reliable quality
- #250 Fasten terminals and PCB terminals available

### SPECIFICATIONS

#### Contact

Arrangement	1 A
Contact Material	Silver alloy
Initial Contact Resistance (At voltage drop 6V 1A)	Max.100mΩ
Rating Resistive load (Cosφ=1)	25A 250VAC 23A 277VAC 8A 30VDC
Max. Switching voltage	277VAC
Max. Switching current	25A
Max. Switching power	5000VA
Expected life (Min.ope) Mechanical (at 120 cpm) Electrical (at 20 cpm)	$1 \times 10^7$ $1 \times 10^5$

#### Characteristics

Operate Time	10 msec.	
Release Time	5 msec.	
Initial breakdown voltage Between coil & contact Between open contacts	3,000VAC (50/60Hz)for 1 min. 1,000VAC (50/60Hz)for 1 min.	
Insulation Resistance	Min. 1000MΩ at (500 VDC)	
Ambient temperature	-40°C ~ +55°C	
Temperature rise(Max)	≤60deg	
Shock	Functional	100 m/s <sup>2</sup> Min.10G
	Destruction	1000 m/s <sup>2</sup> Min.100G
Vibration	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.42g	

#### Coil

Nominal operating power	0.9W
-------------------------	------

### TYPICAL APPLICATION

- 1..House appliances: Air Conditioner, Microwave Oven Magnetron Control
- 2.Office Machines: Fax machine/OA Equipment Lamp and Motor Control
- 3.Industrial equipment : Compressor. Heater controller

### ORDERING INFORMATION

**WJ119 - 1 A - 6Ω**

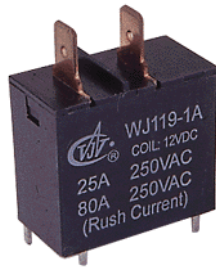
Part Number	Number of pole	Contact Form	Coil Voltage
WJ119	1:1group	A: 1 Form A B: 1 Form B C: 1 Form C	6 , 9 , 12 , 24 , 48V

**COIL DATA (at 20°C)**

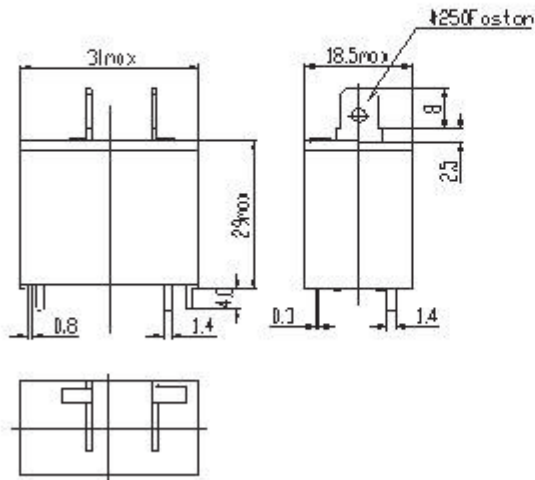
Nominal Voltage (VDC)	Coil Resistance (Ω)±10%	Power Consumption (W)	Pull-in Voltage (VDC)	Drop-out Voltage (VDC)	Max.Allowable Voltage (VDC)
5	27.8	abt. 0.9W	4.00	0.25	130% of nominal voltage
6	40		4.80	0.30	
9	90		7.20	0.45	
12	160		9.60	0.60	
24	640		19.20	1.20	
48	2560		38.40	2.40	

**DIMENSIONS**

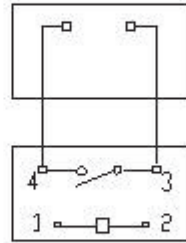
Unit: mm



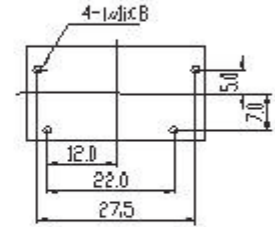
### OUTLINE DIMENSIONS



### WIRING DIAGRAM



### PCB LAYOUT



### USEFUL CURVES

