



# WANJIA POWER RELAY

Relays for advanced technology

## WJ176-RELAYS



- Low coil power consumption.
- High contact load.
- Strong anti-shock high reliability.

## SPECIFICATIONS

### Contact

Arrangement	1A,1B,1C	2A,2B,2C
Contact Material	Silver alloy	Silver alloy
Contact Resistance (By voltage drop 6V 1A)	Max.50mΩ	Max.50mΩ
Rating		
Nominal switching capacity	30A 250VAC	40A 250VAC
Resistive load	30A 28VDC	40A 28VDC
Max. Switching Voltage	28VDC/250VAC	28VDC/250VAC
Max. Switching Current	30A	40A
Max. Switching Power	7500VA/360W	1000VA/1120W
Expected life(min.ope)	$1 \times 10^7$	$1 \times 10^7$
Mechanical(at 120 cpm)	$1 \times 10^5$	$1 \times 10^5$
Electrical (at 20 cpm)		

### Characteristics

Operate Time	Max.20msec.	
Release Time	Max.15msec.	
Initial breakdown voltage		
Between coil contacts	2000VAC (50/60Hz)for 1 min.	
Between open & contact	1500VAC (50/60Hz)for 1 min.	
Insulation Resistance	Min. 100MΩ (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.110g	

### COIL DATA

Coil Consumption	sensitive:4.5VA/3W
Coil Voltage(1pole)	6 ~ 110VDC

### UL/C-UL Rating

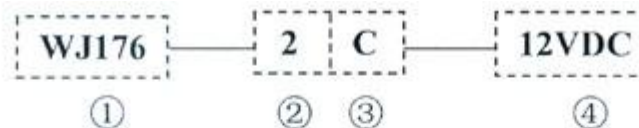
Resistive load		
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Coil Voltage(2pole)	6 ~ 240VAC	(cosΦ=1) Inductive load (cosΦ=0.75 ~ 0.8)		
Coil Resistance	see COIL SPECIFICATION below			

### COIL SPECIFICATION(at20°C)

Type	Nominal Voltage (VDC) (VAC)	Coil Resistance (Ω)	Nominal operating power (W)	Pick-up Voltage	Drop-out Voltage	Max.Allowable Voltage
AC	6	3	abt. 3.8VA (50 ~ 60Hz)	75%Max.	30%Min.	120%
	12	12				
	24	48				
	48	190				
	120	1000				
	230	4300				
DC	6	14	abt.2.8W	75%Max.	10%Min.	120%
	12	51				
	24	220				
	36	460				
	48	800				
	100	3470				
	110	4620				

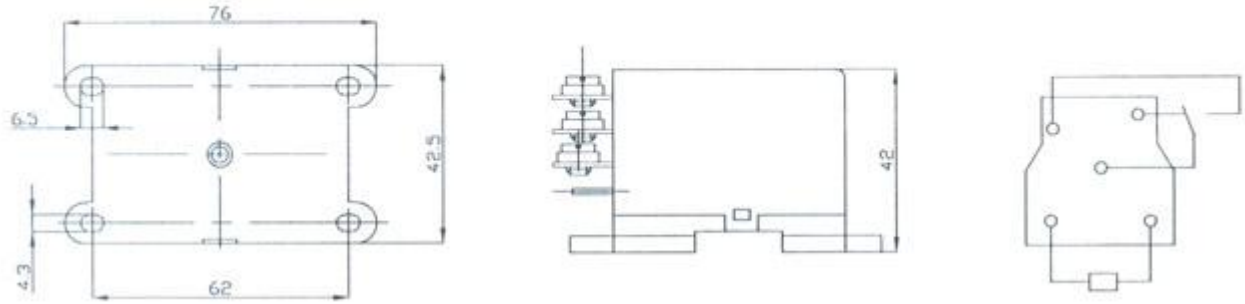
### ORDERING INFORMATION



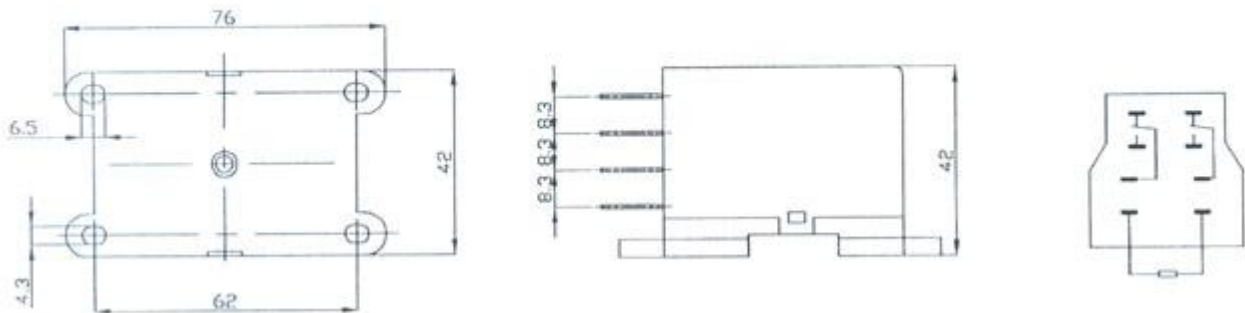
① Type	② Number of pole	③ Contact form	④ Coilvoltage
WJ176	1 : 1pole	A: Form A B: Form B	Coil: 6-110VDC
	2 : 2pole	C: Form C	6-240VAC

### DIMENSIONS Unit: mm

## WJ176-1Pole Screw Fasten



## WJ176-2Pole Plug-in terminal



### 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.