



Powering Innovation



PROTECTION + AUTOMATION + CONTROL

# AUTO RECLOSE RELAY

## JRV 144

**JVS ELECTRONICS PVT. LTD.**

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## FEATURES

- ◆ Software based design
- ◆ Built- in Auto / Manual selection facility
- ◆ No. of shots selectable
- ◆ High accuracy and stability

## APPLICATION

The auto reclose function is normally used in feeder protection relays that are protecting an overhead line. Most of the overhead line faults are temporary in nature. Upto 85% can be cleared by using the auto reclose function.

## PRINCIPLE OF OPERATION

The relay receives the fault initiation from the protection relay and that triggers the auto reclose function. After tripping the circuit breaker (CB), the Auto reclose function can reclose the CB. Normally , the first reclose (or shot) is so short in time, that the consumer cannot notice anything. However, the fault will cleared and the feeder will continue in normal service. Even though the basic principle of Auto reclose is simple, there are a lot of different timers and parameters that have to be set.

## TECHNICAL DATA

### RATINGS

No. of shots	:	1shot or 2shot
Aux. Supply	:	1) 20 to 60VDC 2) 75 to 150VDC/AC 3) 175 to 300VDC 185 to 250 VAC

### SETTINGS

1- Shot		
Reclaim time	:	5 - 80s in steps of 5s
Dead Time	:	3s -10s in steps of 1s
2- Shot STD Reclaim time	:	20 - 320s in steps of 20s
Dead Time 1	:	10s - 80s in steps of 10s
Dead Time 2	:	30s - 170s in steps of 20s

### BURDEN

Aux. Supply : Less than 5W (Non operated)  
Less than 7W (Operated)

### ACCURACY

Operating Time :  $\pm 5\%$  or  $\pm 30\text{ms}$  whichever is higher

### CONTACT RATINGS

Lockout Relay &  
Reclose Relay : 10A at 24V DC/230V AC

### CONTACT DURABILITY

Loaded contact : 10,000 operations min.  
Unloaded contact : 100,000 operations min.

### INSULATION

- 2KV RMS, 50 Hz for 1 minute / 2.5 KV for 1s . Between all terminals and cases.
- 1KV RMS, 50 Hz for 1 minute across open contacts

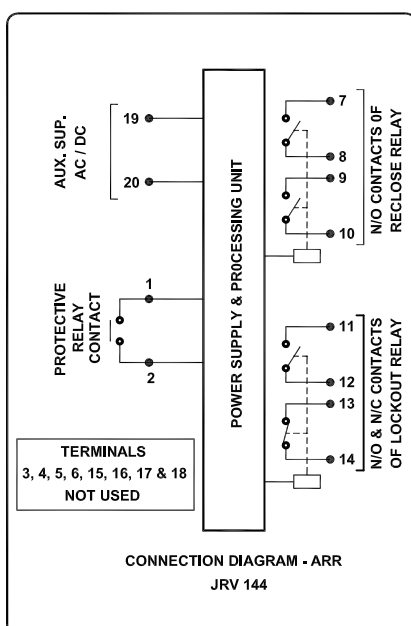
### MECHANICAL DESIGN

Weight : 2500 gms. (approx)  
Case Size : 144sq mm, depth 232mm  
Installation : Flush mounting  
Panel cutout : 138mm x 138mm

### STANDARD COMPLIANCE

Accuracy Test : IEC 60255-3  
Insulation Test : IEC 60255-5

### TERMINAL DIAGRAM



**ORDERING INFORMATION**

- Relay rating type : JRV 144 (1 Shot Standard)  
Aux. Supply : 20 to 60V DC or  
: 75 to 150V AC/DC or  
: 175 to 300V DC (185 to 250V AC)