



PROTECTION + AUTOMATION + CONTROL

MULTISHOT AUTO RECLOSE RELAY

PROGRAMMABLE FOR SINGLE SHOT, TWO, THREE OR FOUR SHOTS JRV 142

JVS ELECTRONICS PVT. LTD.

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FEATURES

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

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 : 4shot, 2shot, 1 shot

Aux. Supply : 30VDC

110VDC 220VDC

SETTING

4- shot STD

Reclaim time : 1 - 255s in steps of 1s

DT1, DT2, DT3, DT4 : 0.25s - 60s in steps of 0.25s

Fast reset : 0 - 15 sin steps of ls

3- shot STD

Reclaim time : 200 - 300s in steps of 1s

Dead Time 1 : 10s - 60s in steps of 1s

Dead Time 2 : 30s - 180s in steps of 1s

Fast reset : 0 - 15 sin steps of 1s

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2- shot STD

Reclaim time : 1 - 255s in steps of 1s

Dead Time 1 : 0.25s - 60s in steps of 0.25s Dead Time 2 : 0.25s - 60s in steps of 0.25s

Fast reset : 0 - 15 sin steps of 1s

1- shot STD

Reclaim time : 6-69s in steps of 1s Dead Time 1 : 0.1s-1.6s in steps of 0.1s

BURDEN

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

Less than 7W (Operated)

ACCURACY

Operating Time : ±5% or ±30ms whichever is higher

CONTACT RATINGS

TRIP / ALARM : 10A at 24V DC/230V AC

Lockout Relay & Reclose Relay

CONTACT DURABILITY

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

INSULATION

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

2. 1KV RMS, 50 Hz for 1 minute across open contacts

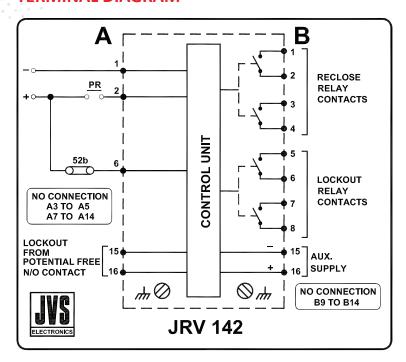
MECHANICAL DESIGN

Weight : 2500 gms. (approx)

Case Size : 144sq mm, depth 232mm

Installation : Flush mounting Panel cutout : 138mm x 138mm

TERMINAL DIAGRAM



ORDERING INFORMATION

Relay rating type : JRV 142 (4 Shot Standard)

Aux. Supply : 30V DC

110V DC 220V DC