



## OVER VOLTAGE RELAY

- Recognition of overvoltage
- Setting voltage range adjustable from 20 to 120% of voltage limit
- Relay OFF delay time adjustable from 0.15 to 10 seconds
- 2 signals:
  - PWR: Input voltage
  - FAULT: Fault condition

### Principles of Operation:

When supply and input sample voltages are connected to terminals A1, A2 and U, V respectively and in addition, voltage is in allowed range, device internal relay would be open (internal contact of terminal 15 to 18 is established) and PWR and FAULT signals would be on and off respectively.

If input sample voltage is higher than the limit adjusted by VOLT potentiometer handle, device starts timing and at the end of time adjusted by DELAY potentiometer handle, FAULT signal gets ON and device internal relay closes (internal contact of terminal 15 to 16 is made).

If input sample voltage decreases into allowed range during the above adjusted time, relay remains intact.

If input sample voltage decreases into allowed range after FAULT signal gets ON, FAULT signal gets OFF and device internal relay opens (internal contact of terminal 15 to 18 is made).

If J terminals are separated from each other, the device would be restarted automatically every time after fault occurrence and its correction.

If J terminals are connected together, the device should be restarted by RESET button every time after fault occurrence and its correction.

### Installation and Start-Up:

Supply voltage is connected to terminals A1 and A2.

Input sample voltage should be connected to terminals U and V of overvoltage relay. Terminals 15, 16 and 18 are the device internal relay contact points which will be put in control circuit if required.

For example, to activate an alarm or to disconnect the main contactor control.

The limit from which input sample voltage should not exceed is set by VOLT adjusting potentiometer handle. This is adjustable from 20 to 120%.

Internal relay OFF delay time duration is set by DELAY timer adjusting potentiometer handle. This time is adjustable from 0.15 to 10 seconds.

Attention: In the case of DC input sample voltage, positive and negative poles have to be connected to U and V respectively.

### Technical Specifications:

- ▣ Supply Voltage: 220 VAC + 10%
- ▣ Network Frequency:  $50 \pm 5$  Hz
- ▣ Internal Loss: About 3 W
- ▣ Voltage Limit: 10-110-220-500 V AC/DC
- ▣ Voltage Range: 20 to 120% of voltage limit adjustable by VOLT potentiometer handle
- ▣ OFF Delay: 0.15 to 10 seconds, adjustable by DELAY potentiometer handle
- ▣ Output Relay: Single-C/O contact
- ▣ Contact Current: 6 A, 220 VAC- 6A, 28 VDC

