



Under current Relay

- Recognition of undercurrent
- Setting current range adjustable from 5 to 100% of current 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 voltage and input sample current are connected to terminals A1, A2 and terminals K, L respectively and in addition current is in allowed range, device internal relay would be open (internal contact of terminal 15 to 18 is established), PWR and FAULT signals would be on and off correspondingly.

If input sample current is under the limit set by CURR potentiometer handle, the 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 current increases into allowed range during the above adjusted time, relay remains intact.

After FAULT signal getting ON, if input sample current increases into allowed range, 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 current should be connected to terminals K and L of undercurrent 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 under which input sample current should not be is set by CURR adjusting potentiometer handle. This is adjustable from 5 to 100% of current limit.

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

▮ Technical Specifications:

- ▣ Supply Voltage: 220 VAC \pm 10%
- ▣ Network Frequency: 50 \pm 5 Hz
- ▣ Internal Loss: About 3 W
- ▣ Current Limit: 5 A AC and by use of current transformer for higher currents
- ▣ Current Range: 5 to 100% of current limit adjustable by CURR 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

