

EV-1 Over Voltage Monitor

It is used to protect the generators from destructive high voltages, when the voltage regulators malfunction

Set-up is simple using two LEDs indicators (supply voltage & over-voltage) and two adjustments (sensing voltage & time delay.)

If EV-01 is activated, reset by shorting the two reset terminals or pulsing onboard reset button.

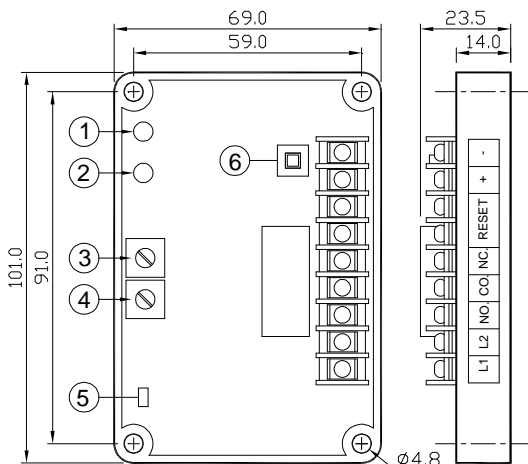
How it works - the EV-01 disconnect the voltage regulator from the generator sensing and stops the generator voltage output.



1. SPECIFICATIONS

Working Power: 10 to 28VDC 0.3A max Sensing voltage: 210 to 290 / 400 to 560VAC
 Delay time: 1 to 10 Sec
 Contact Rating: 10A @ 250VAC At PF = 1 NO or NC Operating Temperature : -40 ~ +65
 Humidity: 10% ~ 95% non-condensing

2. DIMENSION / OUTLINE DRAWING



1. Over voltage indicator LED
2. Power LED
3. Delay time set
4. Voltage setting adjustment
5. Jumper from high to low voltage sensing
6. Onboard reset button

3. TERMINALS

L1, L2: sensing input
 210 to 290VAC with jumper removed
 400 to 480VAC with jumper on
 Output Contact: Normal Open (NO) Common (CO) Normal Closed (NC) 10A@250VAC
 RESET: Remote Reset (Dry Contact) 100 mA @28VDC
 +, - : Power Input 10 to 28VDC

4. SETTINGS

Connect battery supply and sensing L1 & L2 as diagram. The green LED should illuminate since no over-voltage is present. Turn time delay pot to lowest position (fully counterclockwise). And turn the voltage setting pot to highest position (fully clockwise). Select jumper ON/OFF depend on the range of sensing voltage and Switch on AC power. Turn voltage setting pot counterclockwise slowly till the red LED is illuminated. The relay is energized and latched until either the RESET button is pressed or reset terminals are shorted momentary. Turn the time delay pot to position from 2 to 10 seconds.

CAUTION

Meggars and high-potential test equipment must not be used. Use of such equipment could damage the Semiconductors contained in the controller.

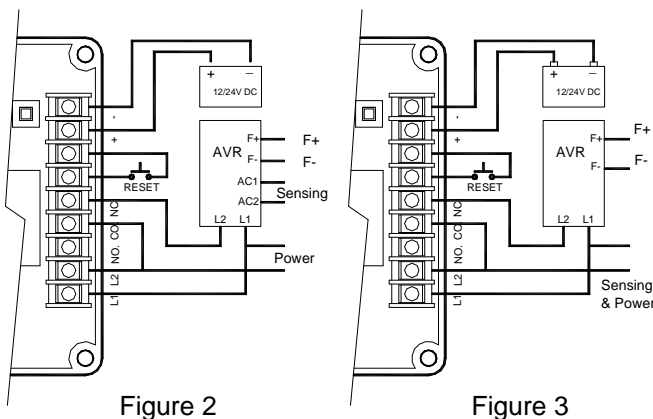


Figure 2

Figure 3

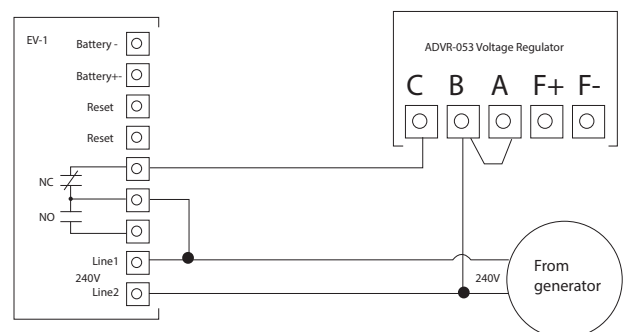


Figure 4