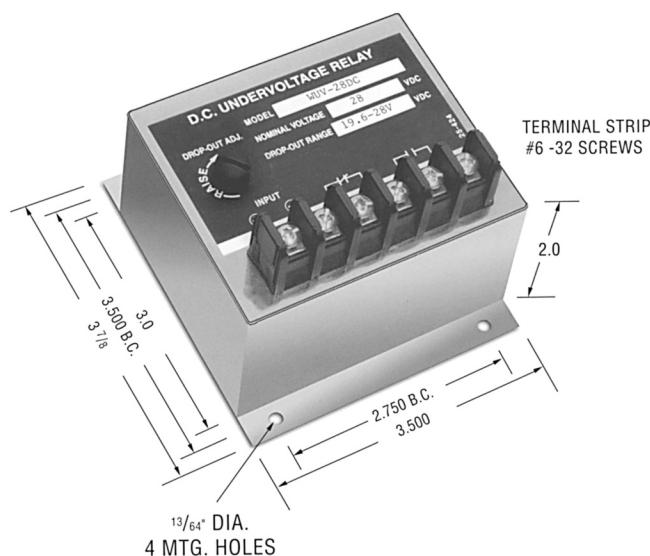# WUV/WOV DC Series

Product Facts
■ **ANSI/IEEE C37.90-1978**
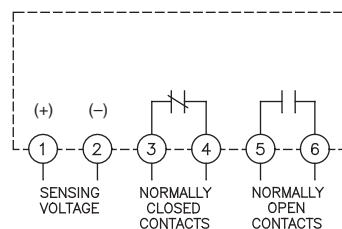
Undervoltage Models
The relay is energized at normal voltage, N.C. contacts will open and N.O. contacts will close. The relay will de-energize when the voltage drops below the U/V set point.

Overvoltage Models
The relay is de-energized at normal voltage, N.C. contacts are closed and N.O. contacts are open. The relay will energize, when the voltage rises above the O/V set point.

D.C. UNDERVOLTAGE RELAY
MODEL WUV-28DC
NOMINAL VOLTAGE 28 VDC
DROP-OUT RANGE 19.6-28V
DROP-OUT ADJ.
RAISE
INPUT

TERMINAL STRIP #6 -32 SCREWS

3.0
3.500 B.C.
3 7/8
2.0
2.750 B.C.
3.500

13/64" DIA.
4 MTG. HOLES

Note: Dimensions in inches. Multiply values by 25.4 for dimensions in mm.

(+) (−)
1   2   3   4   5   6
SENSING VOLTAGE
NORMALLY CLOSED CONTACTS
NORMALLY OPEN CONTACTS

Product Specifications

Nominal Voltage — 12 VDC to 560 VDC

Drop-out Point (u/v models) — 70-100% of nominal voltage, screwdriver adjustable

Pick-Up Point (o/v models) — 100-125% of nominal voltage, screwdriver adjustable

Output Contacts — One set N.O., One set N.C.

Contact Ratings — 5 amp resistive at 120 VAC or 28 VDC

Operating Temperature Range — -40°C to +75°C

Temperature Effects — Less than 1% voltage drift over the temperature range

Power Consumption —
12 to 60 VDC models — 1 W max.
120 to 305 VDC models — 2 W max.
405 to 470 VDC models — 3 W max.
560 VDC model — 4 W max.

Time Delay — A short duration delay is provided to prevent nuisance tripping due to momentary dips or surges in voltage. The drop-out delay, following a voltage fault is 75 to 100 milliseconds.

Notes:
1. Remove black screws for access to the O/V and U/V trip adjustment.
2. Clockwise rotation of the adjustment potentiometer will raise the voltage trip point.
3. The adjustments are by means of a single turn potentiometer. Use a small screwdriver and do not force beyond the limit stops.

Ordering Information

Sample Part Number ▶ WOV-12DC -A

Type:
WOV - Overvoltage
WUV - Undervoltage

Line Voltage VDC
12DC	125DC
18DC	240DC
24DC	250DC
28DC	305DC
32DC	405DC
48DC	430DC
60DC	470DC
120DC	560DC

Options:
Blank - Standard
A = 2 Form A Contacts
B = 2 Form B Contacts
H = 125 VDC Contacts
P = Transient Protection

Time Curves DC Overvoltage Relays

% of Nominal Voltage vs Pick-Up Time Delay (msec)
120% Setting
110% Setting
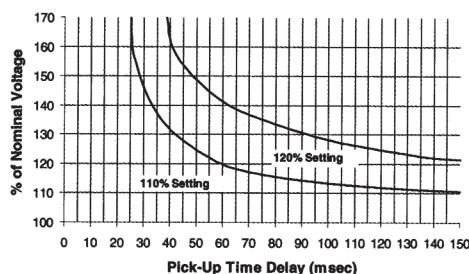
Transient Protection — All voltage relays will withstand momentary voltage surges of twice the nominal rated input voltage (standard).

Option "P" provides additional transient protection which complies with the requirements of ANSI/IEEE C37.90-1978

Consult factory for additional models.