WOUVT Series, Over/Undervoltage

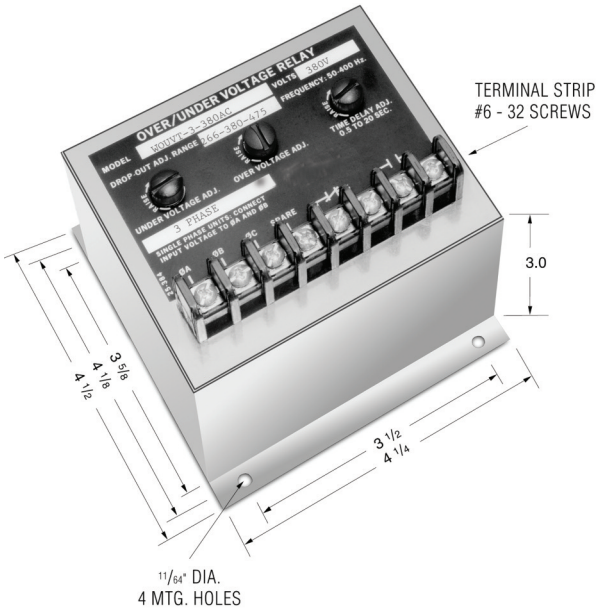
Product Facts

- **Function 27/59**
- **ANSI/IEEE C37.90-1978**

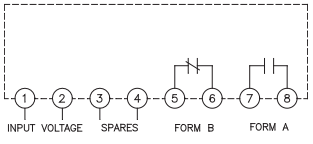
Voltage sensitive relays are available for both AC and DC applications for overvoltage and undervoltage protection. Combination over/undervoltage relays provide band-pass capabilities. AC relays are either single or three-phase type. Three phase relays are designed to sense the average of the three phases. Voltage trip points are screwdriver adjustable, and operation is time-delayed so that momentary voltage transients will not cause nuisance tripping.

Operation

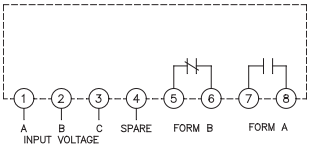
The relay will energize at normal voltage condition. The normally closed contact (Form B) will open and the normally open (Form A) will close. The relay will de-energize after time delay when over or undervoltage condition is reached.



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



Single Phase Models



Three Phase Models

Product Specifications

Nominal Voltage — 120 VAC to 575 VAC

Phase — Single or Three

Line Frequency — 50-400 Hz

Type of Sensing — Average of all three phases

Undervoltage Trip — 70-100% of nominal voltage, screwdriver adjustable

Overvoltage Trip — 100-125% of nominal voltage, screwdriver adjustable

Drop-out Time Delay — 0.5 to 20 seconds, screwdriver adjustable

Pick-up to Drop-out Differential — 2% maximum

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 +70˚C

Power Consumption — 4 VA maximum

Notes:

1. Remove black screw for access to the voltage trip and time delay adjustment potentiometer.
2. Clockwise rotation of the voltage adjustment potentiometer will raise the voltage trip point.
3. Clockwise rotation of the time adjustment potentiometer will increase the drop-out time delay.

Ordering Information

Sample Part Number ▶ **WOUVT -1 -120AC**

Type:
WOUVT - Over/Undervoltage

No. Phases
1 = Single
3 = Three (line to line)

Line Voltage VAC
115
120
200
208
220
230
240
380

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

Option "H" provides for contacts rating of 3 amps @ 125VDC.

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

Consult factory for additional models.

Catalog 5-1773450-5
Revised 3-13

www.te.com

Dimensions are shown for reference purposes only. Specifications subject to change.

Dimensions are in millimeters unless otherwise specified.

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For additional support numbers please visit www.te.com

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TE Connectivity:

WOUVT-3-575AC WOUVT-3-480AC WOUVT-1-115AC WOUVT-1-120AC-H WOUVT-1-120AC-P WOUVT-1-240AC WOUVT-3-120AC WOUVT-3-240AC-H WOUVT-3-208AC WOUVT-1-240AC-H WOUVT-3-240SX-A WOUVT-3-416AC WOUVT-1-120AC WOUVT-1-480AC WOUVT-1-208AC WOUVT-3-200AC