VOLTAGE MONITOR RELAYS

VW SERIES VOLTAGE BAND

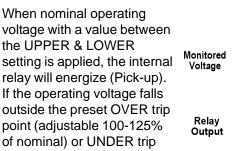


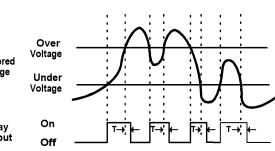
- Monitors AC single phase and DC voltages
- Provides voltage band (window) protection
- Wide range of user-adjustable Over Voltage and Under Voltage settings
- Fixed or adjustable time delay on drop-out
- LED indicates output relay status
- Compact plug-in case utilizing industry standard 8 pin octal socket
- ♦ 10A DPDT output contacts





Voltage Band Relays provide protection to equipment that is required to operate within an upper & lower voltage limit. As long as the operating voltage remains within an OVER & UNDER voltage range, the internal relay stays energized. If the operating voltage falls outside this range, the relay will drop-out.



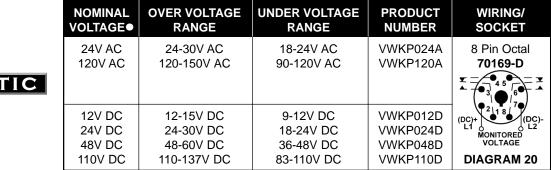


point (adjustable 75-100% of nominal) for a period longer than the drop-out time delay (T), the relay will de-energize (Drop-out). When the voltage returns to normal (within the preset OVER & UNDER trip points), the unit automatically resets and the relay energizes. Choose between a unit with fixed drop-out time of 500ms or one with an adjustable 0.5-10 second drop-out time.

Fixed Drop-Out Time Delay (500ms)

NOMINAL VOLTAGE●	OVER VOLTAGE RANGE		UNDER VOLTAGE RANGE		PRODUCT NUMBER		WIRING/ SOCKET	
24V AC		4-30V AC	18-24V AC		VWP024A		8 Pin Octal	
120V AC	12	0-150V AC	90-120V <i>i</i>	AC	VWP12	0A	70169-D	
12V DC 24V DC		2-15V DC 4-30V DC	9-12V D 18-24V D		VWP01 VWP02		(DC)+ (DC)- L1 MONITORED	
48V DC 110V DC	_	8-60V DC)-137V DC	36-48V E 83-110V I		VWP04 VWP11		VOLTAGE DIAGRAM 20	

Adjustable Drop-Out Time Delay 0.5 - 10 Seconds



Contact Macromatic for information on units above 120V.



VOLTAGE MONITOR RELAYS

VW SERIES VOLTAGE BAND APPLICATION DATA & DIMENSIONS

APPLICATION DATA

Voltage Tolerance:

+25%/-50% of nominal voltage; AC voltages are 50-60Hz; No separate supply (input) voltage is required.

Load (Burden): Less than 3VA

Voltage Settings:

Over Voltage: 100-125% of Nominal Voltage Under Voltage: 75-100% of Nominal Voltage

Temperature:

-28° to 55° C (-20° to 131° F)

Indicator LED: Red Steady when Relay is energized; Green

when Relay is Off.

Reset: Automatic. Contact Macromatic for information on how

to order a unit with Manual Reset.

Response Times:

Operate: 500ms

Release: Fixed 500 ms (VWP Series)

Adjustable 0.5 -10 Seconds (VWKP Series)

Output Contacts:

10A Resistive @ 240V AC/30V DC, 1/2HP @ 240V AC (N.O.), 1/3HP @ 240V AC (N.C.)

Life:

Mechanical: 10,000,000 operations Full Load: 100,000 operations

Transient Protection:

10,000 volts for 20 microseconds

File #E109466

Approvals:

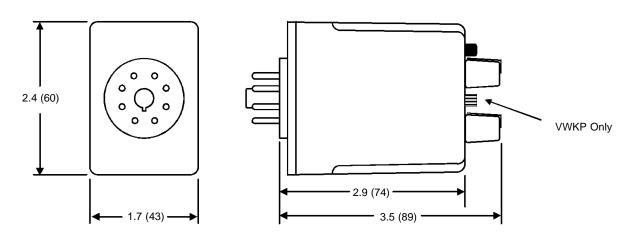






with appropriate Macromatic socket File #E109466

DIMENSIONS



All Dimensions in Inches (Millimeters)