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

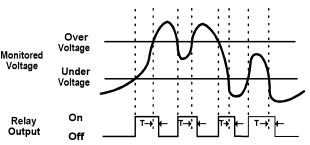


(with appropriate socket)

MACROMATIC

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.

When nominal operating voltage with a value between the UPPER & LOWER setting is applied, the internal relay will energize (Pick-up). If the operating voltage falls outside the preset OVER trip point (adjustable 100-125% of nominal) or UNDER trip



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)

OVER VOLTAGE RANGE	UNDER VOLTAGE RANGE	PRODUCT NUMBER	WIRING/ SOCKET		
24-30V AC	18-24V AC	VWP024A	8 Pin Octal		
120-150V AC	90-120V AC	VWP120A	70169-D $ \begin{array}{c} $		
12-15V DC 24-30V DC 48-60V DC 110-137V DC	9-12V DC 18-24V DC 36-48V DC 83-110V DC	VWP012D VWP024D VWP048D VWP110D	(DC)+ MONITORED VOLTAGE DIAGRAM 20		
	RANGE 24-30V AC 12P-150V AC 12-15V DC 24-30V DC 48-60V DC	RANGE RANGE 24-30V AC 18-24V AC 120-150V AC 90-120V AC 12-15V DC 9-12V DC 24-30V DC 18-24V DC 48-60V DC 36-48V DC	RANGE RANGE NUMBER 24-30V AC 18-24V AC VWP024A 12p-150V AC 90-120V AC VWP120A 12p-15V DC 9-12V DC VWP012D 24-30V DC 18-24V DC VWP024D 48-60V DC 36-48V DC VWP048D		

Adjustable Drop-Out Time Delay 0.5 - 10 Seconds

		1		
NOMINAL	OVER VOLTAGE	UNDER VOLTAGE	PRODUCT	WIRING/
VOLTAGE●	RANGE	RANGE	NUMBER	SOCKET
24V AC 120V AC	24-30V AC 120-150V AC	18-24V AC 90-120V AC	VWKP024A VWKP120A	8 Pin Octal 70169-D $\begin{array}{c} & & \\$
12V DC	12-15V DC	9-12V DC	VWKP012D	(DC)+
24V DC	24-30V DC	18-24V DC	VWKP024D	MONITORED
48V DC	48-60V DC	36-48V DC	VWKP048D	VOLTAGE
110V DC	110-137V DC	83-110V DC	VWKP110D	DIAGRAM 20

Contact Macromatic for information on units above 120V.



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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.

<u>Reset</u>: 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:

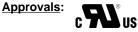
10A Resistive @ 240V AC/30V DC, 1/2HP @ 240V AC (N.O.), 1/3HP @ 240V AC (N.C.)

Life:

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

Transient Protection:

10,000 volts for 20 microseconds

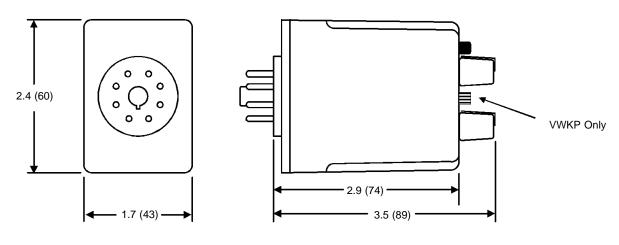




File #E109466

with appropriate Macromatic socket File #E109466

DIMENSIONS



All Dimensions in Inches (Millimeters)