

VOLTAGE MONITOR RELAYS

VWKPU Series

Universal Voltage/True RMS Sensing

Voltage Band Relay

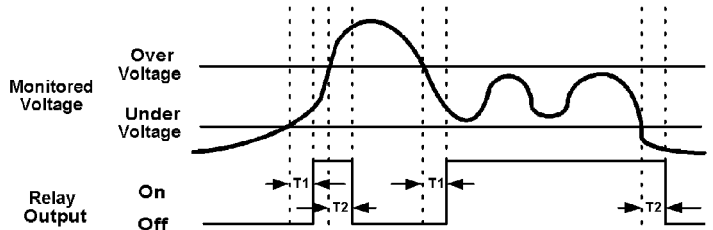


- u Monitors 208-240VAC single phase voltage
- u Provides voltage band (window) protection
- u Wide range of user-adjustable Over Voltage and Under Voltage settings
- u Adjustable time delay on pick-up and drop-out
- u LED indicates output relay status
- u Compact plug-in case utilizing industry standard 8 pin octal socket
- u 10A SPDT output contacts



(with appropriate socket-Listing Pending)

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.



The VWKPU Series can be used to monitor any 208-240VAC single phase voltage. When nominal operating voltage is applied with a value between the over and under points for a period longer than the time delay (T1), 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 (T2), the relay will de-energize (Drop-out). When the voltage returns to normal within the preset OVER & UNDER trip points for a period longer than the time delay (T1), the unit automatically resets and the relay energizes.

Adjustable Nominal Voltage Setting 208-240 VAC
Adjustable Time Delay on Pick-up & Drop-Out from 0.1 - 10 Seconds

NOMINAL VOLTAGE	UNDER VOLTAGE RANGE	OVER VOLTAGE RANGE	PRODUCT NUMBER	WIRING/SOCKET
208-240V AC	75-100% of Nominal Voltage Setting	100-125% of Nominal Voltage Setting	VWKPU	8 Pin Octal 70169-D L1 MONITORED VOLTAGE L2 DIAGRAM 150



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VWKPU Series Voltage Band relays

Application Data & Dimensions

Application Data

Voltage Tolerance:

+50%/-40% of nominal voltage; AC voltages are 50-60Hz;
No supply (input) voltage is required.

Load (Burden): Less than 3VA

Voltage Settings:

Over Voltage: 100-125% of Normal Voltage

Under Voltage: 75-100% of Normal Voltage

Temperature:

-28° to 65° C (-20° to 150° F)

Output Contacts:

SPDT: 10A Resistive@240VAC/30VDC, 1/2 HP@120/240VAC

Life:

Mechanical: 10,000,000 operations

Full Load: 100,000 operations

Response Times:

Power Up: 2 seconds fixed delay

Operate: 0.1 - 10 seconds adjustable

Release: 0.1 - 10 seconds adjustable

Indicator LED: Red steady when relay is energized; Green when relay is off; Green rapid flashing when in power-up mode.

Reset: As standard, reset is automatic upon correction of a fault.

Approvals:



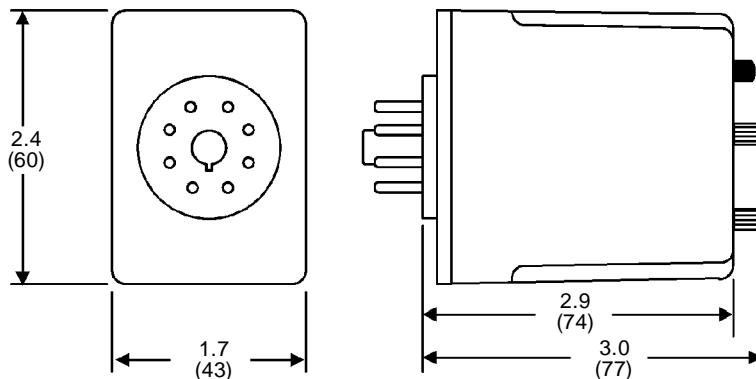
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When used with
Macromatic
Socket 70169-D
(Pending)

File #E109466

Dimensions



All Dimensions in
Inches (Millimeters)