

VOLTAGE BAND (WINDOW)

12-120V | VW SERIES

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: Operating: -28° to 55°C (-18° to 131°F)
Storage: -40° to 85°C (-40° to 185°F)

Indicator LED: Red Steady when Relay is energized; Green when Relay is Off.

Reset: Automatic

Response Times:

Operate: 500ms

Release: Fixed 500 ms (VWP Series)
Adjustable 0.5 -10 Seconds (VWKP Series)

Output Contacts:

10A @ 240V AC/30V DC, 1/2HP @ 120/240V AC (N.O.),
1/3HP @ 120/240V AC (N.C.) B300

Life:

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

Transient Protection:

10,000 volts for 20 microseconds

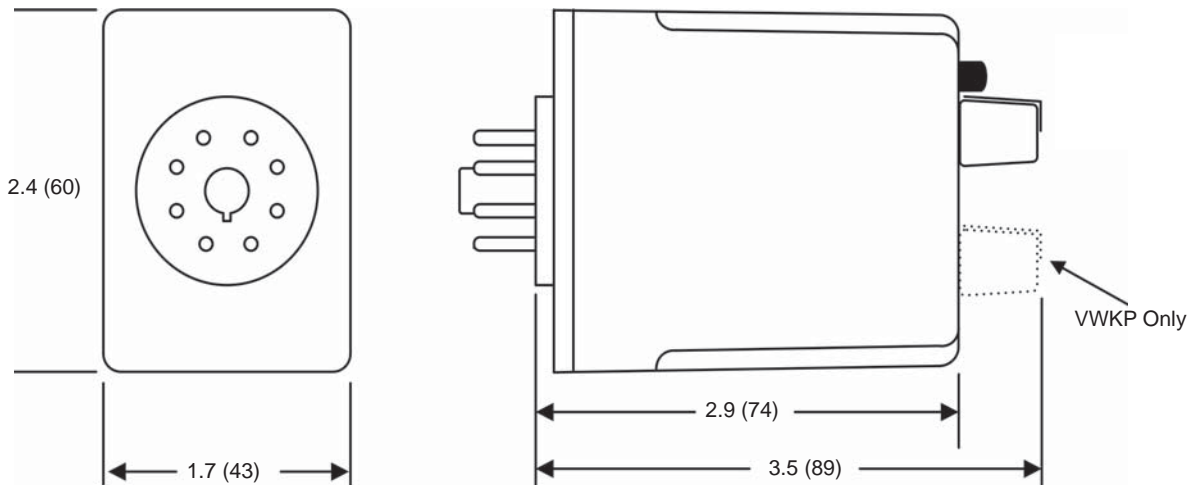
Approvals:

Low Voltage & EMC Directives
EN60947-1, EN60947-5-1



with appropriate socket
File #E109466

DIMENSIONS



All Dimensions in
Inches (Millimeters)

VOLTAGE BAND (WINDOW)

208-240V | VWKPU SERIES



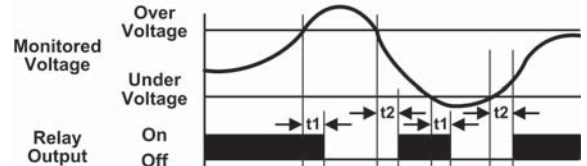
- ◆ Monitors 208-240V AC single phase voltage
- ◆ Provides voltage band (window) protection
- ◆ Wide range of user-adjustable Over Voltage and Under Voltage settings
- ◆ Independently adjustable time delay on Pick-Up and Drop-Out
- ◆ LED indicates output relay status
- ◆ Compact plug-in case utilizing industry standard 8 pin octal socket
- ◆ 10A SPDT output contacts



with appropriate socket

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

The VWKPU can be used to monitor any 208, 220 or 240V AC single phase voltage. The relay will energize (pick-up) when the voltage falls within 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 pick-up time delay (t_1). If the operating voltage falls outside the preset OVER or UNDER trip points for a period longer than the drop-out time delay (t_2), the relay will de-energize (drop-out). When the voltage returns to normal (within the preset OVER and UNDER trip points) for a period longer than the pick-up time delay (t_1), the unit automatically resets and the relay energizes. The pick-up time (t_1) and drop-out time (t_2) are independently adjustable.



Adjustable Nominal Voltage Setting 208-240V AC
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, 220 & 240V AC | 75-100% of Nominal Voltage Setting | 100-125% of Pick-Up Setting | VWKPU | 8 PIN OCTAL 70169-D MONITORED VOLTAGE DIAGRAM 150 |

Sockets & Accessories available



Better. By Design.

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