



# PHASE & VOLTAGE PROTECTION RELAY VP-002

## MAIN FEATURES

- The VP-002 is a range of phase failure/phase sequence/under voltage/overvoltage protection relays to continuously monitor AC power supplies both single phase and three phase.
- Output relay will operate to ON (pin 1 & pin 3 close) when power is applied to the unit normally, and simultaneously detect if supplied power voltages (single or three phase) are within the set voltage range, and phase in correct sequence for three phase type.
- 0% to 20% Knob-adjustable separately for over voltage and under voltage. If voltage is over or under than the setting voltage for over 3 second, then the output relay will be released to its original position (pin 1 & pin 4 close).

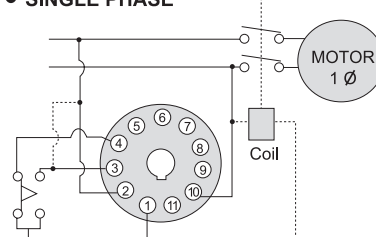


## SPECIFICATIONS

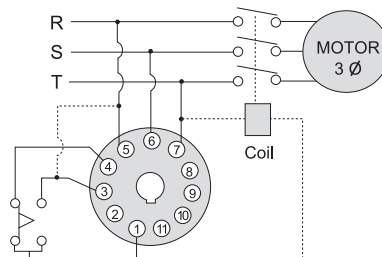
ITEM NO.	VP-002-1 SINGLE PHASE	VP-002-3 THREE PHASE
RATED VOLTAGE	AC 110V, 220V, 230V 380V, 415V, 440V	AC 220V, 230V, 380V 415V, 440V
FREQUENCY	50 or 60 Hz	
RESPONSE TIME OF RELAY	DELAY ON : 0.5 Sec DELAY OFF : 3 Sec	
CONTACT RATING	250V AC 5A (P.F. =1)	
MOUNTING & SOCKET	SURFACE : PF-113AE	
RESET TIME	0.2 Sec Max.	
AMBIENT TEMP.	-10°C ~ -55°C	
SETTING ERROR	±10% MAX.	
REPEAT ERROR	± 2 % MAX.	
VOLTAGE ERROR	± 2 % MAX.	
TEMP. ERROR	± 2 % MAX.	

## CONNECTION DIAGRAM

### ● SINGLE PHASE

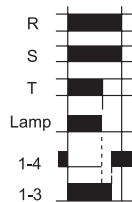


### ● THREE PHASE

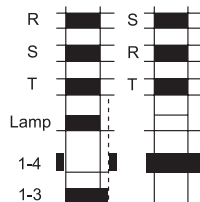


## OPERATION CHART

### A. Phase Failure



### B. Phase sequence



### C. Over & under voltage

