

AVR

3-PHASE(SINGLE PHASE) **VOLTAGE RELAY** User's Manual

RESTRICTIONS ON USE

When using this product in applications that require particular safety or when using this product in important facilities, please pay attention to the safety of the overall system and equipment. Install failsafe mechanisms, perform redundancy checks and periodic inspections and adopt other appropriate safety measures when it is necessary.

SAFETY PRECAUTION This manual uses the following symbols to ensure safe operation of this product.

Warnings are indicated when mishandling this product might result in death or serious injury to user. **↑** WARNING

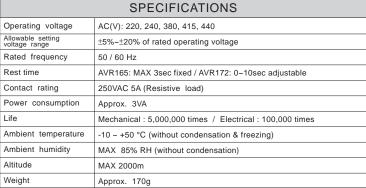
Cautions are indicated when mishandling this product might result in minor injury to the user, or only physical damage to the timer. **⚠** CAUTION

⚠ WARNING

- Note this incorrect wiring of this product can damage it and lead to other hazards. Make sure the product has been correctly wired before turning the power ON.
- Before wiring, or removing / mounting the product, be sure to turn the power OFF. Failure to do so might cause electric shock
- Do not touch electrically charged parts such as the power terminals. Doing so might cause electric shock.
- Do not disassemble the product. Doing so might cause electric shock or faulty operation.

⚠ CAUTION

- Use the product within the operating ranges recommended in the specification (temperature, humidity, voltage, shock, mounting direction, atmosphere and etc.). Failure to do so might cause fire or faulty operation.
- Make sure the product is firmly connected to the socket. Failure to do so might cause electric shock or fire.



STATUS(Red) Status Indicator ANLY ANLY AC LINE VOLTAGE RELAY AC LINE VOLTAGE RELAY Reset OVER Over voltage value setting Reset delay time setting UNDFR Delay Under voltage value setting

INDICATIONS

NAMES AND FUNCTIONS OF FACEPLATE

Tripping delay time setting

POWER(Green) Power Indicator

SETTING PROCEDURE

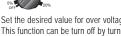
1. Over voltage3seRtesgt delay setting

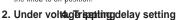


Set the desired value for over voltage. This function can be turn off by turning the knob to off position.



Set the desired value for reset delay time.







Set the desired value for under voltage This function can be turn off by turning the knob to off position.



Set the desired value for tripping delay time.

1. STATUS

Normal: When the voltage is within the set over and under level, balance, phase sequence, and all phase are present, then the red LED starts lighting.

Over: • - - - • -If the voltage rises above the adjusted over level then the red LED starts blinking once and go out three times.

Under: • • - - • •

If the voltage drops below the adjusted under level then the red LED starts blinking twice and go out twice.

2. POWER

A green LED indicates the presence of the power supply voltage.

Unbalance: • • • - • • - If the voltage is unbalance then the red LED starts blinking three times and go out once.

Phase reverse : • • • • • •

If the phase reverse then the red LED starts to keep blinking

Phase loss : - - - - -

If the phase loss then the red LED starts to go out.

CONNECTION

AVR165-11T / AVR172-11T AVR165-11S / AVR172-11S AVR165-8T / AVR172-8T AVR165-8TR / AVR172-8TR | AVR165-8S / AVR172-8S 12 L3 AC ⊸ S AC -0 L2 -o T (5⁶7 -0 L3 (5) (4) (5) (4) (5) (4) ○ N <u>(8)</u> 6 6 3 6 9 (9) (2) (2) 2 7 (7) (7) 200 1) (8)

TIMING CHART DIMENSION(mm) 3-PHASE SINGLE PHASE N.O. (1-3, 10-9) POWER LAMP POWER 73.3 16.1