



AEVR

MULTI-FUNCTIONABLE DIGITAL VOLTAGE CONTROLLER

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 fail-safe 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.

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

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.

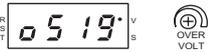
CAUTION

- 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.

| SPECIFICATIONS | | NAMES AND FUNCTIONS OF FACEPLATE | |
|-----------------------------------|---|----------------------------------|------------------------------|
| Operating voltage | AC/DC : 100 ~ 240V | Display | Voltage indicator |
| Allowable operating voltage range | 85 ~ 110% of rated operating voltage | Phase sequence | Time indicator in second |
| Rated frequency | 50 / 60 Hz | Under voltage setting | Over voltage tripping delay |
| Contact rating | 250VAC 5A (Resistive load) | Over voltage setting | Under voltage tripping delay |
| Display | Display resolution $\pm 1\%$ | Setting values display | Manual reset |
| Power consumption | Approx. 3.3VA | | Function settings |
| Life | Mechanical : 5,000,000 times / Electrical : 100,000 times | | |
| Ambient temperature | -10 ~ +50 °C | | |
| Ambient humidity | MAX 85% RH | | |
| Weight | Approx. 135g | | |

SETTING PROCEDURE

1. Over voltage Setting



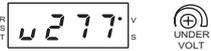
Set the desired value for over voltage. The display will show existing 3-phase voltages after 10 seconds.

3. Over voltage tripping delay setting



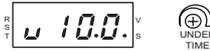
Set the tripping delay for over voltage. The display will show existing 3-phase voltages after 10 seconds.

2. Under voltage Setting



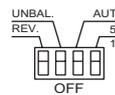
Set the desired value for under voltage. The display will show existing 3-phase voltages after 10 seconds.

4. Under voltage tripping delay setting



Set the tripping delay for under voltage. The display will show existing 3-phase voltages after 10 seconds.

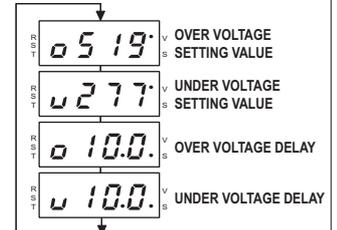
5. The function of DIP switches



| | | |
|--------|-----|---------------------------|
| REV. | ON | Reverse phase protected |
| | OFF | Reverse phase unprotected |
| UNBAL. | ON | Unbalance protected |
| | OFF | Unbalance unprotected |
| AUTO | ON | Auto reset |
| | OFF | Manual reset |
| 5S/1S | ON | Auto reset delay 5 sec |
| | OFF | Auto reset delay 1 sec |

6. Setting values display

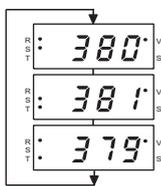
By pressing "TEST" button, all setting value will be shown ordinarily as follows. The display will show existing 3-phase voltages after 10 seconds.



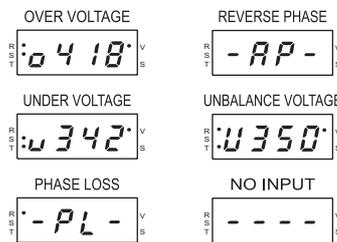
DISPLAY

1. 3-phase voltages display

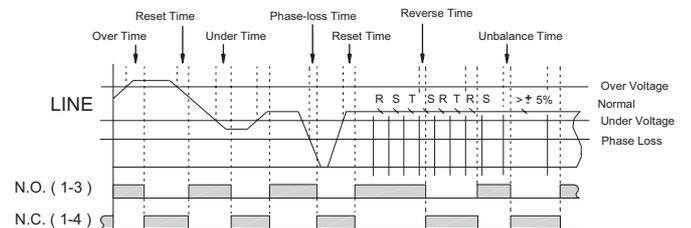
The existing 3-phase voltages will be shown ordinarily every 3 seconds as follows.



2. Fault indications

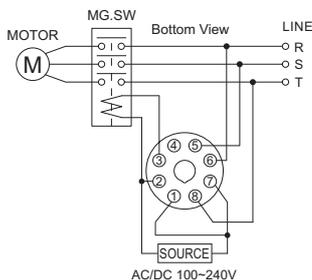


TIMING CHART

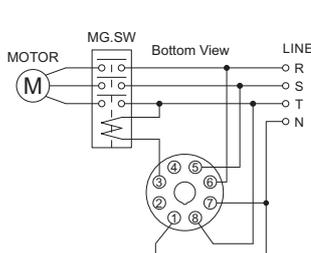


CONNECTION

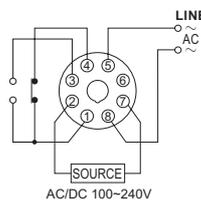
3-Phase 3-Wire



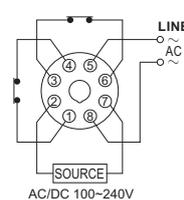
3-Phase 4-Wire



1-Phase 2-Wire 1C



2b



DC Voltage

