



EP4-2

MULTI FUNCTION 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 fail-safe mechanisms, perform redundancy checks and periodic inspections and adopt other appropriate safety measures when it is necessary. This product is rated at Class II \square .

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.

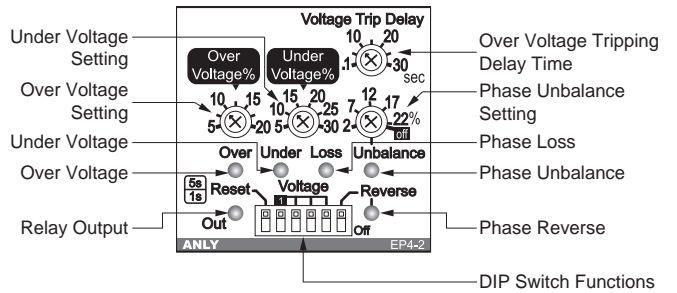
CAUTION

- 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.
- Firmly tighten the wires to the terminal. Insufficient tightening of the wires to the terminal might cause fire.

SPECIFICATIONS

Operating voltage	L-L : AC 200 - 480V	L-N : AC 115 - 277V
Allowable operating voltage range	70 ~ 120% of rated operating voltage	
Rated frequency	50 / 60 Hz	
Contact rating	250VAC 5A (Resistive load)	
Power consumption	Approx. 2.8VA(220VAC), Approx. 3.6VA(380VAC)	
Life	Mechanical : 5,000,000 times / Electrical : 100,000 times	
Ambient temperature	-10 ~ +50 °C (without condensation & freezing)	
Ambient humidity	MAX 85% RH (without condensation)	
Altitude	MAX 2000m	
Weight	Approx. 136g	

NAMES AND FUNCTIONS OF FACEPLATE



SETTING PROCEDURE

1. Voltage Trip Delay Time



Set the desired trip delay time from 0.1 sec to 30 sec.

3. Under Voltage Setting



Set the desired Under Voltage trip point, from 5% to 30% of the rated voltage

2. Over Voltage Setting



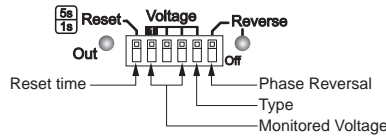
Set the desired Over Voltage trip point, from 5% to 20% of the rated voltage

4. Phase Unbalance Setting



Set the desired Phase Unbalance trip point, from 2% to 22% or turned off

5. DIP Switch Functions

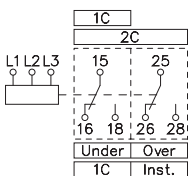


5S/1S	ON <input type="checkbox"/>	Auto reset with 5 sec delay
	OFF <input type="checkbox"/>	Auto reset with 1 sec delay
Type	ON <input type="checkbox"/>	L-N (L1-L2-L3-N)
	OFF <input type="checkbox"/>	L-L (L1-L2-L3)
REV.	ON <input type="checkbox"/>	Phase reversal protection On
	OFF <input type="checkbox"/>	Phase reversal protection Off

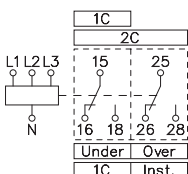
Monitored Voltage		
	L - L	L - N
<input type="checkbox"/>	200	115
<input type="checkbox"/>	220	127
<input type="checkbox"/>	230	133
<input type="checkbox"/>	240	138
<input type="checkbox"/>	380	220
<input type="checkbox"/>	400	230
<input type="checkbox"/>	415	240
<input type="checkbox"/>	480	277

CONNECTION

L-L (L1-L2-L3)



L-N (L1-L2-L3-N)



TIMING CHART

