



# ANLY CONTROLLER

## EP4-2 MULTI FUNCTION VOLTAGE RELAY



### CHARACTERISTIC :

- Switching Mode Power Supply architecture
- High immunity to inverters' high frequency noise
- 3-phase 3-wire and 3-phase 4-wire selectable via DIP switch
- multi-voltage selectable via DIP switch (please see table below)
- Over Voltage trip point from 5 to 20%
- Under Voltage trip point from 5 to 30%
- Voltage Trip Delay from 0.1 to 30 sec.
- Voltages Unbalance detection with a fixed 3 sec. trip delay
- Voltages Unbalance trip point from 2 ~ 22% or turned off Phase Lost detection with 0.2 sec trip delay
- Phase Reversal detection prior to load engagement or turned off via DIP switch
- Auto reset time selectable between 1 and 5 sec.

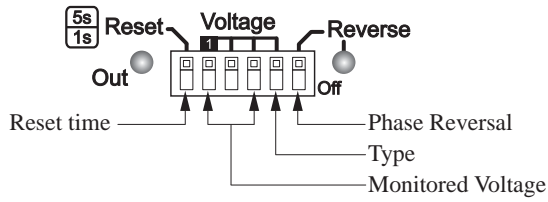
### SPECIFICATION :

Operating voltage	EP4-2A: L-N: AC 115 - 277V L-L: AC 200 - 480V EP4-2B: L-N: AC 110 - 277V L-L: AC 190 - 480V
Allowable operating voltage range	70 ~ 120% of rated operating voltage
Rated frequency	50 / 60 Hz
Detecting method	Detect 3-phase supply voltage
Contact rating	250VAC 5A (resistive load)
Power consumption	Approx. 2.8VA (220VA) Approx. 3.6VA (380VA)
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

### TYPE SELECTION :

Monitored Voltage	Output contact
<b>EP4 - 2</b>	<b>A</b>
<b>A=</b>	<b>1</b>
L - N: 115, 127, 133, 138, 220, 230, 240, 277	1=1C No-Fault 2=1C Fault 3=2C Over&Under Fault 4=2C Inst.&No-Fault 5=2C No-Fault 6=2C Over&Under No-Fault
L - L: 200, 220, 230, 240, 380, 400, 415, 480	
<b>B=</b>	
L - N: 110, 127, 133, 138, 220, 240, 254, 277	
L - L: 190, 220, 230, 240, 380, 415, 440, 480	

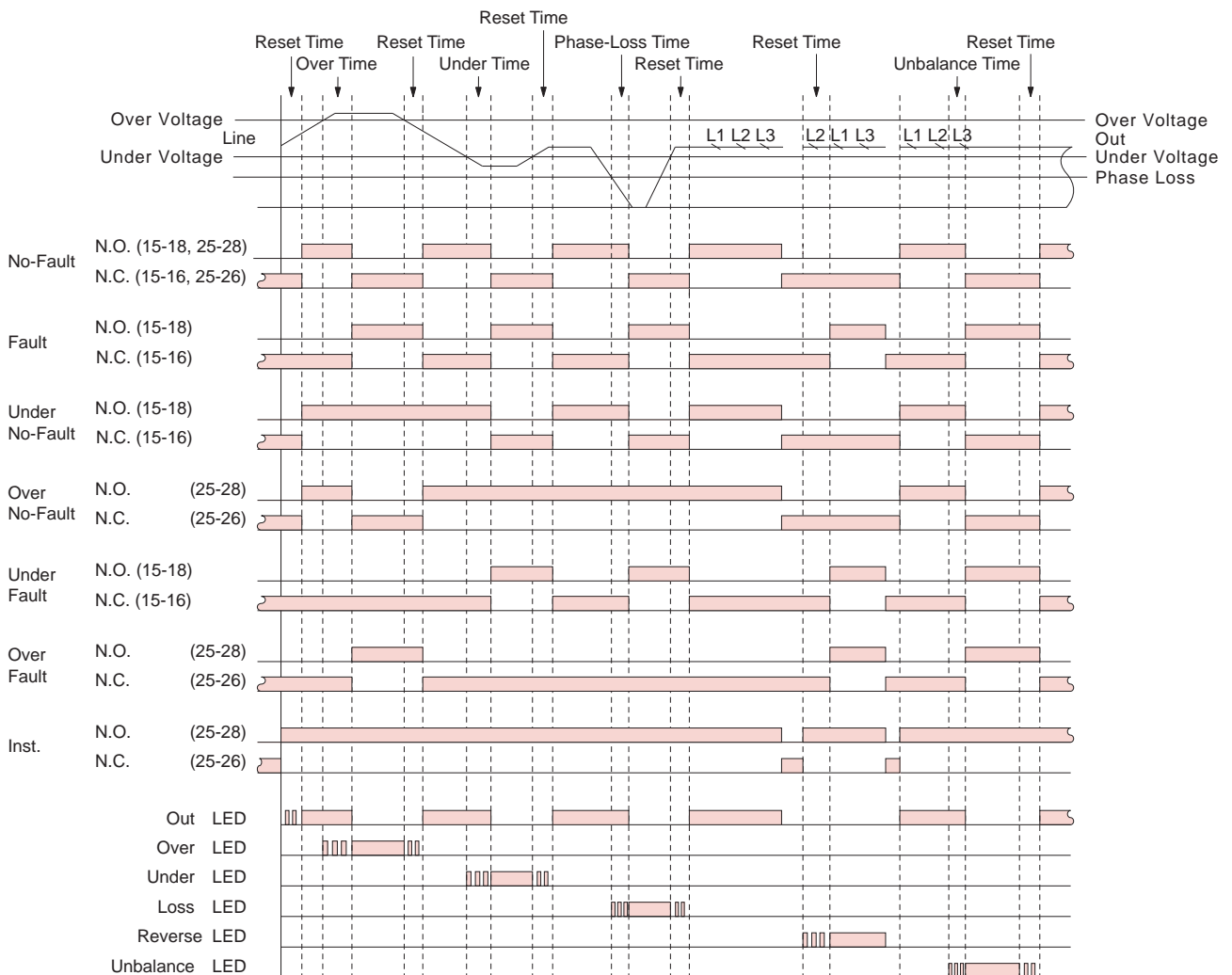
## DIP SWITCH FUNCTIONS :



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	EP4-2A		EP4-2B	
	L - N	L - L	L - N	L - L
<input type="checkbox"/>	115	200	110	190
<input type="checkbox"/>	127	220	127	220
<input type="checkbox"/>	133	230	133	230
<input type="checkbox"/>	138	240	138	240
<input type="checkbox"/>	220	380	220	380
<input type="checkbox"/>	230	400	240	415
<input type="checkbox"/>	240	415	254	440
<input type="checkbox"/>	277	480	277	480

## TIMING CHART :



## CONNECTION :

EP4-2□1

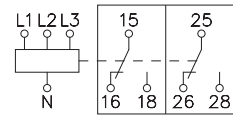
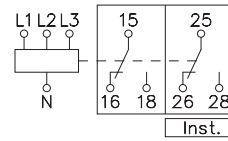
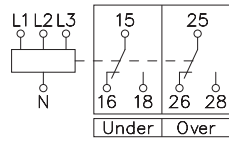
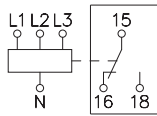
EP4-2□3

EP4-2□4

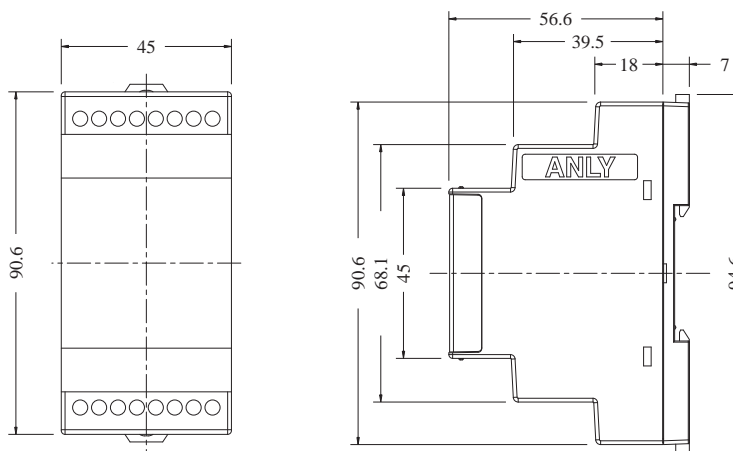
EP4-2□5

EP4-2□2

EP4-2□6



## DIMENSIONS : (mm)



Tolerance:±0.1

## ANLY ELECTRONICS CO., LTD.

<http://www.anly.com.tw>

**TAIWAN MAIN OFFICE : ANLY ELECTRONICS CO., LTD.**

No.19, Lane 202, Fushou St., Xinzhuang Dist., New Taipei City 242, Taiwan  
TEL: +886-2-2996-3202 FAX: +886-2-2996-2017

**HONG KONG OFFICE : ANLY ELECTRONICS (HK) LTD.**

Flat K, 13/F, Edward Mansion, 141 Prince Edward Road W., Kowloon, Hong Kong  
TEL: +852-2397-2505 FAX: +852-2397-6080

**CHINA OFFICE : ANLY TECHNOLOGY (WUXI) CO., LTD.**

2F, Building A, Plot 1, No. 28, Zhanhong Rd., Xinwu Dist., Wuxi, Jiangsu, P.R.China  
TEL: +86-510-85304801~3

**MALAYSIA OFFICE : JUSTY ELECTRONICS (M) SDN, BHD.**

No.1, Jalan 6/89B, Kawasan Perindustrian Trisegi, Batu 3 1/2 Off Jalan Sungei Besi, 57100 Kuala Lumpur, Malaysia  
TEL: +60-3-7983-5758 FAX: +60-3-7981-5052

**INDONESIA OFFICE : PT. ANLY ELECTRONICS INDONESIA**

Jl. Pangeran Jayakarta 117/B9, Jakarta Pusat, 10730 Indonesia  
TEL: +62-21-624-8436 FAX: +62-21-626-1228

NO. EP42-W-A