

# 3 PHASE VOLTAGE & CURRENT PROTECTION RELAY with 2 ALARMS / RS-485

# GRVA

## FEATURES

- Measuring 3 phase Volt, Current, Phase Sequence Status, Phase Failure Indicator
- Display range: -19999~99999; decimal point selectable
- Alarm functions for Over Voltage / Under Voltage / Over Current / Under Current
- 2 Alarms output / RS-485 communication optional (The above option can be exist together)
- Alarm Latch / Phase Sequence Detection / Phase Failure Detection function available
- DIN case: 96 x 96 mm
- High stability, non-flammable case (PC), high safety



## ORDER INFORMATION: GRVA- [Code 1] [Code 2] [Code 3] - [Code 4] - [Code 5] [Code 6] [Code 7] [Code 8]

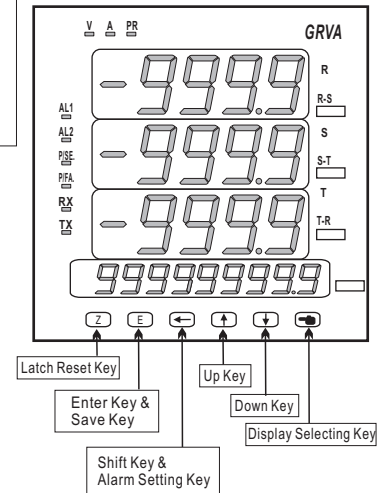
Code 1	Connection	Code 2	Input Volt	Code 3	Input Amp	Code 4	Aux. Power	Code 5	Alarm Output	Code 6	Phase Sequence Output	Code 7	Phase Failure Output	Code 8	RS-485
1	3 $\phi$ Voltage	N	None	N	None	A	AC/DC 100~240V	N	None	N	None	N	None	N	None
2	3 $\phi$ Current	1	0~150V	1	0~5A	B	DC 22~60V	R1	1 Relay	Y	Yes	Y	Yes	Y	Yes
3	3 $\phi$ Voltage & Current	2	0~300V	O	Option			R2	2 Relays						
		3	0~600V												
		O	Option												

## SPECIFICATION

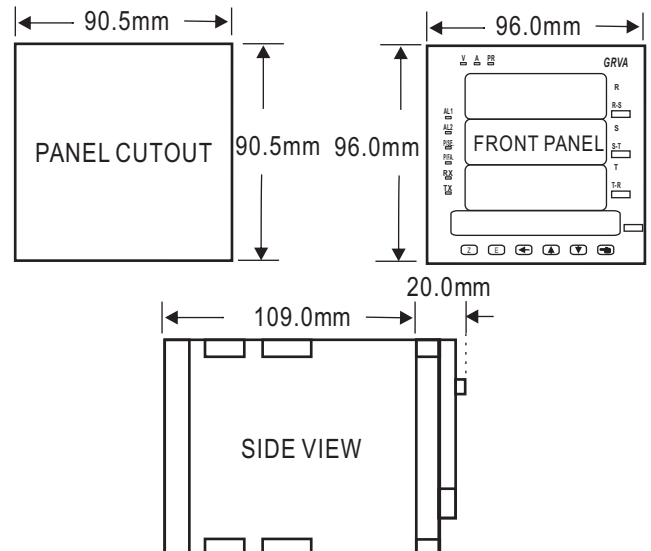
- ◆ Accuracy:  $\pm 0.25\%$  for V  
 $\pm 0.25\%$  for A
- ◆ Measuring Range: 3P3W, 3P4W systems  
Voltage: 0~600Vac  
Current: 0~5Aac  
Frequency: 50/60 Hz
- ◆ Display Screen: High brightness LED; 14.22mm (0.56")  
High brightness LED; 10.2mm (0.4")
- ◆ Sampling Time: 1 cycle / sec
- ◆ Display Range: -19999~99999
- ◆ Display Phase Sequence: "R S T" or "R T S"
- ◆ Parameters Setting: Push buttons
- ◆ Back Up Memory: EEPROM
- ◆ Alarm Action: " $\geq$  (Hi) on" or "< (Lo) on"
- ◆ Alarm Run Delay Time: 0~99 sec
- ◆ Relay Contact: AC 277V / 7A; DC 30V / 7A
- ◆ Communication: RS-485 Modbus RTU mode
- ◆ Baud Rate: 19200 / 9600 / 4800 / 2400 bps
- ◆ Temperature Coefficient: 100ppm /  $^{\circ}$ C (0~60 $^{\circ}$ C)
- ◆ Operating Temperature: 0~60 $^{\circ}$ C
- ◆ Operating Humidity: 20~90% RH (non-condensing)
- ◆ Storage Temperature: -10~70 $^{\circ}$ C
- ◆ Storage Humidity: 20~90% RH (non-condensing)
- ◆ Power Supply: AC/DC 100~240V; DC 22~60V
- ◆ Power Consumption: 10VA (all functions output)
- ◆ Surge Test: 1kVac / 1min (Input / Power)  
3kVac / 1min (Terminals / Case)
- ◆ Insulation Resistance: >100M $\Omega$  with 500Vdc
- ◆ Input Impedence: Voltage: >2V for 20K $\Omega$  / V;  $\leq 2V$  for >200M $\Omega$   
Current:  $\geq 0.2A$  at 100mV; <0.2A at 1V
- ◆ Safety: IEC 61000-4-2

## FRONT PANEL & KEY FUNCTIONS

V: Voltage Indicator  
A: Current Indicator  
PR: Protection Acting Indicator  
AL1: Alarm 1 Indicator  
AL2: Alarm 2 Indicator  
P/SE.: Phase Sequence Indicator  
P/FA.: Phase Failure Indicator  
RX: RX Indicator  
TX: TX Indicator

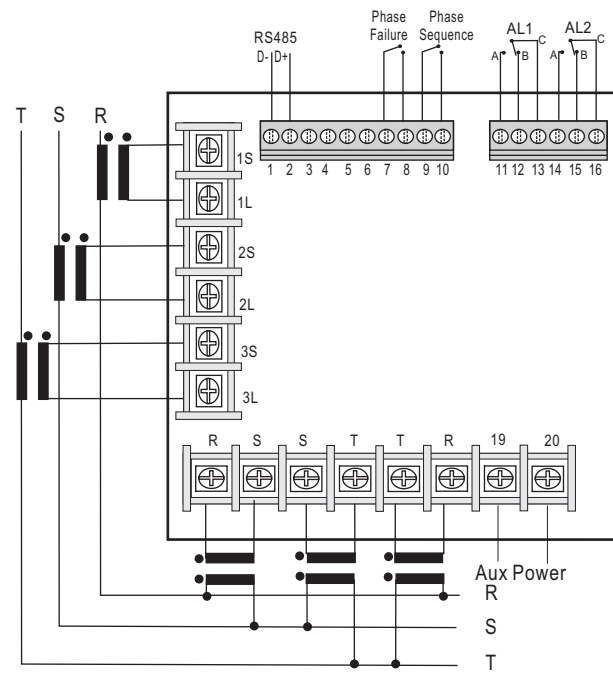


## DIMENSION



# WIRING CONNECTION

● 3φ3W



● 3φ4W

