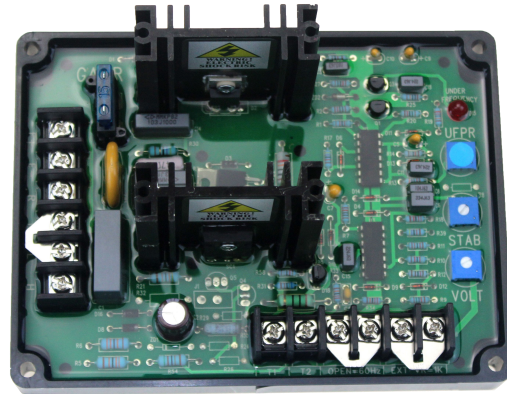


# GAVR SERIES SPECIFICATION

Universal 1/2Wave Self Excited  
Dip-Switch Programmable Automatic  
Voltage Regulator

## Features

- ❖  $<\pm 0.5\%$  Regulation
- ❖ 220/400VAC Programmable Input
- ❖ Rugged Compact Design
- ❖ With Under Frequency Protection
- ❖ Soft Start Voltage Ramping
- ❖ EMI Suppression
- ❖ Built-in High Capacity 12Amp Fuse



## Specifications

|                         |                                         |                         |
|-------------------------|-----------------------------------------|-------------------------|
| <b>Sensing Input</b>    | Voltage                                 | 220/400VAC, 1phase2wire |
| <b>Power Input</b>      | Voltage                                 | 180~240VAC, 1phase2wire |
| <b>Output</b>           | Voltage                                 | Max.90VDC@240VACinput   |
| <b>Volts Regulation</b> | $< \pm 0.5\%$ (with 4%engine governing) |                         |

|                                   |                                                 |
|-----------------------------------|-------------------------------------------------|
| <b>Voltage Build-up</b>           | Residual 1volts at AVR terminal $> 5V$ AC       |
| <b>External Volts Adjustment</b>  | $\pm 7\%$ with 1K $\Omega$ 1 watt trimmer       |
| <b>Soft Start Ramp Time</b>       | 3sec                                            |
| <b>Unit Power Dissipation</b>     | Max.8Watt                                       |
| <b>EMI Suppression</b>            | Internal Electromagnetic Interference Filtering |
| <b>Thermal Drift</b>              | 0.05% per $^{\circ}C$ change in AVR ambient     |
| <b>Under Frequency Protection</b> | 60Hz system presets knee point at 57Hz          |
| <b>(Factory Settings)</b>         | 50Hz system presets knee point at 47Hz          |

| model    | continuous | 10seconds |
|----------|------------|-----------|
| GAVR-20A | 12A        | 20A       |
| GAVR-15A | 10A        | 15A       |
| GAVR-12A | 8A         | 12A       |
| GAVR-8A  | 5A         | 8A        |

## Environment

Vibration 3G@ 100~2K Hz  
Operating Temperature -40~65  $^{\circ}C$

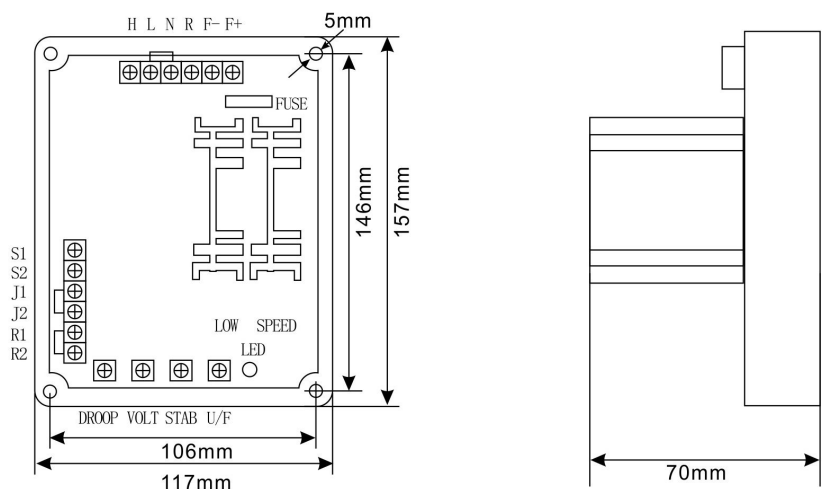
Relative Humidity  $< 95\%$   
Storage Temperature -40-85  $^{\circ}C$

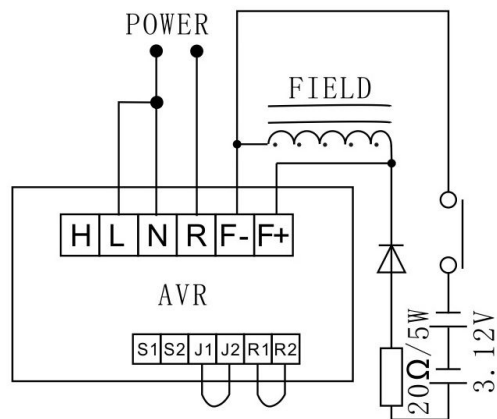
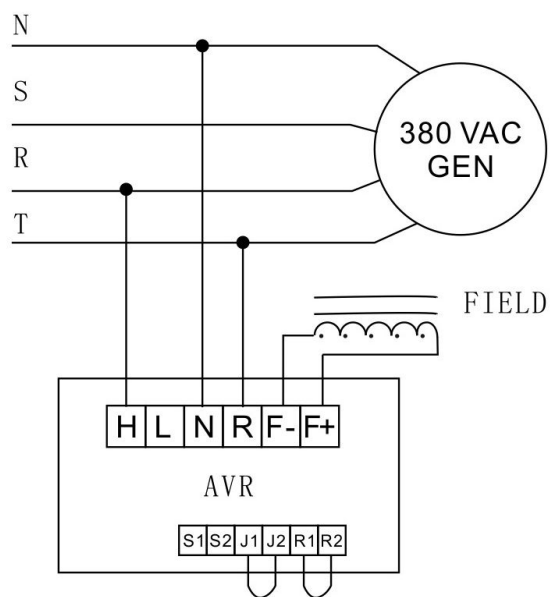
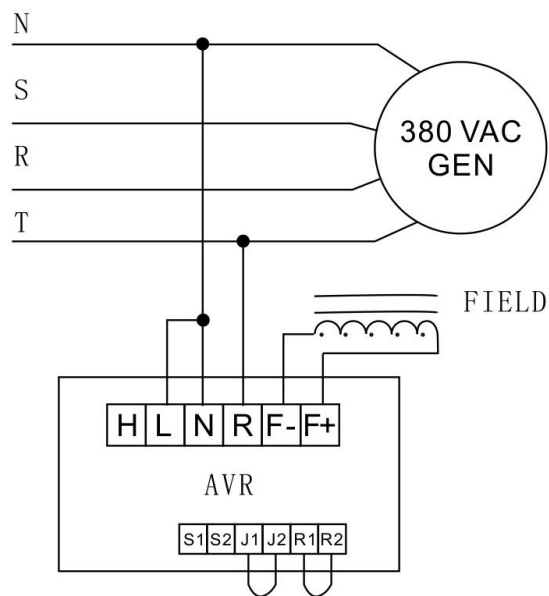
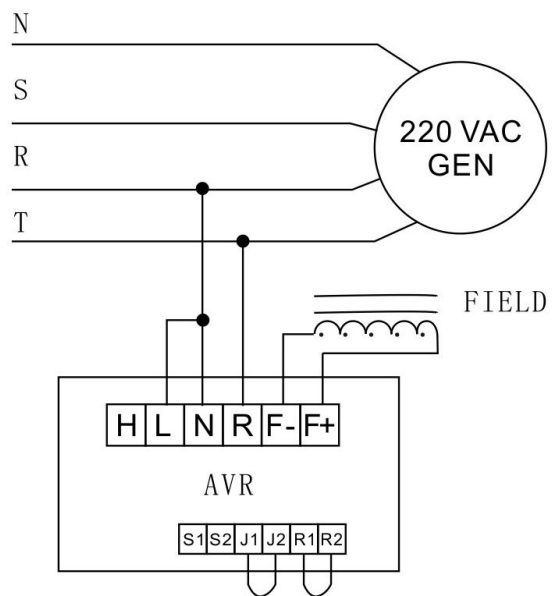
## AVR Controls

VOITS Voltage Adjustment  
STAB Stability Adjustment  
U/F To Set the U/F\* Knee Point  
DROOP To set the reactive power  
\*U/F: Under Frequency Protection

## Physical Specifications

Dimensions 157.0(L)117.0(W)70.0(H)mm





- 1、 J1,J2,OPEN=60Hz
- 2、 J1,J2,CLOSE=50Hz
- 3、 R1,R2 to connect 1K/0.5W potentionmeter for remote adjuston
- 4、 S1,S2 to connect 0.1A CT for parallel apply