

# GAVR-20A

Universal 20 Amp 1/2 Wave Self Excited Dip-Switch Programmable Automatic Voltage Regulator

## Features

- $\pm 0.5\%$  Regulation
- 220/400 VAC Programmable Input
- Rugged Compact Design
- With Under Frequency Protection
- Soft Start Voltage Ramping
- EMI Suppression
- Built-in High Capacity 20Amp Fuse



## Specifications

|                              |   |  |  |
|------------------------------|---|--|--|
| <b>Sensing Input Voltage</b> | 220/400VAC, 1 phase 2 wire                    | <b>Voltage Build-up</b>                              | Residual volts at AVR terminal > 5VAC  |
| <b>Power Input Voltage</b>   | 180-240VAC, 1 phase 2 wire                    | <b>External Volts Adjustment</b>                     | $\pm 7\%$ with 1K $\Omega$ 1 watt trimmer  |
| <b>Output Voltage</b>        | Max. 90VDC @ 240VAC input                     | <b>Soft Start Ramp Time</b>                          | 3sec.  |
| <b>Output Current</b>        | Continuous 15A<br>Intermittent 20 A for 10SE. | <b>Unit Power Dissipation</b>                        | Max. 8Watt   |
| <b>Resistance</b>            | Min. 10 $\Omega$ Max. 100 $\Omega$            | <b>EMI Suppression</b>                               | Internal Electromagnetic Interference Filtering                                  |
|                              |   | <b>Thermal Drift</b>                                 | 0.05% per $^{\circ}\text{C}$ change in AVR ambient                               |
|                              |   | <b>Under Frequency Protection (Factory Settings)</b> | 60Hz system presets knee point at 57Hz<br>50Hz system presets knee point at 47Hz |

**Volts Regulation**  $\pm 0.5\%$  (with 4% engine governing)

## Environment

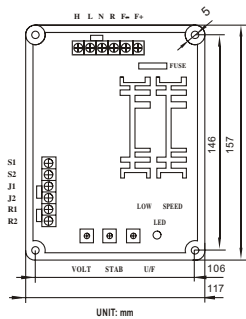
Vibration 3G @ 100-2K Hz

Relative Humidity < 95%

Operating Temperature -40~65 $^{\circ}\text{C}$

Storage Temperature -40~85 $^{\circ}\text{C}$

## Mechanical Specifications



## AVR Controls

- VOLTS** Voltage Adjustment
  - STAB** Stability Adjustment
  - U/F** To Set the U/F \* Knee Point
- \*U/F: Under Frequency Protection

## Physical Specifications

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

