

# Self Excited Automatic Voltage Regulator

Compatible with Leroy Somer R230 regulator

## Features

- Voltage regulation less than +/-1%
- Economical compact design
- For use in 50/60 Hz brushless generators
- EMI suppression
- Under frequency protection
- Over excitation current shutdown
- 120 Vac optional



| Specifications   |         |                                    |  |                                  |                                       |
|--|---------|------------------------------------|--|----------------------------------|---------------------------------------|
| Sensing Input  | Voltage | 90 to 140 Vac @ 120 Vac            | Volts Regulation                             | Less than                        | +/-1% (with 4% engine governing)      |
|  |         | 1 phase 2 wire                     | Build Up Voltage                             | 6Vac resid                       | dual volts at power input terminal    |
|  | Frequen | cy 50/60 Hz                        | EMI Suppression                              | Internal el                      | lectromagnetic interference filtering |
| <b>Excitation Output</b>                                 | Voltage | Max. 100 Vdc @ power input 120 Vac | Static Power Dissip                          | ation N                          | Max. 6 watts                          |
| Current Continuous 3.5A Intermittent 5A for 10 seconds   |         |                                    | Under Frequency Protection (Factory Presets) |                                  |                                       |
| Resistance Min. 15 ohms                                  |         |                                    |  | A                                | Adjustable range 45/55 Hz             |
| External Voltage Adjustment Max. +/-5% @ 1K ohm 0.5 watt |         | Voltage Thermal Dr                 | ift L  | ess than 3% at temperature range |                                       |
|  |         | potentiometer                      |  | _                                | 40 to +70 °C                          |

# 75.0 50.0 18.0 1100 0V E+ E00.9 1100 VOLT 0 STAB 0 U/F VR HZ 0 5.8 Unit: mm

## **AVR Control Functions**

| VOLT | Voltage adjustment                            |
|------|---|
| STAB | Stability adjustment                          |
| U/F  | Setting under frequency protection knee point |

## Environment

| Operating Temperature | -40 to +60 °C         |  |
|-----------------------|-----------------------|--|
| Storage Temperature   | -40 to +85 °C         |  |
| Relative Humidity     | Max. 95%              |  |
| Vibration             | 1.5 Gs @ 5 to 30 Hz   |  |
|                       | 5.0 Gs @ 30 to 500 Hz |  |

## Physical Specifications

| Dimensions | 140.0 (L) x 75.0 (W) x 51.0 (H) mm        |
|------------|---|
| Weight     | 310 g +/-2%                               |
| Shock      | Withstands up to 20G in each X, Y, Z axes |

\*All manufacturer names and numbers are used for reference purpose only and do not imply that any part is the product of these manufacturer.



ISO 9001