ADVR-250

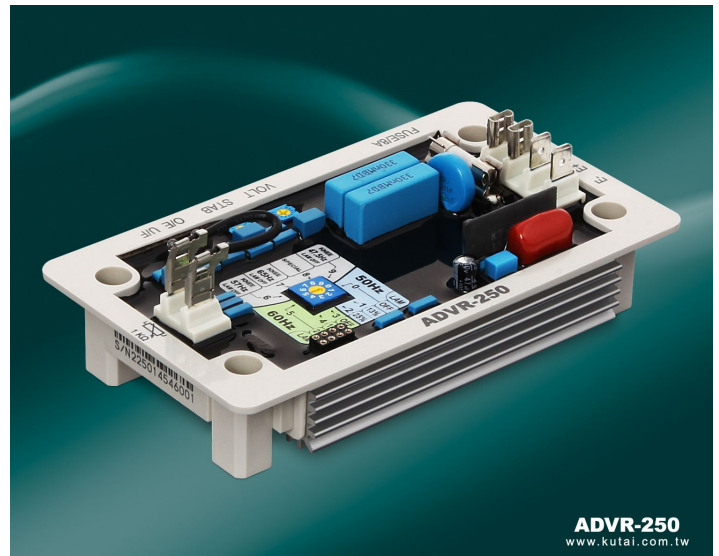## Hybrid Analog/Digital 2 lines sensing Automatic Voltage Regulator 5Amp

Compatible with Leroy Somer R250/R230 AVR

Features

- Compact size, robust and high reliability
- Innovative heat sink significantly increases cooling efficiency
- Load Acceptance Module (LAM) protection
- Soft start voltage ramping
- Over excitation protection
- EMI suppression
- Built-in high capacity fuse
- Digital circuit for voltage sensing and under frequency protection
- Effectively minimize the output voltage variations and under frequency knee point drifted affected by temperature changes
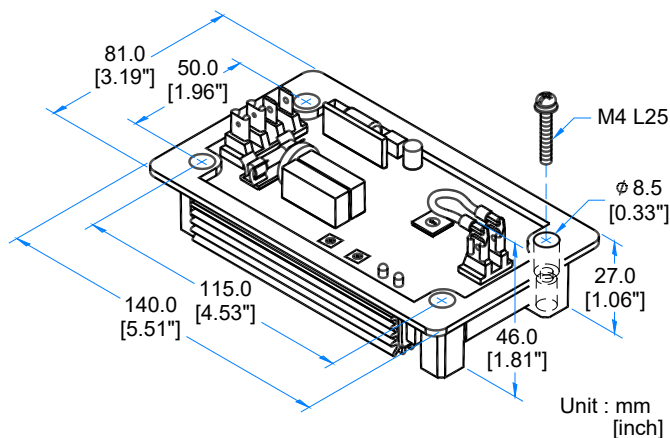

Specifications

Sensing Input	Voltage 85 to 140 Vac 1 phase 2 wire	**Typical System Response**	Less than 20 milliseconds
(Average Reading)	Frequency 50/60 Hz Potentiometer setting	**EMI Suppression**	Internal electromagnetic interference filtering
Excitation Output	120V 1 phase Continuous 63 Vdc 3.5A	**Static Power Dissipation**	Max. 4 watts
	Max. 110 Vdc 5A for 10 seconds	**Under Frequency Protection (Factory Presets)**	
	Resistance Min. 18 ohms Max. 100 ohms		50 Hz system knee point at 48 Hz
	Fuse Spec. Slow blow 5 x 20 mm 8A		60 Hz system knee point at 58 Hz
External Volts Adjustment	Max. +/-14% @ 1K ohm 1 watt potentiometer	**Over Excitation Current Limiting**	Excitation Current 5A +/-10%
Voltage Regulation	Less than +/-0.5% (with 4% engine governing)	**Voltage Thermal Drift**	Less than 3% at -40 to +70 °C
Build Up Voltage	5Vac 25Hz residual volts at power input terminal	**Under Frequency Knee Point Thermal Drift**	
Soft Start Ramp Time	3 seconds +/-10%		Less than +/-0.1 Hz at -40 to +70 °C

Dimensions

Unit : mm [inch]

Environment

Operating Temperature	-40 to +70 °C
Storage Temperature	-40 to +85 °C
Relative Humidity	Max. 95%
Vibration	5.5 Gs @ 60 Hz

Physical Specifications

Dimensions	140.0 (L) x 81.0 (W) x 46.0 (H) mm
	5.51 (L) x 3.19 (W) x 1.81 (H) inch
Weight	300 g +/-2%
	0.66 lb +/-2%

Accessories

M4L25 Screw	x 4
6.35 mm Flag type Terminal	x 1
6.35 mm connection PIN	x 2

*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
ETC