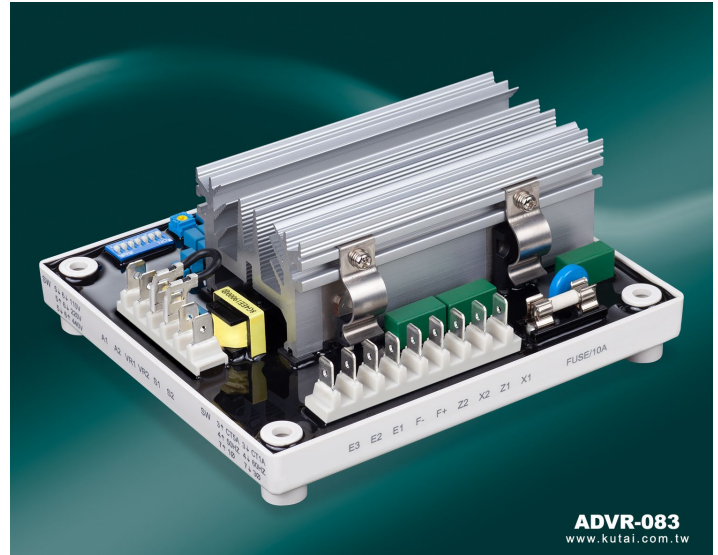


ADVR-083

Hybrid Analog / Digital Single Phase / Three Phase sensing Automatic Voltage Regulator 8Amp AVR for Brushless Generator

Features

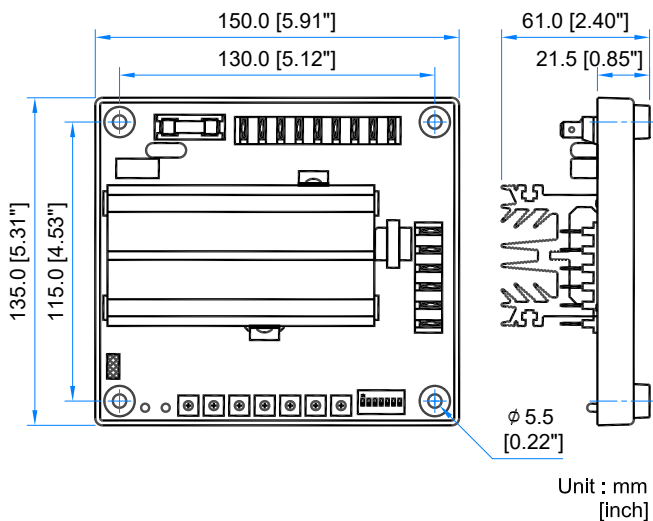
- Voltage Sensing Input and Power Input can be single-phase or 3-phase
- Over Excitation Protection // Under Frequency Protection // Soft Start voltage ramping
- Can be used with generators operating parallel
- Built-in high capacity protection fuse
- Built-in EMI suppression
- Can be used together with KUTAI [Auxiliary Excitation Booster](#) to increase motor starting capability of self-excited (shunt) generators
- 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 and Frequency DIP switch settings	Analogue Voltage Input	Input resistance greater than 2K ohms
(Average Reading)	Voltage 90 to 520 Vac 1 phase / 3 phase		Input range +/-5 Vdc or 0 to 10 Vdc
	Frequency 50/60 Hz	Build Up Voltage	Greater than 5Vac 25Hz residual volts input power
Power Input	Voltage 60 to 300 Vac 1 phase / 3 phase	Soft Start Ramp Time	4 seconds +/-10%
	Frequency 40 to 500 Hz	Voltage Regulation	Less than +/-0.5% (with 4% engine governing)
Excitation Output	110V 1 phase Continuous 63 Vdc 8A	Typical System Response	Less than 20 milliseconds
	Max. 90 Vdc 10A for 10 seconds	EMI	Built-in Harmonic suppression
	220V 1 phase Continuous 125 Vdc 8A	Static Power Dissipation	Max. 6 watts
	Max. 180 Vdc 10A for 10 seconds	Under Frequency Protection (Factory Presets)	
	220V 3 phase Continuous 150 Vdc 8A		50 Hz system knee point at 45 Hz
	Max. 215 Vdc 10A for 10 seconds		60 Hz system knee point at 55 Hz
Resistance	Min. 15 ohms Max. 100 ohms @ 220V	Over Excitation Protection	25 to 105% of input power (adjustable)
Fuse Spec.	Slow blow 5 x 20 mm 10A		The OE function can be turned off after 10 seconds delay
External Volts Adjustment	Max. +/-10% @ 1K ohm 1 watt potentiometer	Voltage Thermal Drift	Less than 3% from -40 to +70 °C
Quadrature Droop Input	CT N:5A or N:1A	Under-Frequency Knee Point Thermal Drift	
	Burden greater than 5 VA		Less than +/-0.1 Hz from -40 to +70 °C

Dimensions



Environment

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

Physical Specifications

Dimensions	150.0 (L) x 135.0 (W) x 61.0 (H) mm
	5.91 (L) x 5.31 (W) x 2.40 (H) inch
Weight	750 g +/-2%
	1.654 lb +/-2%

Accessories

M5L35 Screw	x 4
Jumper terminals	x 1



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