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
- Digital voltage sensing circuit and Under Frequency Protection circuit improve thermal drift characteristics
- 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 <u>Auxiliary Excitation Booster</u> to increase motor starting capability of self-excited (shunt) generators



Specifications			
Sensing Input	Voltage and Frequency DIP switch settings	Analogue Voltage Input Input resistance gr	eater than 2K ohms
(Average Reading)	Voltage 90 to 520 Vac 1 phase / 3 phase	Input range +/-5 Vo	dc or 0 to 10 Vdc
	Frequency 50/60 Hz	Build Up Voltage Greater than 5Vac 25Hz res	sidual 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 49)	% engine governing)
Excitation Output	110V 1 phase Continuous 63 Vdc 8A	Typical System Response Less than 20 millis	econds
	Max. 90 Vdc 10A for 10 seconds	EMI Built-in Harmonic s	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	e point at 45 Hz
	Max. 215 Vdc 10A for 10 seconds	60 Hz system knee	e point at 55 Hz
Re	esistance Min. 15 ohms Max. 100 ohms @ 220V	Over Excitation Protection 25 to 105% of input	t power (adjustable)
Fuse Spec. Slow blow 5 x 20 mm 10A The OE function can be turned off after 10 seconds		after 10 seconds delay	
External Volts Adjustm	nent Max. +/-10% @ 1K ohm 1 watt potentiometer	Voltage Thermal Drift Less than 3% from	-40 to +70 °C
Quadrature Droop In	put CT N:5A or N:1A	Under-Frequency Knee Point Thermal Drift	
	Burden greater than 5 VA	Less than +/-0.1 H	z from -40 to +70 °C

Dimensions Environment -40 to +60 °C **Operating Temperature** 150.0 [5.91"] 61.0 [2.40"] -40 to +85 °C **Storage Temperature** 21.5 [0.85"] 130.0 [5.12"] **Relative Humidity** Max. 95% Vibration 5.5 Gs @ 60 Hz **Physical Specifications** 135.0 [5.31"] 115.0 [4.53"] 150.0 (L) x 135.0 (W) x 61.0 (H) mm **Dimensions** 5.91 (L) x 5.31 (W) x 2.40 (H) inch Weight 750 g +/-2% 1.654 lb +/-2% Ø 5.5 Accessories [0.22"] M5L35 Screw Unit: mm [inch] Jumper terminals x 1



ISO 9001