ADVR-07FH

Universal Hybrid Analog-Digital Single Phase 7Amp Automatic Voltage Regulator

For Self-excited Brushless Generator

Features

- Digital voltage sensing circuit and Under Frequency Protection circuit improve thermal drift characteristics
- Excitation output Half Wave / Full Wave selectable
- Soft start voltage ramping
- Over excitation protection
- EMI suppression
- Built-in high capacity fuse



Specifica	tions						
Sensing Inp	out	Voltage 90 to	540 Vac 1 phase 2 wire	Soft Start F	Ramp Time	3 Second	ls +/- 10%
(Average Re	eadings)	Frequency 50) / 60 Hz DIP switch setting	Response	Time	Less than	n 20 ms
		Adjustment	90 - 130 Vac @ 110 Vac	EMI		Built-in el	ectromagnetic interference filter
		1	75 - 270 Vac @ 220 Vac	Voltage Th	ermal Drift	Less than	3% from -40 to +70 °C
		3	350 - 540 Vac @ 440 Vac	U/F Knee Po	oint Thermal Drift	Less than	n +/- 0.1 Hz from -40 to +70 °C
Power Input		Voltage 60 to 300 Vac 1 phase		Static Power Dissipation Max.		Max. 4 wa	atts
		Frequency 40) to 60 Hz	External Vo	ltage Adjustment	Max. +/- 1	0% @ 1 KΩ 1 watt potentiometer
Build Up Vo	ltage	Residual volta	age at power input > 5 Vac @ 25 Hz	Under Freq	uency Protection	50 Hz sys	stem knee point presets at 45 Hz
Voltage Regulation		Less than +/- 0.5% (with 4% engine governing)		(Factory Pr	esets)	60 Hz sys	stem knee point presets at 55 Hz
Excitation Output, Resistance, O/E Voltage Protection and DIP SW Setting							
	DIP SW3	Power	Excitation Output *1		Exciter Resis	stance	O/E Voltage Protection *2

	DIP SW3	Power Input	Excitation Output *1	Exciter Resistance	O/E Voltage Protection *2
Half Wave	ON	110 Vac	Continuous 31 Vdc 7A Max. 45 Vdc 10A 10 Sec	Min.4.5 Ohm, Max.100 Ohm	Excitation Voltage 43V +/-10%
		220 Vac	Continuous 63 Vdc 7A Max. 90 Vdc 10A 10 Sec	Min.9 Ohm, Max.100 Ohm	Excitation Voltage 85V +/-10%
Full Wave	OFF	110 Vac	Continuous 63 Vdc 7A Max. 90 Vdc 10A 10 Sec	Min.9 Ohm, Max.100 Ohm	Excitation Voltage 85V +/-10%
		220 Vac	Continuous 125 Vdc 7A Max. 180 Vdc 10A 10 Sec	Min.18 Ohm, Max.100 Ohm	Excitation Voltage 170V +/-10%

^{*1} Fuse specification 6.3 x 32 mm 10A Fast Blow type.

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

Physical Specifications				
Dimension	162.0 (L) x 112.0 (W) x 59.0 (H) mm			
	6.38 (L) x 4.41 (W) x 2.32 (H) inch			
Weight	640 g +/-2%			
	1.41 lb +/-2%			

Accessories		
Jumper terminals	x 1	
Jumper wire	x 2	



Dimensions

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^{*2} Excitation output will be turned off in 10 seconds time delay, Inverse-time curve. This function can be turned OFF.