

EA321

Permanent Magnet Generator Type AVR

Compatible with Newage Stamford MX321 regulator

Features

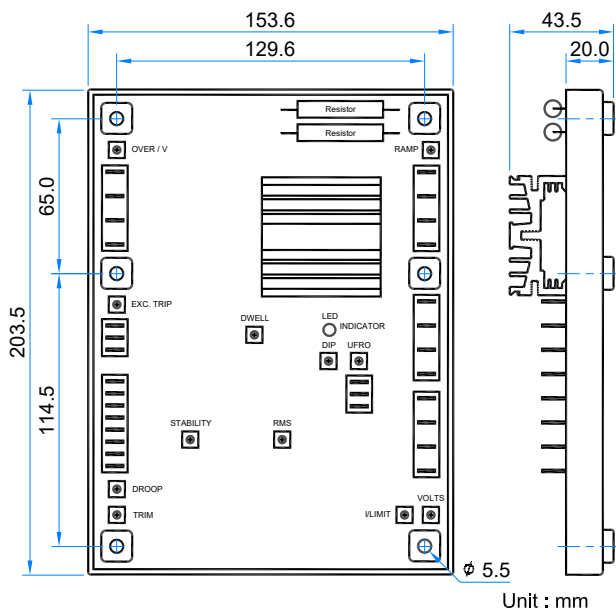
- Voltage regulation less than +/-0.5% RMS
- For use in parallel operation
- RAMP, DIP, DWELL, DROOP, RMS, U/F, Over Voltage & Over Excitation adjustment functions
- Over Exc. /Over Volt. & UFRO LED indicators
- Current limiting function



Specifications

Sensing Input	Voltage	190 to 264 Vac	3 phase	Analogue Voltage Input	Input resistance	1K ohm
	Frequency	50/60 Hz	selectable		Max. input	+/-5 Vdc
Power Input (PMG)	Voltage	170 to 220 Vac	3 phase 3 wire	Over Volt. Detector Input	Sensitivity	1V for 5% generator volts
	Current	3A / Phase			Set point	300V. Time delay 1 second (fixed)
	Frequency	100 to 120 Hz	nominal		CB trip coil volt	10 to 30 Vdc / 0.5 Amp
Excitation Output	Voltage	Max. 120 Vdc @ power input 220 Vac		Current Limit Input	Burden	10 ohms
	Current	Continuous 4A Intermittent 7A for 60 seconds			Sensitivity range	0.5 to 1A
	Resistance	Min. 15 ohms			Under Frequency Protection (Factory Presets)	Set point
External Volt. ADJ	Max. +/-10% @ 5K ohms	1 watt potentiometer	Slope	100 to 300% down to 30 Hz		
Voltage Regulation	Less than +/-0.5% RMS (with 4% engine governing)			Over Excitation Protection	Set point 120Vdc. Time delay 8 to 15 seconds	
Build Up Voltage	5Vac residual volts at power input terminal			Volt. Thermal Drift	Less than 5% at temperature range -40 to +70 °C	
Soft Start Ramp Time	0.4 to 4 seconds +/-10%			Environment	Operating Temperature -40 to +70 °C	
Static Power Dissipation	Max. 18 watts				Storage Temperature -40 to +85 °C	
Quadrature Droop Input	Burden	10 ohms	Max. input 0.33A		Relative Humidity Max. 95%	
	Max. sensitivity	0.22A for 5% droop (PF=0)			Vibration 3.3 Gs @ 100 to 2K Hz	

Dimensions



AVR Control Functions

VOLT	Voltage adjustment
STAB	Stability adjustment
UFRO	Setting under frequency protection knee point
DROOP	To set the Droop to 5% at PF=0
TRIM	To optimize analogue input sensitivity
EXC TRIP	Over excitation trip level set
DIP	Hz related voltage DIP set
DWELL	Hz related recovery time set
I / LIMIT	Stator current limit set
OVER / V	Over voltage trip level set
RAMP	No load voltage ramp set time
RMS	Root mean square of generator

Physical Specifications

Dimensions	203.5 (L) x 153.6 (W) x 43.5 (H) mm
Weight	530 g +/-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.



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