

EA321

Permanent Magnet Generator Type AVR

Compatible with Newage* Stamford MX321 regulator

*All manufacturer names, numbers, symbols and descriptions are used for reference purpose only and do not imply that any part is the product of these manufacturer.

Features

- Voltage Regulation $\pm 0.5\%$ 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



EA321
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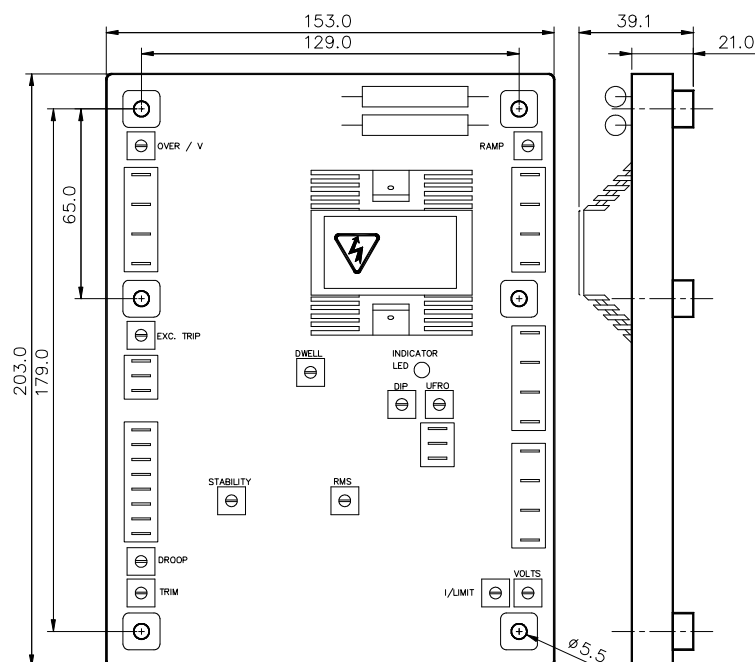
Specifications

Sensing Input	Voltage 190~264 VAC 2 or 3 phase Frequency 50/60 Hz selectable	Analogue Input	Max. input ± 5 VDC Sensitivity 1V for 5% generator volts Input Resistance 1 K Ω
Power Input (PMG)	Voltage 170~220 VAC 3 phase 3 wire Current 3A / phase Frequency 100~120 Hz nominal	Droop Input	Burden 10 Ω Max. sensitivity 0.22A for 5% droop (PF=0) Max. input 0.33A
Output	Voltage Max. 120 VDC Current Continuous 4A Intermittent 7A for 60 sec. Resistance Min. 15 Ω	Under Frequency Protection (Factory Setting)	Set point 95% Hz Slope 100~300% down to 30 Hz Max. Dwell 20% volts/sec. recovery
Voltage Regulation	$\pm 0.5\%$ RMS (with 4% engine governing)	Current Limit Input	Burden 10 Ω Sensitivity range 0.5~1A
Voltage Build-up	Residual volts at AVR terminal > 5 VAC	Over Voltage Detector Input	Set point 300V Time delay 1 sec. (fixed) CB trip coil volts 10~30 VDC / 0.5Amp
External Volts Adjustment	$\pm 10\%$ with 5 K Ω 1 watt trimmer	Over Excitation Protection	Set point 120 VDC Time delay 8~15 sec.
Unit Power Dissipation	Max. 18 watt		
Thermal Drift	0.05% per $^{\circ}\text{C}$ change in AVR ambient		
Soft Start Ramp Time	0.4~4 sec.		

Environment

Operation Temperature	-40~70 $^{\circ}\text{C}$	Relative Humidity	Maximum 95%
Storage Temperature	-40~85 $^{\circ}\text{C}$	Vibration	3.3G @ 100~2 KHz

Mechanical Specifications (Unit : mm)



AVR Control Function

VOLT	Output Voltage Adjustment
STAB	Stability Adjustment
UFRO	UFRO Knee Point Set
DROOP	To Set the Droop to 5% at PF=0
TRIM	To Optimize Analogue Input Sensitivity
EXC	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 Specification

Dimensions	203.0 (L) x 153.0 (W) x 39.1 (H) mm
Weight	530 g $\pm 2\%$



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