

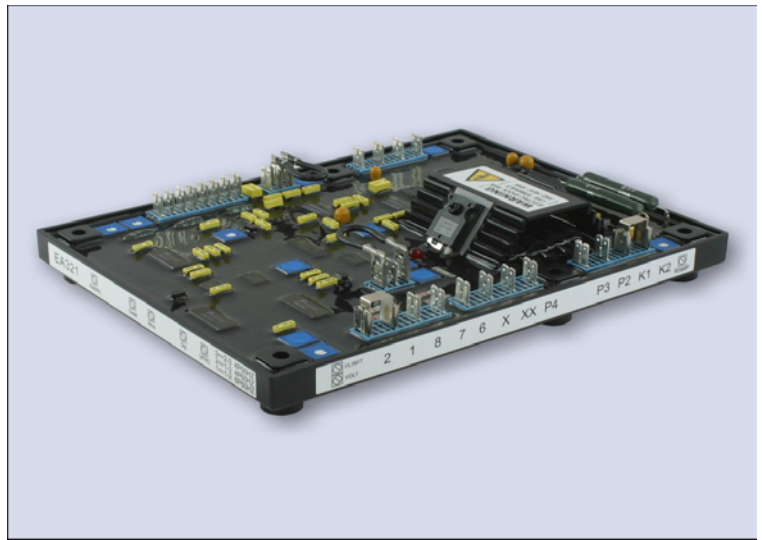
SS321

**Permanent Magnet Generator Type AVR
Compatible with Newage* Model MX321**

Features

- **< ±0.5% RMS Regulation**
- **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**

*Use for reference purpose only, not a genuine Newage product



Specifications

Sensing Input	Voltage	190 ~ 264 VAC, 2 or 3 phase	Unit Power Dissipation	Max. 18 watt
	Frequency	50 / 60 Hz selectable	External Volts Adjustment	±10% with 1KΩ 1 watt trimmer
Power Input	Voltage	170 ~ 220 VAC, 3 phase 3 wire	Over Excitation Protection	Set point 75 VDC, Time delay 8 ~ 15 sec.
	(PMG)	Current 3A / phase	Under Frequency Protection (UFRO)	Set point 95% Hz (Factory set) Slope 100 ~ 300 % down to 30 Hz
Output	Frequency	100 ~ 120 Hz nominal	Max. Dwll	20% volts/sec. recovery
	Voltage	Max. 120 VDC	Analogue Input	Max. Input ±5 VDC
	Current	Continuous 3.7A Intermittent 6A for 10 sec.	*Adjustable parameters	Sensitivity 1V for 5% generator volts*
	Resistance	Min. 15 Ω	Input Resistance	1K Ω
Voltage Regulation	< ±0.5% RMS (with 4% engine governing)	Droop Input	Burden	10 Ω
Voltage Build-up	Residual volts at AVR terminal > 5 VAC	Max. sensitivity	0.22A for 5% droop (PF=0)	
Soft Start Ramp Time	0.4 ~ 4 sec. adjustment	Max. input	0.33A	
Thermal Drift	0.05% per □ change in AVR ambient	Over Voltage Detector Input	Set point	300 V, Time delay 1sec.(fixed)
Current Limit Input	Burden: 10 Ω, Sensitivity range: 0.5 ~ 1A	CB Trip Coil Volts	10 ~ 30 VDC / 0.5Amp	

Environment

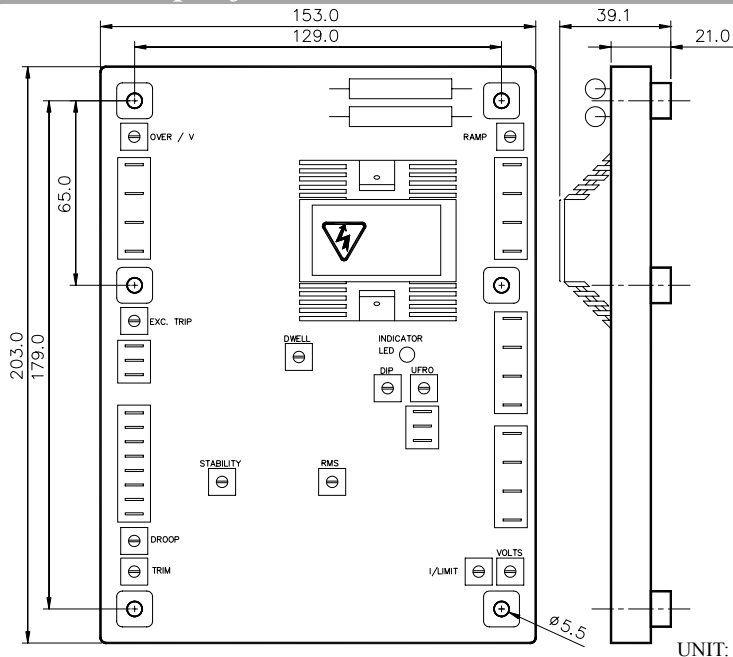
Vibration 3.3G @ 100 ~ 2 K Hz

Relative Humidity < 95%

Operating Temperature -40 ~ 70 □

Storage Temperature -40 ~ 85 □

Mechanical Specifications



AVR Controls	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 Specifications

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

Please link to <http://www.mcpersoncontrols.com> for detailed manual

UNIT: mm