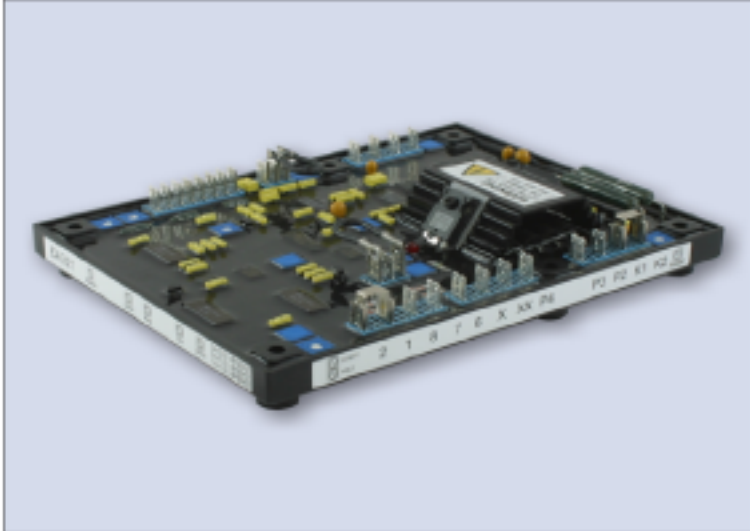


# TritonMX321

Permanent Magnet Generator Type AVR

Compatible with Model MX321



## Features

- $< \pm 0.5\%$  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

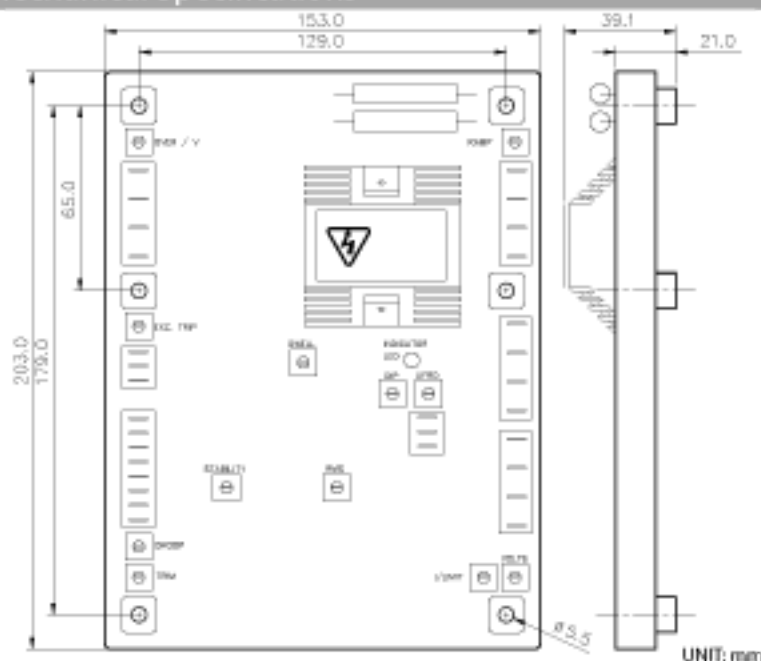
## Specifications

Sensing Input	Voltage	190 ~ 264 VAC, 2 or 3 phase	Unit Power Dissipation	Max. 18 watt
	Frequency	50 / 60 Hz selectable	External Volts Adjustment	$\pm 10\%$ with 1K $\Omega$ 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. Dwell	20% volts/sec. recovery
	Voltage	Max. 120 VDC	Analogue Input	Max. Input $\pm 5$ VDC
Voltage Regulation	Current	Continuous 3.7A Intermittent 6A for 10 sec.	*Adjustable parameters	Sensitivity 1V for 5% generator volts*
	Resistance	Min. 15 $\Omega$	Input Resistance	1K $\Omega$
Voltage Build-up	Residual volts at AVR terminal > 5 VAC		Burden	10 $\Omega$
Soft Start Ramp Time	0.4 ~ 4 sec. adjustment		Max. sensitivity	0.22A for 5% droop (PF=0)
Thermal Drift	0.05% per $\square$ change in AVR ambient		Max. Input	0.33A
Current Limit Input	Burden: 10 $\Omega$ , Sensitivity range: 0.5 ~ 1A		Over Voltage Detector Input	Set point 300 V, Time delay 1 sec.(fixed)
			CB Trip Coil Volts	10 ~ 30 VDC / 0.5Amp

## Environment

Vibration	3.3G @ 100 ~ 2 K Hz	Relative Humidity	< 95%
Operating Temperature	-40 ~ 70 $\square$	Storage Temperature	-40 ~ 85 $\square$

## 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 $\pm$ 2%