

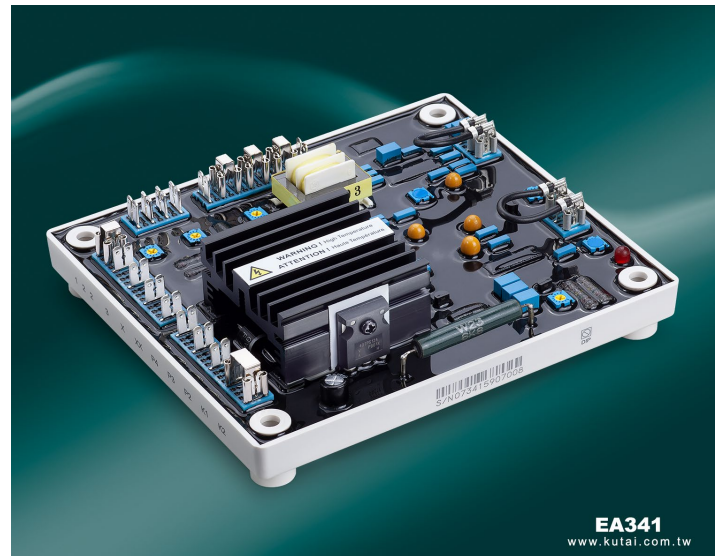
EA341

Permanent Magnet Generator Type AVR

Compatible with Newage Stamford MX341 regulator

Features

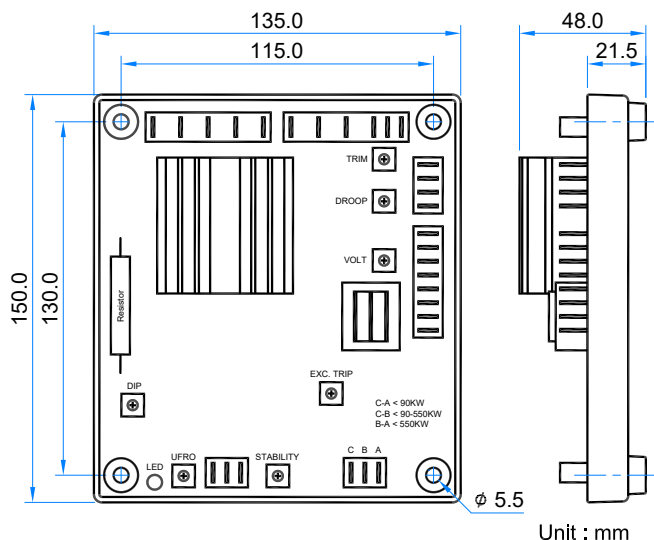
- Voltage regulation less than +/-1%
- 3 phase PMG power input
- For use in parallel operation
- Adjustable EXC TRIP, DIP, TRIM & DROOP functions
- Soft start voltage ramping
- Under frequency roll off protection
- UFRO & Over Excitation LED indicators



Specifications

Sensing Input	Voltage	190 to 264 Vac	1 phase 2 wire	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	Quadrature Droop Input	Sensitivity	1V for 5% generator volts	
	Current	3A / Phase			Burden	10 ohms	Max. Input 0.33A
	Frequency	100 to 120 Hz	nominal		Max. Sensitivity	0.07A for 5% droop (PF=0)	
Excitation Output	Voltage	Max. 120 Vdc @ power input 220 Vac		Over Volt. Detector Input	Set point	300V. Time delay 1 second (fixed)	
	Current	Continuous 2.7A Intermittent 6A for 10 seconds			CB trip coil volt	10 to 30 Vdc / 0.5 Amp	
	Resistance	Min. 15 ohms			CB trip coil resistance	20 to 60 ohms	
External Volt. ADJ	Max. +/-10% @ 1K ohm 1 watt potentiometer			Current Limit Input	Burden 10 ohms	Sensitivity range 0.5 to 1A	
Voltage Regulation	Less than +/-1% (with 4% engine governing)			Under Frequency Protection (Factory Presets)	Set point 95% Hz	Slope 170% down to 30 Hz	
Build Up Voltage	5Vac residual volts at power input terminal			Over Excitation Protection	Set point 90Vdc. Time delay 10 seconds (fixed)		
Soft Start Ramp Time	2 seconds +/-10%			Volt. Thermal Drift	Less than 3% at temperature range -40 to +70 °C		
Static Power Dissipation	Max. 12 watts						

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

Environment

Operating Temperature	-40 to +70 °C
Storage Temperature	-40 to +85 °C
Relative Humidity	Max. 95%
Vibration	3.3 Gs @ 100 to 2K Hz

Physical Specifications

Dimensions	150.0 (L) x 135.0 (W) x 48.0 (H) mm
Weight	394 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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