

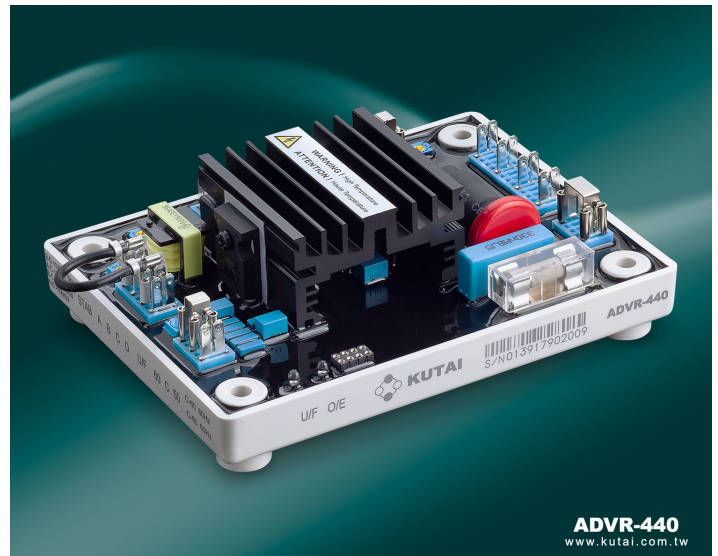
ADVR-440

Hybrid Analog/Digital Single Phase sensing Automatic Voltage Regulator

Compatible with Stamford AS440 AVR

Features

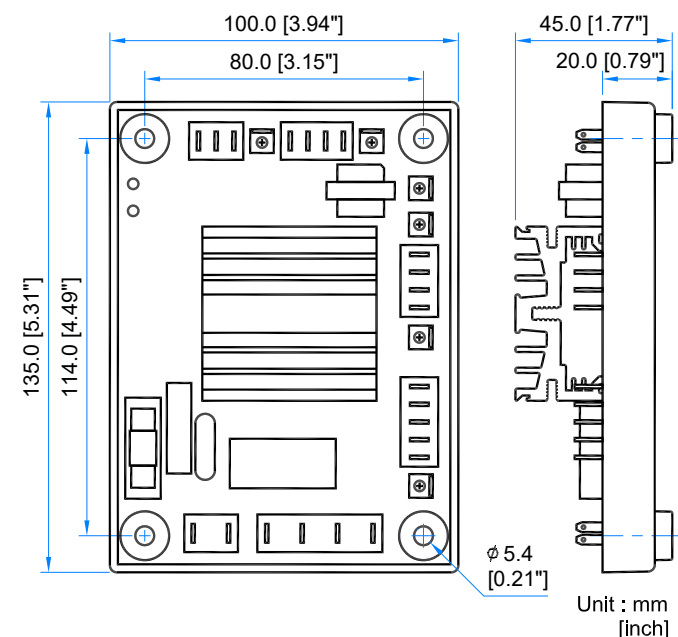
- Digital Voltage Sensing and Under Frequency Protection circuits
reduce thermal drift
- Soft start voltage ramping
- Over excitation protection
- Quadrature Droop Input for parallel operation
- EMI suppression
- Built-in high capacity fuse



Specifications

Sensing Input	Voltage 90 to 130 Vac @ 110 Vac 1 phase 2 wire	EMI Suppression	Internal electromagnetic interference filtering
(Average Reading)	Voltage 180 to 260 Vac @ 220 Vac 1 phase 2 wire	Static Power Dissipation	Max. 4 watts
	Frequency 50/60 Hz Jumper setting	Quadrature Droop Input	Max. sensitivity 0.07A for 5% droop Max. input 0.33A
Power Input	Voltage 40 to 300 Vac 1 phase 2 wire	Analogue Voltage Input	+/-5 Vdc or +10 Vdc, 5% @ 1 Vdc
	Frequency 40 to 60 Hz	Under Frequency Protection (Factory Presets)	
Excitation Output	Continuous 63 Vdc 4A @ 220 Vac 1 phase		50 Hz system knee point at 45 Hz 60 Hz system knee point at 55 Hz
	Max. 90 Vdc 7.5A for 10 seconds	Over Excitation Protection	Set point 20 to 55V @ 110V Set point 40 to 110V @ 110V
	Resistance Min. 15 ohms Max. 100 ohms	Voltage Thermal Drift	Less than 3% at -40 to +70 °C
	Fuse Spec. Slow blow 5 x 20 mm S505-6.3A	Under Frequency Knee Point Thermal Drift	Less than +/-0.1 Hz at -40 to +70 °C
External Volts Adjustment	Max. +/-10% @ 1K ohm 1 watt potentiometer		
Voltage Regulation	Less than +/-0.5% (with 4% engine governing)		
Build Up Voltage	5Vac 25Hz residual volts at power input terminal		
Soft Start Ramp Time	4 seconds +/-10%		
Typical System Response	Less than 20 milliseconds		

Dimensions



Environment

Operating Temperature	-40 to +60 °C
Storage Temperature	-40 to +85 °C
Relative Humidity	Max. 95%
Vibration	5.5 Gs @ 60 Hz

Physical Specifications

Dimensions	135.0 (L) x 100.0 (W) x 45.0 (H) mm 5.31 (L) x 3.94 (W) x 1.77 (H) inch
Weight	405 g +/-2% 0.89 lb +/-2%

Accessories

M5L35 Screw	x 4
Jumper terminals	x 1
Adjustment tool	x 1

*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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