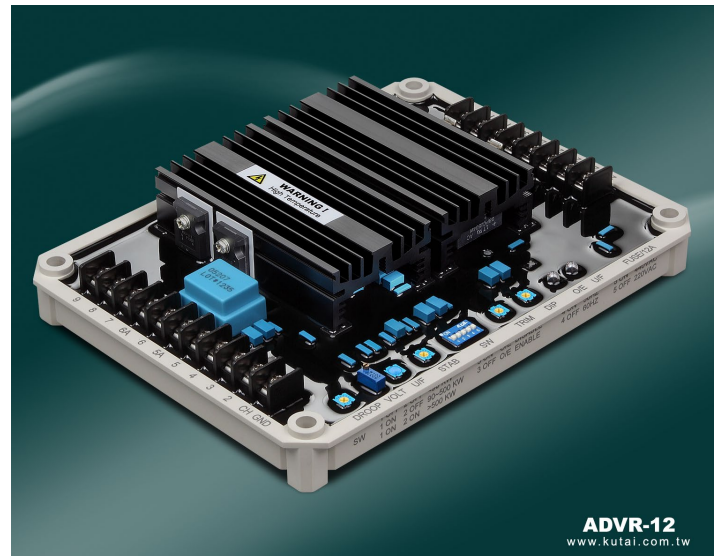


ADVR-12

Universal Hybrid Analog-Digital Three Phase 12 Amp Shunt, Auxiliary Winding or PMG Automatic Voltage Regulator

Features

- 1 or 3 phase sensing input & power input
- Voltage regulation less than +/-0.5%
- 220 / 380 / 440 / 480 Vac programmable input
- DIP switch selectable 50 / 60 Hz
- Multiple excitation system compatibility: SHUNT, AUX, PMG
- Inverse-time over excitation protection
- Under frequency protection and soft start voltage ramping
- EMI suppression
- Built-in high capacity protection fuse
- Apply with KUTAI [IVT-1260/IVT-2460](#) to exceeds normal generator motor starting capabilities



Compatible with Basler AVC63-12, AVC125-10, CATERPILLAR VR6, Kato K65-12B & K125-10B, Leroy Somer 202-8634 regulators

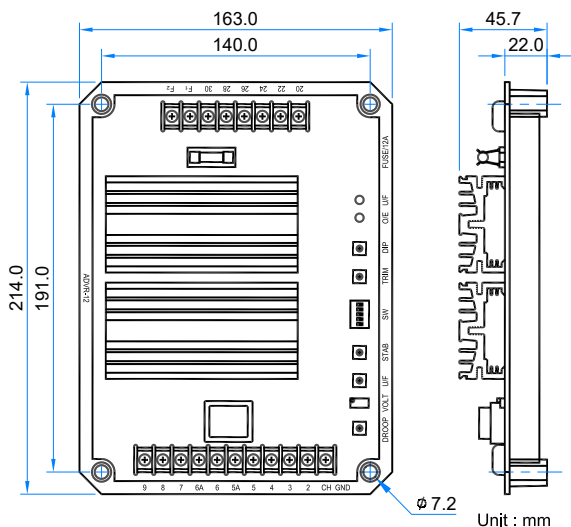
Specifications

Sensing Input	Voltage	180 to 520 Vac 1 or 3 phase selectable	Unit Power Dissipation	Max. 12 watts
	Frequency	50 / 60 Hz selectable	EMI Suppression	Internal electromagnetic interference filtering
Power Input	Voltage	100 to 300 Vac 1 or 3 phase	Over Excitation Protection	
	Frequency	50 to 500 Hz	Inverse-time 125+/-5 Vdc @ power input 220 Vac	
Output	Voltage	Max. 125 Vdc @ power input 220 Vac	Ext. Volts Adjustment	+/-5% 10 kΩ 1 watt potentiometer
	Current	Continuous 12A Intermittent 25A for 10 secs.	Soft Start Ramp Time	4 seconds
	Resistance	≥ 5Ω @ power input 110 Vac ≥ 11Ω @ power input 220 Vac	Voltage Thermal Drift	0.03% per °C change in AVR ambient
Burden in Shunt & PMG Wiring		1320 VA @ power input 110 Vac	Analog Input	Un 0 to 10% @ 0 to 10 Vdc or +/-0.5 Vdc
		2640 VA @ power input 220 Vac	Quadrature Droop Input	CT 1A/5A Max. +/-5% @ P.F +/-0.7
Voltage Regulation	Less than +/-0.5% (with 4% engine governing)		Under Frequency Protection (Factory Knee Point Setting)	
Build Up Voltage	Residual volts at AVR power input		50 Hz system presets knee point at 47 Hz	
	terminal > 6 Vac @ 25 Hz		60 Hz system presets knee point at 57 Hz (-40 to +70°C deviation 0.1 Hz)	

Environment

Operating Temperature	-40 to +70 °C	Relative Humidity	Max. 95%
Storage Temperature	-40 to +85 °C	Vibration	3.0 Gs @ 100 to 2K Hz

Dimensions



AVR Control Functions

VOLT	Voltage adjustment
STAB	Stability adjustment
U/F	Setting under frequency protection knee point
DROOP	Current compensation droop adjustment
TRIM	Analogue input adjustment
DIP	Voltage droop ratio setting

Indication LED

O/E LED	Over excitation protection indicator
U/F LED	Under frequency protection indicator

Physical Specifications

Dimensions	214.0 (L) x 163.0 (W) x 45.7 (H) mm
Weight	1130 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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