

15 kVA - 2000 kVA



GENERAL FEATURES

- Fully automatic servo controlled
- High reliability with microprocessor driver
- Digital voltmeter
- Wide power and voltage range
- High efficiency, quiet operation
- Manual By-Pass feature
- Over current and short circuit protection

USAGE AREAS

- Hospitals
- Tomography Devices
- Laboratories
- Air Conditioning Tools
- Lighting Tools
- Factory, Hotel and Apartments
- Medical Devices
- Laser Cutting Machines



AGR11 and AGR33 Series Microprocessor Servo Voltage Regulator

Wide Choice of Models

More than 200 standard models, single-phase from 5 kVA to 50 kVA, three-phase from 15 kVA to 2000 kVA.

Wide Range of Voltages

In standard models, single-phase 160-250 volt input is 220 volt output. Three-phase 275-430volt input is 380 volt output.

Production is made in desired voltages upon order.

Regulation Speed

The regulation speed (average) for standard models is 200 volts/second.

Output Regulation

At loads from zero (0) to maximum within the capacity of the regulator and voltage changes at the moment of load, It does not fluctuate, it does not disturb the mains frequency, the output is fully sinusoidal, the sensitivity can be adjusted between 1-5%. As long as the regulator stays within the kVA limits, the power factor of the load is insignificant.

Mechanical Construction

Since all models are produced in heavy industry type, they can be used in all areas. With cooler, roller brush system , Burns and abrasions in coal are prevented. Brushes do not spark/arc during regulation.

High Efficiency

It is more than 97% efficient on average. AGP Energy Regulators are made of high quality silicon sheet and electrolytic Since they are produced with copper, the idle loss is minimal.

Operating temperature

For areas from -10 °C to +40 °C in closed areas, it is extra air-cooled or the regulators exceed their capacity. Should be used under Care should be taken not to use regulators in extremely humid and acidic environments.

Surge Protection Unit (optional)

- * At voltages above the voltage capacity of the regölatör,
- * While the regulator is operating at low voltages, the mains voltage is cut off and in case it comes back to high voltage,
- * If the regulator works in a dirty environment on time, it is neglected and malfunctions or gives an irregular voltage,

In this case, the regulator cuts off the output voltage for 8 seconds and outputs an output when the regulation is completed. In case of a malfunction, it does not output.

Phase Protection Unit

In Three Phase Regulators, if one of the 3 phases is cut off, it cuts the output completely. automatically when phase turns on, gives output.



GENERAL TECHNICAL SPECIFICATIONS

- Fully automatic servo controlled.
- 1 (digital) voltmeter
- Correction (control) speed: 200 vac / sec.
- Input voltage range: phase to neutral 150 - 250
- Output voltage range: 220 vac between phase and neutral
- Output voltage tolerance: 2%
- Device efficiency: 97%
- Working at - 10 to + 55 degrees.
- 3 second operation at 150% Capacity.
- With overload, short circuit, over heat and voltage protection unit.
- Glass fiber wire transformer is wound and resistant to 250 degrees heat.
- High setting speed.
- Sensitivity tolerance adjustable from front panel.
- Timed fan cooling.
- Fault signal (seAgi light)
- The protection unit of the regulator is delayed for 7 seconds. (Adjustable)
(To prevent damage caused by sudden voltage fluctuations)
- 1 - O - 2 Mechanical by-pass switch. (1: Mains, 2: Regulator)
- The device is guaranteed for 2 (two) years against manufacturing defects.
- 10 years spare parts supply is guaranteed.

TEKNİK ÖZELLİKLER / TECHNICAL SPECIFICATIONS

MODEL	SR-33015	SR-33022	SR-33030	SR-33045	SR-33060	SR-33075	SR-33100	SR-33120	SR-33150
GÜÇ(KVA) POWER (KVA)	15	22	30	45	60	75	100	120	150
GİRİŞ VOLTAJİ ARALIĞI INPUT VOLTAGE RANGE	275 - 430 V AC 3 Faz + N / 220-400 VAC 3 Faz +N (Opsiyonel) 275-430 VAC 3 Phase + N / 220-400 VAC 3 Phase + N (optional)								
ÇIKIŞ VOLTAJİ OUTPUT VOLTAGE	380 - 400 - 415 VAC 380 - 400 - 415 VAC								
ÇIKIŞ VOLTAJ TOLERANSI OUTPUT VOLTAGE	±%2								
ÇIKIŞ GÜÇ FAKTÖRÜ OUTPUT POWER FACTOR	Cos Ø = 0,8								
ÇIKIŞ AKIMI OUTPUT CURRENT	18 A	27 A	36 A	54 A	72 A	90 A	120 A	145 A	180 A
FREKANS FREQUENCY	50Hz. ±%5								
AŞIRI YÜK OVERLOAD	%125 yükte 60 saniye - %150 yükte 30 saniye - %200 yükte 3 saniye %125 load 60 seconds - %150 load 30 seconds - %200 load 3 seconds								
DÜZELTME (KONTROL) HIZI CORRECTION (CONTROL) SPEED	~80 Volt /Saniye ~80 Volt/Second								
VERİM EFFICIENCY	>%95 (Tam yükte) >95% (At full load)								
KONTROL CONTROL	Mikro işlemci kontrollü otomatik servo kontrol Micro-processor controlled, automatic servo control								
GÖSTERGE VE BUTONLAR DISPLAY AND BUTTONS	True RMS sayısal voltmetre, mikro işlemci True RMS digital multimeter, the microprocessor								
MANUEL BY-PASS MANUAL BY-PASS	Elle kumandalı"Şebeke-Voltaj regülatörü" seçici PAKO ŞALTER Manually controlled (Mains-Voltage regulator) selector PACCO SWITCH								
ÇALIŞMA SICAKLIĞI OPERATING TEMPERATURE	-10 / +55								
KORUMA SEVİYESİ PROTECTION LEVEL	IP 20								
BAĞIL NEM RELATIVE HUMIDITY	< %90 yoğunlaşmaz < 90% non-condensing								
ÇALIŞMA YÜKSEKLİĞİ OPERATING HEIGHT	< 2000 metre < 2000 meters								
GÜRÜLTÜ SEVİYESİ ACOUSTIC LEVEL	1 M.de < 50 dB'den az 1 Mt. Less than <50 dB at 1 M.				1 Mt.de < 60 dB'den az 1 Mt. Less than <60 dB at 1 M.				
VOLTAJ KORUMA ÜNİTESİ (OPSİYONEL)	*Çıkış voltajının 346 voltun altına düşmesi veya 415 voltun üstüne çıkması durumunda devreye girer. **3 Fazdan herhangi birinin olmaması durumunda devreyi keser. ***Elektrik verildikten 6 saniye sonra (ayarlanabilir) çıkış verir.								
VOLTAGE PROTECTION UNIT (OPTIONAL)	* In case the output voltage falls below 346 volts or exceeds 415 volts ** If one of the three phases fails, the circuit breaks. *** Energized within 6 seconds after power is turned on.								
GİRİŞ KABLO ÖLÇÜLERİ INPUT CABLE SIZE	4 X 2.5	4 X 4	4 X 6	4 X 10	4 X 16	4 X 25	4 X 35	4 X 35	4 X 50
BELGELER DOCUMENTS	CE / ISO 9001								
BOYUTLAR (CM) / DIMENSIONS (CM)	15	22,5	30	45	60	75	100	120	150
G x D x Y (CM) W x D x H (CM)	43x58x113				55x90x137			60x95x145	
AĞIRLIK (KG) WEIGHT (KG)	133	142	170	200	303	312	367	429	473