

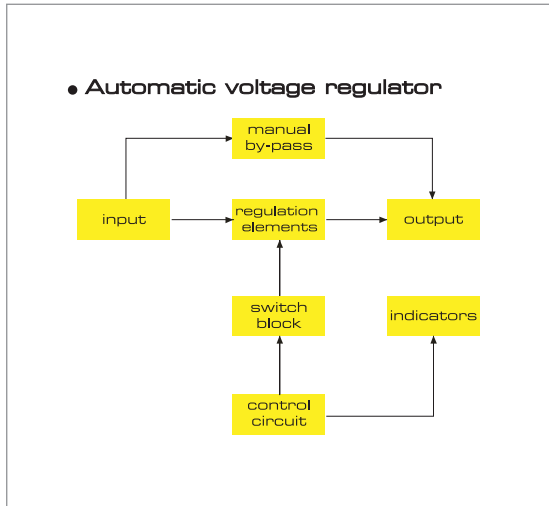
Automatic Voltage Regulator (AVR)

Three phase



AVR series 20 KVA-45 KVA

Operating principle



The Automatic Voltage Regulator is designed to protect your electrical equipment from voltage fluctuations in the mains.

Working on the principle of changing coils, the AVR feeds the user equipment from its own auto-transformer. Coil changes prevent fluctuations in the supply voltage thus ensuring the safe operation of the electrical equipment.

The working mechanism is different from the classic automatic servo voltage regulator: changes in the number of turns in the autotransformers are made electronically through power relays.

Main Features

- Input and output voltages are constantly monitored by analogue voltmeters.
- Short circuit and overload protections are ensured by single circuit breaker.
- Microprocessor control
- Units are equipped with cooling fans.
- The phase protection senses the high or low voltage conditions and cuts and indicates a fault conditions on the concerned phase.
- Wide input range.
- Suitable for non-linear loads
- High efficiency

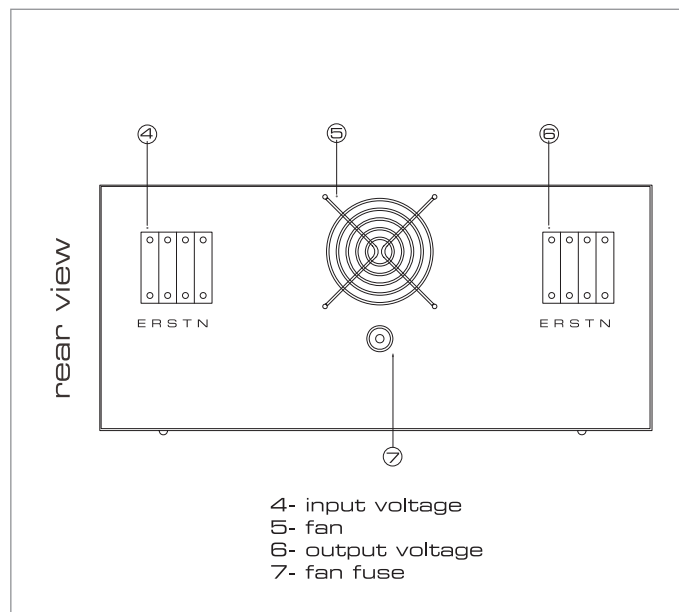
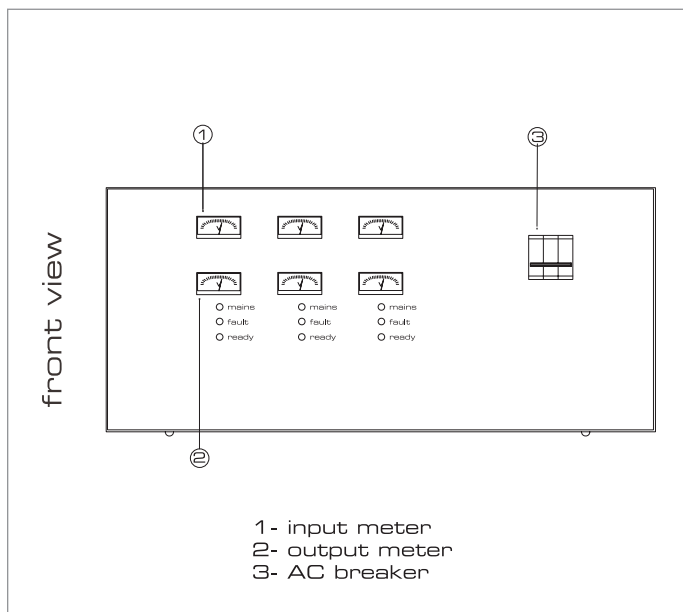
Applications

- Telecommunication equipment
- Industrial processes
- House appliances

Optional

- Digital meters instead of analogue meters
- Phase protection relay: cuts off all three phases in case of phase unbalance, phase rotation inversion and high/low voltage conditions.
- Manual by-pass
- Other output tolerance





Characteristics

model	AVR.	200	260	300	330	400	450
	Power (KVA)	20	26	30	33	40	45
input	Voltage (V)	277-415 (L-L) / 160-240 (L-N)					
	Frequency (Hz)	50/60					
	Frequency tolerance	± 10%					
	Maximum current per phase (A)	30	40	45	50	60	70
output	Power (KVA) at lowest input voltage	14.4	19.2	21,6	24	28.8	33.6
	Voltage (V)	380/400 (L-L) / 220/230 (L-N)					
	Voltage tolerance (%)	± 4					
	Frequency (Hz)	50/60Hz					
	Power factor	>0.9					
	Crest factor	Up to 3					
general	Total Harmonic Distorsion (%)	<0.5% for linear loads Minimally transmitted to load					
	Transfer time (ms)	<10					
	Efficiency (%)	>90					
	Cooling	Fan					
	Recovery	Microprocessor controlled					
	Protection degree	IP20					
environment	Overload	150% for 2 minutes					
	Design ambient temperature (°C)	0...40					
	Relative Humidity (%)	20...90					
physical	Noise level at 1 meter (dB)	≤45					
	Weight (Kg)	66	72	76	78	90	123
	Dimensions WxDxH (mm)	690x440 x320	690x440 x320	690x440 x320	690x440 x320	690x440 x320	750x440 x320

