

AUTOMATIC INDUSTRIAL VOLTAGE REGULATOR



Features

- Servo Motor Controlled*
- Three Phase Balance Facilities (individual Phase Control)*
- Wide Range Regulation*
- Overload / Short Circuit Protection*
- High and Low Voltage Protection with Audible Alarm*
- Auto / Manual Regulatory Option*
- Fully Automatic Circuitry*
- Benford Type Amorphous core Air forced cooling system*
- Phase Sequence Protection*
- Adjustable built-in Delay Timer*
- Auto Trip and Reset system*
- Fast Response Time of Regulator*
- Internal Manual By-Pass system*
- Phase Missing Protection*
- Rust Proof Metallic Paint Steel Cabinet*

ARK POWER Industrial Voltage Regulator (AVR) is designed with servo type control system with necessary protecting circuits. The regulation is performed automatically causing a step less continuous operation with high regulation and fast response time.

The **AVR** is a suitable protective device for all industrial equipments. It not only provides a stable and reliable power but also offers substantial benefits in performance, reliability and maintenance cost.

Area of Exploitation

- Telecommunication Equipments
- Elevators & Escalators
- Cold Storage
- Readymade Garments
- Textile / Weaving Machineries
- Spinning Machines
- Knitting Machines
- Dyeing & Finishing
- Embroidery / Label Machine
- Re-rolling Mills
- High -rise Buildings
- Defense Equipments
- Pharmaceutical Industries
- Hospitals & Medical Equipments
- Laboratory Equipments
- Scientific Equipments
- Computer Systems
- Color Lab Equipments
- Central Air Conditioning Plant
- CNG Fuel Stations
- Injection Molding Machines
- & Other Industries...

AUTOMATIC INDUSTRIAL VOLTAGE REGULATOR

TECHNICAL DATA			
MODEL	ARR	ARE / ARV	
Capacity	1 KVA-50KVA	3 KVA- 2500KVA	
Input Voltage Range	120V-260V or 140V-270V	260-480V	300V-500V
Output	220V/230V	380V/400V/415V	
Frequency	47 Hz - 60 Hz	47 Hz - 60 Hz	
Phase	Single Phase	Three Phase	
	With neutral & ground	with neutral & ground	
Insulation Resistance	≥ 3MS2	≥ 3M SΩ	
Efficiency	≥ 95%	≥ 95%	
Control system	Servo Type / Electronic Switching	Servo Type/phase to Phase Control	
Protection	Over Voltage, under Voltage, Over Load, Short Circuit, Surge, Sag, Spikes and Transient	Over Voltage, Under Voltage, Over Load, Short Circuit, Surge, Sag, Spikes, Transient, Phase Sequence and Phase Missing Protection	
Correction Accuracy	± 2%/ ± 5%/ ± 7%	± 1% / ± 3%	
Correction speed	30 ms/v	30 ms/v	20 ms/v
Overload Capacity	110% for 15 Minite,200% for 2 minuits		
Cooling System	Natural Air / Forced Air/ oil immersed		
Waveform Distortion	Negligible		
Transient Suppression	Up to 800V Peak		
Load power Factor Effect	Any		
Duty Cycle	100% Continuous		
Humidity	Maximum 98%		
Admitted Load Variation	0-100%		
Admitted Load Unbalance	Max 100%		
Wave from Distortion	< 0.2%		
Temperature Co-efficient	0.025% / °C in the rage of 0-70°C		
Total Harmonic Distortion	Less than 1%		