APS - AVR 3P

Fully Automatic Voltage Regulator
3 – 150 kVA

ABOUT PRODUCT

The APS – AVR 3P Voltage Regulator is server drive structured, microcontroller for heavy duty devices. It regulates critical load voltage. The APS AVR consists of a Servo Controlled Injection circuit, that supplies an in phase, or out of phase voltage to the primary of a buck/boost transformer, its secondary winding being connected between the supply and the load. The injection circuit can thus add or subtract a voltage to the supply.

PRODUCT PERFORMANCE

The microprocessor monitors the output voltage of the stabiliser and controls the supply of voltage to the injection circuit. The servo mechanical circuit coupled to the buck boost transformer is energised in the appropriate polarity to restore the voltage to the correct level. The method of stabilisation inherently compensates for any change in the output voltage. By adopting this methodology the APS-3P ensures that loads are not subjected to voltage variations which either are too low or too high, which result in equipment failure such as electronic control systems failing or burning out due to over voltage or motors and cooling systems stalling and failing due to very low voltages as a result of not enough torque. The APS-AVR 3P is designed to operate 24/7 continuously in harsh environments to protect and ensure the long life of equipment. This technology incorporates simple-to-read displays to ensure clarity of raw power and regulated power from the AVR itself.

MAIN FEATURES

- 3 Phase in / 3 Phase Out (3 -150 kVA)
- Three Phase Voltage stabiliser
- Non-linear charge drive
- Wide power and voltage interval
- Fast Regulation
- Microprocessor and Smart Driver provides high reliability
- High Power Efficiency
- Load transfer Bypass via Pole Charge Switch
- Safe and economic usage
- Overcurrent and overload protection (Optional)
- Digitally display status, input and output measurements
- 2 year warranty
- 10 year spare part support

POWER SOLUTIONS antipodes

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TECHNICAL SPECIFICATIONS

Model	33003	33006	33010	330015	330020	330030	330045	330060	330075	330100	330120	330150
Power kVA	3	6	10,5	15	22,5	30	45	60	75	100	120	159
Regulator Input												
In. Vol. Correct Interval	190 -485 VAC / 275 - 450 VAC / 310 -450 VAC											
In. Vol. Working Interval	155 - 490 VAC											
Operation Frequency	47 - 65 Hz											
Line Input Protection	Overcurrent, Low and High Voltage Protection											
Output Voltage	380/400/415 VAC RMS ± 1%											
Overloading	10 Sec, 200% Load											
Upturn Period	~ 90 Volt / Sec											
Output Protection	Protects load by opening circuit when overburdened.											
Working Principle												
	Servo Motor, Microprocessor Controlled, Fully Automatic											
General												
Cooling	Smart Fan System											
Measures Value Monitor	APS True RMS Panel Voltmeter (74 x 74 mm) Output voltage and line voltage monitorisation											
Total Harmomic Distortion	N/A											
Total Efficiency	> 96%											
Mechanical Bypass	Manually Controlled Line- PAKO Switch Selects Regulator, Switches ON and OFF											
Protection Level	IP 20 / IP 25											
Environmental												
Working Temperature	- 10°C / 50°C											
Storage Temperature	- 35°C / + 60°C											
Relative Humidity	< 90%, DIN (40040)											
Working Altitude	< 3000m											
Accoustic Level	< 50 dB (1 m[2)]											
Certification	CE / TUV Austraia Hellas (ISO 9001)											
Dimensions (W x D x H) mm	1100 x 500 x 440					1190 x 600 x 440		1400 x 850 x 640			1630 x 900 x 69	
Weight (kg)	75	90	125	135	154	181	227	330	356	456	520	600

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