

Digital Intelligent High Power AVR (Three Phase)

PRN Three Phase Series



Specially for whole plant power equipment

New Generation Digital Logic Combined Functional Setting. Complete Capacity and Specifications, CE Certified. The Series is designed of built-in multiple functions digital meters, in conjunction of indicators. The equipment is easy in operation. Joining with a number of patents and anti-mistake engineering design. The producing procedure meet international standard, with high quality and long MTBF, the serial equipment are good for all kinds load and sites.

Features:

- Microprocessor Control Unit (MCU) controlled regulation
- Multi-Phase, Multi-Function and Real-time measuring system Single-Chip (EMP)
- Built-in patented bypass device for equipment protection
- Big range high / low voltage warning device
- Phase loss, instant black-out and short circuit warning device
- Solid-state zero point transform drive circuit
- Start Over Voltage Protection (SOVP)
- Independent regulation and protection design
- Built-in digital voltmeter on internal panel for monitoring voltage, frequency and other electricity information
- Signals of the AVR is totally in True RMS treatment
- Internally and externally built multi-function state indicators
- New type 4-digit safety password setting functions
- Electronic automatic and manual bypass function selection
- Internal abnormal high voltage detecting system
- Separate voltage regulation design, 3 phases imbalance 100%
- Taiwan patent no. M492573
- China patent no. CN203278196U
- Voltage regulation unusually detection and alarm device

※ Scope of Application:



PCB Drilling Machine



Integrated Processing Machine



SMT



EDM



Milling Machine



AI Component Inserting Machine

Digital Display



Digitally display the functions of voltage and frequency of all phases

Easy and Precise Setting



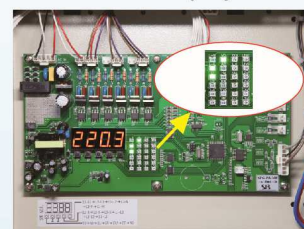
Press button setting of voltage and frequency of all phases. Functions are complete and operations are easy

SOVP Device



Whether it is switched on or recover from power outage, the Start Over Voltage Protection will always re-start from low voltage, won't have high voltage output

Multi-Function State Display



All states of various power are displayed in indicator allowing for determine the condition of the AVR clearly

Noise Preventing Device Voltage Abnormal Alarm



The AVR is installed in extra arc suppressor and noise interference prevention devices



In a three phase system, if any phase voltage regulation function is lost, an alarm will be sent immediately

I/P & O/P Wires Protection



Abnormal high voltage detecting



When there is a surge inside, the bypass system is activated immediately

H Class Protection



With Class H insulation materials transformer

Model & Specification:

| Model No. | PRN- | 3300 X/N | 3400 X/N | 3500 X/N | 3600 X/N | 3750 X/N | 31000 X/N | 31200 N2-A |
|----------------------------|-----------------------------|--|-------------|-------------|--|-------------|--------------|---------------|
| | Capacity (KVA) | 300 | 400 | 500 | 600 | 750 | 1000 | 1200 |
| I/P Range | | -A = ±10% | | | | -B = ±15% | | |
| O/P Accuracy | | ±1% | | | | | | |
| Voltage | | X2 : 3 ϕ 3W 220V N1 : 3 ϕ 4W 110/190V or 120/208V | | | X3 : 3 ϕ 3W 380V N2 : 3 ϕ 4W 220/380V or 230/400V | | | |
| Main Structure | | Digital logic linear voltage regulation mode | | | | | | |
| Voltage Regulating Signals | | True RMS (Precision of voltage regulation is not affected by waveform distortion) | | | | | | |
| Power Factor | | 0.95~1 | | | | | | |
| Efficiency | | ≥ 98% | | | | | | |
| Response time | | <0.1 Second | | | | | | |
| Waveform Distortion | | No distortion | | | | | | |
| Warning | High Voltage | Numerical setting of over voltage and delayed action time | | | | | | |
| | Low Voltage | Numerical setting of low voltage and delayed action time | | | | | | |
| | Phase Loss | The same setting with low voltage | | | | | | |
| | Abnormal Voltage Regulation | Detect of voltage regulation system function independently | | | | | | |
| Bypass | | Electronic automatic and manual bypass function selection, it's still with abnormal voltage warning function when at bypass state | | | | | | |
| Indicators | Power | Standard feature | | | | | | |
| | Voltage | Standard feature (it can display 3 phase 3 wire and 3 phase 4 wire - 4 digit voltage) | | | | | | |
| | Abnormal | Standard feature | | | | | | |
| Safety Protection | | 4-digit safety password setting | | | | | | |
| Overload | | 150% for 10 seconds | | | | | | |
| Environment | | Temperature:0℃ ~ 45℃ | | | Humidity:0%~95% RH (Non-Condensing) | | | |