Three Phase

Automatic Voltage Stabilizer

เครื่องควบคุมแรงดันไฟฟ้าอัตโนมัติ

AVR-M-A Series

Features

- Maintenance free roller type carbon brush
- Voltage vector control allowing overload
- High mean time between failure (MTBF)
- High efficiency, up to 98% (full load)
- Independent phase regulation
- Unique compact dimension
- Completed protections
- Manual bypass & automatic bypass (optional)
- Input & output isolated protection (optional)

Application

- Military research & Defense weapons
- Laser cuting & Punching machinery
- CNC machinery
- Electronics & Medical equipment
- Lab instrument
- Medical monitoring System
- Process control system
- Elevator
- IT & OA equipment
- Auto testing equipment
- Safe guard system
- Production line
- SMT machinery
- TV & Radio broadcasting stations
- Video & Audio
- CAD / CAM
- Generator
- Computer & Computer peripherals

AVR-M-A Series Automatic Voltage Stabilizer / Regulator

Specification :

MODEL :	AVR-M-A
	15 ~ 5000
	KVA
	Three Phase 3P4W, 3P3W (Electronic Servo)

INPUT	
Voltage Regulation System	Digital Signal Processor (DSP) Controlled Servo System
Input Voltage	380, 400, 415V System, 200, 220V (Option) (Other Voltage System Can be Customized)
Input Range	±20% (±15% ~ ±50% Can be Customized)
Input Frequency	50/60Hz (40 ~75Hz)
OUTPUT	
Output Voltage	380, 400, 415V System, 200, 220V (Option) Other Voltage System Can be Customized)
Output Accuracy	Selectable : ±1% to ±5%
Waveform Distorftion	Nil
Power Factor	0.8
Efficiency	≥98% (Full load)
Overload Capacity	200% Over load 10secs, 150% Over load 60secs, 120% Over load 10mins
FEATURES	
Insulation Class of Transformer	H Class
Method of Voltage Regulation	Thee Phase Independent Regulation
Indicators	Digital LED + LCD : Voltage, Current, Power, Parameters Setting, Failure Information
Parameter Setting	Voltage Regulate Range, Voltage Output, Recover Time After Current Protection, Recover Time After Voltage Protection, Auto / Manual Output at Start up, Phase fault Check, Phase Check, System Frequency, Fan start Temperature
Cooling	Natural / forced air
Protection Level	IP21(indoor), IP54(outdoor)
Electrical Safety	CE
Temperature	-20°C to +50 °C
Altitude	<1000m
Relative Humidity	<90%
Noise	<55dB
Protection	Malfunction protection, Short-circuit protection (MCB), Lack of phase protection, Wrong sequence protection, Over voltage / Under voltage protection, Overload protection, Safe start, Manual bypass, Indicating alarms, Security password, RS232 / 485 interface Optional : Isolation transformer, Surge protector (SPD), GPRS or Wifi communication, Auto bypass, Centralized monitoring, Touch screen HMI, EMI / FRI noise filter

PHYSICAL

MODEL	DIMENSION (WxDxH mm)	MODEL	DIMENSION (WxDxH mm)	MODEL	DIMENSION (WxDxH mm)	MODEL	DIMENSION (WxDxH mm)
AVR-M-20A	280 x 750 x 1230	AVR-M-120A	350 x 900 x 1480	AVR-M-350A	500 x 1150 x 1870	AVR-M-1200A	1000 x 1800 x 1900
AVR-M-30A	300 x 750 x 1230	AVR-M-150A	320 x 850 x 1380	AVR-M-400A	500 x 1150 x 1870	AVR-M-1500A	1000 x 1800 x 1900
AVR-M-50A	300 x 800 x 1280	AVR-M-180A	320 x 850 x 1380	AVR-M-500A	600 x 1300 x 2000	AVR-M-2000A	1600 x 1900 x 2100 2*Case
AVR-M-60A	300 x 800 x 1280	AVR-M-200A	320 x 850 x 1380	AVR-M-600A	600 x 1300 x 2000	AVR-M-3000A	1600 x 1900 x 2100 2*Case
AVR-M-80A	300 x 800 x 1280	AVR-M-250A	400 x 1000 x 1670	AVR-M-800A	600 x 1400 x 2020	AVR-M-4000A	1600 x 1900 x 2100 3*Case
AVR-M-100A	350 x 900 x 1480	AVR-M-300A	500 x 1200 x 2012	AVR-M-1000A	800 x 1800 x 1900	AVR-M-5000A	1600 x 1900 x 2100 4*Case

* Specifications are subjest to change without prior notice.

Spec. STD.05-02-25

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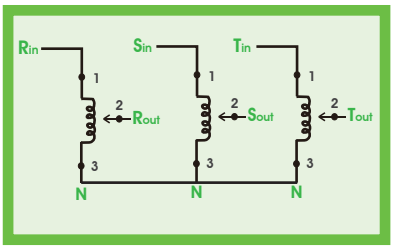
Automatic Voltage Stabilizer

AVR-M-A Series

Feature and Advantages

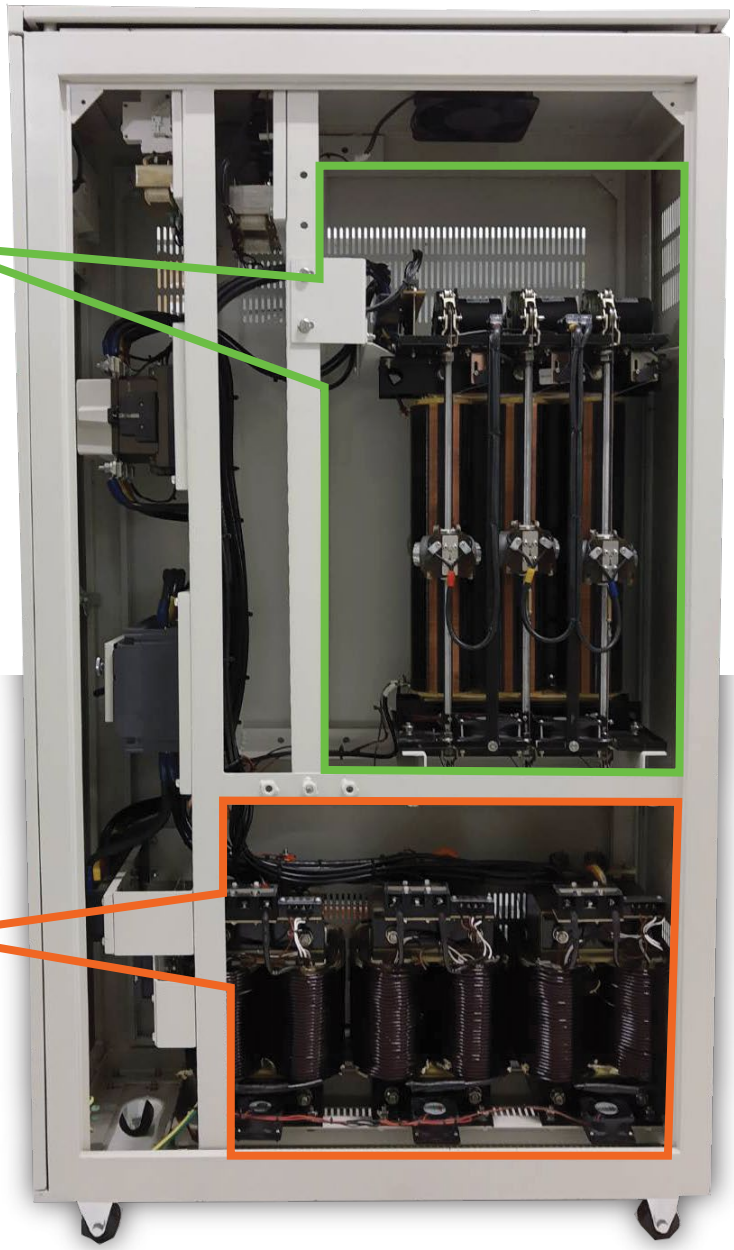


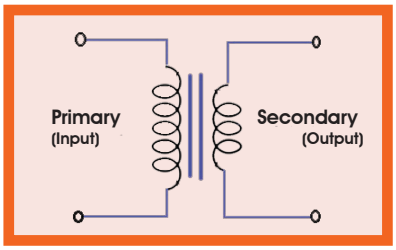
- **The Advanced Carbon Roller Brush body Provides a Flexible Voltage Adjustment Response**

  การปรับแรงดันด้วยลูกกลิ้งชนิดคาร์บอนคุณภาพสูง ทำให้การตอบสนองการทำงานได้รวดเร็วและแม่นยำ

- **Three Phase Voltage Independent Regulate**

  ควบคุมแรงดันไฟฟ้าแยกอิสระแต่ละเฟส





- **Built in Isolation Transformer for Proteting Against Electrical Damage between the Input and Output (Optional)**

  โครงสร้างภายในเครื่องเป็นหม้อแปลงแบบแยกขด ป้องกันปัญหาทางไฟฟ้าแยกระหว่างทางด้านขาเข้าและขาออก

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AVR-M-A Series

Feature and Advantages

BEAUTIFUL INSIDE AND OUT

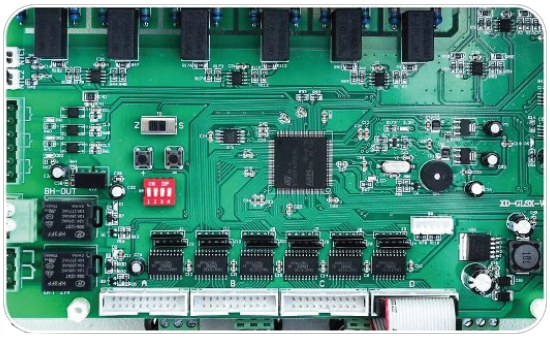
Beautiful and slim exterior with advanced industrial workmanship Compact interior structure compliance with international standard

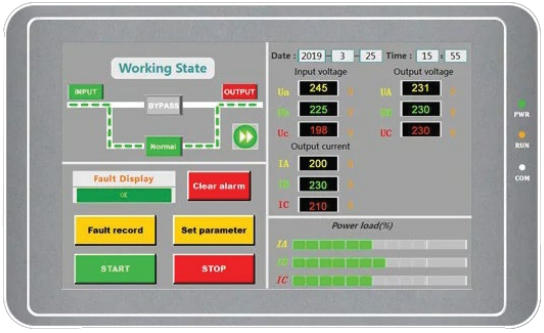
PATENT ROLLER CARBON BRUSH STRUCTURE

Patent three phase individual voltage regulator, whichrealizing the whole unit 2/3 smaller than traditional one.

HIGH PERFORMANCE CONTROL

Central control module based on DSP,realize high-speed and high-performance control





TOUCH SCREEN HMI (OPTIONAL)

Man-machine interface enable users to know the unit condition clearly

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Feature and Advantages

COMPLETE PROTECTIONS

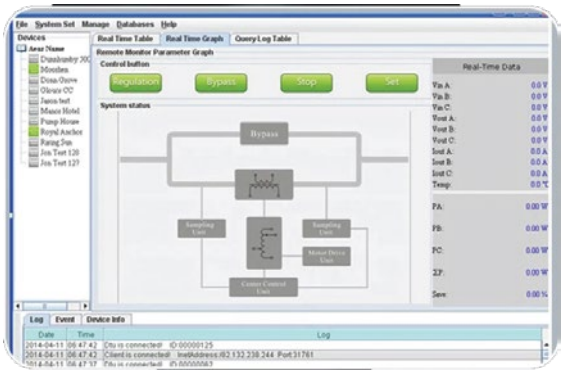
Fully considering the function needs under various operating conditions for both loads and unit itself

INTELLIGENT VENTILATION CONTROL

Optimized design for ventilation. advanced technology and small size Activate the fans when needed for prolong the life of fans.

REMOTE CONTROL (OPTIONAL)

Install special background monitoring software in computer terminal can realize the remote operation and control



APPLICATIONS

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