



Automatic Voltage Stabilizer

เครื่องควบคุมแรงดันไฟฟ้าอัตโนมัติ

Three Phase

 www.u-pt.com



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 cutting & 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 subject to change without prior notice.

Spec. STD.05-02-25



Automatic Voltage Stabilizer

U PROTECT COMPANY LIMITED | บริษัท ยูโพรเทค จำกัด

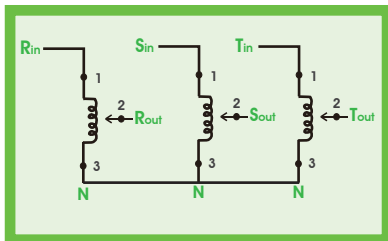
No. 5, Soi Suprapong 3 Yak 4, Srinakarin Road, Nongbon, Praweth, BKK 10250.

Tel : 662-7433998 Fax : 662-7433997 Email : sales@u-pt.com, uprotect@u-pt.com



AVR-M-A Series

Feature and Advantages

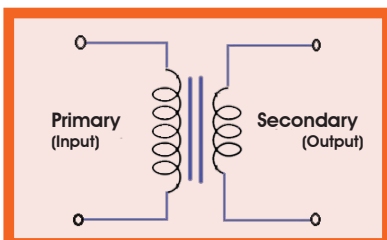


- The Advanced Carbon Roller Brush body Provides a Flexible Voltage Adjustment Response

การปรับแรงดันด้วยลูกกลิ้งชนิดคาร์บอนคุณภาพสูง ทำให้การตอบสนองการทำงาน ได้รวดเร็วและแม่นยำ

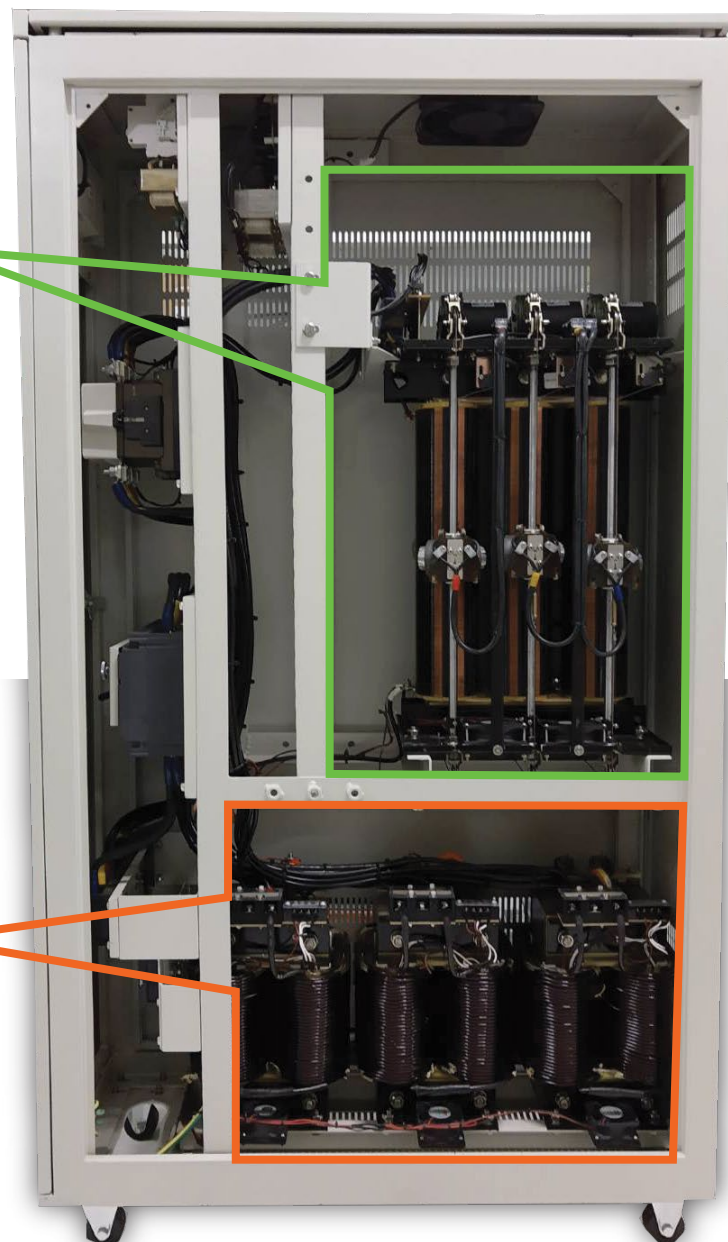
- Three Phase Voltage Independent Regulate

ควบคุมแรงดันไฟฟ้าแยกอิสระแต่ละเฟส



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

โครงสร้างภายในเครื่องเป็นหม้อแปลงแบบแยกชุด ป้องกันปัญหาทางไฟฟ้าแยกระหว่างทางด้านขาเข้า และขาออก



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

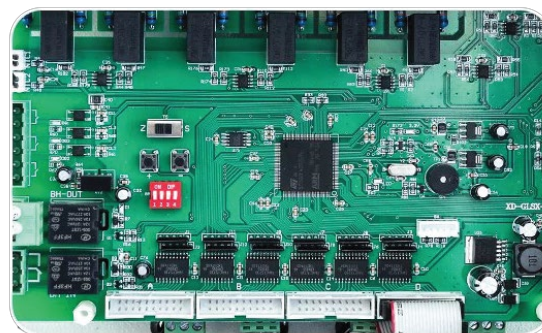


PATENT ROLLER CARBON BRUSH STRUCTURE

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

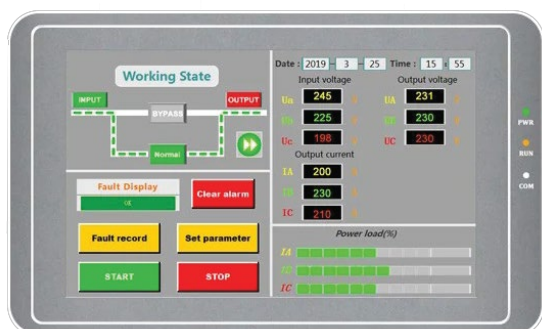
HIGH PERFORMANCE CONTROL

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



AVR-M-A Series

Feature and Advantages

COMPLETE PROTECTIONS

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

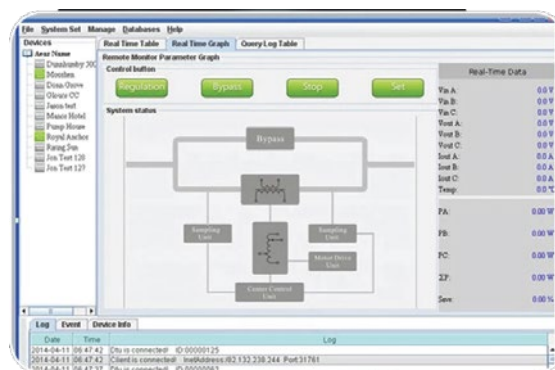


INTELLIGENT VENTILATION CONTROL

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

