

GVN AVR DVR-M3 SERIES

FULL AUTOMATIC SERVO DYNAMIC VOLTAGE REGULATOR 3 kVA -150kVA

GÜVENİŞ Voltage regulators are the machines that provide the constant voltage that you need by correcting the falling and rising of the mains voltage in the internal structure.

Our DVR-M3 voltage regulators operate fully automatically for voltage regulation without any user intervention.

Once the regulators are switched on, your mains voltage is continuously measured and the necessary up / down operations are performed automatically, giving your system the constant voltage required for a healthy operation.

Servo regulators consist of variac, servo motor which controls variac, electronic multimeter card which controls this motor and booster transformer.

The start torque can quickly correct even very small voltage changes thanks to the high DC servo motor and the control system that can respond quickly to voltage changes. When the regulation is completed, the servo motor is de-energized with the aid of the electronic braking circuit.

High efficiency.

The DVR-M3 Regulator provides the following:

- Protection of the user from negative voltages.
- Protection of the user and the device from excessive current.
- Undisturbed pure sinus voltage regulation.
- Long-term overload protection and short-term protection.
- AC voltage balancing with extremely high accuracy.
- Run smoothly on all loads from 0% to 100%.
- Manual transfer to bypass regime without regulating.
- Display all values against the probabilities in the bypass regime.
- Record mains input voltage limits and load current values.
- Static, not gradual, dynamically correct output voltage too quickly without user notice.
- When protections are activated, record the number of protection trips and the reason for each parameter separately.
- Generation as standard is $\pm 0.4\%$ (398,4-401,6 Vac) stable when the input voltage is within the range of 310-520 Vac.



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FULL AUTOMATIC SERVO
DYNAMIC VOLTAGE REGULATOR
3 - 150 kVA

TECHNICAL SPECIFICATIONS

MODEL: DVR-M3	M3-3	M3-6	M1-10,5	M3-15	M3-22.5	M3-30	M3-45	M3-60	M3-75	M3-100	M3-120	M3-150
Power kVA	3	6	10.5	15	22.5	30	45	60	75	100	120	150
INPUT												
Input Voltage Correction Range	3x310-520 Vac											
Input Voltage Operating Range	3x295-546 Vac											
Operating Frequency	47 - .64 hz											
Input Protection	Overcurrent. Low and High Voltage Protection (Optional)											
OUTPUT												
Output voltage	3x400 Vac +/- %0,4 (380/400/415Vac)											
Over load	10 seconds % 200 load											
Correction Speed / Recovery Speed	90 Volt / sec											
Output waveform	Pure Sine											
Output protection	Overcurrent. Low and High Voltage Protection (Optional)											
Output protection at low voltage	380 V on -368 V off											
Output protection at high voltage	420 V on - 432 V off											
OPERATING PRINCIPLES												
	Servo Motor - Microprocessor - Dynamic Servo											
GENERAL												
Cooling	Natural Air /fan (Optional)											
Measurement and Display	Input and Output Voltage Led Display / Input, Output Voltage and Ampere Led Display MULTIMETER											
Continuous operating time at full load	0..105%.											
Continuous load <105%	< 7 /24											
Efficiency under load.	>98%											
Mechanical By-pass	Manual control network / 1-0-2 Pako Switch / Remote Switch / Lock key On / Off											
Protection Class	IP20 and Other Options											
ENVIRONMENTAL												
Operating ambient temperature	0> -40 °C <+ 55°C											
Storage temperature	0> -25 °C <+ 60°C											
Ambient temperature +25 °C Relative Humidity.	< 96 %											
Operating height	<3000 m 3 km											
Protection Class	IP 21											
Acoustic Level	< 50 dB (1m)											
Instruments												
DIMENSIONS												
WxDxH (cm)	70 X 40 X 35		40 X65X 103				40X75X124		105 X 65 X 140			
Weight (kg)	54	85	105	126	154	175	228	351	386,40	419,40	521,60	580