

GVN AVR SVR-M1 SERIES

FULL AUTOMATIC STATIC VOLTAGE REGULATOR 1 Phase / 1 kVA - 80 kVA

Devices that prevent voltage rise, drop and all imbalances and regulate voltage are called regulators. Electrical devices that are being made to reduce or boost the energies due to different factors are those devices that are powered by the electronic circuitry that reduces or raises the energy with the hardware components within the electrical energy. Three-phase regulators for industry and single-phase regulators for houses are preferred. By means of the electronically provided regulator, the regulator can electromechanically cut the output voltage at the voltage drop and ramp outside the regulator, thus avoiding any possible damage that may occur. It is used safely in all kinds of computer system, fax, photocopy, medicine and laboratory equipment, home and office lighting, complex apartments and office supplies, and workshops

GÜVEN-IŞ SVR-M1 Series Single Phase Static Regulators are regulators with high protection speed and high regulation speed.

- Provides safe and stable output voltage in very sensitive devices where the mains voltage is unbalanced. The greatest advantage of other regulators is their high speed response to sudden voltage fluctuations. It is produced at the capacity to operate without problems even at full load and when the voltage changes too much.
- Since there are no moving parts inside it is long-lasting and does not require maintenance.



1kVA - 80kVA

- 100% compliance with all monophonic devices
- Feed operation at 65 VAC
- High correction range (45V - 300VAC)
- 20ms voltage correction rate
- Control and protection unit thanks to microprocessor control
- Real static structure thanks to Thyristor and SMPS technology.
- Overcurrent protection and voltage protection (Standard).
- Short-circuit protection (Standard).
- True temperature control and heat protection (Standard)
- Cooling required by intelligent fan (Standard)
- Manual By-Pass and Automatic By-Pass
- High efficiency and quiet operation
- 1 unit 4x20 LCD (Standard)
- Automatically recorded on LCD; All faults, Operating Time, Highest and Lowest Voltage, Highest Current Load, Instantaneous Heat and Highest Temperature, Thyristor Count, Number of Stages, Software Date and Number, guarantee number
- Quality ergonomic construction, small dimensions, easy transport, ISO 9001-2008,

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SVR-M1 TECHNICAL SPECIFICATIONS

INPUT PARAMETERS		
Input Connection Phase Number	1 Phase	
Continuous Working Time at Full Load 0 ... 105%	Continuous 7/24	
Input Voltage Range	>0V.....450<	
Feeding Voltage Operating Range	>65V.....290<	
Supply Protection Voltage Range	>45V.....300<	
Input Correction Range	>90V.....290V<	
Operating Frequency	>47V.....63V<	50Hz
Correction Speed = Seconds / Frequency	Frequency = 50 = 20ms / Frequency = 60 = 16,66ms	
Switching Thristor Controlled	Static Regulator	
ENVIRONMENTAL CONDITIONS		
Temperature	0 > -40 °C < +55 °C	
Relative humidity	< 96%	condensing
Working Height	<3.000 Metre	3 Km
Protection Class	IP 21	
LCD DISPLAY		
Input voltage, output voltage, output load percentage, regulator status and fault information, overload warning, overheat warning, input fault warning, output fault warning, after last start	4x20	1 pcs
DISPLAYING INDICATOR AND MONITORING INFORMATION		
Software version, software date, step number, module number, warranty number, fault tracking, error count, error cause, total working hours.	Selecting with the Menu button	Available
Setting All Parameters	With the Menu button	
Minimum Flawless Working Time	61320 Hours	
Number of Fault Tracking with Circular Discretion	65535 pcs	
Failure Monitoring Time by Circular Observation	7 years	
Errors in EEPROM memory	1024 Bit	Available
OUTPUT PARAMETERS		
All kinds of loads	yes	
Allowable Overload <400%	10 ms	
Allowable Overload <200%	1000 ms	
Allowable Overload <150%	60 sec	1 min
Allowable Overload <125%	180 sec	3 min
Continuous Load <105%	< 7/24	
Input Current Amperle Max.	Kva / minimum input voltage	10KVA / 165V = 60,6 Amp.
Crest Factor	5:1	
Number of Static Steps	3x3= 6 Thyristor	9 steps
Number of Static Steps	4x4=8 Thyristor	16 steps
Number of Static Steps	5x5=10 Thyristor	25 steps
Number of Static Steps	6x6=12 Thysristor	36 steps
Output Voltage Tolerance 1% 10%	Input and output according to need one of the tolerances must be selected.	1%.....10%
Output Wave Form	Pure Sinus	
Power Factor (cos f)	0,8	
Pick-up Time	6 sec	Menu 0..... 300sec
Yield Under Load	96%	
Current Protection	Fuse protection on input or output, with microprocessor electronic overcurrent protection	3 pcs
Low Voltage Protection	Output voltage - 10%	220V - 10% = 198V
High Voltage Protection	Output voltage + 10%	220V - 10% = 242V
Acoustic Noise (1 meter distance)	< -55 db	
Cooling system	Smart fan system +55 oC	Available
Switching Thistories Protection Heat	> +80 °C	Available
Pole Changer V-Load with Breaker	Available	
Automatic By-Pass	Available	
Output And Input Connection	With appropriate terminal on the housing	