



Protector Automatic Static Voltage Stabilizer 5 - 2000 kVA Technical Specifications

GENERAL		
Phase	Single-Phase	Three-Phase
Technology	Full Automatic Thyristor Based Regulation	
Control	Microprocessor Controlled	
INPUT		
AC Voltage	220/230/240 Vac (or 110/120/127 Vac)	380/400/415 Vac (or 208/480/600 Vac)
Voltage Ranges	±20% (Narrow Range) -30%, +20% (Standard Range) -45%, +20% (Wide Range)	
Frequency	40 - 70 Hz	
Input Protection	Circuit Breaker, Electronic High/Low Voltage Cutoff	
OUTPUT		
Output Voltage	220/230/240 Vac (or 110/120/127 Vac)	380/400/415 Vac (or 208/480/600 Vac)
Output Accuracy	±1%	
Output Frequency	Same as Input Frequency	
Up and Low Limits	Digitally Adjustable	
Start Delay	Digitally Adjustable (1 sec accuracy)	
Busbar Material	Pure Copper	
Isolation Transformer	Al or Pure Copper (as per request)	
Harmonic Distortion	0 % THDv, 0 % THDi	
Maintenance By-pass	Manual Switch Selector	
Automatic By-pass	Optional	
Response Time	20 ms	
Overload Operation	100% - 125% load: 2 min, 125% - 150% load: 1 min, > 150% load: 10 sec	
Output Protection	Overload, Over Temp, Short Circuit	
Efficiency	>96% at Full Load	
CONTROL PANEL		
Display	LCD Display	
Displayed Parameters	Upper/Lower Limits, Output Voltage Adjustment	
Displayed Units	Input/Output Voltage, Delay Timer Optional: Input/Output Current, Operation Time (S:M:H)	
Event Log	Optional with HMI Panel	
COMMUNICATION		
Optional	MODBUS, CANBUS, Dry Contacts, SNMP (Ethernet)	
Alarms	Visual Alarms	
LED Indicators	Optional: Input/Output Low/High, Overload	
SAFETY and STANDARDS		
Over Voltage	IEEE 587 4500 A	
Interference Reduction	Class A	
Standards	2014/35/EU Low Voltage Directive, 2014/30/EU EMC Directive, ISO 9001, CE	
ENVIRONMENT		
Heat and Humidity	-10 C° / + 65 C°, 0 - 90% (non-condensing)	
Noise Level	Less than 55 dB at 1 mt	
Protection Level	IP42 Indoor Type, IP56 Outdoor Type	
Cooling	Natural Air Cooling	Forced Air Cooling with Axial Fans
Cabinet Color	RAL 7035 Standard (other colors are available on request)	

Highlights

- Automatic Thyristor Control
- Low Maintenance
- No Movable Parts
- Separate Control for Each Phase
- Digital Control Panel
- 500 Vac / sec Correction Speed
- Wide Range of Input Voltage
- 1% Output Tolerance
- High Efficiency (96%)
- Electronic Protection
- High Speed Correction
- Smart Fan Cooling
- Visual Fault Indicator
- Adjustable Start Delay
- Adjustable Upper and Lower Limit
- Automatic Restart After Power Outage
- Manual By-Pass Switch
- 2 Years Warranty

General Features

Protector Series Static Voltage Stabilizers have microprocessor controlled thyristor switching to provide fast regulation and good reliability. Thanks to its modular structure and having no movable parts, static control offers maintenance free operation, longer lifetime and lesser footprint than servo motor control.

Thyristors used in static stabilizer have capacity to work at startup currents 10 times the nominal current meaning perfect operation with industrial loads. High/low voltage, short-circuit, overcurrent and phase shifting protections are included to the design.