

STATIC VOLTAGE STABILIZER 3/3 PHASE 10-150 KVA

ORION 3000-STC voltage regulators are designed to protect sensitive equipment by stabilizing mains voltage and eliminating overvoltage, undervoltage, and network imbalances. With electronically controlled regulation, they ensure a consistent and reliable output voltage under fluctuating supply conditions.

When voltage levels exceed the adjustment range, the regulator automatically disconnects the output through an electromechanical mechanism, preventing potential damage to connected loads. This combination of fast electronic protection and secure disconnection provides dependable performance, extended equipment life, and uninterrupted operation for everyday applications.

GENERAL SPECIFICATIONS

- Three-phase input / three-phase output
- Static Automatic Voltage Regulator (AVR)
- Power range: 10–150 kVA
- Input voltage: 300–480 VAC (3P+N)
- Input frequency: 50 Hz
- Output voltage: 380 / 400 VAC (3P+N)
- Output voltage tolerance: $\pm 2\%$
- Regulation speed: up to 5000 V/s
- Efficiency: $>97\%$
- Operating temperature: 0°C to 40°C
- Relative humidity: 0–95% (non-condensing)
- Acoustic noise level: <55 dBA
- Short-term overload capability: up to 500% for 20 ms



APPLICATIONS



3:3 PHASE STATIC

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MODEL	ORION 3010-STC	ORION 3015-STC	ORION 3020-STC	ORION 3030-STC	ORION 3045-STC	ORION 3060-STC	ORION 3075-STC	ORION 3100-STC	ORION 3120-STC	ORION 3150-STC
General										
Nominal Power (kVA)	10	15	20	30	45	60	75	100	120	150
Technology	Thyristor (SCR) Technology, Microprocessor controlled, High Speed Regulation									
Efficiency	> 97% (typical)									
Mechanical Bypass	Available									
Display	Graphical Icd screen									
Communication (Optional)	RS485, SNMP, Relay Contacts, Modbus									
Emergency Power Off (Optional)	Available									
Accessories (Optional)	Remote Monitoring Panel									
Input										
Input Voltage	380, 400 Vac 3Ph+N									
Voltage tolerance	(-23)% (+18)% (-40)% (+18)% (optional)									
Frequency	50 / 60 Hz (±5%)									
Output										
Output Voltage	380 / 400 Vac 3Ph+ N ± 3% (±2% optional)									
Voltage Correction Speed	%2>175V/sec / %3>275V/sec									
Overload	150% 1 Minute									
Respond Time	20 msec.									
Protection	Short circuit, over load, over current, electronic and fuse protection									
Protections										
Voltage Protection	Electronic protection for Low Voltage and High Voltage									
Current Protection	Input Circuit Breaker or Input Fuses									
Temperature Protection	Electronic Over Temperature Protection									
Short Circuit Protection	Available									
Surge Protection	Surge Arrester Class-I or Class-II (optional)									
Enviromental										
Operating Temperature	-10°C - 40°C									
Storage Temperature	-25°C+ 60°C									
Relative Humidity	< 95% (DIN 40040)									
Noise (@ 1 Meter)	<55 dBA									
Altitude	< 1500m									
Protection Class	IP 20 (Higher Ratings are Optional)									
Physical										
Dimensions H x W x D (Cm)	81 x 30 x 70						120 x 43 x 96			
Net Weight (Kg)	130	150	160	170	190	210	230	250	270	300