

## STATIC VOLTAGE STABILIZER 3/3 PHASE 200-3000 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: 200–3000 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:  $0^{\circ}\text{C}$  to  $40^{\circ}\text{C}$
- 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

## STATIC VOLTAGE STABILIZER 3/3 PHASE 200-3000 KVA

MODEL	ORION 3200-STC	ORION 3250-STC	ORION 3300-STC	ORION 3400-STC	ORION 3600-STC	ORION 3800-STC	ORION 31000-STC	ORION 32000-STC	ORION 32500-STC	ORION 33000-STC
<b>General</b>										
Nominal Power (kVA)	200	250	300	400	600	800	1000	2000	2500	3000
Technology	Thyristor (SCR) Technology, Microprocessor controlled, High Speed Regulation									
Efficiency	> 97% (typical)									
Mechanical Bypass	Available									
Display	Graphical Lcd screen									
Communication (Optional)	RS485, SNMP, Relay Contacts, Modbus									
Emergency Power Off (Optional)	Available									
Accessories (Optional)	Remote Monitoring Panel									
<b>Input</b>										
Input Voltage	380, 400, 415 Vac 3Ph+N									
Voltage tolerance	(-23)% (+18)% (-40)% (+18)% (optional)									
Frequency	50 / 60 Hz (±5%)									
<b>Output</b>										
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									
<b>Protections</b>										
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)									
<b>Environmental</b>										
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)									
<b>Physical</b>										
Dimensions H x W x D (Cm)	160 x 55 x 140					170 x 110 x 225			190 x 150 x 240	
Net Weight (Kg)	625	700	780	850	920	1200	1500	1700	2000	2400