



UNI EN ISO 9001-2008
CERTIFICATO N° I 121

Sas di Sironi S. & C - Cod. Fis. / P.IVA 12717400159 – CCIAA (MI) n. 1577673
Italy - 20037 Paderno Dugnano (MI), Via Salvo D'Acquisto 50-52
Tel. +39/02/9103788 - Fax. +39/02/9102517 – E-mail: shandy@shandy.it Sito Web: www.shandy.it

VSE3

THREE PHASE 10.5KVA : 2500kVA

Three-phase electromechanical stabilizers

Independent phase regulation

TECHNICAL SPECIFICATION





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THREE-PHASE ELECTROMECHANICAL STABILIZERS VSE3 10.5 to 2500KVA

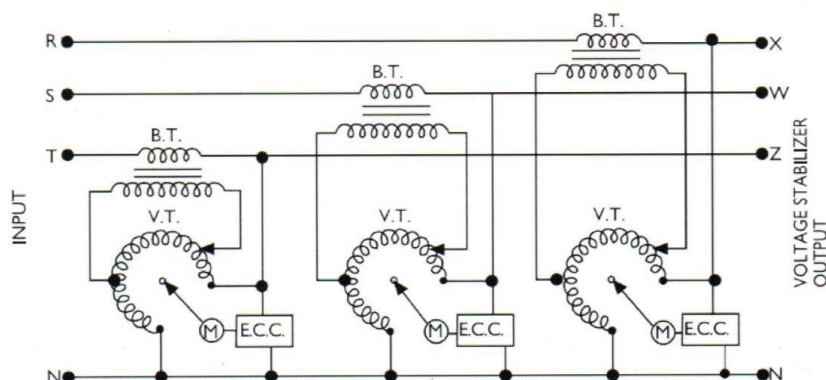
Electromechanical voltage stabilizers use a variable toroidal transformer, a BUCK-BOOST transformer, and an electronic circuit that controls the rotation of the variable transformer, thereby regulating the output voltage. With the control system, in a very fast response time, the high-torque control motor regulates small voltage changes very fast. The servo motor is taken out of service by the limit switches when it is out of its operating limits and by the control circuit when the output voltage is automatically adjusted to the set value. When the adjustment is complete, the motor energy is cut with the help of an electronic opening circuit, operating in maximum silence.

The adjustment takes place independently on each phase. The system is equipped with a bypass switch that allows the load to be supplied with mains voltage in the event of a malfunction or need. Using the setting buttons, you can adjust the output voltage, precision range, adjustment speed, and high-low voltage limits. It is then possible to adjust the maximum current control and the relative hysteresis time. Three displays show the input and output voltage on each phase

The new VSE3 stabilizers offer features such as:

- Microprocessor controlled
- Adjustable on the LCD control panel
 - Output voltage protection and tolerance
 - Protection delay
 - Minimum-Maximum Voltage Limit
 - Servo Motor Speed
 - ON/OFF alarm
- LED screen, input/output voltage
- No sine waveform distortion introduced
- Adjustment speed 90-200 V/sec., wide adjustment range
- Overheating protection
- High efficiency
- Overload and short-circuit protection
- Manual bypass
- Intelligent cooling fan
- IP20 protection class
- ISO 9001:2015 Certification
- 1 year warranty
- 10 years spare parts support warranty, experienced after-sales service

THREE-PHASE ELECTROMECHANICAL STABILIZERS – PRINCIPLE OF OPERATION



IP54 VERSION available on request



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THREE-PHASE ELECTROMECHANICAL STABILIZERS VSE3

MODEL VSE3xxxx	010	015	022	030	045	060	075	100	120	150
KVA Power	10.5	15	22.5	30	45	60	75	100	120	150
INPUT										
Input voltage	400Vac 3ph + N									
Voltage range	300Vac ~ 460Vac (other ranges available on request, such as 190-415 and 310-485)									
Input Frequency	47 : 64 Hz									
OUTPUT										
Output voltage	400Vac (adjustable 380:415V)									
Output Accuracy	± 1%									
Output current A	15	21	32	43	65	86	108	144	174	217
Overload capacity	200% load 10" / 150% load per 1' / 120% load per 10' / 110\$ load per 30'									
Output frequency	47 : 64 Hz (as input frequency)									
Speed adjustment	90V/sec									
Efficiency	min. 97%									
Max load unbalance	100%									
Display	3 digital instruments with input/output voltage reading on each phase									
PROTECTIONS										
Ingress Protection	Circuit breaker									
Output Protections	Short Circuit, High Current, Low-High Voltage, Low-High Frequency, Inrush Current via contactor output									
By-Pass	Manual by-pass included									
MCB Output	YES									
MCB input	YES									
OTHER DATA										
Cooling	Forced ventilation regulated by adjustable thermostat									
Protection class	IP20 (IP54 protection available on request)									
Max. ambient temp.	-10° C ~ +40° C									
Altitude	1000 m									
Relative humidity	95% (non-condensing)									
Sound pressure	< 50dB									
Color	RAL7035									
Dimensions LxWxH cm	42x50x105		42x60x120		80x60x132			66x94x165		120x84x185
Weight kg.	135	145	155	195	240	345	370	480	550	640

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MODEL VSE3xxxx	3200	3250	3300	3400	3500	3600	3800	31000	31250	31600	32000	32500
KVA Power	200	250	300	400	500	600	800	1000	1250	1600	2000	2500
INPUT												
Input voltage	400Vac 3ph + N											
Voltage range	300Vac ~ 460Vac (other ranges available on request, such as 190-415 and 310-485)											
Input Frequency	47 : 64 Hz											
OUTPUT												
Output voltage	400Vac (adjustable 380:415V)											
Output Accuracy	± 1%											
Output current	289	362	434	578	724	869	1159	1449	1816	2318	2898	3623
Overload capacity	200% load 10" / 150% load per 1' / 120% load per 10' / 110\$ load per 30'											
Output frequency	47 : 64 Hz (as input frequency)											
Speed adjustment	90V/sec											
Efficiency	min. 97%											
Max load unbalance	100%											
Display	3 digital instruments with input/output voltage reading on each phase											
PROTECTIONS												
Ingress Protection	Input disconnecter, mains presence indicators, button + emergency stop lamp											
Output Protections	Low-high voltage via output contactor											
By-Pass	Manual by-pass included via inlet diverter switch											
MCB Output	Optional											
MCB input	Optional											
OTHER DATA												
Cooling	Forced ventilation controlled by adjustable thermostat											
Protection class	IP20 (IP54 protection available on request)											
Max. ambient temp.	-10° C ~ +40° C											
Altitude	1000 m											
Relative humidity	95% (non-condensing)											
Sound pressure	< 50dB											
Color	RAL7035											
Dimensions LxWxH cm	120X84X185			175X84 X185	180X124X175		180X124X 210	210X214X 185	T.B.A.			
Weight kg.	585	610	635	970	1200	1350	1795	2700	3550	4200	5600	6500