

# VSER

**SINGLE PHASE 3.5-50KVA**

## SINGLE PHASE VOLTAGE STABILIZERS TECHNICAL SPECIFICATION

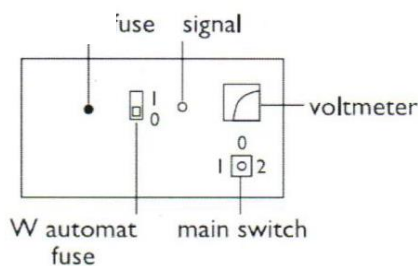
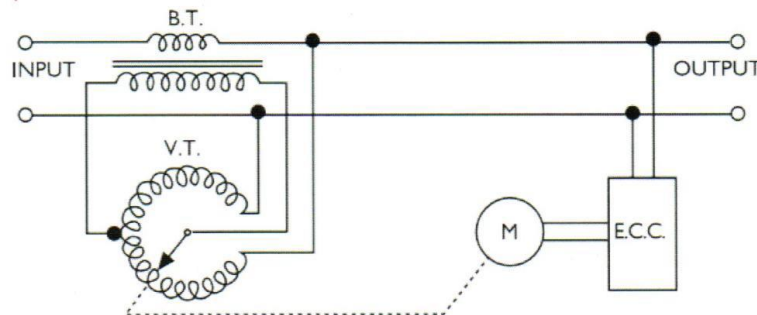


## ELECTROMECHANICAL VOLTAGE STABILIZERS VSER range from 3.5 to 50KVA

Electromechanical voltage stabilizers use a toroidal transformer (variable transformer), a BUCK-BOOST transformer and an electronic circuit that controls the rotation of the variable transformer, thus regulating the output voltage. With the control system, in a very fast response time, the high torque regulation motor adjusts small voltage variations very quickly. The servomotor 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 system is equipped with a bypass switch that allows you to power the load with the mains voltage in case of malfunction or need. By using the setting buttons, it is possible to adjust the output voltage, the precision range, the regulation speed, and the high-low voltage limits. It is then possible to adjust the maximum current control and the relative hysteresis time. All settings can be password protected. A display shows the input and output voltage, and the current supplied.



### SINGLE PHASE VOLTAGE STABILIZER WORKING PRINCIPLE



Front panel



Set-up and measure display

Dimensions and weight may be subject to a change without notice

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## ELECTROMECHANICAL VOLTAGE STABILIZERS VSER range from 3.5 to 50KVA

MODELLO VSER	103	105	107	110	115	120	125	130	140	150
power KVA	3.5	5	7.5	10	15	20	25	30	40	50
INPUT										
Input Voltage	230Vac 1ph + N									
Voltage Range	185Vac ~ 275Vac (230V±20%) [more ranges available on request]									
Input frequency	50/60Hz ±10%									
Input terminals	Terminal blocks					Bolts				
OUTPUT										
Output voltage	230Vac [different voltages available on request]									
Power Factor	0.85									
Output accuracy	± 1%									
Output current	13	18	28	37	55	74	92	111	148	185
Overload capacity	200% load 2"									
Output frequency	50/60Hz ±10%									
Regulation speed	150V / sec									
Efficiency	min. 98% at full load									
Output terminals	Terminal blocks					Bolts				
Display	Voltmeter with input/output voltage reading, current reading, setup									
PROTECTIONS										
Input protections	Automatic circuit breakers or fuses									
Output protections	Short circuit, overload, high-low voltage									
By-Pass	Manual bypass included									
OTHER DATA										
Max ambient temp.	-10° C ~ +60° C									
Max altitude	1000 m									
Relative humidity	95% (without condensation)									
Sound level	< 50dB									
Colour	RAL7016									
Dim. (WxDxH) cm.	48x36x27		53x43x30		57x47x32		27x57x88		57x67x93	
Weight kg.	22	30	40	46	53	72	125	130	165	200

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