

VSR

SINGLE PHASE 5-40KVA

SINGLE PHASE VOLTAGE STABILIZERS TECHNICAL SPECIFICATION PF=1



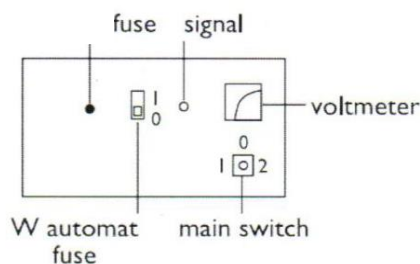
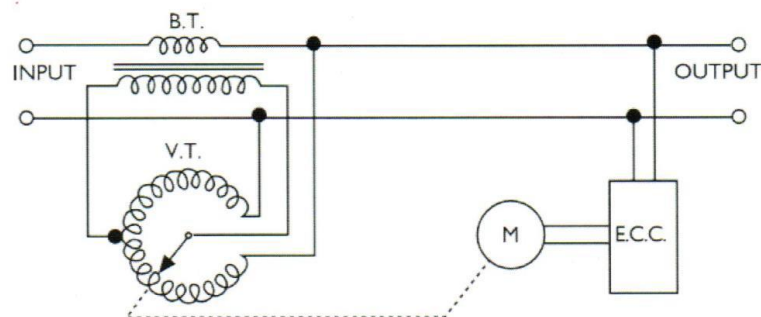
ELECTROMECHANICAL VOLTAGE STABILIZERS VSR range from 5 to 40KVA

VSR Servo Controlled voltage stabilizers use a toroidal transformer (variable transformer), a BUCK-BOOST transformer and an electronic circuit that controls the variable transformer rotation, thus adjusting output voltage.

With the control system which includes fast response time, high starting torque dc engine, it regulates the small voltage changes very fast. Servo-motor is put out of service by limit-switches when it is out of its working limits, and it is put out of service by control circuit when output voltage is automatically adjusted to the set value. When the regulation is complete the energy of the motor is cut by the help of electronic breaking circuit and it works silently.



SINGLE PHASE VOLTAGE STABILIZER WORKING PRINCIPLE



Front panel



Set-up and measure display

Dimensions and weight may be subject to a change without notice

K-FACTOR SRL unipersonale - Via Giotto 9 - 42014 Castellarano (RE) - Italy - VAT# IT 02422010369

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|-----------------------|--|-----|----------|-----|----------|-----|----------|-----|
| MODEL VSR | 105 | 107 | 110 | 115 | 120 | 125 | 130 | 140 |
| Power KVA | 5 | 7.5 | 10 | 15 | 20 | 25 | 30 | 40 |
| Cos-phi | from 0 to 1 | | | | | | | |
| INPUT | | | | | | | | |
| Input voltage | 230Vac 1ph + N | | | | | | | |
| Input voltage range | from 170Vac ~ 260Vac (other ranges available on request) | | | | | | | |
| Input frequency | 50/60Hz ±10% | | | | | | | |
| Input terminals | Terminal blocks | | | | | | | |
| OUTPUT | | | | | | | | |
| Output voltage | 230Vac | | | | | | | |
| Output accuracy | ± 2% | | | | | | | |
| Output current A | 22 | 32 | 43 | 65 | 86 | 108 | 130 | 173 |
| Overload capacity | 200% load 1’ | | | | | | | |
| Output frequency | 50/60Hz ±10% | | | | | | | |
| Regulation speed | 60-80V / sec | | | | | | | |
| Full load efficiency | min. 97% | | | | | | | |
| Output terminals | Terminal blocks | | | | | | | |
| Display | Digital Voltmeter with output voltage reading, Digital A-meter | | | | | | | |
| PROTECTIONS | | | | | | | | |
| Input protection | Automatic circuit breaker | | | | | | | |
| Output protection | Overload – short circuit – Under/over voltage | | | | | | | |
| By-Pass | Manual bypass included | | | | | | | |
| RFI/Harmonic filter | Optional | | | | | | | |
| Isolation transformer | Available on request | | | | | | | |
| OTHER DATA | | | | | | | | |
| Max ambient temp.°C | -10° C ~ +40° C | | | | | | | |
| Altitude | 1000 m | | | | | | | |
| Humidity | 95% (without condensation) | | | | | | | |
| Noise level | < 50dB | | | | | | | |
| Colour | RAL7016 | | | | | | | |
| Dim. (WxDxH) cm. | 52x35x27 | | 55x45x30 | | 55x55x90 | | 55x65x90 | |
| Weight kg. | 40 | 46 | 53 | 70 | 125 | 130 | 165 | 200 |

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