- I Compensation without stages, instant compensation.
- I No maintenance, it has no electromechanical components.
- I Expandable, enables parallel installation of up to 100 filters.
- I Datalogger, internal memory for logging electrical parameters.
- I Plug & Play, easier to install.

Expandable, up to 100 filters



Applications



Industry



Tertiary sector



Telecommunications

References

| Туре | Code | Phase current (A) | Total reactive power (kvar) | EMI filter |
|------------------|---------|----------------------|--------------------------------|---------------|
| SVG-3WS-30k-480 | R7NSTB. | 44 | 30 | _ |
| SVG-3WF-30k-480 | R7NST3. | 44 | 30 | • |
| SVG-3WF-100k-480 | R7NST5. | 145 | 100 | • |
| SVG-3WF-200k-480 | R7NST7. | 290 | 200 | • |
| SVG-3WM-100k-480 | R7NSTM. | 145 | 100 | _ |

Technical features

| Network voltage | | | | | |
|--|--|--------------------------------------|------------------|--|--|
| Voltage | 230 - 480 V phase-phase +/-10% | | | | |
| Frequency | 50/60 Hz +/-5% | | | | |
| Maximum THDv | 25% | | | | |
| Power | SVG-3WS-30k-480 SVG-3WF-30k-480 | SVG-3WM-100k-480 SVG-3WF-100k-480 | SVG-3WF-200k-480 | | |
| Maximum consumption | 1050 W | 4000 W | 8000 W | | |
| Maximum reactive power | 30 kvar | 100 kvar | 200 kvar | | |
| Maximum current (phase) | 44 Arms | 145 Arms | 290 Arms | | |
| Current measurement | | | | | |
| Туре | 3 or 2x transformer: 5/5 5000/5 A Class 1 or higher (0.5 - 0.2-0.2 S) Frequency response up to 2500 Hz / 3000 Hz (60 Hz) | | | | |
| Features | | | | | |
| Power factor correction | Adjustable, target 0.7 inductive0.7 capacitive | | | | |
| Parallel installation | Due to 100 devices/racks (SVG 30 kvar / SVG 100 kvar) Due to 50 devices/racks (SVG 200 kvar) Connection of CT, only to the "master" unit Advanced processing algorithm: Maximisation of the working life of units (alternating unit operation). Maximisation of operating efficiency (only the required filters are activated). Allows redundancy (system operation in the event of unit failure). | | | | |
| | | | | | |
| User interface | Colour 3.5" touch screen Web server and datalogger | | | | |
| Ethernet | TCP/IP Modbus TCP | | | | |
| Installation | | | | | |
| Installation category | CAT III 300 V | | | | |
| Pollution degree | 2 | | | | |
| Operating temperature | -10 45 °C | | | | |
| Storage temperature | -20 50 °C | | | | |
| Relative humidity | 095% (without condensation) | | | | |
| Maximum altitude | 2000 m | | | | |
| Degree of protection | IP20 | | | | |
| Build features | | | | | |
| Dimensions (width x height x depth) | > SVG-3WS-30k-480 (435 x 600 x 257 mm) > SVG-3WF-30k-480 (435 x 705 x 257 mm) > SVG-3WF-100k-480 (600 x 1836 x 822 mm) > SVG-3WF-200k-480 (600 x 1836 x 822 mm) | | | | |
| Weight | > SVG-3WS-30k-480 (31 kg) > SVG-3WF-30k-480 (31 kg) > SVG-3WF-100k-480 (206 kg) > SVG-3WF-200k-480 (276 kg) | | | | |
| Noise | < 65 dBA | | | | |
| Standards | EN 62477-1:2012, EN 55011:2011, EN 61000-6-2:2006, EN 61000-6-4:2007, IEC 61439-1:2011 | | | | |



CIRCUTOR, SA - Vial Sant Jordi, s/n 08232 Viladecavalls (Barcelona) Spain Tel. (+34) 93 745 29 00 - Fax: (+34) 93 745 29 14 central@circutor.com Power factor correction and harmonic filtering

SVG

Static Var Generator

The most versatile compensation system





More accurate compensation

- I The **SVG** Static Var Generator is an electronic reactive power compensation system, for both capacitive and inductive power. It has the same operating principle as an active filter; the **SVG** injects a current in the opposite direction to counteract the installation's non-useful power (inductive and capacitive), thus ensuring that the target cosφ is achieved.
- I The **SVG** instantly compensates and adjusts according to demand in a matter of milliseconds. It also compensates phase to phase in unbalanced systems. The **SVG** is the perfect device for installations where there are strict penalties for the consumption of reactive power.



Benefits

I Instant compensation

The system has a response time below 20 ms, offering highly efficient operation thanks to the development of IGBT technology.

I Minimal maintenance

It has no electromechanical components, so no spare parts are required.

I Stable network voltage

The output current is not affected by fluctuations in the network voltage.

I No resonance

SVG technology generates no resonance with the installation's harmonics.

Zero penalties

For installations that have problems with fluctuating load currents and imbalances, the SVG is the system that fixes these problems when a capacitor bank is unable to correct them. The SVG continuously reduces the reactive power, always ensuring that the target $\cos \varphi$ is achieved, both for inductive and capacitive loads.

Built-in web server

SVG features an Ethernet port to access its web site from any browser, to enable you to monitor instantaneous parameters and download data and events stored online, without having to download a software application.

I Touch-screen display

Touch-screen HMI display for quick management and configuration of the unit. It can also display the onsite filter data.

