



from 30 kvar to 100 kvar as PFC from 21 Amps to 72 Amps as AHF

SVG (Static VAR Generator) is a fully automatic systems which provides Power Factor Correction, Harmonic filtering and phase balancing.

Power Factor Correction;

thanks to its electronic operation (no capacitors and contactors) it's able to operate on both inductive and capacitive loads (or both) with elevated harmonic content (until THDi > 80 % and THDv > 15%)

Active Harmonic Filter;

as an Active Harmonic Filter, SVG can reduce the THD values less than 3%, operating from the 2nd to the 25th harmonic order

Phase balancing;

SVG is able to balance the phases, reducing to zero the current to the Neutral

General features

Display touch-screen 4.3"
Redundant operation
Serial port RS232, RS485, Modbus operation
Over 500 available alarms and signals

Applications

Heavy industry, Data Center
Cement plant, Paper mills
Building Automation, Automotive



Code	AXG3R...
Rated Voltage	400 – 415 V \pm 10%
Mains Frequency	50/60 Hz \pm 3Hz
Power Factor Correction	-1..+1 (inductive and capacitive compensation)
kVAr / Amps	from 30 kvar to 100 kvar as PFC / from 21 Amps to 288 Amps as AHF
Inverter Typology	3-level typology, IGBT
Harmonic mitigation performance	From 2° to 25° order (even and odd harmonics)
Harmonic residue	<3% (typical reduction with load harmonic above 50% unit rating)
Non Linear Loads	All 3-phase Loads, with or without neutral wire
Load balancing	100 % unbalanced full compensation, unloading neutral wires
Alarms	Overvoltage, overcurrent, overtemperature (>500 alarms)
Insertion time	< 100 μ s
Sampling rate	200 kHz
Switching frequency	80 kHz
Cooling system	Automatic
Working temperature	-10°C/+50°C Up to 55°C, derating 3% per Celsius)
Noise Level	< 60 db
Altitude	< 1500 m without derating , up to 4000 m derating 1% /100 m
Ambient conditions	Relative humidity < 95 % non condensing, Pollution degree 2 Temperature: Storage 55°C, Transportation -25°C to 75 °C
Power Losses	< 3 % under full mitigation performance
Color	RA7035
Dimensions	(W*H*D) 554*250*656 mm (approximate, to be defined in reference to the size)
Degree of protection	IP20
Standards	IEC 61000-4-2, 4-4, 4-5, 4-6 EN 61000-3-11, 3-12, EN 61000-6-2, EN 62477-1, EN 61800-3, EN 50160