



we are
looking for
Partners
Distributors



**POWER FACTOR CORRECTION
IN LV NETWORKS FROM 230V UP TO 690V 50HZ / 60HZ**

▶ ADVANTAGEOUS DESIGN

- Complete range: from 230 V up to 690 V 50 HZ/ 60 HZ
- Modular design : adapts to the constraints of the installation site
- IP42 protection degree
- Designed to operate in ambient temperatures up to 45°C
- Limited floor space
- Wide choice of options

Fixed type



Automatic type



In addition for the S range

- Detuned reactors isolated in a separate compartment to protect the capacitors from overheating
- Each compartment has its own extraction and heat protection system.
- Scalability: The Varsys H series cabinets (reinforced type), originally without detuned reactors, can be equipped with reactors afterwards if necessary.



10 GOOD REASONS TO CHOOSE VARsys®



1 Range entirely tested and certified

- ✓ All the range has been tested in laboratory
- ✓ Certificate of conformity to IEC 61921 : 2017 and IEC 61439-1 : 2014
- ✓ 100% of the products are tested at full load in the factory before delivery



2 Design for easy preventive maintenance. All connections are visible on the front side.

3 Fire/overheating Protection system

4 Optimal electrical protection

5 VARcap® cylindrical capacitors over-reinforced

6 4 levels of protection against overheating

7 Possibility to connect directly to the Normal/ Emergency busbar (Genset)

8 The most advanced intelligent PFC controller on the market Genius® A316

9 Optimized floor space

10 100% of the products tested before delivery

The components

VARCap®

VARCap® series represents a new generation of power factor correction (PFC) capacitors based on the MKK AC technology from TDK®. This breakthrough technology has brought the following innovations :

- ✓ Self-healing polypropylene film
- ✓ Pressure sensitive disconnecter on 3 phases
- ✓ Biodegradable soft resin
- ✓ Pre-installed ceramic discharge resistors
- ✓ Finger protection terminals
- ✓ High thermal efficiency
- ✓ Vertical or horizontal installation
- ✓ High long-term stability.



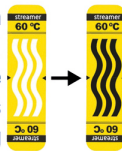
Technical data

- > Voltage range 230 V ... 1000 V
- > Power range 5.0 kvar ... 50 kvar
- > Extended life expectancy up to 240,000 hours
- > Supports a maximum current $I_{max} = 2.0 \cdot I_r$ (including the combined effects of harmonics, overvoltages and capacitance tolerance the standard only requires $1.3 \cdot I_r$)
- > Supports inrush current up to $500 \cdot I_r$
- > Up to 15,000 operations per year
- > Maximum operating temperature 60°C
- > IP20 degree of protection
- > Complies with IEC 60831-1 and -2 standards

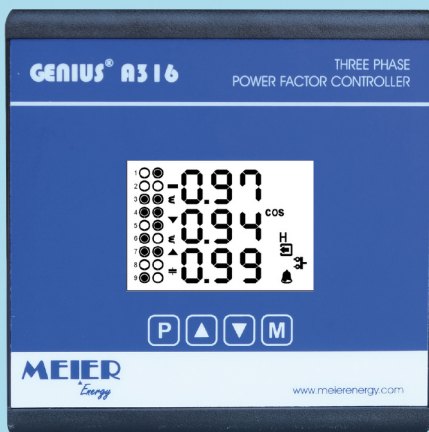


Fipres fire protection system

Each capacitor is fitted with a vFPT label which allows a simple visual inspection of whether the capacitor has exceeded its maximum operating temperature (60°C).



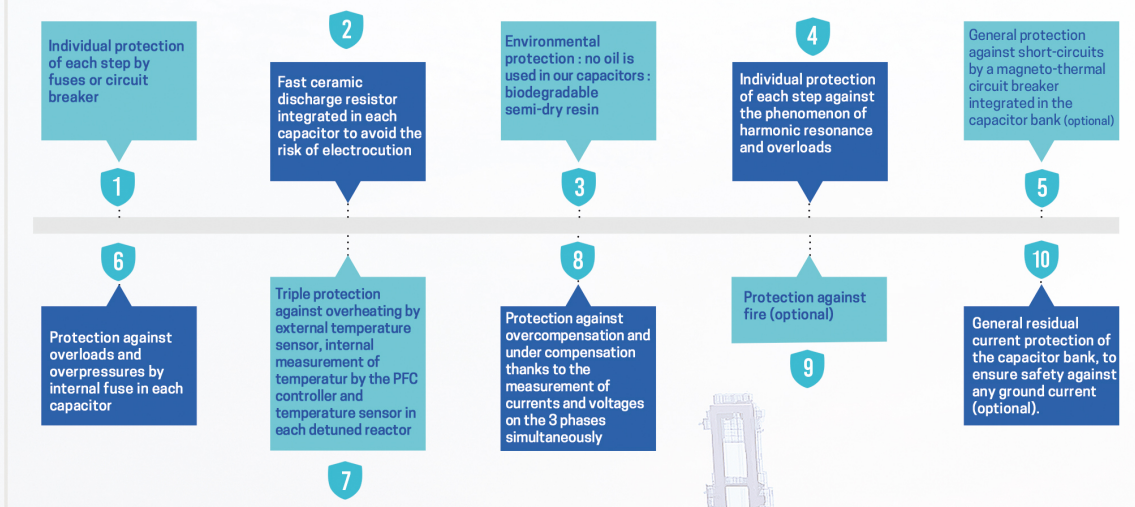
Genius® PFC controller



Features of Genius® A316

- ✓ Current and voltage measurement on the 3 phases
- ✓ Management of capacitor banks with single-phase, two-phase or three-phase reactors and capacitors.
- ✓ Load balancing function (management of single-phase, two-phase and/or three-phase steps)
- ✓ Capacitor Harmonics Load measurement (CHL) which permits to detect the resonance phenomenon
- ✓ Real-time measurement of the real power of each step (P and Q)
- ✓ Network analyzer function class 0.2s.
- ✓ Up to 3 external alarm outputs.
- ✓ 1 external input : allows to detect the switch to Genset or the activation of the emergency stop and to deactivate instantly all the steps
- ✓ USB port for programming and parameterization
- ✓ RS485 communication port (Modbus).

10 LEVELS OF PROTECTION FOR MAXIMUM SECURITY



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Factory & Sales Office in Morocco



Sales office for Europe



14, Parc d'activités Oukacha 1, Bd. Moulay Slimane, Roches Noires - Casablanca, MAROC



+212 522 451 501



sav-ma@meierenergy.com



Lull 321, Edificio CINC, 08019 Barcelona, SPAIN



+34 935 530 742



sales@meierenergy.com