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**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



Enclosure 50 to 300kVAR  
Type equipped with detuned filter

Cabinet 125 to 300kVAR  
Standard range or reinforced type

Wall mounted cabinet 5 to 100kVAR  
Standard range or reinforced type

Automatic type



Cabinet from 100 to 350kVAR  
Standard or reinforced types

Wall-mounted cabinet 5 to 100kVAR  
Standard range or reinforced 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.



Enclosure from 375 to 600kVAR  
Standard or reinforced types

Enclosure from 625 to 1200kVAR  
Standard or reinforced type

Enclosure from 50 to 300kVAR  
With detuned filters

Enclosure from 300 to 600kVAR  
With detuned filters

Enclosure from 625 to 1200kVAR  
With detuned filters

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



### Fires 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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