



## ALPIVAR3 - Fixed power factor correction

Part number: V2.540CB



ALPIVAR3 capacitors are totally dry units designed by combining individual single phase windings connected in delta to produce a three-phase unit.

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### 1. Technical data

Range:	ALPIVAR3 (with terminal cover)
Type:	Standard
Nominal power:	2.5 kVAr
Nominal voltage:	400 V - 50 Hz - Tri
Max permissible voltage:	470 V
Max permissible current:	1.3 In
Harmonic level:	THDU < 2% & THDI < 5%
	SH/ST ≤ 15%
Insulation class:	6 kV / 25 kV
Loss factor:	0.3 W / kVAr (including discharge resistor)
Temperature class:	-25°C / +55°C
	Average over 24H: +45°C
	Annual average: +35°C
Weight:	3.5 kg
Dimensions (W x D x H mm) :	225 x 90 x 275
Type :	Indoor
Storage :	-30°C / +60°C
Environment :	Dry
	Dust-free
	Non-corrosive
	Vibration-free
Standard:	IEC 60831-1 and 2

### Safety per coil:

- Self-healing metallised polypropylene film
- Electrical fuse
- Overpressure disconnecter

### Discharge resistors:

Fitted inside, they discharge the capacitor according to regulations (discharging time: 3 minutes).

### Loss factor:

Alpivar3 capacitors have a loss factor less than  $0.1 \times 10^{-3}$ . This value leads to a power consumption of less than 0.3W per kVAr, including discharge resistors.

### Capacitance :

Tolerance on the capacitance value: +/- 5%. Our manufacturing process, which avoids any inclusion of air in the coils, ensures excellent stability of the capacitance throughout the service life of the Alpivar3 capacitor.

### 3. Additional equipment

Protection against overloads and short circuits with HRC fuses or circuit breaker.

Power cables with minimum cross section of 6 mm<sup>2</sup> Cu / phase.

### 4. Installation instructions

Wait for 3 minutes before reconnecting the capacitor in compliance with mandatory discharging time.

Power cable connections on M8 screw, H head, with captive washers, tightening torque between 11 and 15 Nm.

External environment for the capacitor bank:

- Dry and dust free
- Non-corrosive
- Maximum temperature: +55°C
- Average over 24 hours: +45°C
- Annual average: +35°C

For more details on the commissioning and maintenance, refer to installation instructions.

### 2. Description

#### Double insulation or class II:

No need for earthing. This guarantees a total safety.

#### Totally dry:

No risk of leakage: can be installed in any position.

#### Self-extinguishing polyurethane resin casing:

Very robust, compact, non corrosive.

#### Internal connexions:

Made with copper bars bolted between the different components (no risk of corrosion, untightening and overheating).

#### Vacuum coating technique for windings (patented by Alpes Technologies):

Vacuum sealing insures no air or moisture nearby windings. This design provides an excellent resistance to overvoltages and partial discharges.