



ALPIBLOC - Fixed power factor correction

Part number: BS.RS28840.189



Alpibloc capacitor bank, SAH type, extra-reinforced class, is a fixed PFC system, with detuned reactor, built-in circuit breaker, mounted and wired in a cabinet.

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1. Technical data

Range:	ALPIBLOC
Type:	SAH, Extra-Reinforced Class
Nominal power:	288 kVAr (4 x 72 kVAr fixe)
Nominal voltage:	400 V - 50 Hz - Tri
Max permissible voltage:	620 V (capacitors)
Harmonic level:	THDU > 6% et THDI > 40%
	SH/ST > 50%
Insulation class:	6 kV / 25 kV
Loss factor:	6 W / kVAr
Temperature class:	-10°C / +45°C
	Average over 24H: +40°C
	Annual average: +35°C
Weight:	385 kg
Dimensions (W x D x H mm) :	1000 x 600 x 2100
Type :	Indoor
Storage :	-30°C / +60°C
Environment :	Dry
	Dust-free
	Non-corrosive
	Vibration-free
Conforming to standards:	IEC 60831-1 and 2

2. Description

This fixed capacitor bank includes:

- **4 fixed steps made of:**
 - 1 ALPIVAR² capacitor:
 - Totally dry unit (without oil impregnation)
 - Double insulation or class II
 - Internal electrical protection by self-healing film, electrical fuse and disconnection device in case of overpressure
 - With discharge resistors (discharging time 3 minutes)
 - Complies with international standard (IEC 60831-1 & 2)
 - 1 detuned reactor, three-phase, extra-reinforced class:
 - Tuning frequency = 215 Hz
 - Blocking factor p% = 5.4%
 - Thermal protection by temperature probe

- **1 circuit breaker 800 A, thermal setting at 700 A, I_{sc}=50 kA/400 V**
- **1 three phase power connection (copper busbar 30 x 5 mm with M10 screw)**
- **1 cubicle in which are mounted and wired the above components:**
 - IP 31-IK 05
 - Power cable entry from the bottom of the cabinet (from the top on request)
 - Ventilation louvers on the front, sides and rear
 - RAL 7035 grey, black base (height = 100 mm)

3. Additional equipment

Power connecting cables with minimum cross section of 2 x 120 mm² Cu / phase.

4. Installation instructions

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

External environment for the cubicle:

- Dry and dust free
- Non-corrosive atmosphere
- Maximum temperature: +40°C
- Average over 24 hours: +35°C
- Annual average: +25°C

A minimum clearance distance of 200 mm must be respected against any obstacle (wall, distribution board) to insure good ventilation.

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