ALPES TECHNOLOGIES
P.A.E. des Glaisins
7, Rue des Bouvières - B.P. 332
74943 Annecy-Le-Vieux Cedex - France
Tél : 0033 (0) 4 50 64 05 13 – Fax : 0033 (0) 4 50 64 054 37
www.alpestechnologies.com

A Group brand legrand

ALPIMATIC RACK

Part number: R7.R4040.189

R7 Alpimatic racks are factory connected units for integration in universal cabinets (800 x 500 mm) in order to build automatic PFC systems.

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1. Technical data

Range:	ALPIMATIC RACK
Type:	SAH, Reinforced Class
Nominal power:	40 kVAr
Nominal voltage:	400 V - 50 Hz - Tri
Max permissible voltage:	520 V
Harmonic level:	4% < THDU < 6% & 20% < THDI < 40%
	35% < SH/ST ≤ 50%
Loss factor:	6 W / kVAr
Temperature class:	-10℃ / +45℃
	Average over 24H: +40℃
	Annual average: +35℃
Weight:	52 kg
Dimensions (W x D x H mm) :	700 x 458 x 325
Type :	Indoor
Storage :	-30℃ / +60℃
Environment :	Dry
	Dust-free
	Non-corrosive
	Vibration-free
Standard:	IEC 61439-1 and 2

2. Description

This rack includes:

- **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, reinforced class:**
  - Tuning frequency = 189 Hz
  - Blocking factor p% = 7%
  - Thermal protection by temperature probe
- **1 electromechanical contactor suitable for capacitive currents (coil 400 Vac).**
- **1 Protection by 3 HRC fuses, gG type.**
- **1 set of modular copper busbars with junction bars for connecting several racks in parallel.**
- **1 steel frame on which the components are assembled and wired.**

3. Recommendation for installation

Wait for 3 minutes before reconnecting the capacitor in compliance with mandatory discharging time. This parameter must be set in the power factor controller.

The capacitor bank must be protected against overloads and short circuits with a thermal-magnetic circuit breaker.

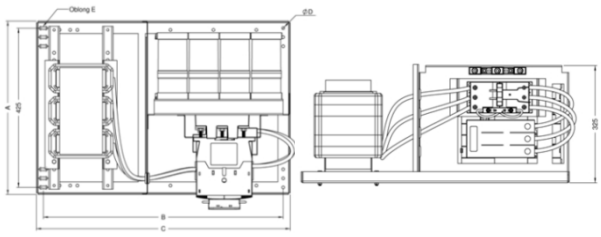
External environment for the capacitor bank:

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

Once assembled in cubicle 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.

4. Dimensions



A	B	C	D	E
458	665	700	8,2	24 x 8,2 mm