

# RPC

Racks for standard 19" Data and Power Center cabinets



The **RPC** capacitor racks have been specifically designed for installation inside panels made up of a modular structure suitable for housing 19-inch racks. This dimension is the market standard for hardware elements (eg UPS, servers, routers, ...) to be inserted into cabinets for **Data** and **Power Centers**.

## PERFORMANCE DATA

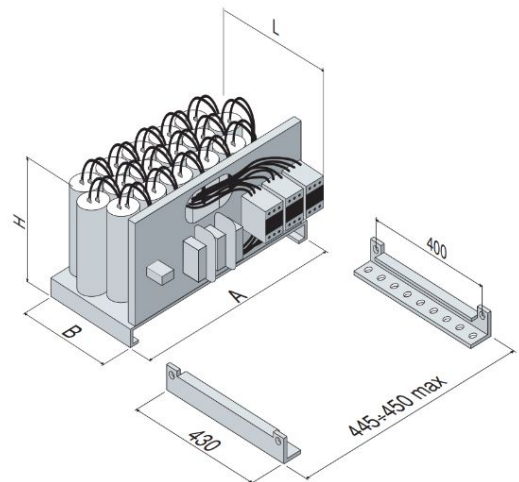
- Capacitance tolerance -5% / +10
- Rated frequency 50 Hz
- Supply Three-phase + ground
- Max. allowable voltage 1,1 Un (max. 8 /24 h)
- Safety device Overpressure disconnecter
- Auxiliary circuits 230 Vac (110 Vac on request)

## HARMONIC CONTENT (in absence of resonance)

- RPC-B15: THD(I)max. = 15% on the network
- RPC-B50: THD(I)max. = 35% on the network

## TECHNICAL DATA

Frame	In galvanized steel sheet.
Ventilation	Not provided. By the installer / assembler.
Installation	Indoor, in carpentry not exposed to direct sunlight.
Degree of protection	IP 00.
Fuses	Capacitive banks are protected by three fuses. The protection system of the power circuits (fuses NH-00 curve gG) foresees the use of fuses with high breaking capacity (100kA).
Contactors	Suitable for switching capacitive loads with pre-insertion resistors.
Capacitors	Single-phase capacitors in self-regenerable metallised polypropylene (MKP), equipped with an explosion-proof device and discharge resistance. They are impregnated in vegetable oil, free of PCBs. Triangle connection. Type of continuous service. • rated voltage / max. voltage: - B15: 415 Vac / 450 Vac - B50: 500 Vac / 550 Vac • overvoltage: 1.1 x Un (8h / 24h) • current overload: 1.3 x In • tolerance on capacity: -5% / + 10% • dissipation losses: $\leq 0.4$ W / kvar
Thermal category	-25°C / D.
Room temperature	-5°C / +40°C



## QUALITY AND TESTING

Regulations	IEC / EN 60831-1/2. EN 61921.
European directives	Low voltage: 2014/35/CE; Electromagnetic compatibility: 2014/30/CE.

### CONFIGURATIONS

#### Notes

- Rated power is expressed at 415 V - 50 Hz.
- To protect the capacitor banks, an insulation and protection device must be installed in the power supply line. Racks must be grounded.

The racks are available in two different versions, for applications with different voltage harmonic content allowed on the network

**RPC-B15:** THD(I)max. = 15% on the network  
THD(Ic)max. = 50% on the capacitors

**RPC-B50:** THD(I)max. = 35% on the network  
THD(Ic)max. = 80% on the capacitors

#### Table

Code	Type	Qn (kvar)	In (A)	Power per bank			Steps combination (n)	Dimensions A x B x L x H (mm)	Weight (kg)
8701412250320	RPC-B15	25	35	12,5	12,5		2 x 12,5	440 x 340 x 490 x 270	11
8701412375320	RPC-B15	37,5	52	12,5	25		3 x 25	440 x 340 x 490 x 270	13
8701412500320	RPC-B15	50	70	12,5	12,5	25	4 x 12,5	440 x 340 x 490 x 270	17
8701412750320	RPC-B15	75	104	25	25	25	3 x 25	440 x 340 x 490 x 270	19
8701413100320	RPC-B15	100	139	25	25	50	4 x 25	440 x 340 x 490 x 270	23
8701414010320	RPC-B15	100	139	50	50		2 x 50	440 x 340 x 490 x 270	23
8721412250350	RPC-B50	25	35	12,5	12,5		2 x 12,5	440 x 340 x 490 x 270	13
8721412375350	RPC-B50	37,5	52	12,5	25		3 x 25	440 x 340 x 490 x 270	15
8721412500350	RPC-B50	50	70	12,5	12,5	25	4 x 12,5	440 x 340 x 490 x 270	19
8721412750350	RPC-B50	75	104	25	25	25	3 x 25	440 x 340 x 490 x 270	21
8721413100350	RPC-B50	100	139	25	25	50	4 x 25	440 x 340 x 490 x 270	25
8721414010350	RPC-B50	100	139	50	50		2 x 50	440 x 340 x 490 x 270	25

Other solutions are available upon request.