

3000 Series

Automatic Capacitor Banks with cool system incorporated.
For networks with low/medium harmonic distortion
< 30% THD in current [50 – 400Kvar / 440V 50Hz].



The new automatic capacitors bank 3000 series is an authentic revolution in the Power factor Correction market. The maintenance free cold Peltier system which has been incorporated in, not only improves and extends the expected life of the equipment, but also protects it from failures caused by high temperatures and tropical climates.

System advantages

- Increase of the 30% in the life expectancy of capacitors and contactors.
- It prevents from heating in wiring and protections.
- Low electrical consumption.
- Peltier ecologic cool system without CFC, maintenance free.
- The ideal solution for warm and humid environments.
- It avoids failures and fuses breaking due to high level of environmental temperature.
- This equipment ensures an inside average temperature of 25°C during the warmest months of the year.

Technical specifications

- Rated voltage: **440V – 50Hz.**
- Admissible working voltage range: **380 – 440V.**
- Maximum admissible current: **1,3 IN.**
- Tolerance of capacitance: **0 + 10 %.**
- Insulation test:
 - MAIN POWER CIRCUIT:
Operating voltage (U): **440V.**
Testing voltage: **2.500V** between terminals and terminals to case
 - AUXILIAR CIRCUIT:
Testing voltage: **2 x U + 1.000V**, but not less than **1.500V** between terminals and terminals to case.
- Temperature category:
 - Maximum ambient temperature: **50° C.**
- Life expectancy:
 - Capacitors: **>150.000 h.**
 - Capacitor Duty Contactors: **> 260.000 times.**
- Auto-transformer: **440V / 230V integrated.**
- Protection level: **IP55.**
- Colour: **RAL 7032.**
- Standards:
 - CE Conformity:

- 73/23/CEE Directive, about safety (and following amendments).

- 89/336/CEE Directive, about electromagnetic compatibility (and following amendments).

Above mentioned product is made according to the following harmonization standards:

- IEC 60439-1:1999 (UNE-EN 60439-1:2001), Low-voltage switchgear and control-gear assemblies - Part 1: Type-tested and partially type-tested assemblies.

- IEC 61921:2003 (UNE-NE 61921:2003), Power capacitors - Low-voltage power factor correction banks.

Moreover, all capacitors used are manufactured and tested according to established regulations in the standards:

CEI 60831-1:1995 (UNE-EN 60831-1: 1998).

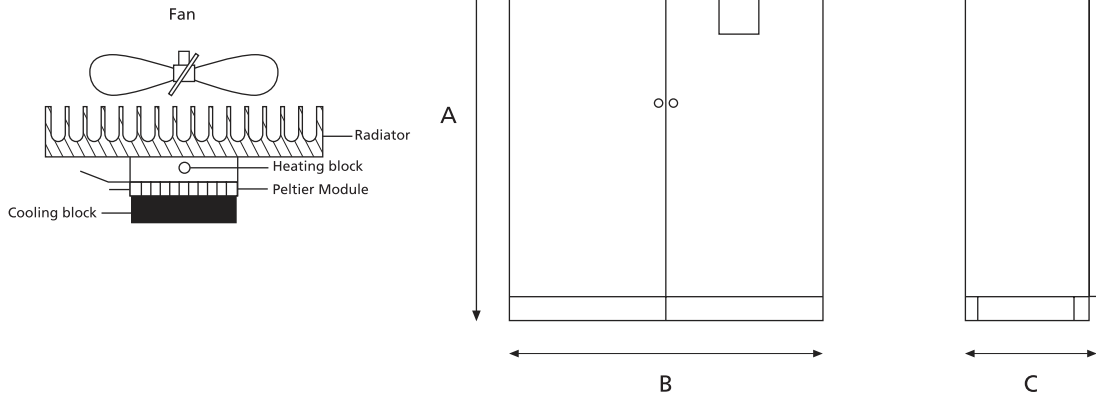
CEI 60831-2:1995 (UNE-EN 60831-2: 1998).

Standard equipment

- Peltier cooling ecologic system without CFC.
- New generation of reactive energy controller V650 with a powerful microprocessor.
- Capacitor duty contactors.
- Three-phase capacitors of TR30 series with internal safety system.
- Step protection fuses.
- Copper-plated bus-bars.
- Equipment manufactured using exchangeable modules 1000 series, easy to access and maintenance.
- Top quality metal cabinet specially designed for the 3000 series.
- Halogen free internal wiring.

Optional equipment

- Three-pole on-load circuit breaker.
- Automatic thermo-magnetic circuit breaker MCCB (Mini Circuit Contact Breaker).
- ELCB Residual current circuit breaker.
- Specially protected cabinets for outdoor installation (polyester, stainless steel, etc.).
- Special colours.



3000 Series
50 - 400Kvar / 440V 50Hz

3000 Series

Code	Power (Kvar)	Voltage (V)	Steps	Dimensions			Weight (Kg)
				A	B	C	
MC050440	50	440	10 + 20 + 20	CONSULT			CONSULT
MC075440	75	440	12,5 + 12,5 + 25 + 25	CONSULT			CONSULT
MC100440	100	440	10 + 20 + 30 + 40	CONSULT			CONSULT
MC125440	125	440	25 + 50 + 50	CONSULT			CONSULT
MC150440	150	440	25 + 25 + 50 + 50	CONSULT			CONSULT
MC200440	200	440	2 x 25 + 3 x 50	CONSULT			CONSULT
MC250440	250	440	5 x 50	CONSULT			CONSULT
MC300440	300	440	6 x 50	CONSULT			CONSULT
MC350440	350	440	7 x 50	CONSULT			CONSULT
MC400440	400	440	2 x 50 + 3 x 100	CONSULT			CONSULT

► Other power ratings, voltages, steps or frequencies available upon request
It's recommended before choosing equipment to analyse the net.
For Harmonics value > 2,5 % THDV, please refer to our Technical Department.



Halogen Free



Do Not Spread Flame



Built-In Cooling System



Safety System



Technical Service