

# Three-Phase Medium-Voltage Capacitors

bree



## Application

Bree Three-Phase Medium-Voltage Capacitors use cutting-edge technology to efficiently secure the following applications in electrical systems:

- Power factor correction in industrial motors and busbars;
- Shunt compensation of reactive power;
- Passive harmonic filtration.

## Fully Tested Equipment

- 🧪 Bree has its own laboratory that allows it to conduct the routine, type, and special tests set out in international standards (IEEE 18 and IEC 60871).
- 🏆 Bree's own manufacturing plant has ISO 9001, ISO 14001, and ISO 45001 certification.
- 🏆 Bree is the nation's largest 100% Brazilian manufacturer of capacitors. The BR in our name stands for Brazil.



## Design Features

All of our capacitors are manufactured as per the following technical specifications:

- "All-film" technology (dielectric with a polypropylene film) with an aluminum foil and a folded margin;
- Impregnation with WEMCOL II biodegradable oil, providing the best operation at different temperatures;
- Vitrified porcelain bushings as insulators, welded directly to the tank;
- Capacitance tolerance of -5% to 10%;
- Discharge resistor: 50V in 5 min. or 75V/10%; (call us for other values and times)
- Installation altitude: 1,000 AMSL; (call us for higher altitudes)
- PCB-free equipment;
- Temperature class: -40 °C to +50 °C. (call us for other temperatures)



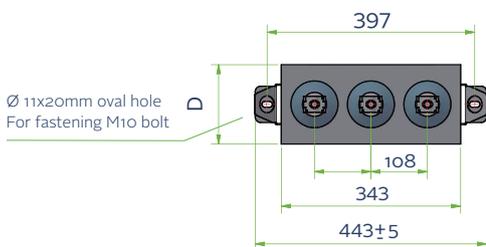
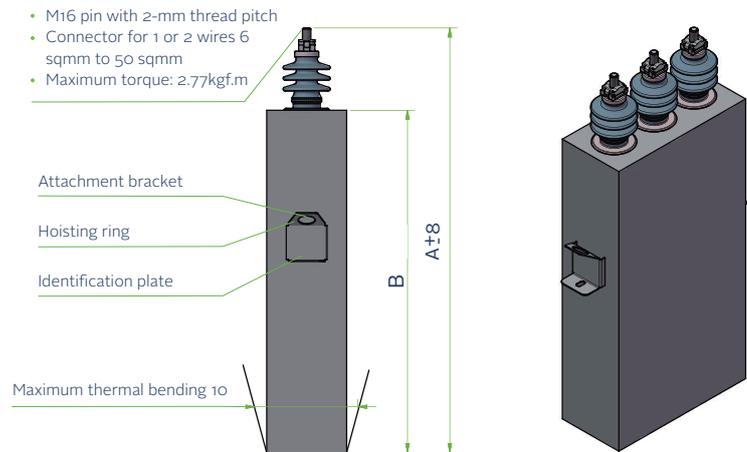
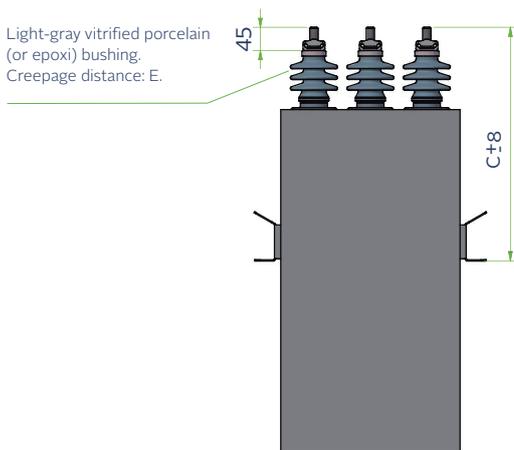
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## Typical values for capacitors

POWER (KVAR)	VOLTAGE (Vrms)	DIMENSIONS (mm)				
		A	B	C	D	E
50	2.700 to 7.200	320	160	320	130	200
75	2.700 to 7.200	350	190	350	130	200
100	2.700 to 7.200	380	220	380	140	200
150	2.700 to 7.200	450	290	450	140	200
200	2.700 to 7.200	510	350	450	153	200
300	2.700 to 7.200	620	460	450	153	200
350	3.300 to 7.200	720	560	450	153	200
400	4.160 to 7.200	780	620	450	153	200
450	4.160 to 7.200	820	660	450	153	200

- Under request, Three-phase capacitors can be made for voltages up to 15kV.

## Three-phase power capacitor



### Notes:

- Dimensions subject to changes without prior notice.
- Upon request: other voltages, powers, and capacitances may be considered.
- Size "C" may be changed at the client's request so as to adjust the attachment of the capacitor to the existing fastening structure.
- Capacitors with a nominal voltage above 7,200V may be supplied upon a prior request with the desired dimensions.
- Alternatively, epoxy resin bushings may be supplied, which provide superior mechanical rigidity and consequentially increased resistance against insulating liquid leaks. Dimensions must be verified.

