



The range of **BMT** capacitor banks type capacitor banks offers various solutions for industrial power factor correction thanks to the many combinations that can be made:

- small and high powers;
- working voltages greater than 24 kV obtained with overlapping frame structures (see the following paragraphs);
- indoor and outdoor installations;
- constructions on fully open structures (IP rating 00) or in special boxes (for powers up to 14.4 Mvar-24 kV also with degree of protection IP 54);
- different levels of insulation;
- operation under harsh working and environmental conditions;
- making filters for harmonics;
- special user requirements.

In addition, these capacitors banks offer several advantages:

- easy installation operations thanks to the complete line of accessories offered;
- optimization of the installation thanks to the systems fitted for connections to the various systems;
- simplification of the transport and handling operations thanks to the construction in compact and versatile structures;
- easy maintenance operations;
- different possibilities of making the frames, including hot galvanized steel or stainless steel frames (for corrosive environments).

These banks are composed of a number of single-phase capacitors that are assembled and interconnected in order to obtain greater power the connection is normally DELTA with insulated neutral. In addition to the capacitors and frame, the supply normally includes:

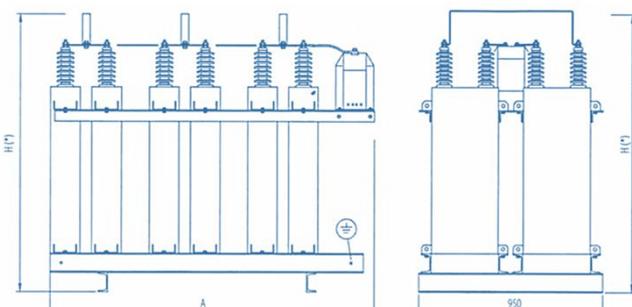
- post insulators;
- connection bars;
- protection via transformer and unbalance relay;
- damping reactors.

It is moreover possible to install other accessories and components such as:

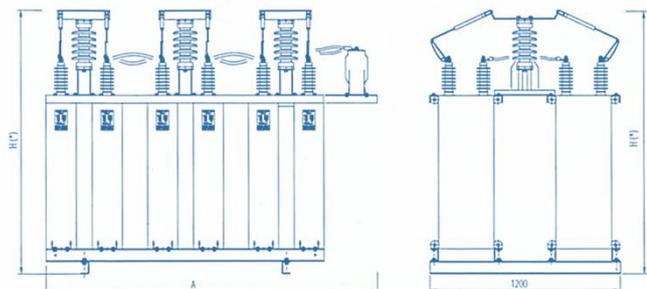
- fast discharge devices;
- harmonic block or filter reactors;
- earthing and/or line disconnector switches;
- HRC fuses (for indoors) or expulsion fuses (for outdoors);
- current and voltage transformers and relays for protection against overloading, short-circuiting, etc..
- electromechanical interlock systems for correct bank operation
- systems protecting against contact for the working personnel;
- exchangers and ventilation systems (for banks in boxes);
- space heater elements (for banks in boxes);
- other accessories on request.

Below we share an overview of the capacitor banks in the most widely used standard versions; besides these, we make types of banks defined on specific Customer requirements.

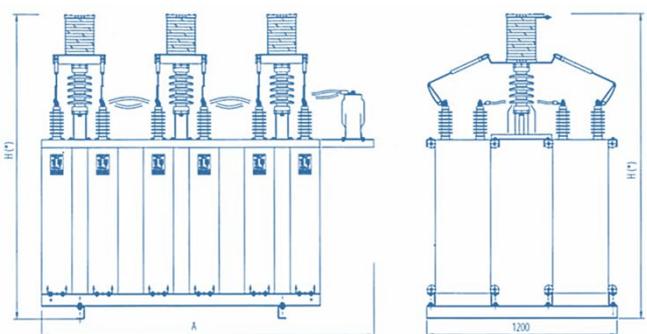
CONFIGURATION



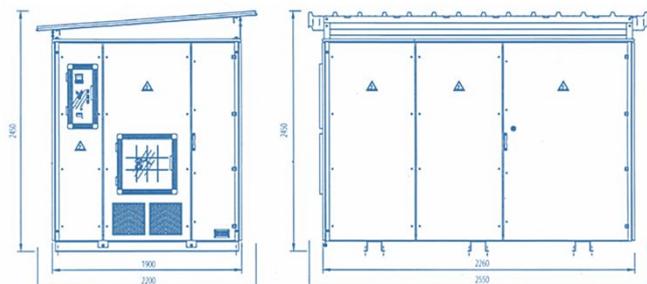
Standard Version IP00 with damping Reactors and C.T. for unbalance protection.



Standard Version IP00 with expulsion fuses and C.T. for unbalance protection.



Standard Version IP00 with expulsion fuses, damping reactors and C.T. for unbalance protection.



Standard Version in Box with degree of protection up to IP54.

Max. Power <i>kvar</i>	Number of capacitors	L max <i>mm</i>	H max <i>mm</i>	P max
3600	6	2020	2100	1450
7200	12	2960		
10800	18	3900	2350	
14400	24	4840		

N.B. The outfit may comprise: fuses, damping reactors, fast discharge devices, C.T. for unbalance protection, line disconnector switch, earthing switch, system with space heater element, voltage on/off indicator with kilovolt meter (if applicable), electromechanical interlock with control panel, ventilation system.

QUALITY AND TESTING

Regulations

IEC/EN 60871/1 -4