

SPECIFICATION TEXT

GMT 7,2 – 24 kV



Medium voltage busbar

- The busbar must comply with standards **EN 62271-200**, CEI 17/6 - 17/21, and bear the CE marking.
- Nominal operating current at room temperature: $T_{max} = 40\text{ °C}$ and $T_{med24h} = 35\text{ °C}$ (24-hour average).
- Operating voltage: 7.2 kV and 24 kV at a frequency of 50 Hz
- Protection degree: IP40, upgradable to IP54.
- Systems: 3P, where the protective conductor is formed by the enclosure, ensuring electrical continuity across all junctions.
- Conductors made of ETP electrolytic copper, individually insulated, each enclosed within a self-extinguishing PVC insulating sheath to ensure perfect insulation, or in a self-extinguishing "V-0" fiberglass sheath of thermal class "H" (operating temperature up to $+180\text{ °C}$).
- Busbar with aluminum enclosure.
- Maximum distance between two consecutive suspension brackets: 2 m.

These busbar ducts must include standard straight elements of 3 m, custom-made straight and angled elements, end feed boxes or intermediate feed boxes, end-of-line closure boxes, expansion joints where necessary, fire-resistant wall penetrations REI 180, and flexible terminal connections for linking to transformer terminals or switchgear busbars.

DESCRIPTION FOR BILL OF QUANTITIES

Electrical busbar for the transport of medium-voltage electrical energy with a nominal operating current of $T_{max} = 40\text{ °C}$ and $T_{med24h} = 35\text{ °C}$ (24-hour average) equal to xxxx A (refer to the catalog) and an operating voltage of XX kV, complete with brackets, bends, and accessories. The system consists of ETP electrolytic copper conductors, individually insulated: each housed within a self-extinguishing PVC insulating sheath or a self-extinguishing "V-0" fiberglass insulating sheath of thermal class "H," ensuring perfect insulation.

The lateral structure will be made of four aluminum "C" profiles.

The protection degree of the line will be IP XX.

The system will be implemented in 3P configuration.