Rev. 01

SPECIFICATION TEXT

GMT 3,6 – 24 kV



Medium-voltage busbar

- The busbar must comply with **EN 62271-200** and CEI 17-6 / CEI 17-21 and bear the CE marking.
- Rated operational current referred to an ambient temperature of Tmax = 40 °C and Tmed24h = 35 °C (24-hour average).
- Rated voltage: 3.6 kV to 24 kV, 50 Hz
- Degree of protection: IP40, upgradable to IP54 and IP66/IP68
- Configuration: 3P, with the enclosure acting as the protective conductor and ensuring electrical continuity across all joints.
- ETP electrolytic copper conductors, individually insulated, each enclosed in a self-extinguishing PVC insulating sheath to ensure perfect insulation, or in a self-extinguishing “V-0” fibreglass sheath of thermal class “H” (operating temperature up to +180 °C).
- Aluminium conductors, individually insulated, each enclosed in a self-extinguishing PVC insulating sheath to ensure perfect insulation, or in a self-extinguishing “V-0” fibreglass sheath of thermal class “H” (operating temperature up to +180 °C).
- Busbar with aluminium enclosure.
- Maximum distance between two consecutive suspension brackets: 1 m.

The busbar line must include standard 2 m straight lengths, custom-made straight and angled elements, end feed boxes or intermediate feed boxes, end closure boxes, expansion joints where necessary, REI 180 fire barriers at wall penetrations, and flexible connections to the transformer terminals or switchgear busbars.

DESCRIPTION FOR BILL OF QUANTITIES

Busbar trunking system for medium-voltage power distribution, with a rated operational current of xxxx A (see catalogue) referred to Tmax = 40 °C and Tmed24h = 35 °C (24-hour average) and a rated voltage of XX kV, complete with brackets, bends and accessories. The system consists of individually insulated ETP electrolytic copper / aluminium conductors, each housed in a self-extinguishing PVC insulating sheath or in a self-extinguishing “V-0” fibreglass insulating sheath of thermal class “H”, ensuring perfect insulation.
The enclosure shall consist of four “C”-shaped aluminium profiles.
The degree of protection of the line shall be IP XX.
The system shall be supplied in a 3P configuration.