

Electrical data

Standard: IEC	
Rated voltage	kV
Rated frequency	Hz
Rated current	A
Thermal short time current / Duration	/ kA / s
Dynamic short time current	kA

Design: Busbar type

The electrical data and environmental conditions are determinant for the busbar design. Conductor with high electrical conductivity could be in aluminium or copper. According to IEC rules the surface temperature of the busbar cannot exceed 70 °C and is based on a max ambient temperature of 40 °C. Therefore if the design ambient temperature exceeds 40 °C, it is important to note it. The rated voltage, according to the IEC voltage coordination, leads to the dimension of the insulation thickness.

Site installation

Outdoor / Indoor / Outdoor & Indoor Outdoor

The Duresca® busbars, thanks to its protection tube, which represents the best possible barrier against humidity and moisture ingress as well as mechanical protection, can be installed outside or inside without problems, only in case of AIS connection, the arcing distance has to be protected by silicone insulators or an adequate termination box.

Connections

Transformer usually with copper flexibles
Location of the transformer ---

Generator usually with copper flexibles
Location of the generator ---

Switchgear

Manufacturer
Type AIS
 SF₆
 Oil

Layout

Total system length (Single phase x 3) m
Total bends per system (Three phase)

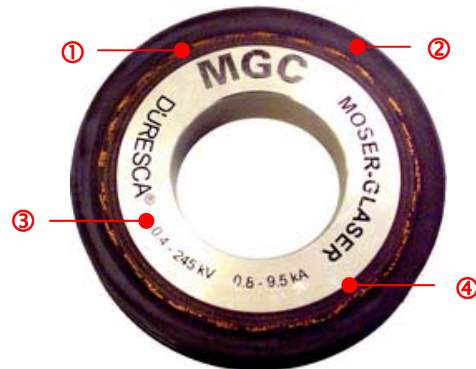
Optional

Protection box
 Transformer Generator Switchgear

Wallplate (quantity)
Fire wallplate (quantity)
Fire wallplate (class) S60

Environmental Conditions

Max. ambient temperature	°C
Min. ambient temperature	°C
Altitude if higher than 1000 m	m



1. Humidity barrier: pure resin layer
2. Mechanical protection: PA tube
3. Conductor with high electrical conductivity: Aluminium or Copper
4. RIP Isolation: fine graded capacitive layers



Transformer & box



Transformer & silicone insulators

Special requirements