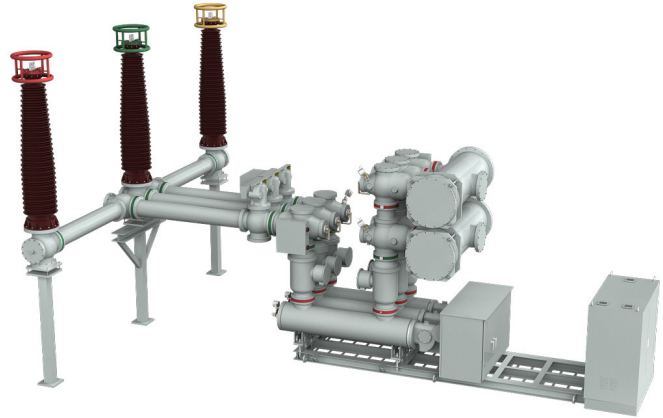




GAS INSULATED SWITCHGEAR



Gas Insulated Switchgear (GIS) up to 252kV



Hybrid Gas Insulated Switchgear (HGIS) up to 252kV

Applications:

GRID's Gas Insulated Switchgear (GIS/HGIS) combines circuit breakers, disconnectors, and other key substation components in a compact, grounded enclosure. Built to IEC 62271-203 standards, it delivers high reliability and space efficiency. Ideal for urban, industrial, or underground installations.

Features:

- **Advanced Patented Technology:** Proprietary thermal insert connection box & special shaft seal and reliable guide system.
- **Enhanced Safety and Durability:** Strong anti-seismic performance ensures stability and safety under extreme conditions.
- **Maintenance-Free Design:** Oilless, gasless, and low-noise operation with minimal maintenance requirements.
- **Modern, Innovative Design:** Compact and updated structure aligned with the latest GIS technology standards.
- **Customizable Configuration:** Designed to meet diverse customer specifications and application needs.
- **High Reliability and Performance:** Excellent insulation reliability and high breaking capacity.

Lead Time:

Approximately **12-24 months** after drawings approved.

GAS INSULATED SWITCHGEAR

Basic Parameters

Rated Voltage		252 kV
Rated Current/Main Bus Rated Current		2000 A ~ 4000 A
Rated Frequency		60 Hz
Rated Short-Time Withstand Current, 3s		40/50 kA
Rated Peak Withstand Current (Peak)		100/125 kA
Rated Short Time Power Frequency Withstands Voltage, 1 Min		395 kV / 460 kV
Rated Lightning Impulse Withstands Voltage (Peak)		950 kV / 1050 kV
Power Frequency Withstands Voltage Under Zero Gauge Pressure, 5 Min		189 kV
Rated SF6 Pressure (20°C)	Circuit Breaker Gas Room	0.60 MPa
	Other Gas Room	0.40 MPa
SF6 Annual Leakage Rate		≤ 0.5%
Protect Degree of Auxiliary Circuit and Moving Part		IP4XW / IP5XW

Circuit Breaker Parameters

Rated Short-Circuit Breaking Current		40 kA / 50 kA
Rated Short-Circuit Making Current (Peak)		100 kA / 125 kA
First Phase Breaking Factor		1.5
Rated Short Time Power Frequency Withstand Voltage, 1 Min	Open Contacts	460+145 kV
	To Ground	460 kV
Rated Lighting Impulse Withstand Voltage (Peak)	Open Contacts	1050+206 kV
	To Ground	1050 kV
Power Frequency Withstand Voltage Under Zero Gauge Pressure, 5min	Open Contacts	189 kV
	To Ground	189 kV
Rated Operating Sequence		O-0.3s-CO-180s-CO
Entire Breaking Time		≤ 60.0
Rated Voltage of Control Circuit		DC 110 V / 220 V
Rated Voltage of Auxiliary Circuit		DC 220 V AC 220 V / 380 V

Working Conditions:

- Max. ambient temperature: +40°C
- Min. temperature: -40°C (outdoor installation)
- Reek Pressure kPa ≤ 1.8
- Altitude: ≤1000m
- Relative humidity: ≤90% (25°C) (without condensation)
- Customized engineering available on request



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