

40.5kV Indoor Gas-Insulated Switchgear

This indoor gas-insulated switchgear is designed for a three-phase AC power system at 50Hz and 40.5kV. It is used for switching load current, overload current, and fault current, as well as transforming and isolating lines.



Product Overview

40.5kV Indoor Gas-Insulated Switchgear

The ZFN13-40.5(Z) GIS is a robust, metal-enclosed and metal-armoured switchgear utilizing SF6 gas for superior insulation. Engineered for high performance, it features a longitudinal three-pole layout and utilizes a vacuum interrupter with a spring mechanism for frequent operational reliability. Integrated with a 3-position switch for busbar disconnection and earthing, this system provides comprehensive mechanical and electric interlocking for enhanced safety.

Key Features

System Highlights

- SF6 gas-insulated medium
- Vacuum interrupter with spring mechanism
- Reliable 3-position switch configuration
- Advanced mechanical and electric interlocks
- Intelligent module integration for smart grid requirements

Electrical Ratings

Rated Performance

40.5 kV

Rated Voltage

1250 A

Rated Current

31.5 kA

Short-time withstand current

Insulation Performance

Characteristic	To Earth/Pole	Across Isolating Distance
1min Power Freq Withstand (kV)	95	110
Lightning Impulse Withstand (kV)	185	215

Operational Specs

SF6 Gas Management

- CB Compartment Pressure: 0.6 MPa
- Other Compartments Pressure: 0.4 MPa
- Annual Leakage Rate: $\leq 0.5\%$

Operating Frequency

50/60 Hz