

36kV Solid Insulated Switchgear

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Product Advantages



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Shielded Solid Insulation

- Shielded layer of conductive material makes the surface at earth potential everywhere; it is accidentally touchable providing safety features for operator.
- This shielded solid insulated switchgear, which is completely solid insulated, has entire circuit insulated by epoxy and silicon rubber, leaves no live parts in free air; given switchgear less affection of dirt, humidity and pollutions etc.; requires less necessity for maintenance. Each phase is self-contained into single epoxy block, significantly reducing phase to phase discharge and risks of internal arc fault.

Modular Architecture

- Modular architecture enables reduction of switchgear dimensions
- Dimensions of Solid Insulated Switchgear : 700 × 2000 × 1150 it is only 1/6 of traditional air insulated type ie KYN61.

Optimized Electric Field

- Computing technology facilitate optimal design of electric field and isolation.

Safety

- Sealed electrified body IP67.
- Inner cone cable terminal to improve the connection reliability

Extreme Environment Application

- Suitable for cold, high altitude, humidity, corrosion, lowland and explosion-proof area.

All Operating Condition Environment

- Ambient temperature: -50 °C ~ +70 °C ;
- Altitude: ≤ 5500 m
- Internal and external arcing test report (switches, bus bar, cable compartment) detection
- Immersion detection test report
- Salt spray testing report

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2 Product Features & Technical Parameters

- The circuit breaker is composed of mechanism transmission box and circuit breaker poles.



Earthing / Disconnecting Switch Assembly



There are three internal cone socket in the poles, among which the 2# cone is used for installing lightning arrester, and the two 3# cone are used for connecting 630A cables.

	Unit	Module V Vacuum Circuit Breaker	Disconnecting Switch	Earthing Switch
Rated Voltage	kV	40.5	40.5	40.5
Arc Quenching		Vacuum		
Rated Current	A	1250	1250	1250
Rated Frequency	Hz	50/60	50/60	50/60
Main Circuit Resistance	$\mu\Omega$	≤ 120	≤ 120	≤ 120
Power Frequency Withstand Voltage(1 min)	kV	118	118	118
Lightning Impulse Withstand Voltage	kV	215	215	215
Rated Short Circuit Breaking Current	kA	31.5		
Breaking Times	Times	30		
Rated Short Circuit Making Current	kA	80		
Rated Short Time Withstand Current/Duration	kA/s	31.5/4s	31.5/4s	31.5/4s
Rated Peak Withstand Current	kA	80	80	80
Internal Arcing Test (AFLR level)	kA/s	31.5kA/0.5s (including bus compartment, switch compartment, cable compartment)		
Degree of Protection		IP67	IP67	IP67
Mechanical Endurance	Times	10000	3000	3000



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