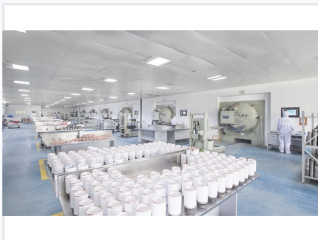


40.5KV Indoor Vacuum Interrupter

This 40.5KV vacuum interrupter is designed for indoor circuit breaker applications. It utilizes vacuum technology for efficient arc quenching, ensuring reliable interruption of high-voltage circuits.



ADDITIONAL IMAGES



Product Overview

High-Performance Vacuum Interrupter

This 40.5KV indoor vacuum interrupter serves as a critical component for high-voltage circuit breakers, designed to supply power reliably and interrupt currents effectively during overloads or short circuits. Featuring a corrugated ceramic insulation shell and copper-tungsten alloy contacts, it offers high insulating levels, low noise, and a long service lifetime. Its robust design ensures explosion-free operation and minimal maintenance, making it ideal for power transmission, distribution, metallurgy, and industrial heating systems.

Typical Applications

Power Transmission, Distribution Control, Metallurgy, Mining, Petroleum, Chemical Industry, Railway, Industrial High Frequency Heating

Electrical Ratings

Core Electrical Metrics

40.5 KV

Rated Voltage

2000 A

Max Rated Current

31.5 KA

Max Short-circuit Breaking Current

Electrical Specifications

Specification	Value
Rated Frequency	50/60 Hz
Rated Short-time Power Frequency Withstand Voltage (1min)	95 KV
Rated Lightning Impulse Withstand Voltage	185 KV
Rated Short-circuit Making Current (Peak)	63/80 KA
Rated Duration of Short-circuit	4 s
Circuit Resistance at Rated Contact Force	d204©

Mechanical Requirements

Mechanical Performance

Parameter	Value
Mechanical Life	10,000 operations
Contact Stroke	22 ± 2 mm
Opening Speed (average)	1.6 ± 0.2 m/s
Closing Speed (average)	0.75 ± 0.2 m/s
Rated Contact Compressive Force	3100 ± 200 N
Moving Part Weight	d 4g

Durability & Maintenance

- Shelf Life: 20 Years
- Contact Erosion Limit: 3mm
- Maximum Contact Bounce Duration: d2ms
- Closing and Opening non-simultaneity: d2ms