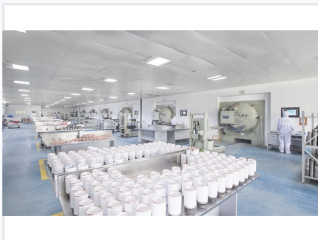


# 40.5KV Indoor Vacuum Interrupter

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