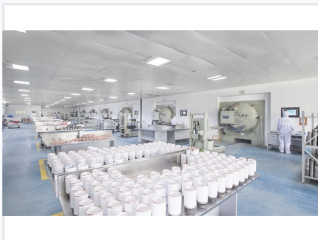


40.5KV Indoor Circuit Breaker Vacuum Interrupter

This 40.5KV vacuum interrupter is designed for use in indoor circuit breakers. The component is critical for interrupting electrical arcs in a vacuum environment, ensuring safe and reliable operation of the circuit breaker.



ADDITIONAL IMAGES



Overview

High-Performance Vacuum Interrupter

This 40.5KV vacuum interrupter is a critical core component designed for medium-voltage indoor circuit breakers. Utilizing advanced vacuum arc extinguishing technology with a corrugated ceramic insulation shell and copper-tungsten alloy contacts, it ensures reliable power distribution and rapid fault interruption. Engineered for durability, it offers a long service life, low maintenance requirements, and superior dielectric strength for demanding industrial and power utility applications.

Key Metrics

Performance Highlights

40.5 KV
Rated Voltage

2000 A
Max Rated Current

31.5 KA
Max Short-circuit Breaking Current

10000 Ops
Mechanical Life

Electrical Ratings

Electrical Specifications

Parameter	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	d20Micro ohms

Mechanical Requirements

Mechanical Specifications

Parameter	Value
Contact Stroke	18±1 mm
Opening Speed (Average)	1.6±0.2 m/Sec
Closing Speed (Average)	0.75±0.2 m/Sec
Rated Contact Compressive Force	3100±200 N
Max Contact Bounce (Closing)	d2ms
Moving Part Weight	d4kg

Compliance & Usage

Standards Compliance

IEC 62271-100 • GB 8738-2008 • Class E2

Suitable Applications

Power Distribution, Metallurgy, Mining, Petroleum, Chemical Industry, Railway, Communications