Dry Iron-Core Shunt Reactor

This dry iron-core shunt reactor compensates line capacity charging power to reduce line losses and increase power factor. It also weakens the long-term load-bearing effect of no-load or light-load and stabilizes the system voltage.

Product Overview

Dry Iron-Core Shunt Reactor

The BKSC Dry Iron-Core Shunt Reactor is engineered to stabilize power systems by compensating for capacitive charging power in long-distance transmission lines. Utilizing a robust epoxy-cast dry structure, this reactor effectively reduces line losses, increases power factors, and mitigates over-voltage issues. Its advanced design ensures high mechanical strength, excellent heat dissipation, and reliable operation in diverse industrial environments.

Technical Specifications

Capacity	2400 kVar
System Voltage	10 kV
Reactance Rate	12 %
Cooling Method	Air self-cooling

Operating Environment

Humidity Tolerance

- Monthly average d 90%
- Daily average d 95%

Ambient Temperature	-40°C to +45°C
Altitude Limit	1000 m
Seismic Intensity Rating	8

Design Features

Key Construction Features	Dry-type core, Three-phase common body, Epoxy-cast coils, Vacuum casting, Low noise operation

Applications

Suitable Industries

Power Systems • Chemicals • Metallurgy • Coal Mines • Electrified Railways