10KV Amorphous Alloy Dry Transformer, SCBH15 Series

This dry-type transformer can be installed indoors close to the load center. It features low no-load loss, is oil-free, flame retardant, moisture resistant, and maintenance-free.

ADDITIONAL IMAGES

Overview

High-Efficiency Amorphous Alloy Dry Transformer

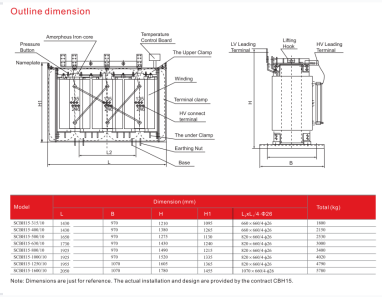
The SCBH15 Series is a 10KV dry-type transformer utilizing an amorphous alloy core to significantly minimize no-load losses and improve energy efficiency. Designed for indoor installation, it features a flame-retardant, self-extinguishing, and moisture-resistant construction that requires no maintenance. This series is particularly suited for high-load centers and environments with strict fire safety requirements, such as high-rise buildings, subways, and industrial enterprises.

Key Performance Metrics

Efficiency & Performance

75 %	15 %	10 pC
No-load loss reduction vs GB/T10228	Load loss reduction vs GB/T10228	Maximum Partial Discharge

Technical Specifications



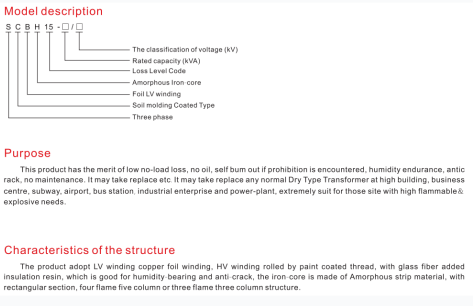
Electrical Parameters

Parameter	Value
Phase	3 Phase
Frequency	50Hz
Insulation Level	F
Average Winding Temperature Rise	d 10K
Voltage Classification	10KV
Vector Groups	Dyn11, Yyn0
Noise Level Standard	JB/T 10088-2004

Voltage & Insulation Ratings

Rated Voltage (kV)	Max Equipment Voltage (kV)	Rated Short-Time Power Freq (kV)	Rated Lightning Impulse (kV)
1	1.1	3	3
6	7.2	25	25
10	12	35	35

Construction & Materials



Construction Details

- Iron core made of Amorphous strip material with rectangular section
- LV winding utilizes copper foil
- HV winding rolled with paint-coated thread and glass fiber reinforced resin
- Soil molding coated type construction
- Four-flame five-column or three-flame three-column structure options

Service Conditions

Operating Environment

- Ambient Temperature: -5°C to +40°C
- Altitude: Below 1000m above sea level
- Installation: Indoor service only
- Power Supply: Sine wave compatible, approximately symmetrical three-phase

Applications

Ideal Applications	High-rise Buildings, Business Centers, Subways, Airports, Industrial Enterprises, Power Plants, Explosive Environments

Environmental Impact

Energy Conservation

A 630kVA amorphous dry-type transformer can save approximately 14,174 kWh of electricity per year compared to standard models. This results in a reduction of 11.7 tons of CO_2 emissions and 5.8 tons of coal consumption annually.