

10KV Amorphous Alloy Dry Transformer, SCBH15 Series

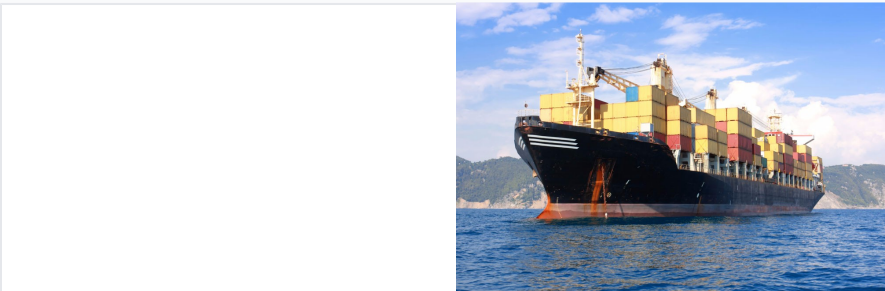
This dry-type transformer can be installed indoors close to the load center. It features low no-load loss, is oil-free, flame retardant, moisture resistant, and maintenance-free.



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 %

No-load loss reduction vs GB/T10228

15 %

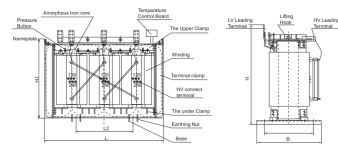
Load loss reduction vs GB/T10228

10 pC

Maximum Partial Discharge

Technical Specifications

Outline dimension



Model	Dimension (mm)				L _{0.05} (kVA)	Total (kg)
	L	B	H	H ₀		
SCBH15-10	1000	470	1100	100	1000/1000/25	1200
SCBH15-15	1000	470	1100	100	1500/1000/25	1200
SCBH15-20	1000	470	1100	100	2000/1000/25	1200
SCBH15-25	1000	470	1100	100	2500/1000/25	1200
SCBH15-30	1000	470	1100	100	3000/1000/25	1200
SCBH15-35	1000	470	1100	100	3500/1000/25	1200
SCBH15-40	1000	470	1100	100	4000/1000/25	1200
SCBH15-45	1000	470	1100	100	4500/1000/25	1200
SCBH15-50	1000	470	1100	100	5000/1000/25	1200

Note: Dimensions are just for reference. The actual installation and design are provided by the contract CDB15.

Electrical Parameters

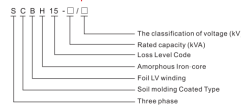
Parameter	Value
Phase	3 Phase
Frequency	50Hz
Insulation Level	F
Average Winding Temperature Rise	d 10K
Voltage Classification	10KV
Vector Groups	Dyn11, Yyn0
Noise Level Standard	JB/T 10088-2004

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

Model description



Purpose

This product has the merit of low no-load loss, no oil, self burn out if prohibition is encountered, humidity endurance, antic rack, no maintenance. It may take replace etc. It may take replace any normal Dry Type Transformer at high building, business centre, subway, airport, bus station, industrial enterprise and power-plant, extremely suit for those site with high flammable & explosive needs.

Characteristics of the structure

The product adopt LV winding copper foil winding, HV winding rolled by paint coated thread, with glass fiber added insulation resin, which is good for humidity bearing and anti-crack, the iron core is made of Amorphous strip material, with rectangular section, four flame five column or three flame three column structure.

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 CO2 emissions and 5.8 tons of coal consumption annually.