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CHBEB®

TRANSFORMER SERIES

MORE THAN 60 YEARS

TRANSFORMER MANUFACTURING EXPERIENCE

CHINA BEI ER BIAN GROUP CO,.LTD.

◆ COMPANY PROFILE

CHBEB(China BeiErBian Group Co.,Ltd), with a registered capital of 218 million, originated from Beijing BeiErBian Transformer Group Co., Ltd. Our headquarters in Beijing is focused on technology research and development, while our three major production industrial parks in Nanjing, Jiangsu Province, and Yueqing, Zhejiang Province, manufacture a range of high-quality products.

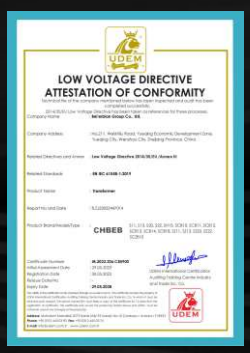
Our product line includes power transformers, box-type substations, wind and solar energy box-type substations, high and low voltage switchgear assemblies for power transmission and distribution, ring main units, outdoor high-voltage vacuum circuit breakers, power transmission and transformation support, and more. Our quality products and solutions have been used in various industries such as national grid, electric power, metallurgy, steel, petrochemical, machinery manufacturing, and pharmacy.

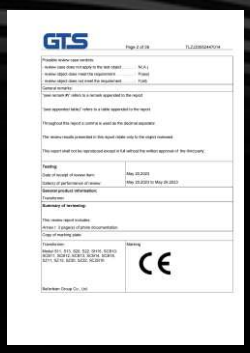
◆ CERTIFICATE


ENVIRONMENTAL MANAGEMENT SYSTEM CERTIFICATE


QUALITY MANAGEMENT SYSTEM CERTIFICATE


OCCUPATIONAL HEALTH AND SAFETY MANAGEMENT SYSTEM CERTIFICATE


LOW VOLTAGE DIRECTIVE ATTESTATION OF CONFORMITY




Technical Construction File


TEST REPORT


TEST REPORT

◆ EQUIPMENTS

CHBEB is dedicated to providing secure, clean, efficient, and convenient electric power energy solutions. We recognize that high-quality production equipment is essential to achieving this goal. Our modern assembly line ensures that our products are consistently reliable and of the highest quality.



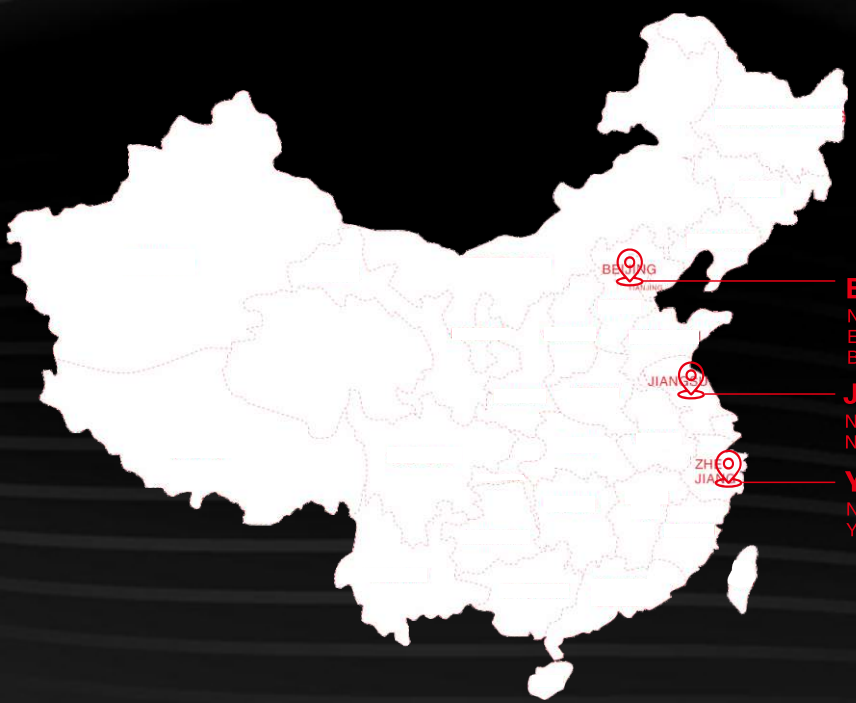









◆ CONTACT US



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S(B)H□-M series

10/20/35kV three-phase oil-immersed amorphous alloy transformer

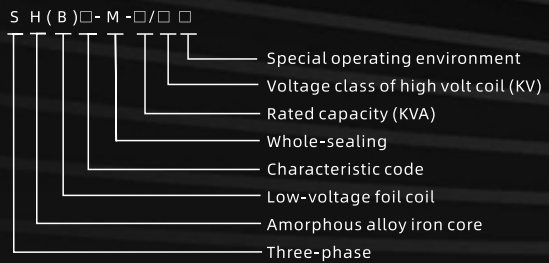
Product series

SH15-M-30kVA-4000kVA /10kV/20kV/35kV Class Amorphous Alloy Oil-Immersed Transformer

SH21-M-30kVA-4000kVA /10kV/20kV/35kV Class Amorphous Alloy Oil-Immersed Transformer

Sh25 -M-30kVA-4000kVA /10kV/20kV/35kV Class Amorphous Alloy Oil-Immersed Transformer

Model description



Feature of products

The SH□-M Series Amorphous Alloy Oil Immersed Transformer utilizes an advanced iron core made from an amorphous alloy of iron and boron. This alloy is rapidly cooled in a special process to produce thin, zonal slices with a disordered atomic arrangement, offering soft-magnetic properties and a narrow hysteresis loop for low magnetization work, resulting in significantly reduced excitation losses.
The transformer features a three-phase, five-column design, making it more compact than traditional three-column models. Its core has a rectangular cross-section with a lower yoke that can open, simplifying the coil installation process. The low-voltage winding typically uses a cylindrical structure wound with copper foil, while the high-voltage winding adopts a multi-layer cylindrical design for balanced ampere-turns and reduced flux leakage. Both windings utilize tension devices, plastic, and press-pack technologies to enhance strength and short-circuit resistance.

Like fully sealed oil-immersed distribution transformers, it incorporates a non-lifting-core structure, vacuum drying, oil splashing, and filling technologies, along with a corrugated oil tank that eliminates the need for an oil conservator. Notably, its no-load loss is significantly lower than conventional designs, with the SBH11 series reducing no-load loss by 75% and the SBH15 series by about 80% compared to the S9 series. This transformer requires no oil changes under normal operation, reducing maintenance costs and extending its lifespan. The initial investment in this energy-efficient transformer can be recouped within four years through savings on electrical energy losses, making it a cost-effective choice for modern electrical distribution needs.

THE MAIN TECHNICAL PARAMETERS

Type	Rated Voltage	Symbol	Losses (W)		No-load Current	Impedance Voltage	Total Weight	Dimension (mm)			Track Spacing
	(kV)		No-load	Load(75℃)	(%)	(%)		(L)	(W)	(H)	(mm)
SZ13-M-200/10	6	Yyn0 Dyn11	305	2900	1.0	4.0	1230	1400	830	1260	550x550
SZ13-M-250/10			350	3420	0.9		1350	1410	880	1270	
SZ13-M-315/10	6.3		425	4100	0.9		1440	1430	960	1270	
SZ13-M-400/10			510	4950	0.8		1650	1440	1030	1280	660x660
SZ13-M-500/10	10		610	5890	0.8		1740	1460	1090	1280	
SZ13-M-630/10			770	7260	0.6	4.5	2020	1560	1060	1300	
SZ13-M-800/10	10.5		895	8890	0.6		2810	1670	1150	1450	
SZ13-M-1000/10			1090	10400	0.6		3610	1860	1220	1510	
SZ13-M-1250/10	11		1250	12300	0.5		4260	1930	1260	1710	820x820
SZ13-M-1600/10			1530	14700	0.5		4760	2000	1280	1830	
SZ13-M-2000/10	/0.4		1810	18600	0.4	5.0	5760	2250	1380	1950	1070x1070
SZ13-M-2500/10			2140	21600	0.4		6820	2400	1480	2090	

Note:
The dimensions in the table are for reference only.
All products can be customized according to capacity, voltage, no-load/load loss, and standards after consultation with our company.

S□-M series

10/20/35kV three-phase oil-immersed power transformer

Product series

S13-M-30kVA-25000kVA /10kV/20kV/35kV Class Oil-Immersed Distribution Transformer
S20-M-30kVA-25000kVA /10kV/20kV/35kV Class Oil-Immersed Distribution Transformer
S22-M-30kVA-25000kVA /10kV/20kV/35kV Class Oil-Immersed Distribution Transformer

Model description

S-□ - M - Z-□ /□

- Voltage grade (KV)
- Rated capacity (KVA)
- On-load tap changing
- Pan-seal
- Chraracteristic code
- Three-phase

THE MAIN TECHNICAL PARAMETERS

The S□-M Series Oil-Immersed Distribution Transformer is a state-of-the-art, three-phase transformer developed to enhance reliability and performance over the S9 series. By refining loss coefficients and optimizing the copper-to-iron ratio, it achieves superior loss design and cost-effectiveness. The iron core utilizes high-conductivity, low-loss silicon steel, minimizing no-load losses.
For high-voltage windings, a multi-layer structure is employed, with products up to 500kVA featuring multi-layer low-voltage windings. For transformers of 630kVA and above, a new spiral type for low-voltage windings is used, improving electrical performance and mechanical strength, especially during short circuits.

A key feature is its pan-seal structure, which isolates the transformer oil from external air, preventing oil aging and enhancing operational reliability. The oil tank design uses corrugated plates to facilitate oil circulation and improve heat dissipation. This simple yet robust design ensures efficient welding, reduces the likelihood of leaks, and optimizes fluidity and thermal management.

Type	Rated Voltage	Symbol	Losses (W)		No-load Current	Impedance Voltage	Total Weight	Dimension (mm)			Track Spacing
	(kV)		No-load	Load(75℃)	(%)			(L)	(W)	(H)	(mm)
S13-M-30/10	6 6.3 10 10.5 11 /0.4	Yyn0 Dyn11 Yzn11	80	630/600	1.5	4.0	300	725	620	870	400x400
S13-M-50/10			100	910/870	1.3		420	770	645	950	
S13-M-63/10			110	1090/1040	1.2		480	790	680	970	
S13-M-80/10			130	1310/1250	1.2		525	800	720	1000	400x450
S13-M-100/10			150	1580/1500	1.1		590	830	780	1030	
S13-M-125/10			170	1890/1800	1.1		645	845	800	1050	
S13-M-160/10			200	2310/2200	1.0		730	1200	850	1100	550x550
S13-M-200/10			240	2730/2600	1.0		840	1280	900	1120	
S13-M-250/10			290	3200/3050	0.9		940	1350	930	1160	
S13-M-315/10			340	3830/3650	0.9		1060	1370	950	1180	660x650
S13-M-400/10			410	4520/4300	0.8		1210	1400	970	1160	660x750
S13-M-500/10			480	5410/5150	0.8		1405	1430	980	1240	
S13-M-630/10			570	6200	0.6	4.5	1790	1550	1010	1290	660x850
S13-M-800/10			700	7500	0.6		2190	1770	1200	1400	660x660
S13-M-1000/10			830	10300	0.6		2475	1790	1240	1460	
S13-M-1250/10			970	12000	0.5		3395	1970	1180	1630	820x820
S13-M-1600/10			1170	14500	0.5		4035	1980	1200	1750	
S13-M-2000/10			1550	18300	0.4	5.0	4920	2200	1490	1800	
S13-M-2500/10			1830	21200	0.4		6200	2300	1650	1980	1070x1070

Note:

The dimensions in the table are for reference only.
All products can be customized according to capacity, voltage, no-load/load loss, and standards after consultation with our company.

SZ□-M series

10/20/35kV three-phase oil-immersed on-load tap changer transformer

GENERAL

This kind of product is applied to power system of three-phase, 50Hz as well as 35kV and below, it is the main transformer equipment of medium and small-sized transformer substation, supplies power distribution, power and illumination for the industry and agriculture.

The company introduces domestic and overseas advanced technique, adopts the latest material and optimizes design, which enables the product structure more reasonable, and greatly improves the product electric strength, mechanical strength and heat-sinking capability.

STRUCTURAL FEATURES

1、Iron core

The iron core is made of high quality cold rolled silicon steel sheet, adopts the kinds of types like full-bias multi-step seam, no punched hole, winding iron core,etc., besides, both stainless steel stay plate and epoxy glass belt are for clamping it.

2、Coil

High quality enameled wire that is made of oxygen free copper or paper wrapped flat copper wire is used as conductor, the coils is provided kinds of types such as drum type, spiral type, improved spiral type, continuous type and interleaved type.

3、Oil tank

The oil tank is of barrel type or shield type, the heat-sinking element is provided with corrugated plate or plated radiator.The transformer has not been equipped with trolley, but there is a base that accords with national standard rail gauge welded at the bottom of box for your convenience.

4、Safety protection device

According to national standard and users' requirements, the transformer may be equipped with following safety protection devices: pressure relief valve, gas relay,signal thermometer, oil purifier, oil conservator, oil sampling valve, etc.

THE MAIN TECHNICAL PARAMETERS

Type	Rated Voltage	Symbol	Losses (W)		No-load Current	Impedance Voltage	Total Weight	Dimension (mm)			Track Spacing
	(kV)		No-load	Load(75℃)	(%)	(%)		(L)	(W)	(H)	(mm)
SZ13-M-200/10	6	Yyn0 Dyn11	305	2900	1.0	4.0	1230	1400	830	1260	550x550
SZ13-M-250/10			350	3420	0.9		1350	1410	880	1270	
SZ13-M-315/10	6.3		425	4100	0.9		1440	1430	960	1270	
SZ13-M-400/10			510	4950	0.8		1650	1440	1030	1280	660x660
SZ13-M-500/10	10		610	5890	0.8		1740	1460	1090	1280	
SZ13-M-630/10			770	7260	0.6	4.5	2020	1560	1060	1300	
SZ13-M-800/10	10.5		895	8890	0.6		2810	1670	1150	1450	
SZ13-M-1000/10			1090	10400	0.6		3610	1860	1220	1510	
SZ13-M-1250/10	11		1250	12300	0.5		4260	1930	1260	1710	820x820
SZ13-M-1600/10			1530	14700	0.5		4760	2000	1280	1830	
SZ13-M-2000/10	/0.4		1810	18600	0.4	5.0	5760	2250	1380	1950	1070x1070
SZ13-M-2500/10			2140	21600	0.4		6820	2400	1480	2090	

Note:

The dimensions in the table are for reference only.

All products can be customized according to capacity, voltage, no-load/load loss, and standards after consultation with our company.

SC(B)H□ series

10/20/35kV epoxy resin cast amorphous alloy dry-type transformer

PRODUCT ADVANTAGES

1、Super low consumption, energy economized, high power rate
2、Amorphous Alloyed material can tremendously reduce the power consumption and loss. The motor with this material will discharge much less SO、CO gases, which to a large extent decelerates the pollution and greenhouse effect.
3、Operating temperature stays low, insulation aging slow, transformer service life's long
4、Wonderful overload capability, and excellent mechanical strength
5、Good Harmonic-bearing capability. When the amorphous core cross through the high-frequency flux, the motor can still work in a low core loss and low excitation current way. So that the core saturation problem can be avoided.
6、Benefit on investment returns quickly.

OPERATING CONDITIONS

1、Phase number: tree-phase
2、Voltage level: Primary side voltage:10kV Secondary side voltage: 0.4kV
3、Frequency: 50Hz
4、Connection symbol : Dyn11、Yyn0 or according to the specific requirements
5、Cooling method: self cooling or forced air cooling
6、Operating environment: altitude≤ 1000m, max relative humidity 100%, ambient temperature should below 40℃
7、Insulation endurance class: F
8、Winding temperature rise: 100K

MODELS AND MEANING

SCBH□-□/□

- Voltage rating (kV)
- Rated capacity (kVA)
- Property level code
- Amorphous core
- Foil coil
- Cast Resin
- Three-phase transformer

THE MAIN TECHNICAL PARAMETERS

Type	Losses(W)		No-load Current (%)	Impedance Voltage (%)	Noise Level dB(A)	Total Weight (kg)	Dimension(mm)		Track Spacing (mm)
	No-load	Load (120℃)					IP00 LXWXH	IP20 LXWXH	
SCH16-30/10	70	675	1.6	4	53	1000	1120x950x1000	1550x1150x1350	550x820
SCH16-50/10	90	950	1.4		53	1050	1150x950x1080	1550x1150x1350	
SCH16-80/10	120	1310	1.3		55	1100	1180x950x1120	1600x1150x1350	
SCH16-100/10	130	1490	1.2		55	1150	1150x950x1210	1520x1200x1360	
SCH16-125/10	150	1760	1.1		56	1200	1230x950x1220	1650x1200x1500	
SCH16-160/10	170	2020	1.1		56	1300	1300x1150x1270	1700x1200x1520	
SCBH16-200/10	200	2400	1.0		57	1450	1350x1150x1380	1750x1200x1580	660x1070
SCBH16-250/10	230	2620	1.0		57	1750	1380x1150x1450	1780x1200x1600	
SCBH16-315/10	280	3290	0.9		59	2120	1400x1150x1480	1800x1200x1620	
SCBH16-400/10	310	3790	0.8		59	2500	1450x1150x1600	1850x1200x1750	
SCBH16-500/10	360	4630	0.8		60	3050	1610x1150x1700	2050x1200x1900	
SCBH16-630/10	420	5580	0.7		61	3250	1710x1150x1 800	2150x1360x1900	820x1070
SCBH16-630/10	410	5660	0.7	6	61	3310	1930x1150x1510	2170x1400x1610	
SCBH16-800/10	480	6610	0.7		62	3700	2000x1150x1680	2200x1400x1780	
SCBH16-1000/10	550	7720	0.6		62	4400	2100x1150x1770	2260x1400x1870	
SCBH16-1250/10	650	9200	0.6		64	5000	2200x1150x1830	2460x1400x1930	
SCBH16-1600/10	760	11100	0.6		65	6000	2300x1150x2070	2600x1500x2320	1070x1070
SCBH16-2000/10	1000	13700	0.5		67	6950	2400x1150x2250	2700x1500x2500	
SCBH16-2500/10	1200	16300	0.5		68	7980	2500x1200x2250	2800x1600x2500	
SCBH16-1600/10	760	12300	0.6	8	65	6250	2400x1150x2030	2700x1500x2320	
SCBH16-2000/10	1000	15100	0.5		67	7170	2500x1150x2200	2800x1500x2500	
SCBH16-2500/10	1200	17900	0.5		68	8300	2600x1200x2230	2900x1600x2500	

Note:
The dimensions in the table are for reference only.
All products can be customized according to capacity, voltage, no-load/load loss, and standards after consultation with our company.

SCZB series

10/20/35kV Dry type On-Load Power Transformer

PRODUCT DETAILS

SCZB Series Dry-Type On-Load Power Transformer
The SCZB Series represents an advanced generation of cast resin dry-type transformers with integrated on-load tap changers (OLTC), engineered to deliver unparalleled performance in critical power distribution systems. Designed to meet the evolving demands of modern grid infrastructure, this transformer series combines cutting-edge insulation technology, adaptive voltage regulation, and eco-friendly operation.

Key Features and Advantages:

Advanced Dry-Type Design:
The transformer utilizes a dry-type insulation system that eliminates the need for oil, reducing maintenance needs and enhancing operational safety. The absence of liquid insulation removes the risk of oil leaks and potential fire hazards, ensuring a cleaner and safer working environment.

On-Load Tap Changer for Dynamic Voltage Regulation:
Featuring a high-precision on-load tap changer, this transformer allows seamless voltage adjustment without the need to disconnect or shut down the system. This capability is critical in maintaining consistent power supply quality under varying load conditions.

Robust and Eco-Friendly Construction:
Constructed with high-quality copper windings, the SCZB series ensures excellent electrical conductivity and superior resistance to overheating, contributing to long-term operational efficiency. Its eco-friendly design meets global environmental standards by eliminating oil use and reducing carbon footprint.

Energy Efficiency:
The transformer is engineered for low no-load losses and minimal load losses, contributing to lower overall energy consumption and operational costs. The design minimizes heat generation, optimizing performance in both continuous and heavy-duty operation cycles.

Flexible Voltage and Load Compatibility:
With voltage ratings of 6kV, 10kV, and 11kV and low voltage output at 0.4kV, the SCZB series is versatile in meeting diverse power distribution needs across different industrial, commercial, and residential sectors. The transformer can also accommodate a broad range of load capacities while maintaining stable performance.

MODELS AND MEANING

SC(Z)B 10 - □ / □

- Rated HV(filling with the rated value)
- Rated capacity(kVA)
- Functionallevel code
- LV foil winding
- Dn-load tap changing
- Triple phase solid molding(epoxy casting)

THE MAIN TECHNICAL PARAMETERS

Type	No-load loss (W)	Load loss 120℃ (W)	Impedance voltage (W)	No-load current (W)	Connection group label	Voltage (kV)		High voltage tap range	Sound level dB	Insulation heat resistance
						high pressure	Low pressure			
SCZB10-315/10	990	3610	4	1.4	Yyn0 or Dyn11	11	0.4	±3x2.5 ±4x2.5	51	Grade F
SCZB10-400/10	1125	4275		1.4					51	
SCZB10-500/10	1296	5225		1.4					53	
SCZB10-630/10	1494	6175		1.2					53	
SCZB10-630/10	1440	6365	6	1.2		10.5			53	
SCZB10-800/10	1710	7505		1.2		10			55	
SCZB10-1000/10	1980	8788		1.0		6.3			55	
SCZB10-1250/10	2340	10450		1.0		6			55	
SCZB10-1600/10	2727	12445		1.0		3.15			55	
SCZB10-2000/10	3420	15200		0.8					55	
SCZB10-2500/10	3960	18145		0.8					55	
SCZ(B)10-2000/35	4500	19000	7	0.9	Dyn11 or Ynd11	35-38.5	6	±3x2.5 ±4x2.5	66	Grade F
SCZ(B)10-2500/35	5220	22610		0.9					66	
SCZ(B)10-3150/35	6300	25460		0.8					66	
SCZ(B)10-4000/35	7380	30495		0.8					66	
SCZ(B)10-5000/35	8730	36100	8	0.7			6.3		66	
SCZ(B)10-6300/35	10350	41800		0.7			10		66	
SCZ(B)10-8000/35	11880	47500	9	0.6			10.5		66	
SCZ(B)10-10000/35	13590	57190		0.6			11		66	
SCZ(B)10-12500/35	16470	66500		0.5					67	
SCZ(B)10-16000/35	20250	78280		0.5					67	
SCZ(B)10-20000/35	23850	88065	10	0.4					67	

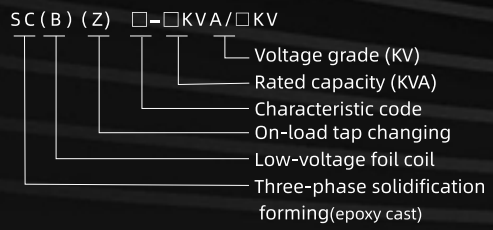
SC(B)□ series

10/20/35kV three-phase oil-immersed power transformer

PRODUCT SERIES

SC(B)11 Series -30-16000kVA / 10kV/ 20kV /35kV Class Dry-Type Pouring Transformer
SC(B)12 Series -30-16000kVA / 10kV/ 20kV /35kV Class Dry-Type Pouring Transformer
SC(B)13 Series -30-16000kVA / 10kV/ 20kV /35kV Class Dry-Type Pouring Transformer
SC(B)14 Series -30-16000kVA/ 10kV/ 20kV /35kV Class NX1/NX2 Dry-Type Pouring Transformer
SC(B)18 Series -30-16000kVA / 10kV/ 20kV /35kV Class NX1/NX2 Dry-Type Pouring Transformer

MODELS AND MEANING



FEATURE OF PRODUCTS

The SC(B) series dry-type transformers showcase a range of advanced features for efficient and reliable power supply applications. These transformers utilize high-voltage windings made of enamelled copper wire and low-voltage windings of copper foil, with the high-voltage windings encased in glass fiber mats and sealed with imported epoxy resin under vacuum. This process ensures a solid, unified structure with high mechanical strength, eliminating partial discharge and enhancing reliability.

KEY ADVANTAGES INCLUDE

Flame retardant, explosion-proof, and environmentally friendly, causing no pollution and suitable for installation at load centers.
Moisture resistance, with coils that do not absorb moisture and components that withstand 100% relative humidity without requiring moisture-proof treatment.
High resistance to short circuits, superior lightning impulse resistance, and significant overload capacity.
Efficient heat dissipation through a thin resin-insulated layer within the coils, generally cooled by natural air (AN), with a forced-air system (AF) recommended for any protective class.
Low energy loss, resulting in excellent energy savings, cost-effectiveness, and maintenance-free operation.
Compact size, lightweight, minimal space requirement, and easy installation.
The SC(B) series is a new generation of dry-type transformers, ideal for diverse applications such as high-rise buildings, commercial centers, theaters, hospitals, mining enterprises, offshore drilling platforms, ships, underground facilities, airports, power plants, and residential areas.

THE MAIN TECHNICAL PARAMETERS

Type	Losses(W)		No-load Current (%)	Impedance Voltage (%)	Noise Level dB(A)	Total Weight (kg)	Dimension(mm)		Track Spacing (mm)
	No-load	Load (120℃)					IP00 LXWXH	IP20 LXWXH	
SC13-50/20(10)	240	1110	1.9	6	48	700	1190x1300x1040	1730x1500x1290	660x1070
SC13-100/20(10)	380	1790	1.7		48	900	1240x1300x1110	1780x1550x1360	
SC13-160/20(10)	480	2230	1.4		48	1200	1280x1300x1230	1820x1550x1380	
SCB13-200/20(10)	520	2650			49	1350	1390x1300x1320	1930x1600x1470	
SCB13-250/20(10)	600	3080	1.3		49	1600	1430x1300x1370	1970x1600x1620	
SCB13-315/20(10)	680	3680			49	1770	1520x1300x1445	2060x1600x1700	820x1070
SCB13-400/20(10)	810	4360	1.1		50	2010	1580x1300x1495	2120x1600x1750	
SCB13-500/20(10)	950	5220			50	2300	1630x1300x1555	2170x1600x1800	
SCB13-630/20(10)	1080	6160	0.9		50	2600	1660x1300x1625	2200x1600x1880	
SCB13-800/20(10)	1240	7440			51	2900	1670x1300x1775	2210x1600x2030	
SCB13-1000/20(10)	1450	8810	0.8		51	3450	1750x1330x1845	2290x1600x2100	
SCB13-1250/20(10)	1680	10390			51	4100	1840x1370x1930	2380x1650x2180	1070x1070
SCB13-1600/20(10)	1960	12490			52	4950	1940x1400x1990	2480x1650x2240	
SCB13-2000/20(10)	2270	14750	0.6		52	5650	2000x1450x2130	2540x1700x2380	
SCB13-2500/20(10)	2710	17450			53	6400	2090x1500x2210	2630x1700x2460	
SCB13-2000/20(10)	2270	16080		8	52	5800	2000x1450x2130	2540x1700x2380	
SCB13-2500/20(10)	2710	19160			53	6700	2090x1500x2210	2630x1700x2460	