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Authorized Distributor

WETRANS Series

SCB Epoxy Cast Dry-type Transformer



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Company Profile

Wetown Electric (SH. 688226) mainly covers two business segments: power distribution and new energy, and is committed to providing high-quality solutions and services for customers in power, new energy, data communication, rail transit, industrial manufacturing and other industries

Core value

Customer Orientation, Innovation and Foresight, Accountability

Capability & advantage

* Dedicated in electric product development and manufacturing for over 30 years, with the key business: busway, switchboard, electrical components, PV ribbon,

copper/aluminum conductors;

* Large scale of intelligent manufacturing system and complete industrial chains in busway industry;

* Comprehensive international certifications including KEMA, ASTA, UL, CE;

* "Well-known Trademark in China" and "the Most influential national brand in electrical industry".

Global coverage

Wetown has wide global coverage with thousands of installation basis in over forty countries including South-east Asia, India, Middle East, Africa, Russia, Europe, Latin America, Australia etc.

ISO 9001 ISO 14001 OHSA 18001 SA 8000 GB/T 27922 GB/T 29490

UL KEMA EUR ASTA EAC CIDET RoHS



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Overview

WETRANS series SCB epoxy cast dry-type transformer is a power conversion equipment integrating safety, reliability, energy saving and low noise.

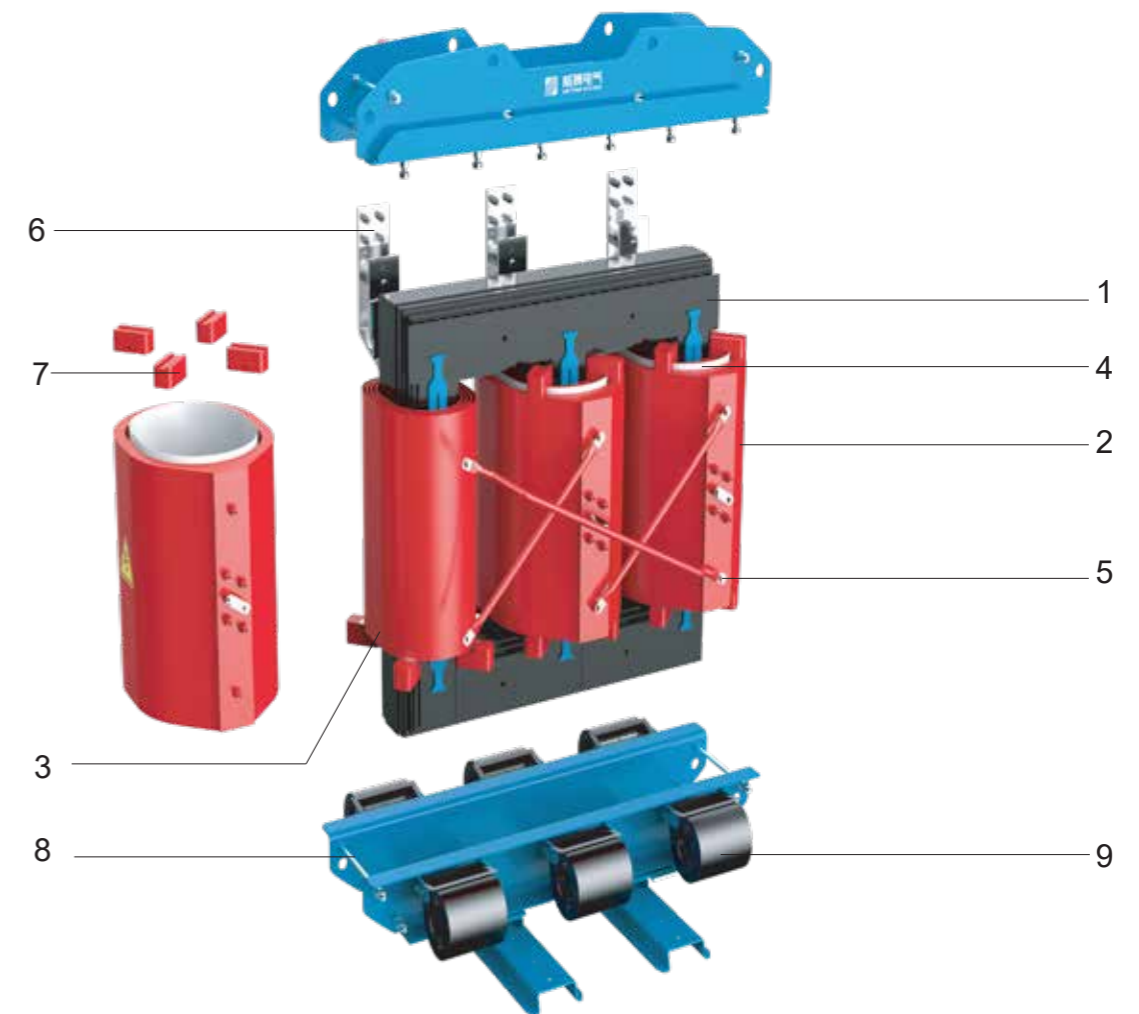
Wetown Electric provides you with 10kV series capacity 50kVA - 4000 kVA; 35kV series capacity 1000 kVA - 20000 kVA products. It is widely used in public facilities, infrastructure, high-rise buildings, power generation, photovoltaics, energy storage, etc. It can meet applications in various environments, provide you with stable and reliable power conversion, and help you save energy and increase efficiency. Wetown Electric can provide customized services for your special scene.

Transformers meet the following standards

- GB 1094 "Power Transformer"
- GB/T10228 "Technical parameters and requirements of dry-type power transformers"
- IEC 60076 "Power Transformers"
- GB 20052 "Three-phase distribution transformer energy efficiency limit value and energy efficiency grade"
- GB 4208 "Enclosure Protection Level"

Product Introduction

WETRANS series SCB dry-type transformer



- 1. Iron core
- 2. High voltage winding
- 3. Low voltage winding
- 4. Insulation cylinder

- 5. High Voltage Terminals
- 6. Low voltage terminal
- 7. Iron yoke spacer
- 8. Clamp (roller)
- 9. Air cooling system

Product Introduction

1. Iron core manufacturing

- Made of low-loss grain-oriented electrical steel, with low no-load loss, low noise, and low current. The surface is covered with two-component paint, which is especially suitable for harsh environments.

2. High voltage winding

- Choose high-quality and high-conductivity copper wires, and use unique winding technology to make the internal potential distribution of the coil uniform, and the potential difference is small to form a low partial discharge of less than 5pc.
- Choose Huntsman-Alauda® resin and add SiO₂ to improve the thermal conductivity and flame retardancy of the resin.
- The pouring adopts the automatic resin pouring of the Heidrich static mixing system to ensure the quality of the vacuum pouring process.

3. Low voltage winding

- Using high-conductivity copper foil to reduce the electromagnetic force generated during short circuit.
- Use high-quality pre-impregnated resin insulation material for interlayer insulation.
- Both ends of the winding are end sealed to adapt to high pollution environment.
- Low-voltage windings for special environments can be made by casting.

4. Insulation cylinder

- Strengthen the insulation and improve the heat dissipation capacity of the transformer.

5. High voltage terminal

- The optimized scheme can be designed according to the requirements, and the high-voltage tap can be adjusted to suit the system voltage in case of power failure.

6. Low voltage terminal

- Normal arrangement: upper
- Special arrangement: lower part or according to customer requirements

7. Yoke spacer

- Insulates the mechanical vibration of the iron core and the winding, thereby reducing the emission of noise.

8. Clamps, rollers

- Made of steel plate, laser processing, high precision, rollers can easily move the transformer horizontally and vertically during installation.

9. Air cooling system

- After air-cooled start-up, the operating temperature of the transformer can be effectively reduced, and the overload capacity of the product can be increased.

Product Features and Manufacturing Process

Iron core manufacturing



Slitting unit

- Fast and accurate slitting, no damage to silicon steel sheets
- Shearing burr: $\leq 0.02\text{mm}$;
- Unilateral non-straightness: $\leq 0.2\text{mm}/2000\text{mm}$;
- Cutting width error: $0 \sim -0.1\text{mm}$



Horizontal shear unit

- Thin material cutting, high speed and high precision
- Length tolerance: $\pm 0.2\text{mm}/2\text{m}$
- Angle tolerance: $\pm 0.005^\circ$
- Shearing burr: $\leq 0.02\text{mm}$
- Blanking burr: $\leq 0.02\text{mm}$

High voltage winding



- The high-voltage winding is made of high-quality and high-conductivity copper wire, and the unique winding technology is used to make the internal potential of the coil The distribution is uniform, and the partial discharge is less than 5pc.
- Using Huntsman-Alauda® resin, adding SiO₂ to improve the thermal conductivity and flame retardancy of the resin. The inner and outer layers of the coil are reinforced with glass fiber mesh, which not only ensures the thickness of the insulating layer, but also improves the short-circuit resistance of the winding.
- Pouring adopts Heidrich static mixing system fully automatic resin infusion to ensure the quality of the vacuum pouring process.
- Vacuum casting eliminates the gas in the winding to ensure low partial discharge of the transformer, the casting resin adds SiO₂, the thermal expansion coefficient is very close to the conductor of the winding, and the thermal stress difference caused by the load change is controlled to a minimum, thus improving the winding Excellent anti-cracking ability, strong mechanical strength and short-circuit resistance of the product.

Low Voltage Winding



- The low-voltage winding is made of the whole copper foil, and the stress of the interlayer insulation is small.
- Prepreg DMD is used for the interlayer insulation of the windings, and the windings wound by SHS are cured and formed according to the curve in the curing furnace, which is uniformly bonded and has good moisture-proof performance.
- Both ends of the winding are sealed with self-drying resin.
- The winding has good dynamic stability under short circuit condition.

Product Features and Manufacturing Process

Pouring Equipment



HEDRICH vacuum casting system

- With on-line mixing, on-line degassing, and full automatic control
- DEM or continuous OTF degassing can be performed in batches
- HEDRICH ceramic dosing pump
- Maximum material flow is 24 tons/day
- Software communication with Industry 4.0 functionality
- On-line batching monitoring using high-precision Coriolis measurement principle



■ Ideal infiltration

Fully continuous formulation with low mass volume and high shear rate for uniform casting resin premixing in a short time, combined with downstream OTF instant degasser to produce high quality casting resin material, with ideal wettability and degassing degree of filler particles provide excellent insulating properties for transformers.



■ Efficient degassing

HEDRICH Membrane Degassing Mixers (DEM) are preferably used for fast and efficient degassing of high viscosity casting resin systems containing abrasives. Good wetting of fillers and perfect degassing of casting resins are the most important indicators to achieve casting.



■ Anti-wear

The dosing piston and bushing of HEDRICH ceramic dosing pumps consist of oxide ceramic material (silicon carbide), so it has a very long life.

Transformer housing



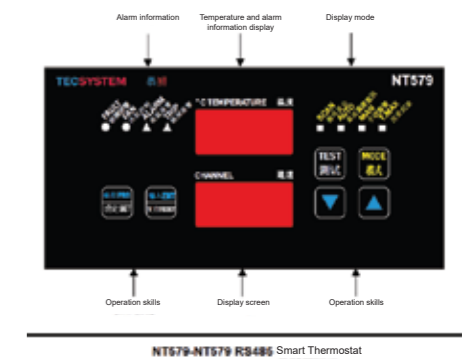
- Indoor installation is recommended, and the resin-cast dry-type transformer is installed in the electrical room or in different types of metal sheet enclosures. Transformers only require live contact, direct sunlight and waterproofing of the terminals or winding surfaces. Transformers can be indoor enclosures with different protection levels, placed alone or together with high and low voltage cabinets or formed into compact substations.
- The transformer can also be installed outdoors, but must adopt the protection level of IP23 or above.
- If the installation site is not well ventilated, use a fan or other ventilation methods.

Overload capacity



- The turbine fan is selected, which is small in size, large in air volume and low in noise.
- After installing the cooling fan, the cast resin (dry-type) distribution transformer of Witten can be overloaded by 50% (resistance voltage and load loss are increased accordingly).
- Short-time overload will not affect the transformer as long as the maximum temperature limit of the winding is not exceeded during the overload.

Temperature monitoring



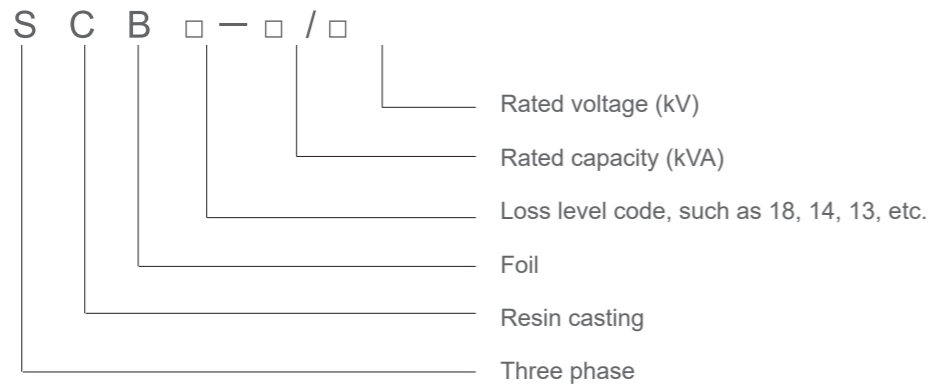
- Each cast-type dry-type transformer is equipped with a temperature display, and a PT100 sensor is installed in the low-voltage winding.
- The sensor of PT100 is used to detect the temperature of the winding.
- The temperature display can start and stop the air cooling system at the set temperature.
- The temperature display can output alarm and trip signal to protect the transformer.
- Special models of temperature display (RS485, 4-20mA) can be provided according to customer needs.

Fire Safety

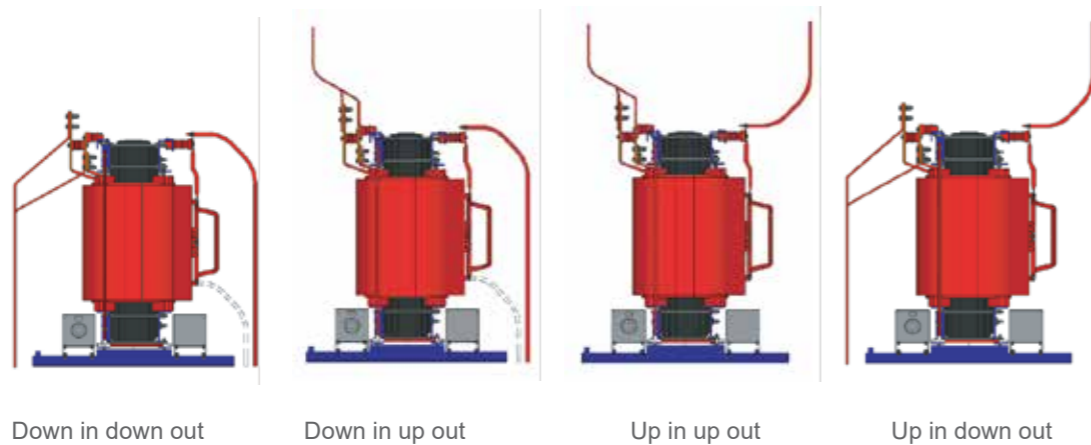
- Wetown resin cast dry-type transformers only use flame-retardant and self-extinguishing materials, and do not use additional materials.
- Internal arcs and external fires caused by electrical faults will not cause the transformer to burn or explode, and the transformer will self-extinguish after extinguishing the fire source.
- This design has been approved by many national fire protection agencies and can be used in commercial buildings, places where people are concentrated, and residential buildings.
- After many tests, it has been proved that the combustion residue of the transformer is not harmful to the environment.

Product number

Wetown resin cast dry-type transformers can be provided in accordance with GB and IEC series standards.



Transformer wiring diagram



Product Specifications

SCB18 Series (NX1) Technical Data Sheet

Rated Capacity (kVA)	Voltage combination			Linked groups	No load loss (W)	Load loss 75°C (W)	No load current (%)	Short-circuit impedance (%)	Sound pressure level (dB)	Sound power level (dB)		
	High voltage (kV)	High voltage tap range HV (%)	Low voltage (kV)									
Model	(kV)	HV (%)	(kV)		(W)	75°C (W)	(%)	(%)	(dB)	(dB)		
SCB18-30	6, 6.3, 10, 10.5, 11	±5%or ±2×2.5%	0.4	Dyn11 or Yyn0	105	550	1.2	4	40	53		
SCB18-50											155	780
SCB18-80											210	1080
SCB18-100											230	1230
SCB18-125											270	1440
SCB18-160											310	1660
SCB18-200					360	1980	1		42	55		
SCB18-250					415	2160						
SCB18-315					510	2720						
SCB18-400					570	3130						
SCB18-500					670	3830						
SCB18-630					775	4610						
SCB18-630					750	4680	0.7	44	57			
SCB18-800					875	5460						
SCB18-1000					1020	6380						
SCB18-1250					1205	7610						
SCB18-1600					1415	9210						
SCB18-2000					1760	11350						
SCB18-2500					2080	13440	0.6	44	57			
SCB18-630					750	4680						
SCB18-800	875	5460										
SCB18-1000	1020	6380										
SCB18-1250	1205	7610										
SCB18-1600	1415	9210										
SCB18-2000	1760	11350	0.5	45	58							
SCB18-2500	2080	13440										
SCB18-630	750	4680										
SCB18-800	875	5460										
SCB18-1000	1020	6380										
SCB18-1250	1205	7610										
SCB18-1600	1415	9210	0.4	47	59							
SCB18-2000	1760	11350										
SCB18-2500	2080	13440										
SCB18-630	750	4680										
SCB18-800	875	5460										
SCB18-1000	1020	6380										

Note: The above data is for reference only, the company reserves the right to change the data
When the rated capacity is less than 315kVA, the low-voltage winding of the transformer may be made of copper wire, and the model may be SC18

SCB14 Series (NX2) Transformer Technical Data Sheet

Rated Capacity (kVA)	Voltage combination			Linked groups	No load loss (W)	Load loss 75°C (W)	No load current (%)	Short-circuit impedance (%)	Sound pressure level (dB)	Sound power level (dB)		
	High voltage (kV)	High voltage tap range HV (%)	Low voltage (kV)									
Model	(kV)	HV (%)	(kV)		(W)	75°C (W)	(%)	(%)	(dB)	(dB)		
SCB14-30	"6, 6.3, 10, 10.5, 11"	"±5% or ±2×2.5%"	0.4	"Dyn11 or Yyn0"	130	550	1.2	4	40	53		
SCB14-50					185	780			40	53		
SCB14-80					250	1080			40	53		
SCB14-100					270	1230			40	53		
SCB14-125					320	1440	1		4	42	55	
SCB14-160					365	1660				42	55	
SCB14-200					420	1980				42	55	
SCB14-250					490	2160				42	55	
SCB14-315					600	2720	0.7	6		44	57	
SCB14-400					665	3130				44	57	
SCB14-500					790	3830	0.6			6	44	57
SCB14-630					910	4610					44	57
SCB14-630					885	4680	0.5		6		45	58
SCB14-800					1035	5460					45	58
SCB14-1000					1205	6380					45	58
SCB14-1250					1420	7610	0.4				6	45
SCB14-1600					1665	9210		47				59
SCB14-2000					2075	11350		47				59
SCB14-2500					2450	13440		47		59		

Note: The above data is for reference only, the company reserves the right to change the data
When the rated capacity is less than 315kVA, the low-voltage winding of the transformer may be made of copper wire, and the model may be SC14

SCB13 Series Transformer Technical Data Sheet

Rated Capacity (kVA)	Voltage combination			Linked groups	No load loss (W)	Load loss 75°C (W)	No load current (%)	Short-circuit impedance (%)	Sound pressure level (dB)	Sound power level (dB)		
	High voltage (kV)	High voltage tap range HV (%)	Low voltage (kV)									
型号	(kV)	HV (%)	(kV)		(W)	75°C (W)	(%)	(%)	(dB)	(dB)		
SCB13-30	6, 6.3, 10, 10.5, 11	±5% or ±2×2.5%	0.4	Dyn11 or Yyn0	135	550	1.2	4	40	53		
SCB13-50					195	780			40	53		
SCB13-80					265	1080			40	53		
SCB13-100					290	1230			40	53		
SCB13-125					340	1440	1		4	42	55	
SCB13-160					385	1660				42	55	
SCB13-200					445	1980				42	55	
SCB13-250					515	2160				42	55	
SCB13-315					635	2720	0.7	6		44	57	
SCB13-400					705	3130				44	57	
SCB13-500					835	3830	0.6			6	44	57
SCB13-630					965	4610					44	57
SCB13-630					935	4680	0.5		6		45	58
SCB13-800					1090	5460					45	58
SCB13-1000					1270	6380					45	58
SCB13-1250					1500	7610	0.4				6	45
SCB13-1600					1760	9210		47				59
SCB13-2000					2190	11350		47				59
SCB13-2500					2590	13440		47		59		
SCB13-1600					1760	10120	0.3	8		47		59
SCB13-2000	2190	12480	47	59								
SCB13-2500	2590	14840	47	59								

Note: The above data is for reference only, the company reserves the right to change the data
When the rated capacity is less than 315kVA, the low-voltage winding of the transformer may be made of copper wire, and the model may be SC13

SCB12 Series (NX3) Transformer Technical Data Sheet

Rated Capacity (kVA)	Voltage combination			Linked groups	No load loss (W)	Load loss 75°C (W)	No load current (%)	Short-circuit impedance (%)	Sound pressure level (dB)	Sound power level (dB)			
	High voltage	High voltage tap range	Low voltage										
	(kV)	HV (%)	(kV)										
Model	(kV)	HV (%)	(kV)		(W)	75°C (W)	(%)	(%)	(dB)	(dB)			
SCB12-30	6, 6.3, 10, 10.5, 11	±5% or ±2×2.5%	0.4	Dyn11 or Yyn0	150	620	1.2	4	42	55			
SCB12-50					215	870			42	55			
SCB12-80					295	1200			42	55			
SCB12-100					320	1370			42	55			
SCB12-125					375	1610	1		4	42	55		
SCB12-160					430	1860				44	57		
SCB12-200					495	2200				44	57		
SCB12-250					575	2410				44	57		
SCB12-315					705	3030	0.7		6	44	57		
SCB12-400					785	3480				46	58		
SCB12-500					930	4260	0.6			6	46	58	
SCB12-630					1070	4130					46	58	
SCB12-630					1040	5200	0.5	8			46	58	
SCB12-800					1210	6070					46	58	
SCB12-1000					1410	7090					46	58	
SCB12-1250					1670	8460					0.4	8	46
SCB12-1600					1960	10210	48						60
SCB12-2000					2440	12570	48						60
SCB12-2500					2880	14920	48						60
SCB12-1600					1960	11260	0.3				8		48
SCB12-2000	2440	13880	48	60									
SCB12-2500	2880	16410	48	60									

Note: The above data is for reference only, the company reserves the right to change the data
When the rated capacity is less than 315kVA, the low-voltage winding of the transformer may be made of copper wire, and the model may be SC12

SCB11 Series Transformer Technical Data Sheet

Rated Capacity (kVA)	Voltage combination			Linked groups	No load loss (W)	Load loss 75°C (W)	No load current (%)	Short-circuit impedance (%)	Sound pressure level (dB)	Sound power level (dB)			
	High voltage	High voltage tap range	Low voltage										
	(kV)	HV (%)	(kV)										
Model	(kV)	HV (%)	(kV)		(W)	75°C (W)	(%)	(%)	(dB)	(dB)			
SCB11-30	6, 6.3, 10, 10.5, 11	±5% or ±2×2.5%	0.4	Dyn11 or Yyn0	170	620	1.2	4	42	55			
SCB11-50					240	870			42	55			
SCB11-80					330	1200			42	55			
SCB11-100					360	1370			42	55			
SCB11-125					420	1610	1		4	42	55		
SCB11-160					480	1860				44	57		
SCB11-200					550	2200				44	57		
SCB11-250					640	2410				44	57		
SCB11-315					790	3030	0.7			6	44	57	
SCB11-400					880	3480					46	58	
SCB11-500					1040	4260	0.6				6	46	58
SCB11-630					1200	4130						46	58
SCB11-630					1170	5200	0.5	8				46	58
SCB11-800					1360	6070						46	58
SCB11-1000					1590	7090						46	58
SCB11-1250					1880	8460						0.4	8
SCB11-1600					2200	10210	48		60				
SCB11-2000					2740	12570	48		60				
SCB11-2500					3240	14920	48		60				
SCB11-1600					2200	11260	0.3		8			48	
SCB11-2000	2740	13880	48	60									
SCB11-2500	3240	16410	48	60									

Note: The above data is for reference only, the company reserves the right to change the data
When the rated capacity is less than 315kVA, the low-voltage winding of the transformer may be made of copper wire, and the model may be SC11

SCB18 series transformer mechanical parameter table (10kV)

Rated Capacity	Short circuit impedance	Base gauge m×n	Dimensions L×W×H	Weight	Housing size (IP20)	Weight
Model					L×W×H	
(kVA)	(%)	(mm)	(mm)	(kg)	(mm)	(kg)
SCB18-30	4	440×440	900×640×880	400	/	/
SCB18-50	4	440×440	980×640×950	450	/	/
SCB18-80	4	440×440	1000×640×950	500	/	/
SCB18-100	4	550×550	1050×750×950	800	1400×1300×1800	1100
SCB18-125	4	550×550	1050×750×960	900	1400×1300×1800	1200
SCB18-160	4	550×550	1050×750×980	1040	1400×1300×1800	1340
SCB18-200	4	550×550	1080×750×1000	1280	1400×1300×1800	1580
SCB18-250	4	550×550	1100×750×1030	1320	1500×1300×2200	1650
SCB18-315	4	660×660	1200×860×1050	1450	1600×1400×2200	1800
SCB18-400	4	660×660	1230×860×1100	1650	1600×1400×2200	2000
SCB18-500	4	660×660	1280×860×1150	1980	1600×1400×2200	2330
SCB18-630	4	820×820	1350×1020×1200	2300	1900×1400×2200	2700
SCB18-630	6	820×820	1480×1020×1100	2370	1900×1400×2200	2770
SCB18-800	6	820×820	1530×1020×1200	2850	1900×1400×2200	3250
SCB18-1000	6	820×1070	1580×1150×1250	3200	1900×1500×2200	3650
SCB18-1250	6	820×1070	1600×1150×1350	3650	1900×1500×2200	4100
SCB18-1600	6	820×1070	1720×1150×1400	4200	2200×1600×2200	4700
SCB18-2000	6	1070×1070	1750×1150×1500	5000	2200×1600×2200	5500
SCB18-2500	6	1070×1070	1850×1150×1550	6000	2200×1600×2200	6500

Note: The above data is for reference only, the company reserves the right to change the data
When the rated capacity is less than 315kVA, the low-voltage winding of the transformer may be made of copper wire, and the model may be SC18

SCB14 series transformer mechanical parameter table (10kV)

Rated Capacity	Short circuit impedance	Base gauge m×n	Dimensions L×W×H	Weight	Housing size (IP20)	Weight
Model					L×W×H	
(kVA)	(%)	(mm)	(mm)	(kg)	(mm)	(kg)
SCB14-30	4	440×440	900×640×880	350	/	/
SCB14-50	4	440×440	980×640×950	400	/	/
SCB14-80	4	440×440	1000×640×950	450	/	/
SCB14-100	4	550×550	1050×750×950	750	1400×1300×1800	1050
SCB14-125	4	550×550	1050×750×960	870	1400×1300×1800	1170
SCB14-160	4	550×550	1050×750×980	1000	1400×1300×1800	1300
SCB14-200	4	550×550	1080×750×1000	1250	1400×1300×1800	1550
SCB14-250	4	550×550	1100×750×1030	1300	1500×1300×2200	1670
SCB14-315	4	660×660	1170×860×1050	1400	1600×1400×2200	1750
SCB14-400	4	660×660	1200×860×1100	1600	1600×1400×2200	1950
SCB14-500	4	660×660	1250×860×1150	1900	1600×1400×2200	2250
SCB14-630	4	820×820	1300×1020×1200	2150	1900×1400×2200	2550
SCB14-630	6	820×820	1450×1020×1100	2300	1900×1400×2200	2750
SCB14-800	6	820×820	1500×1020×1200	2700	1900×1400×2200	3150
SCB14-1000	6	820×1070	1550×1150×1250	3100	1900×1500×2200	3550
SCB14-1250	6	820×1070	1590×1150×1350	3550	1900×1500×2200	4000
SCB14-1600	6	820×1070	1700×1150×1400	4300	2200×1600×2200	4800
SCB14-2000	6	1070×1070	1720×1150×1500	4800	2200×1600×2200	5300
SCB14-2500	6	1070×1070	1830×1150×1550	5500	2200×1600×2200	6000

Note: The above data is for reference only, the company reserves the right to change the data
When the rated capacity is less than 315kVA, the low-voltage winding of the transformer may be made of copper wire, and the model may be SC14

SCB13 series transformer mechanical parameter table (10kV)

Rated Capacity	Short circuit impedance	Base gauge m×n	Dimensions L×W×H	Weight	Housing size (IP20)	Weight
Model					L×W×H	
(kVA)	(%)	(mm)	(mm)	(kg)	(mm)	(kg)
SCB13-30	4	440×440	900×640×880	350	/	/
SCB13-50	4	440×440	980×640×950	400	/	/
SCB13-80	4	440×440	1000×640×950	450	/	/
SCB13-100	4	550×550	1050×750×950	750	1400×1300×1800	1050
SCB13-125	4	550×550	1050×750×960	900	1400×1300×1800	1170
SCB13-160	4	550×550	1050×750×980	1000	1400×1300×1800	1300
SCB13-200	4	550×550	1080×750×1000	1250	1400×1300×1800	1550
SCB13-250	4	550×550	1100×750×1030	1300	1500×1300×2200	1600
SCB13-315	4	660×660	1150×860×1050	1350	1600×1400×2200	1700
SCB13-400	4	660×660	1180×860×1100	1550	1600×1400×2200	1900
SCB13-500	4	660×660	1210×860×1150	1850	1600×1400×2200	2200
SCB13-630	4	820×820	1250×1020×1200	2050	1900×1400×2200	2450
SCB13-630	6	820×820	1430×1020×1100	2250	1900×1400×2200	2650
SCB13-800	6	820×820	1470×1020×1200	2550	1900×1400×2200	2950
SCB13-1000	6	820×1070	1500×1150×1250	2950	1900×1500×2200	3400
SCB13-1250	6	820×1070	1550×1150×1350	3200	1900×1500×2200	3650
SCB13-1600	6	820×1070	1640×1150×1400	4200	2200×1600×2200	4800
SCB13-2000	6	1070×1070	1700×1150×1500	4700	2200×1600×2200	5200
SCB13-2500	6	1070×1070	1800×1150×1550	5300	2200×1600×2200	5800
SCB13-1600	8	1070×1070	1680×1150×1450	4400	2200×1600×2200	4900
SCB13-2000	8	1070×1070	1770×1150×1600	4900	2200×1600×2200	5400
SCB13-2500	8	1070×1070	1900×1150×1650	5600	2200×1600×2200	6100

Note: The above data is for reference only, the company reserves the right to change the data
When the rated capacity is less than 315kVA, the low-voltage winding of the transformer may be made of copper wire, and the model may be SC13

SCB12 series transformer mechanical parameter table (10kV)

Rated Capacity	Short circuit impedance	Base gauge m×n	Dimensions L×W×H	Weight	Housing size (IP20)	Weight
Model					L×W×H	
(kVA)	(%)	(mm)	(mm)	(kg)	(mm)	(kg)
SCB12-30	4	440×440	900×640×880	350	/	/
SCB12-50	4	440×440	980×640×950	400	/	/
SCB12-80	4	440×440	1000×640×950	450	/	/
SCB12-100	4	550×550	1050×750×950	750	1400×1300×1800	1050
SCB12-125	4	550×550	1050×750×960	900	1400×1300×1800	1170
SCB12-160	4	550×550	1050×750×980	1000	1400×1300×1800	1350
SCB12-200	4	550×550	1080×750×1000	1250	1400×1300×1800	1550
SCB12-250	4	550×550	1100×750×1030	1300	1500×1300×2200	1670
SCB12-315	4	660×660	1150×860×1050	1350	1600×1400×2200	1700
SCB12-400	4	660×660	1180×860×1100	1500	1600×1400×2200	1850
SCB12-500	4	660×660	1210×860×1150	1700	1600×1400×2200	2050
SCB12-630	4	820×820	1250×1020×1200	1900	1900×1400×2200	2300
SCB12-630	6	820×820	1430×1020×1100	2050	1900×1400×2200	2450
SCB12-800	6	820×820	1470×1020×1200	2300	1900×1400×2200	2700
SCB12-1000	6	820×1070	1500×1150×1250	2800	1900×1500×2200	3250
SCB12-1250	6	820×1070	1550×1150×1350	3100	1900×1500×2200	3550
SCB12-1600	6	820×1070	1640×1150×1400	3700	2200×1600×2200	4200
SCB12-2000	6	1070×1070	1700×1150×1500	4200	2200×1600×2200	4700
SCB12-2500	6	1070×1070	1800×1150×1550	5000	2200×1600×2200	5500
SCB12-1600	8	1070×1070	1680×1150×1450	4400	2200×1600×2200	4900
SCB12-2000	8	1070×1070	1770×1150×1600	4900	2200×1600×2200	5400
SCB12-2500	8	1070×1070	1900×1150×1650	5300	2200×1600×2200	5800

Note: The above data is for reference only, the company reserves the right to change the data
When the rated capacity is less than 315kVA, the low-voltage winding of the transformer may be made of copper wire, and the model may be SC12

SCB11 series transformer mechanical parameter table (10kV)

Rated Capacity Model	Short circuit impedance	Base gauge m×n	Dimensions L×W×H	Weight	Housing size (IP20)	Weight
					L×W×H	
(kVA)	(%)	(mm)	(mm)	(kg)	(mm)	(kg)
SCB11-30	4	440×440	900×640×880	350	/	/
SCB11-50	4	440×440	980×640×950	400	/	/
SCB11-80	4	440×440	1000×640×950	450	/	/
SCB11-100	4	550×550	1050×750×950	750	1400×1300×1800	1050
SCB11-125	4	550×550	1050×750×960	900	1400×1300×1800	1170
SCB11-160	4	550×550	1050×750×980	1000	1400×1300×1800	1350
SCB11-200	4	550×550	1080×750×1000	1250	1400×1300×1800	1550
SCB11-250	4	550×550	1100×750×1030	1300	1500×1300×2200	1670
SCB11-315	4	660×660	1150×860×1050	1350	1600×1400×2200	1700
SCB11-400	4	660×660	1180×860×1100	1500	1600×1400×2200	1850
SCB11-500	4	660×660	1210×860×1150	1700	1600×1400×2200	2050
SCB11-630	4	820×820	1250×1020×1200	1900	1900×1400×2200	2300
SCB11-630	6	820×820	1430×1020×1100	2050	1900×1400×2200	2450
SCB11-800	6	820×820	1470×1020×1200	2300	1900×1400×2200	2700
SCB11-1000	6	820×1070	1500×1150×1250	2800	1900×1500×2200	3250
SCB11-1250	6	820×1070	1550×1150×1350	3100	1900×1500×2200	3550
SCB11-1600	6	820×1070	1640×1150×1400	3700	2200×1600×2200	4200
SCB11-2000	6	1070×1070	1700×1150×1500	4200	2200×1600×2200	4700
SCB11-2500	6	1070×1070	1800×1150×1550	5000	2200×1600×2200	5500
SCB11-1600	8	1070×1070	1680×1150×1450	4400	2200×1600×2200	4900
SCB11-2000	8	1070×1070	1770×1150×1600	4900	2200×1600×2200	5400
SCB11-2500	8	1070×1070	1900×1150×1650	5300	2200×1600×2200	5800

Note: The above data is for reference only, the company reserves the right to change the data
When the rated capacity is less than 315kVA, the low-voltage winding of the transformer may be made of copper wire, and the model may be SC11

SCB11(12) Series Transformer Technical Data Sheet (35kV)

Rated Capacity Model	Voltage combination			Linked groups	No load loss (W)	Load loss 75°C (W)	No load current (%)	Short-circuit impedance (%)	Sound pressure level (dB)	Sound power level (dB)
	High voltage (kV)	High voltage tap range HV (%)	Low voltage (kV)							
SCB11-500	35 36.75 37 38.5	±5% or ±2×2.5%	0.4 0.55 0.69 0.8 1.5	Dyn11 Yyn0 Yd11 Dd0	145(1300)	5810	1.1	6	45	58
SCB11-630					1670(1490)	6720	1.0		45	58
SCB11-800					1940(1730)	7960			45	58
SCB11-1000					2190(1940)	9080	0.75		47	59
SCB11-1250					2550(2260)	11090			47	59
SCB11-1600					2920(2590)	13450			47	59
SCB11-2000					3440(3060)	15890	0.5	50	62	
SCB11-2500					4010(3560)	19040		50	62	
SCB11-2750					4310(3930)	20450		6~8	53	65
SCB11-3150					4770(4240)	22640			53	65
SCB11-4000					5710(5080)	27090	55		66	

Note: The above data is for reference only, the company reserves the right to change the data
When the rated capacity is less than 315kVA, the low-voltage winding of the transformer may be made of copper wire, and the model may be SC11

Mechanical parameters of SCB11(12) series transformers (35kV)

Rated Capacity	Short circuit impedance	Base gauge	Dimensions	Weight	Housing size (IP20)	Weight
Model					L×W×H	
(kVA)	(%)	m×n (mm)	L×W×H (mm)	(kg)	(mm)	(kg)
SCB11-500	6	820×820	1780×1200×1750	3100	2400x1800x2200	3400
SCB11-630	6	820×820	1800×1200×1800	3450	2400x1800x2200	3750
SCB11-800	6	820×820	1800×1200×1820	3700	2400x1800x2200	4000
SCB11-1000	6	820×1070	1890×1250×1850	4450	2400x2000x2300	4800
SCB11-1250	6	820×1070	1950×1350×2000	4700	2400x2000x2300	5150
SCB11-1600	6	1070×1070	2000×1350×2050	6100	2600x2000x2400	6500
SCB11-2000	6	1070×1070	2050×1400×2070	6620	2700x2000x2400	7070
SCB11-2500	6	1070×1070	2100×1400×2130	7050	2700x2000x2400	7500
SCB11-2750	6-8	1070×1070	2120×1400×2150	7500	2700x2100x2500	8000
SCB11-3150	6-8	1070×1070	2250×1400×2200	8820	2800x2100x2600	9370
SCB11-4000	6-8	1070×1070	2300×1450×2300	10500	3000x2200x2700	11100

Note: The above data is for reference only, the company reserves the right to change the data
When the rated capacity is less than 315kVA, the low-voltage winding of the transformer may be made of copper wire, and the model may be SC11

Ordering notice

In order to better meet your needs, please provide the following technical data when ordering products:

Transformer Model: _____ Number of Units: _____

Rated capacity: _____ kVA

Rated voltage: primary side / secondary side _____ / _____ kV

Rated frequency: 50HZ 60HZ

Connection group: Dyn11 Yyn0 Others

Short circuit impedance: Standard value Others _____ %

Empty/Load Loss: (75°C) Standard value Others _____ / _____ W

Tap range: ±5% ±2×2.5% Others

Maximum/Low Ambient

Temperature 40/-5°C 40/-25°C Others

Average annual temperature 20°C Others _____ °C

Hottest monthly average temperature 30°C Others _____ °C

Altitude: ≤1000m Others _____ m

Installation method: Indoor installation Outdoor installation

Cooling method: AN AN/AF
 No-load voltage On-load voltage

Voltage regulation method: regulation regulation

Housing Protection: IPOO IP20 Others

Housing material: Steel plate spray Stainless steel Aluminum alloy

Housing Color: RAL7032 RAL7035 Others

Incoming line: Up in up out Down in down out Side in side out Others

Side outlet: No Yes

Other requirements: _____