Our vision: "Technology at its best, power at its finest"
Our mission: Build green power, inspire the digital world

Shared wisdom 'S' achieving future patterns

Our values: Dare to know the future, aim high, and put customers first
Innovation and transformation, inclusiveness and collaboration,
pragmatism and perseverance

"Keeping our feet on the ground, we strive for stability and long-term success."

Development history |

2012

Zhejiang Shenheng Electric Power Co., Ltd. was established in Yanpan Industrial Zone, Yueqing, Wenzhou, China

2015

The company has continuously expanded its production scale, introduced international advanced production equipment, and established a team of professional and technical talents. It has obtained multiple industry qualification certifications and honorary titles

2018

We have continuously deepened our core technology research and development, achieved steady growth in operational efficiency, initially established brand influence in the electrical field, and significantly improved customer satisfaction and market recognition

2020

With a professional independent research and development team, we can provide one-stop product supporting solutions for complete power transmission and distribution systems

2021

Establish an international brand strategy and implement a global market expansion action plan with clear objectives

2023

Adhering to the development philosophy of "Sharing Wisdom (S) to Shape the Future", we strive to promote the high-quality development of national power services

2024

Shenheng Electric Power has relocated its entire production facility to a newly built 16,000 square meter plant in Yanpen, and has fully introduced advanced automated production equipment from both domestic and international sources to expand production

future

The world surges forward.
Opportunities and challenges are sweeping in like waves. Energy, health, efficiency, connectivity... Every breakthrough in the voyage of human civilization calls for the strength to break through the waves and stand atop the tides.
Shenheng Electric Power takes innovation as its compass and technology as its sail. We are well aware that every technological leap injects new momentum into social development and creates more possibilities for the future of mankind. Innovation is the code embedded in the genes of Shenheng Electric Power.

In the deep sea of research and development, we continuously explore unknown boundaries, gather global top manufacturing wisdom, and delve deeply into core technology fields. From breakthroughs in basic materials to iterations of cutting-edge algorithms, we use our continuous originality to build a technological beacon for the future, refining the blueprint of innovation into world-changing products. In our intelligent manufacturing center, precision is our belief, and quality is our life.

Seize the opportunities of the area, illuminate the vast starry sky

The company is oriented towards becoming an international enterprise, supported by a professional R&D team and technical support, and guaranteed by a comprehensive quality management system. It provides one-stop product solutions for complete power transmission and distribution systems, offering users safe, reliable, and high-performance products. Over the years, the company has provided high-quality power transmission and distribution equipment and electrical control devices for various industries such as metallurgy, power plants, power grids, petrochemicals, mining, industrial manufacturing, rail transit, data centers, commercial buildings, residential housing, and renewable energy.

The strategic business philosophy of Shen Heng Electric Power is "Sharing Wisdom S, Achieving Future Patterns"! In this international era of rapid technological development and vigorous talent emergence, we adhere to the corporate mission of "Keeping Pace with the World and Winning Together with Customers", uphold the management philosophy of "Pioneering, Pragmatic, Standardized, and Innovative", advocate a "borderless" talent perspective, optimize the talent resource structure, and showcase the value of our employees. Facing the opportunities of economic globalization in the new century, all employees of Shen Heng continue to forge ahead with a pragmatic and innovative spirit, writing a new chapter in serving national power construction.

We adhere to the corporate policy of "modesty, pragmatism, innovation, and win-win", with the goal of creating an international brand. We are willing to sincerely cooperate with domestic and foreign partners for mutual development, and make unremitting efforts to bring China's power transmission and distribution equipment products into the world's advanced ranks!

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Realize electric intelligence

About Us|

Shenheng Power Equipment Co., Ltd., founded in 2012 with a registered capital of 150.8 million yuan, currently employs over 200 people and occupies an operating area of 12,000 square meters. Shenheng Electric Power is a technology-based enterprise specializing in the production of complete sets of transmission and distribution equipment, integrating research and development, manufacturing, sales, and service. Located in the Yueqing Economic Development Zone, Zhejiang Province, the company offers a range of products including box-type substations, high-voltage complete switchgear cabinets, high-voltage cable distribution boxes, low-voltage complete switchgear cabinets, and high and low-voltage components.

2012
Established in 2012

5.16
2024 Annual Sales: 516 Million

320
Number of Employees

16000
Company Operating Area

Promote the benevolent application of technology and foster sustainable development

SustainableTech

The quality of every product from Shenheng Electric Power is rooted in the precision manufacturing of each process and the rigor of every inspection round. Through strict quality control, we are committed to providing you with the highest quality product experience.

Shenheng Electric Power adopts advanced automated production equipment and adheres to the core principle of "professional manufacturing, dedicated service." By leveraging high-tech talent, introducing advanced foreign production equipment, and utilizing refined production techniques, rigorous processes, sophisticated testing systems, and extensive field engineering experience, the company maintains a culture of excellence and strict quality control. This dedication to manufacturing excellence has made its products highly favored by users.

Realizing Electric **Intelligence**

SHENHENG POWER EQUIPMENT CO.,LTD

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Prefabricated Substation

Prefabricated Substation (European style)

1 | Brief Introduction

YB11-12/0.4-30~2500 prefabricated substation is suitable for the outdoor three-phase AC 10kV distribution network with the high voltage side rated voltage of 12kV, low voltage side rated voltage of 0.4kV, transformer rated capacity of 2500kVA or lower and rated frequency of 50Hz, for distribution and acceptance of the power distribution system.

The product is used as the transformation and distribution equipment for urban residential areas, development areas, garden scenic areas, high-rise buildings, industrial and mining enterprises, etc., and also as the temporary transformation and distribution equipment for oil and gas fields, large construction sites, etc.

The product complies with GB/T 17467-2010 "HV/LV Prefabricated Substation".

2 | Model

YB 11 – 12/0.4 – 30~2500

- 30~2500 — Transformer capacity, kVA
- 12/0.4 — HV/LV rated voltage, kV
- 11 — Design sequence number
- YB — HV/LV prefabricated substation

3 | Characteristics

- YB11-12/0.4 prefabricated substation can be divided into three parts, i.e. HV chamber, transformer chamber and LV chamber. Generally, it is arranged in Chinese characters “目” and ”品”, also can be arranged in other forms according to user’s design requirements.
- The top cover of prefabricated substation adopts a double-layer structure with air interlayer, to effectively prevent indoor temperature rise caused by heat radiation.
- The HV chamber is mainly equipped with gas-filled on-load switch, vacuum on-load switch, and fuse-combined electrical apparatus.
- The transformer chamber usually adopts natural air cooling mode, also adopts forced air cooling mode if necessary.
- The LV chamber cabinet is the assembled GGD, GCS, GCK cabinet with the screen-mounted panel.
- The power can be supplied through the terminal, ring network or dual power supply, etc.

4 | Service Environment

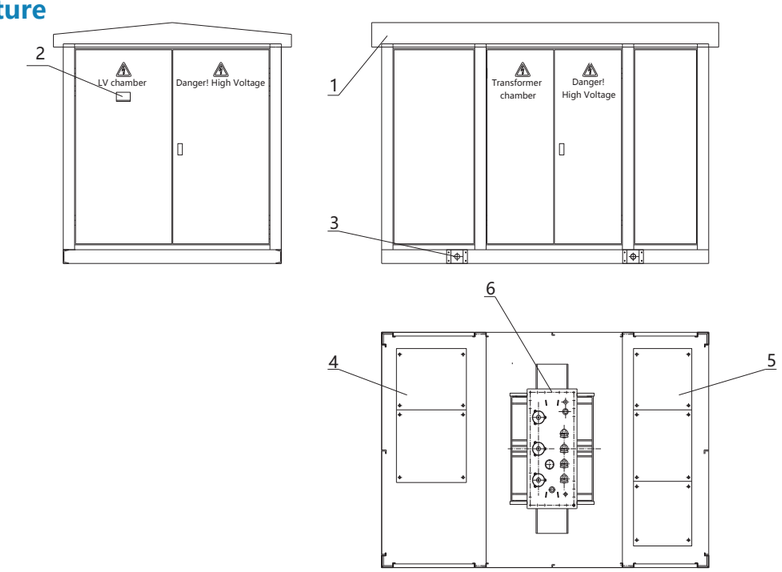
1. Ambient air temperature: -25° C~+40° C
2. Altitude: ≤ 1000m
3. Outdoor wind speed: ≤ 35m/s
4. Relative humidity: daily average ≤ 95%, and monthly average ≤ 90%
5. Earthquake intensity: ≤ VIII
6. Installation location: no fire, explosion hazard, serious pollution, chemical corrosion, or severe vibration.

*Please consult us in case of service conditions that do not comply with the above-mentioned requirements.

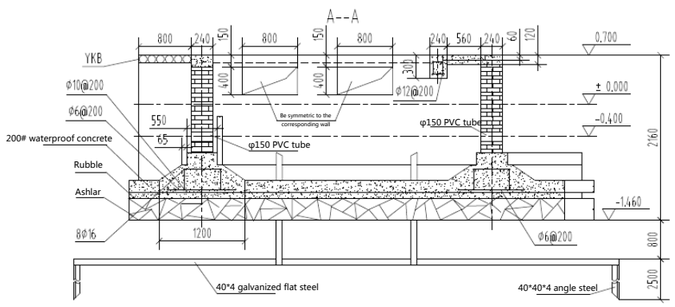
5 | Technical Parameters

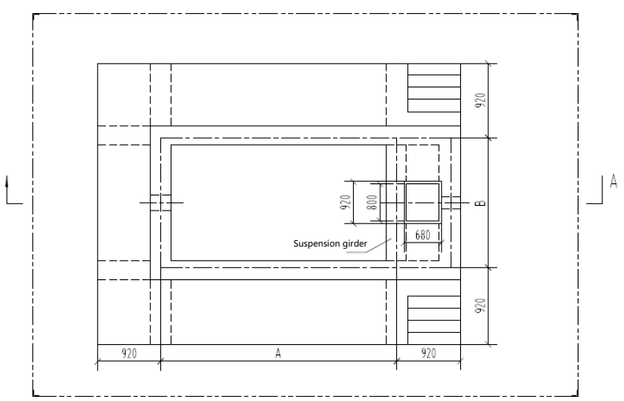
Item	Unit	HV unit	Transformer	LV unit
Rated capacity	kVA		30~2500	
Rated voltage	kV	12	10/0.4	0.4
Rated frequency	Hz	50	50	50
Maximum rated current of compatible fuse	A	200		
1min power frequency withstand voltage (phase-to-phase and phase-to-ground)	kV	42/48		2.5
Lightning impulse withstand voltage (phase-to-phase and phase-to-ground)	kV	75/85		6
Rated short-circuit breaking current	kA	31.5		
Rated peak withstand current	kA	50		63
Rated short-time withstand current	kA	20		30
Rated short-time withstand current duration	s	3		1
Rated short-circuit making current (peak)	kA	50		
Noise level	dB		Oil immersion: ≤55 Dry type : ≤65	
Enclosure protection rating		IP33D	IP33D	IP33D
Outline dimensions	To be configured according to the capacity and HV/LV of the selected transformer			

6 | Outline and Structure



1. Top cover 2. Nameplate 3. Lifting plate 4. HV switchgear 5. LV switchgear 6. Transformer





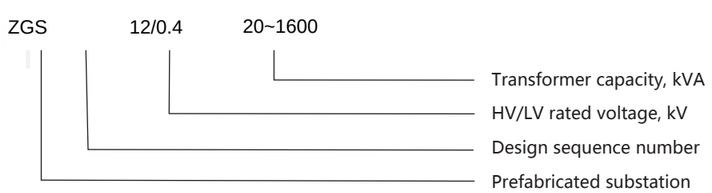
Prefabricated Substation (American style)

1 | Brief Introduction

The ZGS - 12/0.4 - 20~1600 prefabricated substation is a prefabricated transformation and distribution product that places high-voltage switchgear, transformer and protection fuse in the fuel tank. This product is a 10kV/0.4kV, three-phase AC 50Hz, independent set of transformation and distribution equipment with rated capacity of 20 ~ 1600kVA. It is widely used in various residential and commercial buildings, public facilities, industrial and mining enterprises, and urban and rural power grids.

The product complies with the national standard of GB/T 17467-2010 "High/Low Voltage Prefabricated Substation", JB/T 10217-2013 "Pad-mounted Transformer" and other standards.

2 | Model



3 | Characteristics

- The ZGS - 12/0.4 - 20~1600 prefabricated substation adopts American general structure mode. It is 1/3 volume and 1/2 weight of the European style prefabricated substation with the same function.
- The transformer oil serves as the insulation medium for 10kV (6kV) side HV components, thus greatly reducing safety distance.
- The transformer oil tank is a fully closed structure, which insulates oil from atmosphere, thus greatly reducing oxidation process and intervention of moisture, and improving the stability, reliability and safety of HV system equipment.
- The transformer is an energy-saving S13 series coil core transformer recommended by China Guodian Corporation.
- Low noise: 7~10dB lower than the normal American style prefabricated substation.
- The transformer can be used in terminal substations, also be suitable for ring network substations.
- Corrosion-proof and dust-proof treatment: The product is sprayed with powder and coated with anticorrosive paint, which can maintain bright appearance color even after a long period of service.
- The LV side is provided with an intelligent circuit breaker and molded case air switcher with high breaking capacity and sound protection performance.

4 | Service Environment

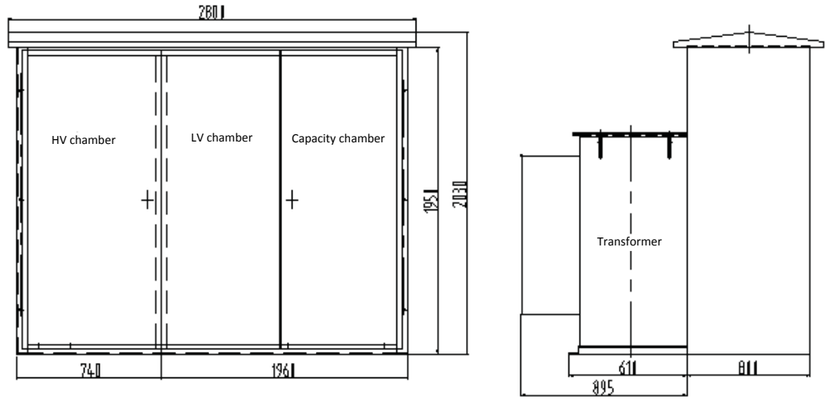
1. Ambient air temperature: -25° C~+40° C
2. Altitude: ≤ 1000m
3. Outdoor wind speed: ≤ 35m/s
4. Relative humidity: daily average ≤ 95%, and monthly average ≤ 90%
5. Earthquake intensity: ≤ VIII
6. Installation location: no fire, explosion hazard, serious pollution, chemical corrosion, or severe vibration.

*Please consult us in case of service conditions that do not comply with the above-mentioned requirements.

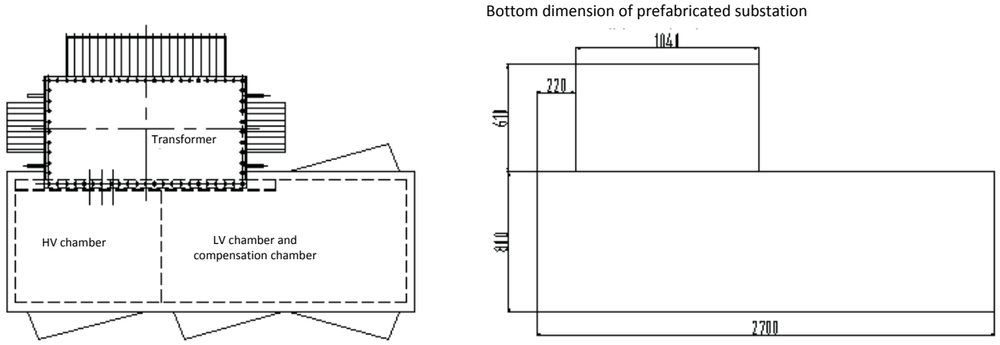
5 | Technical Parameters

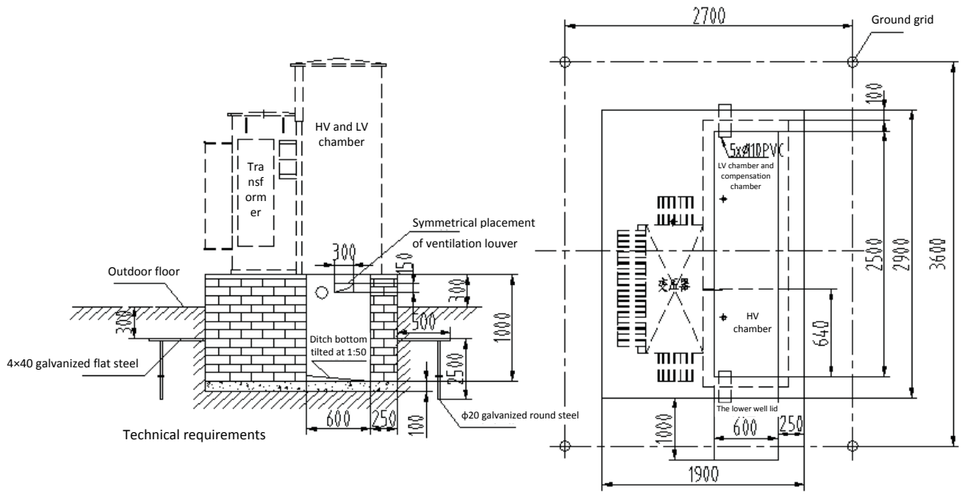
Item	Unit	HV unit	Transformer	LV unit
Rated capacity	kVA		20~1600	
Rated voltage	kV	12	10/0.4	0.4
Rated frequency	Hz	50	50	50
Maximum rated current of compatible fuse	A	160		
1min power frequency withstand voltage (phase-to-phase and phase-to-ground)	kV	42/48		2.5
Lightning impulse withstand voltage (phase-to-phase and phase-to-ground)	kV	75/85		6
Rated short-circuit breaking current	kA	31.5		
Rated peak withstand current	kA	50		63
Rated short-time withstand current	kA	20		30
Rated short-time withstand current duration	s	2		1
Rated short-circuit making current (peak)	kA	50		
Noise level	dB		≤55	
Enclosure protection rating		IP33D	IP33D	IP33D
Outline dimensions	To be configured according to the capacity and HV/LV of the selected transformer			

6| Outline and Structure



Bottom dimension of prefabricated substation





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Switchgear Assembly

LV Switchgear

1 | Brief Introduction

LV switchgear assembly is a new LV distribution product for power transmission, distribution and transformation and can effectively realize protection, supervision and control for electric equipment. The product has such advantages as advanced design, flexible electrical scheme combination, large capacity and strong adaptability. It is mainly used for power transmission of power plants and small and medium-sized power generators, power receiving and transmission of secondary substations, power distribution of industrial and mining enterprises, startup of motors, etc.

The product can be divided into fixed and draw-out types, and the main models are GGD, GFB2, MNS, GCS, GCK, 8PT, Blokset, MD-max.

2 | Characteristics

- The clear and reliable partition between functional units and between chambers prevents the fault of a certain unit from affecting other units.
- For the main components, a wide selection is available and good compatibility is shown among brands, so the product can be installed easily.
- With high mechanical and insulation strength, the product enjoys great dynamic and thermal stability.
- The cabinet is equipped with a skeleton made of quality aluminum-coated zinc plates with standard modulus (E=25mm), and the parts are highly compatible.
- The draw-out unit of draw-out cabinet adopts modular design, ensuring strong interchangeability and easy installation and maintenance.

3 | Technical Parameters

Item	Unit		Parameter
Rated operating voltage	V		380、400
Rated insulation voltage	V		660、690
Frequency	Hz		50、60
Rated current of main bus	A		400~1000,1000~2500,2500~4000,4000~6300
Rated current of branch bus	A		400~1000,1000~1500,1600~3000,3600~5
Outline dimensions of cabinet	Width	m	600、800、1000、1200
	Height	m	2200
	Depth	m	600、800、1000
Protection rating	IP30、IP31、IP40、IP41		
Pollution grade	III		
Altitude	≤5000m		

Ring Main Unit

1 | Brief Introduction

A ring main unit is a new MV distribution product which can effectively realize protection, supervision and control for electric equipment. The product has such advantages as small floor area, safety and reliability, advanced design, flexible electrical scheme combination, simple structure, strong adaptability, tc. The product is used in the power distribution stations and prefabricated substations for load centers such as urban residential areas, high-rise buildings, large public buildings, factories and enterprises.

The product models mainly include XGN43-12, SVAR-12, HXGN26-12, HXGN17A-12, GN118-12.

XGN43-12

SVAR-12

XGN118-12

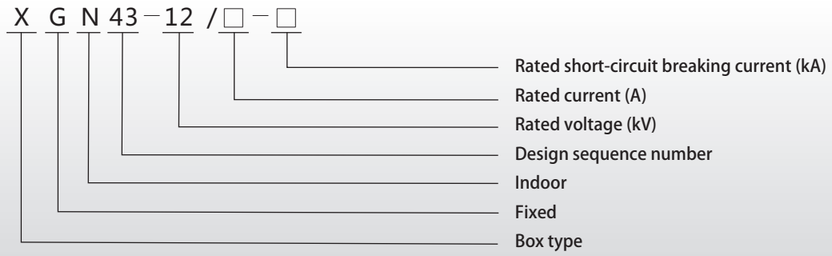
XGN2-12

HXGN17A-12

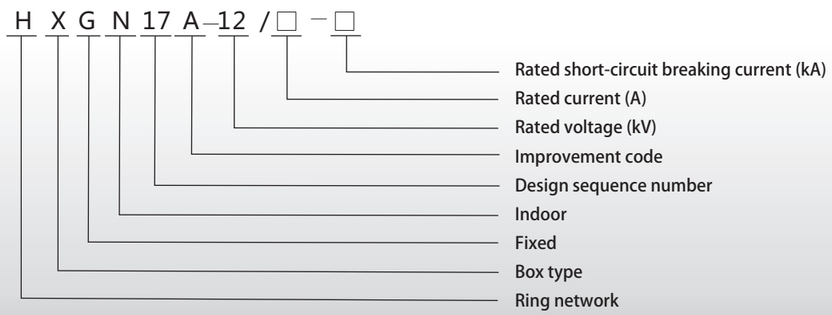
HXGN26-12

2 | Model

XGN series: XGN43-12



HXGN series: HXGN17A-12



SVAR-12:

Model	XGN43-12	SVAR-12	HXGN26-12	HXGN17A-12	XGN2-12	XGN118-12
Insulation medium	SF_6	Solid insulation	Semi bubble SF_6	Air insulation	Air insulation	N2

3 | Characteristics

- The product is maintenance free, and the moving and fixed contacts, interrupter and buses are sealed in the same gas tank.
- The product is equipped with extended modules. The extended buses are fully insulated and shielded, completely avoid influences from climate conditions and ensure zero maintenance.
- The best protection combinations, depending on user needs, are available, such as on-load switch, on-load switch + fuse, and vacuum circuit breaker, to satisfy the needs of multiple incoming and outgoing circuits.
- The product is interlocked mechanically in a reliable way to ensure the safety in the operation.
- The product is provided with fully sealed and fully insulated incoming and outgoing cables, with voltage presence display function, to accurately show the voltage condition of each circuit. (XGN43-12, SVAR-12, XGN118-12)

4 | Technical Parameters

Item		Unit	Parameter		
			On-load switch C	Composite apparatus F	Circuit breaker V
Ratedvoltage		kV	12		
Ratedfrequency		Hz	50		
Ratedcurrent		A	630	125	630
Lightning impulse withstand voltage (peak 1.2/50u s)	Phase-to-phase, phase-to-ground	kV	75		
	Isolatingfracture		85		
Maincircuitpowerfrequency withstandvoltage(1min)	Phase-to-phase, phase-to-ground		42		
	Isolatingfracture		48		
Auxiliaryandcontrolcircuitspowerfrequencywithstandvoltage(1min)			2		
Rated short-time withstand current (main circuit)		kA	20/25		20/25
Rated peak withstand current (main circuit and grounding switch)		kA	50/63		50/63
Rated short-circuit duration		s	4		
Short-time withstand current (2s) of ground switch		kA	20/25		
Rated short-circuit breaking current		kA			20/25
Rated short-circuit making current		kA	50/63	50	50/63
Rated active load breaking current		A	630		
Rated closed-loop breaking current		A	630		
Rated cable charging breaking current		A	10		
Rated transfer current		A		1700	
Mechanical life (master/grounding switch)		Times	5000/3000	5000/3000	10000/3000
Protection rating (bus system/housing)			IP67/IP4X XGN43-12、SVAR-12 、XGN118-12		

Centrally Installed Switchgear

1 | Brief Introduction

Indoor removable armored metal-enclosed switchgear is a new MV distribution product for power transmission, distribution and transformation, and can effectively realize protection, supervision and control for electric equipment. The product has such advantages as advanced design, flexible electrical scheme combination, large capacity, and strong adaptability. It is mainly used for power transmission of power plants and small and medium-sized power generators, power receiving and transmission of secondary substations, power distribution of industrial and mining enterprises, etc.

The product models mainly include KYN28A-12, KYN28A-24, KYN61-40.5.

2 | Model

XGN series: XGN43-12

K Y N 28 A – 12 /□ – □

- Rated short-circuit breaking current (kA)
- Rated current (A)
- Rated voltage (kV)
- Improvement code
- Design sequence number
- Indoor
- Removable
- Armored

3 | Characteristics

- According to the function of the electrical equipment in the cabinet, the cabinet is divided into four different functional units by metal partitions, and is highly reliable.
- Sheet metal is processed by general CNC machining equipment with high machining precision and sound technique, which ensures strong interchangeability.
- The product has complete misoperation-proof procedures and is provided with reliable mechanical interlock, thus ensuring high safety.
- The housing is made of aluminum-coated zinc plates, with strong impact resistance and corrosion resistance.

4 | Technical Parameters

Item		Unit	Parameter
Rated voltage		kV	12/24/40.5
Rated insulation level	Power frequency withstand voltage (1min)	kV	42/65/85
	Lightning impulse withstand voltage (peak)	kV	75/65/185
Rated frequency		Hz	50、60
Rated current of main bus		A	630、1250、1600、2000、2500、3150、4000
Rated current of branch bus		A	630、1250、1600、2000、2500、3150、4000
Rated short-time withstand current (4s)		kA	25、31.5、40
Rated peak withstand current		kA	63、80、100
Protection rating		Housing IP4X, chamber IP2X	
Pollution grade		III	
Altitude		≤1000m	
Relative humidity		Maximum monthly average ⩽90% (25℃); daily maximum average ⩽95% (25℃)	
Ambient temperature		-25℃～+40℃ (the average temperature shall be NMT 35℃ in a 24h cycle)	

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Power Transformer

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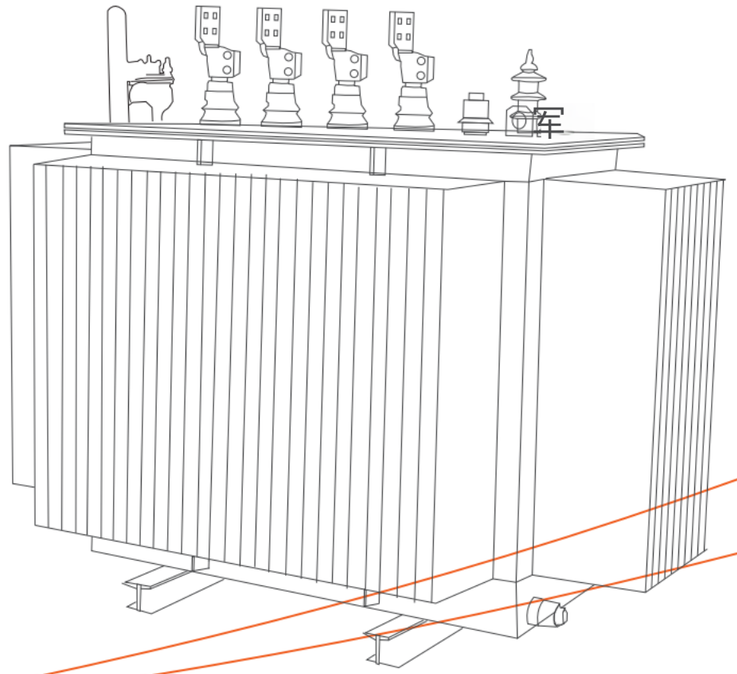
OIL IMMERSED TRANSFORMER



PRODUCTS STANDARDS

GB/T6451	《三相油浸式电力变压器技术参数和要求》 Specification and echnical requirements for oil-immersd power transformers
JB/T3837	《变压器类产品型号编制方法》 Identifcation method of transformer's product type
GB1094.1	《电力变压器第1部分总则》 Power transformers-Partl:General
IEC 60076-2	《电力变压器第2部分液浸式变压器的温升》 Power transformers-Part2:immersed transformers
GB1094.3	《电力变压器第3部分绝缘水平、绝缘试验和外绝缘空气间隙》 Power transformers-Part3:Insulation levels,dielectrc tests and external clearances in ai
GB1094.5	《电力变压器第5部分承受短路的能力》 Power transformers-Part5:Ability to withstand short circuit
IEC 60076-10	《电力变压器第10部分声级测定》 Power transformers-Part10:Determination of sound levels
GB/T25446	《油浸式非晶合金铁心配电变压器技术参数和要求》 Specifcation and technical requirements for oil-immersed amorphous alloy core distribution transformers
GB/T 25289	《20kV油浸式配电变压器技术参数和要求》 Specification and technical requirements for 20kv oil-immersed distribution transformers

35kV Oil-immersed Power Transformer

1 | Brief Introduction

This series is suitable for 35kV, 50Hz power transmission and transformation systems. It may be used as the main transformer in upgraded urban and rural power grids, industrial and mining enterprises and 35kV substations. Long-distance voltage regulation of such an on-load transformer is allowed.

2 | Model

S Z □ – □ / □

- Voltage class
- Rated capacity
- Code of loss level
- (Z) On load ( ) No excitation
- Three-phase oil-immersed transformer

3 | Characteristics

- Core made of high quality silicon steel sheet, with 45° inclined multi-seam, high lamination coefficient, low no-load loss and low noise;
- Folding fuel tank guaranteeing a high mechanical strength and less welds, thus lowering the risk of leakage;
- Mistake-proofing scheme realizing stable product quality, strong overload capability and strong short-circuit tolerance;
- Beautiful appearance and small space required.

4 | Technical Specifications

Voltage class: 35kV

Tapping range: ±2*2.5%, ±5%

Vector group: Yyn0, Dyn11

Capacitance range: for S11-M, 800~25000kVA

Voltage regulating mode: no excitation voltage regulation, on-load voltage regulation

5 | Technical Parameters

S11 35kV three-phase dual winding no excitation voltage regulation transformer

Rated capacity (kVA)	Voltage combination			Vector group	No-load loss (W)	Load loss (W) 120℃	No-load current (%)	Short circuit impedance (%)
	High voltage (kV)	High voltage tapping range (%)	Low voltage (kV)					
800	35 38.5	±5% ±3×2.5% ±2×2.5 ±3×2.5	3.15 6.3 10.5 3.15 3.3 6.3 6.6 10.5	Yd11	984	9405	1.0	6.5
1000					1152	11542.5	1.0	
1250					1408	13936.5	0.9	
1600					1696	16672.5	0.8	
2000					2176	18382.5	0.7	
2500					2560	19665	0.6	7
3150					3040	23085	0.56	
4000					3616	27360	0.56	
5000					4320	31378.5	0.48	
6300					5248	35055	0.48	7.5
8000					720	38475	0.42	
10000					870	45315	0.42	
12500				Ynd11	1008	53865	0.4	8
16000					1216	65835	0.4	
20000					1440	79515	0.4	
25000					1702	94050	0.32	
315000					2022	112860	0.32	

S11 35kV three-phase dual winding on-load voltage regulation transformer

Rated capacity (kVA)	Voltage combination			Vector group	No-load loss (W)	Load loss (W) 75℃	No-load current (%)	Short circuit impedance (%)
	High voltage (kV)	High voltage tapping range (%)	Low voltage (kV)					
2000	35 38.5	±3×2.5%	3.15 3.3 6.3 6.6 10.5	Yd11	2.30	19.24	0.8	6.5
2500					2.72	20.64	0.8	
3150					3.23	24.71	0.72	7
4000					3.87	29.16	0.72	
5000					4.64	34.20	0.68	
6300					5.63	36.77	0.68	7.5
8000				Ynd11	7.87	40.61	0.60	
10000					9.28	48.05	0.60	8
12500					10.94	56.86	0.56	
16000					13.17	70.32	0.54	
20000					15.57	82.78	0.54	
25000					17.80	98.80	0.45	
31500					21.30	121.90	0.40	

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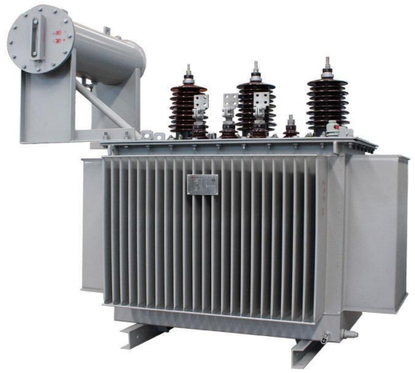
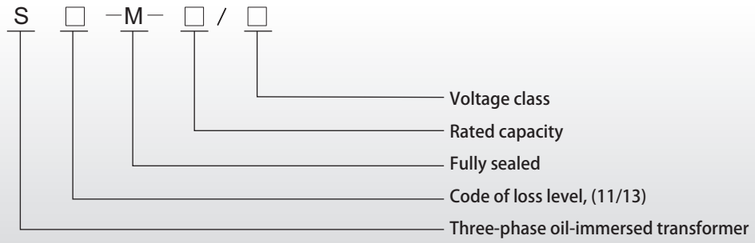
20kV Oil-immersed Distribution Transformer

1 | Brief Introduction

As a fully sealed distribution transformer, it is applicable to 20kV/0.4kV, 50Hz distribution and transformation systems for wide application in various residential and commercial buildings, public facilities, industrial and mining enterprises, power generation enterprises and urban and rural power grids.



2 | Model



3 | Characteristics

- Core made of high quality silicon steel sheet, with 45° inclined multi-seam, high lamination coefficient, low no-load loss and low noise;
- Fully sealed corrugated fuel tank that keeps the core parts from open air, thus ensuring zero maintenance and long service life;
- Mistake-proofing scheme realizing stable product quality, strong overload capability and strong short-circuit tolerance;
- Beautiful appearance and small space required.

4 | Technical Specifications

Voltage class: 20kV

Tapping range: ±2*2.5%, ±5%

Vector group: Yyn0, Dyn11

Capacitance range: for S11-M, 30~2500kVA; for S13-M, 30~1600kVA

Insulation level: 20kV LI25 AC50

Voltage regulating mode: no excitation voltage regulation

5 | Technical Parameters

S11(13)-M

Rated capacity (kVA)	Voltage combination			Vector group	Load loss (W) 120℃	S11		S13		Short circuit impedance (%)
	High voltage (kV)	High voltage tapping range (%)	Low voltage (kV)			No-load loss (W)	No-load current (%)	No-load loss (W)	No-load current (%)	
30	20	±5 ±2×2. 5	0.4	Yyn0 Yzn11 Dyn11	690/660	100	2.1	80	2.0	5.5
50					1010/960	130	2.0	100	1.9	
63					1200/1150	150	1.9	110	1.8	
80					1440/1370	180	1.8	130	1.7	
100					1730/1650	200	1.6	150	1.5	
125					2080/1980	240	1.6	170	1.5	
160					2540/2420	290	1.4	200	1.3	
200					3000/2860	310	1.3	140	1.2	
250					3520/3360	400	1.2	190	1.1	
315					4210/4010	480	1.1	340	1.0	
400					4970/4730	570	1.0	410	0.9	
500					5940/5660	680	1.0	480	0.9	
630					6820	810	0.9	570	0.8	6
800					8250	980	0.8	700	0.7	
1000					11330	1150	0.7	830	0.6	
1250					13200	1380	0.7	970	0.6	
1600					15950	1660	0.6	1170	0.5	
2000					19140	1950	0.6	1380	0.5	
2500					22220	2340	0.5	1640	0.4	

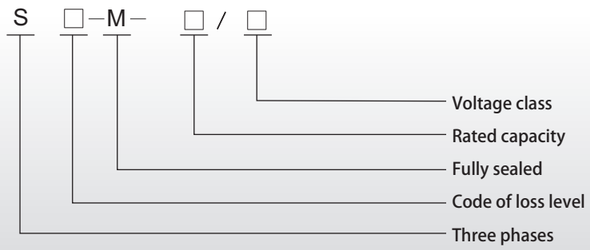
Note: 1. As for transformers with rated capacity of 500kVA and below, Yzn11 or Dyn11 connection is applicable to the load losses above the slash in the cell, and Yyn0 connection applicable to those below the slash.
2. If required by users, a transformer with a low voltage of 0.69kV is available.

10kV Oil-immersed Distribution Transformer

1 | Brief Introduction

As a fully sealed distribution transformer, it is applicable to 10kV/0.4kV, 50Hz distribution and transformation systems for wide application in various residential and commercial buildings, public facilities, industrial and mining enterprises, power generation enterprises and urban and rural power grids. It conforms to the requirements of GB1094 Power Transformers

2 | Model



3 | Characteristics

- Core made of high quality silicon steel sheet, with 45° inclined multi-seam, high lamination coefficient, low no-load loss and low noise;
- Fully sealed corrugated fuel tank that keeps the core parts from open air, thus ensuring zero maintenance and long service life;
- Mistake-proofing scheme realizing stable product quality, strong overload capability and strong short-circuit tolerance;
- Beautiful appearance and small space required.

4| Technical Specifications

Voltage class: 10kV, 6kV
Tapping range: ±2*2.5%, ±5%
Vector group: Yyn0, Dyn11
Capacitance range: for S11-M, 30~3150kVA; for S13-M, 30~3150kVA
Insulation level: 6kV LI60 AC25, 10kV LI75 AC35
Voltage regulating mode: no excitation voltage regulation

5 | Technical Parameters

S11-M

Rated capacity (kVA)	Voltage combination			Vector group	No-load loss (W)	Load loss (W) 75℃	No-load current (%)	Short circuit impedance (%)
	High voltage (kV)	High voltage tapping range (%)	Low voltage (kV)					
10	6 6.3 10 10.5	±2×2.5%	0.4	Dyn11 or Yyn0	50	350/320	2.3	4
20					70	500/460	2.2	
30					100	630/600	2.1	
50					130	910/870	2.0	
63					150	1090/1040	1.9	
80					180	1310/1250	1.8	
100					200	1580/1500	1.6	
125					240	1890/1800	1.5	
160					280	2310/2200	1.4	
200					340	2730/2600	1.3	
250					400	3200/3050	1.2	
315					480	3830/3650	1.0	
400					570	4520/4300	1.0	
500					680	5410/5150	0.9	
630					810	6200	0.8	4.5
800					980	7500	0.7	
1000					1150	10300	0.6	
1250					1360	12000	0.6	
1600					1640	14500	0.6	
2000					2060	1940/18500	0.5	

Note: 1. As for transformers with rated capacity of 500kVA and below, Dyn11 connection is applicable to the load losses above the slash in the cell, and Yyn0 connection applicable to those below the slash.
2. If required by users, a transformer with a low voltage of 0.69kV is available.

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S13-M

Rated capacity (kVA)	Voltage combination			Vector group	No-load loss (W)	Load loss (W) 75℃	No-load current (%)	Short circuit impedance (%)
	High voltage (kV)	High voltage tapping range (%)	Low voltage (kV)					
20	6 6.3 10 10.5	±2×2.5%	0.4	Dyn11 or Yyn0	80	630/600	2.0	4
50					100	910/870	1.9	
63					110	1090/1040	1.8	
80					130	1310/1250	1.7	
100					150	1580/1500	1.5	
125					170	1890/1800	1.4	
160					200	2310/2200	1.3	
200					240	2730/2600	1.2	
250					290	3200/3050	1.1	
315					340	3830/3650	0.9	
400					410	4520/4300	0.9	
500					480	5410/5150	0.8	4.5
630					570	6200	0.7	
800					700	7500	0.6	
1000					830	10300	0.5	
1250					970	12000	0.5	
1600					1170	14500	0.5	

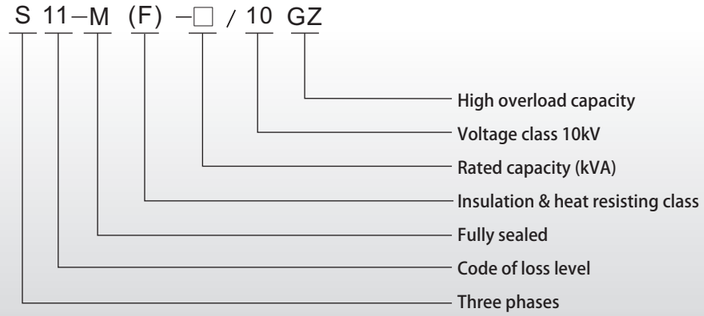
Note: 1. As for transformers with rated capacity of 500kVA and below, Dyn11 connection is applicable to the load losses above the slash in the cell, and Yyn0 connection applicable to those below the slash.
2. If required by users, a transformer with a low voltage of 0.69kV is available.

10kV High Overload Oil-immersed Distribution Transformer

1 | Brief Introduction

This is a new type of transformer, which mainly satisfies the needs of short-time severe increase of electrical loads, so as to effectively cope with the rural demand for centralized electricity consumption at Spring Festivals and in summer.

2 | Model



3 | Characteristics

- High overload running capacity; highly heat-resistant material used for the insulation of the windings and the hot spots of the body to avoid insulation aging and ensure safe overload operation;
- Fully sealed corrugated fuel tank that keeps the core parts from open air, thus ensuring zero maintenance and long service life;
- Core made of high quality silicon steel sheet, with 45° inclined multi-seam, high lamination coefficient, low no-load loss and low noise;
- Mistake-proofing scheme realizing stable product quality, strong overload capability and strong short-circuit tolerance;
- Beautiful appearance and small space required.

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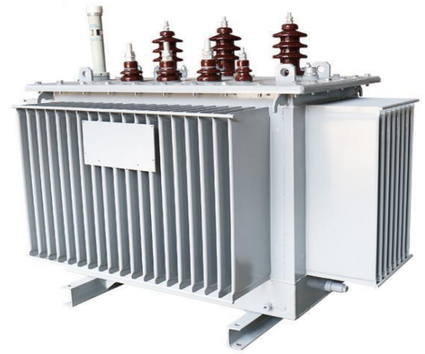
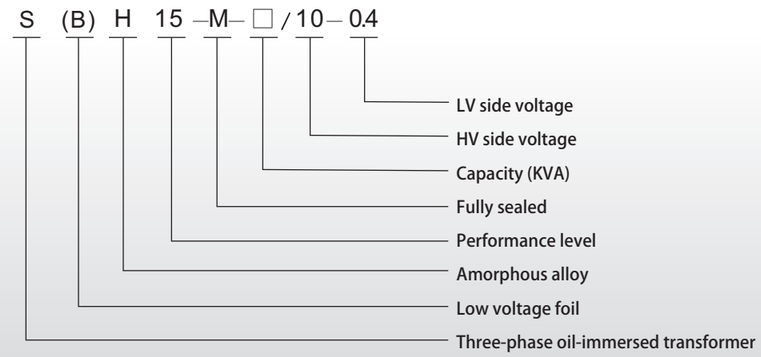
10kV Oil-immersed Amorphous Alloy Distribution Transformer

1 | Brief Introduction

This transformer is a new type of transformer, which mainly satisfies the needs of short-time severe increase of electrical loads, so as to effectively cope with the rural demand for centralized electricity consumption at Spring Festivals and in summer. The core, with amorphous alloy as the magnetic conductive material, is featured by low loss, environmental protection and energy saving.



2 | Model



3 | Characteristics

- High overload running capacity; highly heat-resistant material used for the insulation of the windings and the hot spots of the body to avoid insulation aging and ensure safe overload operation;
- Core rolled from amorphous alloy strips that allows a less no-load loss by 80% than the S9 products;
- Fully sealed corrugated fuel tank that keeps the core parts from open air, thus ensuring zero maintenance and long service life; beautiful appearance and small space required;
- Strong resistance to sudden short circuit.

4 | Technical Specifications

Voltage class: 10kV

Tapping range: ±2*2.5%, ±5%

Vector group: Yyn0, Dyn11

Capacitance range: for S11-M/S13-M, 50/100/200kVA

Insulation level: 10kV L175 AC35

Voltage regulating mode: no excitation voltage regulation

5 | Technical Parameters

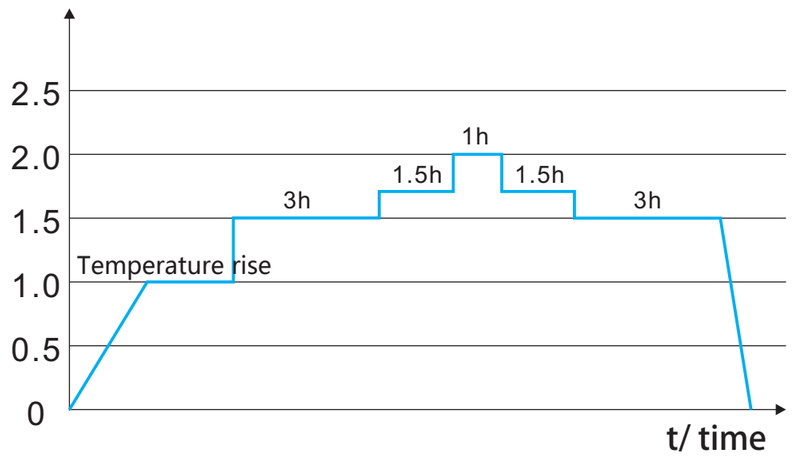
S11（13）-M

Rated capacity (kVA)	Voltage combination			Vector group	Load loss (W) 120℃	S11		S13		Short circuit impedance (%)
	High voltage (kV)	High voltage tapping range (%)	Low voltage (kV)			No-load loss (W)	No-load current (%)	No-load loss (W)	No-load current (%)	
50	10 10.5	±5 ±2×2.5	0.4	Dyn11 or Yyn0	910/870	130	1.1	100	0.8	4
100					1580/1500	200	1.0	150	0.7	
200					2730/2600	340	0.9	240	0.6	

Note: Dyn11 connection is applicable to the load losses above the slash in the cell, and Yyn0 connection applicable to those below the slash.

Within the normal temperature rise range, it is capable of continuous phased operation under 1.5 times rated capacity for 6h (3h for load rise and fall phases), 1.75 times rated capacity for 3h (1.5h for load rise and fall phases), and 2.0 times rated capacity for 1h, without affecting the normal service life of the transformer; the temperature rise under high overload distribution and transformation shall meet the F-class insulation limits. The current application curve in the temperature rise test is as follows:

High overload curve diagram



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4| Technical Specifications

Voltage class: 10kV, 6kV

Tapping range: ±2*2.5%, ±5%

Vector group: Yyn0, Dyn11

Capacitance range: for S(B)H15-M, 50, 100, 200kVA

Insulation level: 10kV L175 AC35

Voltage regulating mode: no excitation voltage regulation

5 | Technical Parameters

S（B）H15—M

Rated capacity (kVA)	Voltage combination			Vector group	No-load loss (W)	Load loss (W) 75℃	No-load current (%)	Short circuit impedance (%)
	High voltage (kV)	High voltage tapping range (%)	Low voltage (kV)					
50	10 10.5	±5 ±2×2.5	0.4	Dyn11 Yyn0	43	910/870	0.5	4
100					75	1580/1500	0.45	
200					120	2730/2600	0.4	

Note: Dyn11 connection is applicable to the load losses above the slash in the cell, and Yyn0 connection applicable to those below the slash.

10kV High Overload Oil-immersed Amorphous Alloy Distribution Transformer

1 | Brief Introduction

The transformer, with amorphous alloy as the magnetic conductive material, is featured by low loss, environmental protection and energy saving. The product is widely used in various residential and commercial buildings, public facilities, industrial and mining enterprises, power generation enterprises and urban and rural power grids.

2 | Model

S (B) H 15—M (F)—□ /10 GZ

- High overload capacity
- Voltage class kV
- Rated capacity (kVA)
- Insulation & heat resisting class
- Fully sealed
- Performance level
- Amorphous alloy
- Low voltage foil
- Three-phase

3 | Characteristics

- High overload running capacity; highly heat-resistant material used for the insulation of the windings and the hot spots of the body to avoid insulation aging and ensure safe overload operation;
- Core rolled from amorphous alloy strips that allows a less no-load loss by 80% than the S9 products;
- Fully sealed corrugated fuel tank that keeps the core parts from open air, thus ensuring zero maintenance and long service life; beautiful appearance and small space required;
- Strong resistance to sudden short circuit;

4 | Technical Specifications

Voltage class: 10kV, 6kV

Tapping range: ±2*2.5%, ±5%

Vector group: Yyn0, Dyn11

Capacitance range: for S(B)H15-M, 50, 100, 200kVA

Insulation level: 10kV L175 AC35

Voltage regulating mode: no excitation voltage regulation

5 | Technical Parameters

SH15

Rated capacity (kVA)	Voltage combination			Vector group	No-load loss (W)	Load loss (W) 75℃	No-load current (%)	Short circuit impedance (%)
	High voltage (kV)	High voltage tapping range (%)	Low voltage (kV)					
50	10	±5	0.4	Dyn11	43	910/870	0.5	4
100	10.5	±2×2.5			75	1580/1500	0.45	
200					120	2730/2600	0.4	

Note: Dyn11 connection is applicable to the load losses above the slash in the cell, and Yyn0 connection applicable to those below the slash.

10kV Oil-immersed Tridimensional Toroidal-core Transformer

1 | Brief Introduction

This transformer is a new energy-saving product. Through the three-dimensional toroidal-core structure and process technology innovation, the no-load loss, no-load current and noise are minimized. It is suitable for three-phase 50Hz, 35kV and below power systems for industrial and agricultural electric power, power and lighting.

2 | Model

S □ –M•RL– □/□

- Voltage class (kV)
- Rated capacity (kVA)
- M — fully sealed; RL — tridimensional toroidal core
- Code of performance level 11, 13, 14
- Three-phase

3 | Characteristics

- Seamless core formed by continuously rolled silicon steel sheet, with the magnetic flux direction is completely consistent with the crystal orientation of the silicon steel sheet, which greatly reduces the no-load loss and no-load current;
- Tridimensional toroidal core featured by low harmonic current;
- Symmetrical three-phase magnetic circuit, with the three core pillars having the same short magnetic circuit, the same magnetic resistance and balanced three phases;
- High-strength tridimensional triangular frame structure, ensuring uniform force on the body and strong short circuit resistance;
- Lower noise by 10~20 dB than the transformers with a laminated core structure.

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4| Technical Specifications

Voltage class: 10kV

Tapping range: ±2*2.5%, ±5%

Vector group: Yyn0, Dyn11

Capacitance range: for S11/S13-M, 30~1600kVA

Insulation level: 10kV LI75 AC35

Voltage regulating mode: no excitation voltage regulation

5 | Technical Parameters

Rated capacity (kVA)	Voltage combination			Vector group	Short circuit impedance (%)	Load loss (W) 120℃	S11-M·RL		S13-M·RL	
	High voltage (kV)	High voltage tapping range (%)	Low voltage (kV)				No-load loss (W)	No-load current (%)	No-load loss (W)	No-load current (%)
30	6 6.3 10 10.5 11	±5 ±2 ×2.5%	0.4	Dyn11 Yyn0 Yzn11	4	630/600	100	0.33	80	0.28
50						910/870	130	0.3	100	0.23
80						1310/1250	180	0.29	130	0.18
100						1580/1500	200	0.18	150	0.17
125						1890/1800	240	0.26	170	0.16
160						2310/2200	280	0.25	200	0.16
200						2730/2600	340	0.24	240	0.14
250						3200/3050	400	0.23	290	0.13
315						3830/3650	480	0.22	340	0.13
400						4520/4300	570	0.21	410	0.13
500						5410/5150	680	0.21	480	0.12
630				Dyn11 Yyn0	4.5	6200	810	0.2	570	0.12
800						7500	980	0.2	700	0.12
1000						10300	1150	0.19	830	0.12
1250						12000	1360	0.18	970	0.12
1600						14500	1640	0.17	1170	0.12

10kV Oil-immersed On-load Capacity Regulating Distribution Transformer

1 | Brief Introduction

This transformer has two automatic switching rated capacities, which may be automatically switched over according to the user load. It is generally applicable to places where the power has seasonal consumption, large load fluctuation, concentrated consumption, and low annual average load rate.

2 | Model

S □ – M – Z · T – □ (□) / □

- Voltage class
- Capacity before regulation (after regulation)
- Capacity regulation
- On-load
- Fully sealed
- Loss level
- Three-phase

3 | Characteristics

- An automatic controller is provided to detect loads and realize automatic switchover between large and small capacities when the power is not cut off;
- When the load decreases, in case of switchover from large capacity to small capacity, the no-load loss and load loss of the transformer are greatly reduced and thus achieve energy saving and consumption reduction.

4| Technical Specifications

Voltage class: 10kV

Tapping range: ±2*2.5%, ±5%

Capacitance range: for S11/S13-M- Z T, 160~630kVA

Insulation level: 10kV LI75AC35

Voltage regulating mode: no excitation voltage regulation

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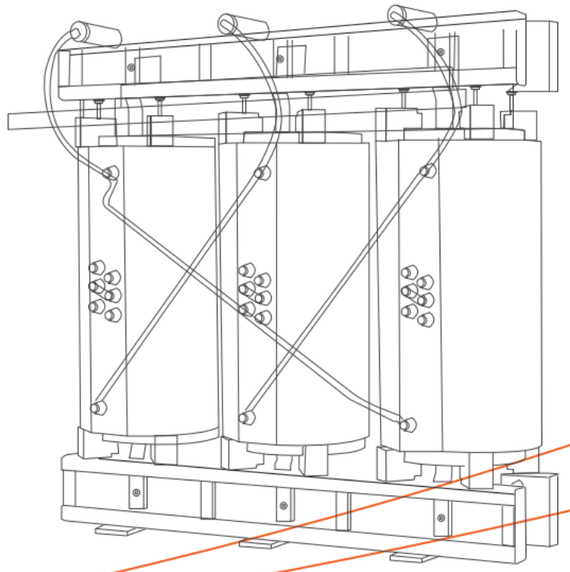
DRY TYPE TRANSFORMER



PRODUCTS STANDARDS

IEC 60076-1	《电力变压器 第 1 部分总则》 Power transformers-Part1:General
GB1094.11	《电力变压器 第 11 部分：干式变压器》 Power transformers-Part11:Dry-type transformer
IEC 60076-12	《电力变压器第 12 部分：干式电力变压器负载导则》 Power transformers-Part 12:Loading guide for dry-type power transformers
GB/T10228	《干式电力变压器技术参数和要求》 Specification and technical requirements for dry-type transformer
GB/T22072	《干式非晶合金铁心配电变压器技术参数和要求》 Specification and technical requirements for dry-type amorphous alloy core distribution transformers
JB/T3837	《变压器类产品型号编制方法》 Identification method of transformer's product type
IEC60076-11	《干式变压器》 Dry Type Transformer

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5 | Technical Parameters

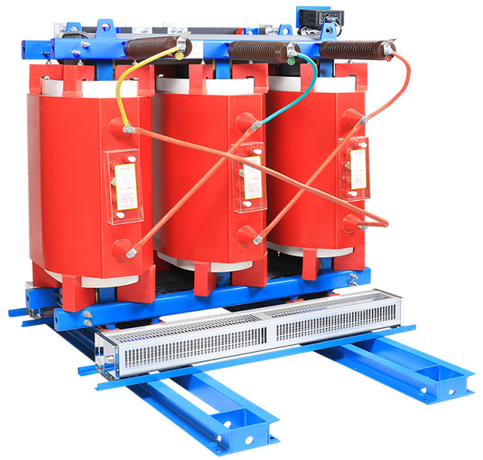
Rated capacity (kVA)	Voltage combination			Vector group	No-load loss (W)	Load loss (W) 120℃	No-load current (%)	Short circuit impedance (%)
	High voltage (kV)	High voltage tapping range (%)	Low voltage (kV)					
160 (50)	10 10.5	±4×2.5 ±3×2.5 ±2×2.5	0.4	Dyn11 (Yyn0)	280 (130)	2590 (1030)	1.6 (0.9)	4.0(4.0)
200 (63)					340 (150)	3215 (1230)	1.5 (0.9)	
250 (80)					400 (180)	3780 (1480)	1.4 (0.7)	
315 (100)					570 (240)	4540 (1770)	1.4 (0.7)	
400 (125)					570 (240)	5480 (2130)	1.3 (0.6)	
500 (160)					680 (280)	6520 (2600)	1.2 (0.6)	
630 (200)					810 (340)	8030 (3060)	1.1 (0.5)	

Note: The data in parentheses are those after capacity regulation.

35kV Dry-type Power Transformer

1 | Brief Introduction

This power transformer is a transformer with high electrical strength, mechanical strength and heat resistance. It is fireproof, flame retardant, and harmless to environment, can be installed deep inside a load center and is featured by low installation cost and simple maintenance. Such product can be widely applied in high-rise buildings, airports, power stations, commercial centers, upgraded urban power grids and other important places.



2 | Model

SC (Z) 10 – □ / □

- Rate high voltage (kV)
- Rated capacity (kVA)
- Performance level
- On-load capacity regulation
- Three phases, molded by casting

3 | Characteristics

- The coil adopts vacuum pressure mirror casting process for beautiful appearance and strong resistance to sudden short circuit;
- The core is made of high quality silicon steel sheet, with 45° inclined multi-seam, high lamination coefficient, low no-load loss and low noise;
- The product has small partial discharge, good thermal stability, low noise and strong overload capability;
- It is maintenance free and widely used in commercial buildings and load center areas.

4 | Technical Specifications

Voltage class: 35kV (36.5kV, 38.5kV, etc.)

Tapping range: ±2*2.5%, ±5%

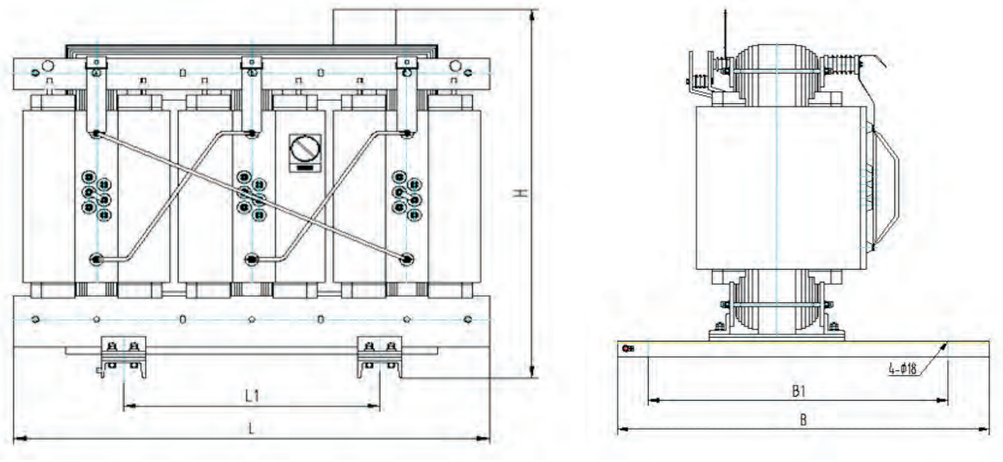
Vector group: Dyn11, Yd11, YNd11, etc.

Capacitance range: 800~25000kVA

Insulation level: 35kV LI170AC70, 10kV LI75AC35

Insulation class: Class F or H

Voltage regulating mode: no excitation voltage regulation or on-load capacity regulation



5 | Technical Parameters

35KV no excitation voltage regulation power transformer

Rated capacity (kVA)	Voltage combination			Vector group	No-load loss (W)	Load loss (W)		No-load current (%)	Short circuit impedance (%)	L (Length)	W (Width)	H (Height)	L1 (Transverse gauge)	B1 (Longitudinal gauge)	Weight (kg)
	High voltage (kV)	High voltage tapping range (%)	Low voltage (kV)			F(120℃)	H(145℃)								
800	35~38.5	±5 or ±2×2.5%	3.15 6 6.3 10 10.5 11	Dyn11, Yd11 or Yyn0	2250	9400	10070	1.1	6.0	2050	1400	2030	820	820	3440
1000					2670	10920	11690	1.1		2010	1400	1950	820	820	4530
1250					3130	12920	13830	1.0		2240	1400	2030	820	820	5060
1600					3690	15480	16570	1.0		2440	1500	2365	820	820	6060
2000					4230	18240	19530	0.9	7.0	2650	1500	2350	1070		8380
2500					4860	21850	23390	0.9		2760	1600	2460	1070		8940
3150					6030	24510	26240	0.8	8.0	2790	1600	2270	1070		9650
4000					7020	29450	31530	0.8		2930	1700	2360	1475		10530
5000					8370	34960	37430	0.7		2935	1700	2700	1475		12860
6300					9900	40850	43730	0.7		3450	1700	2750	2050		16750
8000				Dyn11, Yd11 or YNd11	11340	46070	49320	0.6	9.0	3385	1700	2790	2050		18410
10000					12960	55570	59490	0.6		3970	1800	3080	2300		28150
12500			6 6.3 10 10.5 11		15750	64600	69150	0.5		4180	1800	3270	2300		34920
16000					19350	76000	81360	0.5		4360	1800	3290	2560		37710
20000					22950	85500	91530	0.4	10.0	4370	1800	3330	2560		42050
25000					27100	101000	108100	0.4		4780	1800	3590	2560		60920

Note: The overall dimensions listed in the above table are for reference only, and the product outline drawing shall prevail.

35kV/20kV Dry-type Distribution Transformer

1 | Brief Introduction

This dry-type transformer is an epoxy resin-encapsulated type with an H-class insulation, which is realized through the third-generation German HTT advanced technology and vacuum pressure mirror casting process based on H-class insulation material.

It is applicable to 35kV and below, 50Hz or 60Hz distribution and transmission systems, for wide application in various residential and commercial buildings, public facilities, industrial and mining enterprises, power generation enterprises and urban and rural power grids. It is the most ideal environment-friendly power supply and distribution equipment.

2 | Model

SC (Z) B □ – □ / □

- Rate high voltage (kV)
- Rated capacity (kVA)
- Performance level (10, 11, 12, 13)
- Low voltage foil
- On-load capacity regulation
- Three phases, molded by casting

3 | Characteristics

- The coil adopts vacuum pressure mirror casting process for beautiful appearance and strong resistance to sudden short circuit;
- The core is made of high quality silicon steel sheet, with 45° inclined multi-seam, high lamination coefficient, low no-load loss and low noise;
- The product has small partial discharge, good thermal stability, low noise and strong overload capability;
- It is maintenance free and widely used in commercial buildings and load center areas.

4| Technical Specifications

Voltage class: 35kV(36.5kV, 38.5kV, etc.)

Tapping range: ±2*2.5%, ±5%

Vector group: Dyn11, Yd11, YNd11, etc.

Capacitance range: 800~25000kVA

Insulation level: 35kV LI170AC70, 10kV LI75AC35

Insulation class: Class F or H

Voltage regulating mode: no excitation voltage regulation or on-load capacity regulation

5 | Technical Parameters

SCB10(11) 20kV

Rated capacity (kVA)	Voltage combination			Vector group	No-load loss (W) of SCB10	No-load loss (W) of SCB11	Load loss (W)		No-load current (%)	Short circuit impedance (%)
	High voltage (kV)	High voltage tapping range (%)	Low voltage (kV)				F (120℃)	H (145℃)		
200	20 22 24	±5 or ±2×2.5	0.4	Dyn11 or Yyn0	735	660	2940	3150	1.8	6.0
250					845	760	3420	3670	1.6	
315					970	870	4080	4370	1.6	
400					1150	1030	4840	5190	1.4	
500					1350	1210	5790	6200	1.4	
630					1530	1370	6840	7330	1.2	
800					1755	1570	8260	8850	1.2	
1000					2070	1860	9780	10470	1.0	
1250					2385	2140	11540	12360	1.0	
1600					2790	2510	13870	14850	1.0	
2000					3240	2910	16380	17540	0.8	
2500					3870	3480	19380	20750	0.8	

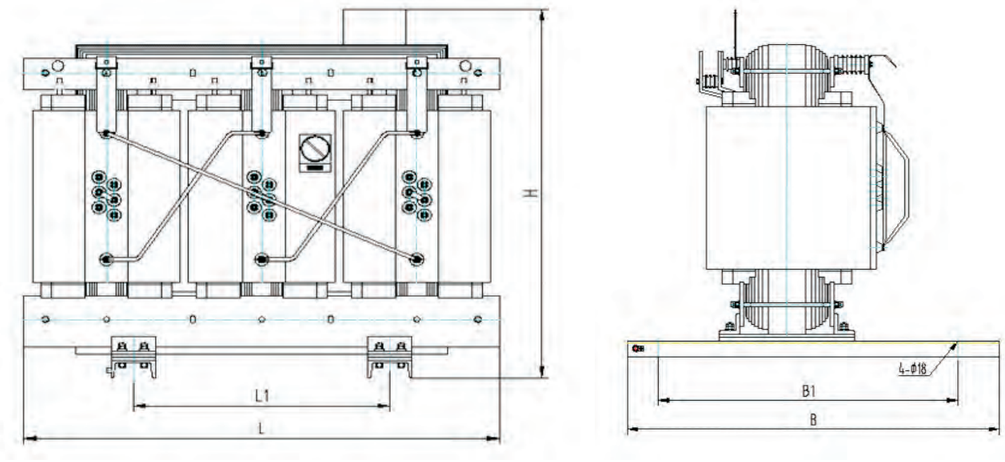
Outline dimensions

Rated capacity (kVA)	Housing without protection (mm)						Housing with protection (mm)		
	L	B	H	L1	B1	Weight (kg)	L2	B2	H2
200	1100	1400	1200	550	720	1010	2000	1400	1900
250	1210	1400	1260	550	720	1200	2000	1400	1900
315	1280	1400	1250	660	820	1360	2100	1400	1900
400	1300	1400	1295	660	820	1580	2100	1400	1900
500	1350	1500	1340	660	820	1850	2200	1500	1900
630	1480	1500	1415	820	820	2230	2300	1500	1900
800	1570	1500	1500	820	820	2490	2400	1500	2000
1000	1630	1500	1590	820	820	2950	2400	1500	2200
1250	1790	1600	1750	820	820	3290	2500	1600	2300
1600	1820	1600	1780	820	1070	4230	2600	1600	2300
2000	1950	1700	1850	1070	1070	5180	2700	1700	2400
2500	2050	1800	1950	1070	1070	6010	2800	1800	2500

Note: The overall dimensions listed in the above table are for reference only, and the product outline drawing shall prevail.

SCB10(11) 35kV

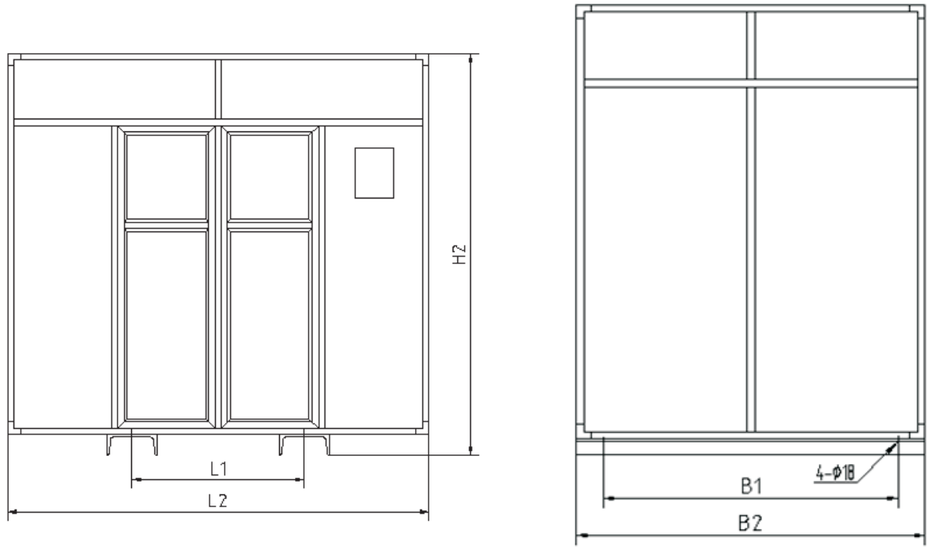
Rated capacity (kVA)	Voltage combination			Vector group	No-load loss (W)	Load loss (W)		No-load current (%)	Short circuit impedance (%)
	High voltage (kV)	High voltage tapping range (%)	Low voltage (kV)			F(120℃)	H(145℃)		
50	35~38.5	±5 or ±2×2.5	0.4	Dyn11 or Yyn0	450	1420	1520	2.8	6.0
100					630	2090	2240	2.4	
160					790	2810	3010	1.8	
200					880	3320	3560	1.8	
250					990	3800	4070	1.6	
315					1170	4510	4830	1.6	
400					1370	5410	5790	1.4	
500					1620	6650	7120	1.4	
630					1860	7690	8240	1.2	
800					2160	9120	9770	1.2	
1000					2430	10450	11190	1.0	
1250					2830	12730	13630	0.9	
1600					3240	15480	16570	0.9	
2000					3820	18240	19530	0.9	
2500					4450	21850	23390	0.9	



Outline dimensions

Rated capacity (kVA)	Housing without protection (mm)						Housing with protection (mm)		
	L	B	H	L1	B1	Weight (kg)	L2	B2	H2
50	1310	1800	1325	400	400	635	2100	1800	2000
100	1265	1800	1305	550	720	920	2100	1800	2000
160	1260	1800	1430	550	720	1125	2100	1800	2100
200	1470	1900	1635	550	720	1630	2200	1900	2200
250	1510	2000	1720	550	720	1780	2300	2000	2300
315	1615	2000	1800	660	820	1905	2400	2000	2400
400	1620	2000	1820	660	820	2100	2400	2000	2400
500	1640	2000	1835	660	820	2550	2400	2000	2400
630	1835	2100	1945	820	820	3050	2600	2100	2500
800	1930	2200	2040	820	820	3420	2700	2200	2600
1000	1990	2300	2125	820	820	4330	2800	2300	2700
1250	2080	2400	2080	820	820	4820	2900	2400	2700
1600	2170	2500	2210	820	1070	5540	3000	2500	2800
2000	2200	2500	2390	1070	1070	6890	3000	2500	3000
2500	2480	2700	2315	1070	1070	7570	3300	2700	3000

Note: The overall dimensions listed in the above table are for reference only, and the product outline drawing shall prevail.



Note: The outline drawing is suitable for two models.

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10kV/6kV Dry-type Distribution Transformer

1 | Brief Introduction

This dry-type transformer is an epoxy resin-encapsulated type with an H-class insulation, which is realized through the third-generation German HTT advanced technology and vacuum pressure mirror casting process based on H-class insulation material.

It is applicable to 35kV and below, 50Hz or 60Hz distribution and transmission systems, for wide application in various residential and commercial buildings, public facilities, industrial and mining enterprises, power generation enterprises and urban and rural power grids. It is the most ideal environment-friendly power supply and distribution equipment.

2 | Model

3 | Characteristics

- The coil adopts vacuum pressure mirror casting process for beautiful appearance and strong resistance to sudden short circuit.
- The core is made of high quality silicon steel sheet, with 45° inclined multi-seam, high lamination coefficient, low no-load loss and low noise.
- The product has small partial discharge, good thermal stability, low noise and strong overload capability
- It is maintenance free and widely used in commercial buildings and load center areas.

4| Technical Specifications

Voltage class: 6kV, 10kV
Tapping range: ±2*2.5%, ±5%
Vector group: Dyn11, Yyn0
Capacitance range: 30~2500kVA
Insulation level: 6kV LI60 AC20, 10kV LI75 AC35
Insulation class: Class F or H
Voltage regulating mode: no excitation voltage regulation or on-load capacity regulation

5 | Technical Parameters

SCB10(11, 12) 10kV/6kV no excitation voltage regulation distribution transformer

Rated capacity (kVA)	Voltage combination			Vector group	No-load loss (W) of SCB10	No-load loss (W) of SCB11	No-load loss (W) of SCB12	Load loss (W)		No-load current (%)	Short circuit impedance (%)
	High voltage (kV)	High voltage tapping range (%)	Low voltage (kV)					F(120℃)	H(145℃)		
30	6 6.3 6.6 10 10.5 11	±5 or ±2×2.5	0.4	Dyn11 or Yyn0	190	170	150	710	760	2.3	4.0
50					270	240	215	1000	1070	2.2	
80					370	330	295	1380	1480	1.7	
100					400	350	320	1570	1680	1.7	
125					470	420	375	1850	1980	1.5	
160					540	480	430	2130	2280	1.5	
200					620	550	495	2530	2710	1.3	
250					720	640	575	2760	2960	1.3	
315					880	780	705	3470	3720	1.1	
400					980	860	785	3990	4280	1.1	
500					1160	1030	930	4880	5230	1.1	
630					1340	1190	1070	5880	6290	0.9	
630					1300	1150	1040	5960	6390	0.9	6.0
800					1520	1350	1215	6960	7460	0.9	
1000					1770	1580	1415	8130	8710	0.9	
1250					2090	1860	1670	9690	10380	0.9	
1600					2450	2170	1960	11730	12550	0.9	
2000					3050	2710	2440	14450	15470	0.7	
2500					3600	3190	2880	17170	18380	0.7	
3150					4280	3850	3460	20540	21990	0.8	

SCB10 6kV no excitation voltage regulation distribution transformer

Rated capacity (kVA)	Voltage combination			Vector group	No-load loss (W)	Load loss (W)		No-load current (%)	Short circuit impedance (%)
	High voltage (kV)	High voltage tapping range (%)	Low voltage (kV)			F(120℃)	H(145℃)		
30	6 6.3 6.6 10 10.5 11	±5 or ±2×2.5%	0.4	Dyn11 or Yyn0	135	640	685	2.3	4
50					195	900	965	2.2	
80					265	1240	1330	1.7	
100					290	1410	1520	1.7	
125					340	1660	1780	1.5	
160					385	1910	2050	1.5	
200					445	2270	2440	1.3	
250					515	2480	2660	1.3	
315					635	3120	3350	1.1	
400					705	3590	3850	1.1	
500					835	4390	4700	1.1	
630					965	5290	5660	0.9	
630					935	5360	5740	0.9	6.0
800					1095	6260	6700	0.9	
1000					1275	7310	7830	0.9	
1250					1505	8720	9340	0.9	
1600					1765	10550	11300	0.9	
2000					2195	13000	13920	0.7	
2500					2590	15450	16540	0.7	
3150					3110	18490	19800	0.8	

Outline dimensions of SCB 10(11, 12, 13) 10kV/6kV distribution transformer

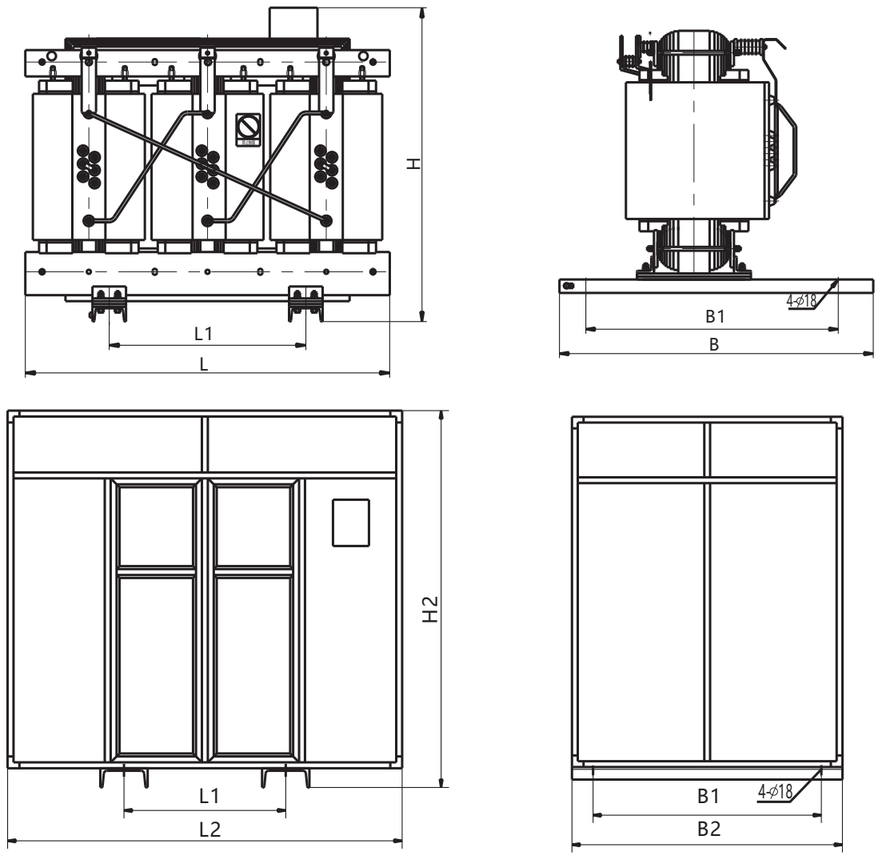
Rated capacity (kVA)	Housing without protection (mm)						Housing with protection (mm)		
	L	B	H	L1	B1	Weight (kg)	L2	B2	H2
30	810	1200	760	400	400	470	1600	1200	1900
50	810	1200	850	400	400	560	1600	1200	1900
80	890	1200	860	400	400	635	1600	1200	1900
100	935	1200	900	550	720	760	1600	1200	1900
125	935	1200	950	550	720	820	1600	1200	1900
160	1030	1200	965	550	720	950	1600	1200	1900
200	1030	1200	965	550	720	1010	1600	1200	1900
250	1110	1200	1000	550	720	1110	1600	1200	1900
315	1120	1200	1040	660	820	1170	1600	1200	1900
400	1100	1200	1115	660	820	1340	1600	1200	1900
500	1140	1300	1150	660	820	1510	1700	1300	1900
630	1320	1300	1105	820	820	1810	1800	1300	1900
800	1420	1400	1145	820	820	2140	1900	1400	1900
1000	1420	1400	1195	820	820	2630	2000	1400	1900
1250	1450	1400	1265	820	820	3030	2000	1400	1900
1600	1590	1500	1300	820	1070	3640	2200	1500	1900
2000	1640	1500	1430	1070	1070	4220	2200	1500	2200
2500	1740	1550	1500	1070	1070	5090	2400	1550	2200
3150	1800	1550	1785	1070	1070	6260	2400	1550	2200

Note: The overall dimensions listed in the above table are for reference only, and the product outline drawing shall prevail.

SCZB10(11) 10kV on-load voltage regulation distribution transformer

Rated capacity (kVA)	Voltage combination			Vector group	No-load loss (W) of SCB11	No-load loss (W) of SCB12	Load loss (W)		No-load current (%)	Short circuit impedance (%)	L	B	H	L1	Weight (kg)
	High voltage (kV)	High voltage tapping range (%)	Low voltage (kV)				F(120℃)	H(145℃)							
315	6 6.3 6.6 10 10.5 11	±4 ×2.5%	3.15 6 6.3 10 10.5 11	Dyn11 or Yyn0	990	890	3600	3860	1.4	4.0	1600	1600	2200	660	1660
400					1120	1000	4270	4570	1.4		1600	1600	2200	660	1830
500					1290	1160	5220	5590	1.4		1700	1700	2200	660	2010
630					1440	1290	6360	6810	1.2	6.0	1800	1700	2200	820	2320
800					1710	1540	7500	8030	1.2		1900	1800	2200	820	2670
1000					1980	1780	8780	9400	1.0		2000	1800	2200	820	3170
1250					2340	2100	10450	11190	1.0		2000	1800	2200	820	3570
1600					2720	2440	12440	13320	1.0		2200	1900	2200	820	4210
2000					3420	3070	15200	16270	0.8		2200	1900	2200	1070	4790
2500					3960	3560	18140	19420	0.8		2400	2000	2200	1070	5690

Note: The overall dimensions listed in the above table are for reference only, and the product outline drawing shall prevail.



Note: The outline drawing is suitable for three models.

10kV/6kV Dry-type Amorphous Alloy Distribution Transformer

1 | Brief Introduction

This amorphous alloy dry type transformer is a new type of high efficiency and energy saving transformer that has good economic and social benefits and is widely used in airports, stations, urban power grids, high-rise buildings and power plants.

2 | Model

SC B H 15 – □ / □

- Rated high voltage (kV)
- Rated capacity (kVA)
- Performance level
- Amorphous alloy core
- Low voltage foil
- Three phases, molded by casting

3 | Characteristics

- The transformer, with amorphous alloy as the magnetic conductive material, is featured by environmental protection and energy saving, with a no-load loss 70%~80% lower than the specified value in GB/T 10228.
- The product adopts a three-phase five-pillar structure, and a frame structure for core protection, which forms a compact and reasonable structure.
- The coil adopts vacuum pressure mirror casting process for beautiful appearance and strong resistance to sudden short circuit.
- The product has small partial discharge, good thermal stability, low noise and strong overload capability
- It is maintenance free and widely used in commercial buildings and load center areas.

4 | Technical Specifications

Voltage class: 6kV, 10kV

Tapping range: ±2*2.5%, ±5%

Vector group: Dyn11, Yyn0

Capacitance range: 200~2500kVA

Insulation level: 6kV LI60 AC20, 10kV LI75 AC35

Insulation class: Class F or H

Voltage regulating mode: no excitation voltage regulation

5 | Technical Parameters

10kV/6kV Dry-type amorphous alloy core distribution transformer

Rated capacity (kVA)	Voltage combination			Vector group	No-load loss (W)	Load loss (W)		No-load current (%)	Short circuit impedance (%)
	High voltage (kV)	High voltage tapping range (%)	Low voltage (kV)			F(120℃)	H(145℃)		
200	6 6.3 6.6 10 10.5 11	±5 or ±2×2.5	0.4	Dyn11 or Yyn0	200	2530	2710	1.0	4.0
250					230	2760	2960	1.0	
315					280	3470	3730	0.9	
400					310	3990	4280	0.8	
500					360	4880	5230	0.8	
630					420	5880	6290	0.7	
630					410	5960	6400	0.7	6.0
800					480	6960	7460	0.7	
1000					550	8130	8760	0.6	
1250					650	9690	10370	0.6	
1600					760	11730	12580	0.6	
2000					1000	14450	15560	0.5	
2500					1200	17170	18450	0.5