



Integrity / Innovation / Punctuality

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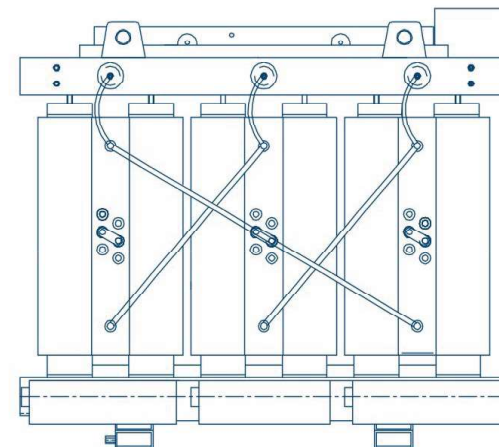
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CORPORATE CULTURE 企业文化

HUAMEI ELECTRIC
TECHNOLOGY

Corporate philosophy

Integrity, innovation, punctuality

Entrepreneurial spirit

Pioneering and enterprising,
contributing to society

Brand positioning

Fast, efficient, and ultimate

Enterprise positioning

Committed to the research, development, production and sales of professional power distribution products. With its perfect quality and high cost performance, it has rapidly risen in domestic and international markets!

corporate values

Integrity first, win-win cooperation

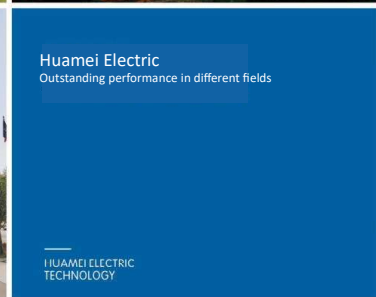
Brand features

Meticulous attention to detail in every step, showcasing impeccable quality both inside and out.

Brand trends

Building a century-old enterprise and setting an industry benchmark





ABOUT HUAMEI 关于华美

HUAMEI ELECTRIC TECHNOLOGY

河南省华美电气科技有限公司位于爱国者吉鸿昌将军故里河南省扶沟工业园，创立于2008年，是一家极聚活力和创新精神的现代化企业。311国道、郑合高铁、盐洛高速、大广高速、安罗高速相汇境内，位置优越，交通便利。

公司属于生产电力配电产品及设计、安装、承修、承试等一体的综合性企业，是国家电网和省、市电力公司中标单位。公司注册资金9600万元，占地面积50000平方米，建筑面积30000平方米，公司产品通过了中国质量认证中心ISO9001质量管理体系认证、国家变压器质量监督检验中心及省电力试验研究所的全面检测，各项性能指标均符合国家标准。

公司历经十多年的积累与营造，拥有自己完善的研发中心、产品试验检测中心、钣金加工中心、产成品生产制造中心、专业的施工队伍，并配备具有一流团队精神和业内最高技术能力的人力资源，实现核心部件由公司内部制造，从而确保由原材料到产成品的一条龙制造模式，做到了真正意义上的专业制造企业。

“诚信、创新”，华美坚持以诚信和谐的态度、待人处事，在不断的改进与创新之中发展企业。对待企业的日常经营，我们秉承快速、高效的原则，把复杂的事情简单化，把简单的事情做到极致。制定标准化、程序化、专业化的管理模式，并持续性的改进与完善。在产品质量和体系的改进与完善中，我们推崇以科学技术能力为核心竞争力，不断推陈出新，以最领先的技术，最完美的品质，站在行业的最尖端。

华美总是把“想在客户前面，做在客户前面”，作为自己服务的第一宗旨，建立全方位的顾客服务系统，征询客户反馈意见，并在第一时间消化处理客户反馈意见，直到客户满意。华美坚信质量的最终衡量尺度是“客户满意”。

华美愿以优质可靠的产品和真诚贴心的服务在我们与客户之间架起合作的桥梁，与我们的客户合作共赢，为我们的客户创造价值，保持双方共同的长期可持续性增长。

Henan Huamei Electric Technology Co., Ltd. is located in Fugou Industrial Park, Henan Province, the hometown of general Ji Hongchang, the patriot. Founded in 2008, it is a modern enterprise with great vitality and innovative spirit. 311 national highway, Zhenghe high speed railway, Yanluo high speed railway, Daguang high speed railway and Anluo high speed railway are located in a superior location and convenient transportation.

The company is a comprehensive enterprise that produces power distribution products and integrates design, installation, repair and test. It is the bid winner of State Grid and provincial and municipal power companies. The registered capital of the company is 96 million yuan, covering an area of 50000 square meters and a building area of 30000 square meters. The company's products have passed the ISO9001 quality management system certification of China Quality Certification Center, the National Transformer Quality Supervision and Inspection Center and the comprehensive inspection of provincial electric power test and research institute, and all performance indicators meet the national standards.

After more than ten years of accumulation and construction, the company has its own perfect R & D center, product test and detection center, sheet metal processing center, finished product manufacturing center, professional construction team, equipped with first-class team spirit and the highest technical ability of human resources in the industry, to realize the internal manufacturing of core components, so as to ensure the one-stop manufacturing from raw materials to finished products. Mode, to achieve a real sense of professional manufacturing enterprises.

"Honest Innovation", Huamei adheres to the honest and harmonious attitude, treats people to things, and develops enterprises through continuous improvement and innovation. For the daily operation of the enterprise, we adhere to the principle of fast and efficient, simplify the complex things and make the simple things the best. Formulate standardized, procedural and professional management mode, and make continuous improvement and improvement. In the improvement and improvement of product quality and system, we highly recommend the ability of science and technology as the core competitiveness, constantly push through the old and bring forth the new, and stand at the forefront of the industry with the most advanced technology and the most perfect quality.

Huamei always takes "want to be in front of customers, be in front of customers" as its first purpose of service, establishes a comprehensive customer service system, solicits customer feedback, and digests and processes customer feedback in the first time until customers are satisfied. Huamei firmly believes that the ultimate measure of quality is "customer satisfaction".

Huamei people are willing to build a bridge of cooperation between us and our customers with high-quality and reliable products and sincere and considerate services, win-win cooperation with our customers, create value for our customers, and maintain the long-term sustainable growth of both sides.



质量不仅仅是企业的生命，更是人身安全的重要保障！只有用户安全了，我们的工作才显得有价值，企业才能健康发展。华美全体员工始终坚持这一宗旨，整个生产过程受到ISO9001国际质量保证体系控制，做到每个产品从材质的选择、加工生产、调试、试验，都经过严格的检验，技术专家直接参与生产，让每一台“华美牌”产品在不同领域都有出色的表现！不断为广大客户和社会提供高质量、高性能的产品是华美人的终极目标！

Quality is not only the life of enterprises, but also an important guarantee of personal safety! Only when the users are safe can our work become valuable and the enterprise develop healthily. All staff of Huamei always adhere to this tenet. The whole production process is controlled by ISO9001 international quality assurance system. Every product is strictly inspected from material selection, processing, production, debugging and test. Technical experts directly participate in the production, so that every "Huamei" product can perform well in different fields! It is the ultimate goal of Huamei to provide high quality and high performance products for our customers and society.

QUALITY ASSURANCE

品质保证

HUAMEI ELECTRIC
TECHNOLOGY



PRODUCT CATALOGUE

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HUAMEI ELECTRIC TECHNOLOGY

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S11-M(6-10KV)

Oil-immersed power transformer

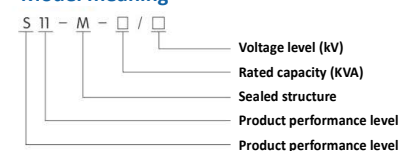


HUAMEI ELECTRIC TECHNOLOGY

Product overview

This product complies with national standards GB1094-1996 "Power Transformers" and GB/T6451-2008 "Technical Parameters and Requirements for Three-Phase Oil-Immersed Power Transformers". The S11 transformer is the latest series of low-loss copper winding products. It uses high-quality materials and employs new processes and materials in the coil body and insulation, resulting in significantly reduced no-load and load losses, and more reliable and superior performance and structure

Model meaning



Features

- Good economic performance
 - The S11 series products have reduced the no-load loss by an average of 30% compared to the S9 series, and the no-load current ratio is 70%-85% lower than that of the S9 series. Long service life
- The transformer oil tank adopts a fully sealed structure. The tank and its edge can be connected by bolts or welded together, preventing the transformer oil from contacting the air and extending its service life. High operational reliability.
- Improvements were made to the components related to the oil tank seal, increasing reliability and enhancing the manufacturing process to ensure the reliability of the seal.

Small footprint

○ The S11-M series transformer oil tank adopts a corrugated plate radiator. When the oil temperature changes, the corrugated plate expands and contracts with temperature changes, which can replace the function of the oil conservator. The corrugated plate oil tank has an attractive appearance and occupies a small area.

Technical parameters

Rated Capacity (kVA)	Voltage Combination			Join group label	No-load loss (W)	Load loss (W) 75°C	No-load current (%)	Short circuit impedance (%)
	High voltage HV (kV)	High voltage Tap range	High voltage LV (kV)					
30					100	630/600	0.80	
50					130	910/870	0.75	
63					150	1090/1040	0.75	
80					180	1310/1250	0.70	
100					200	1580/1500	0.65	
125	6				240	1890/1800	0.65	
160	6.3				280	2310/2200	0.60	4.0
200	10	± 5%		Dyn11	340	2730/2600	0.50	
250	10.5	± 2 × 2.5%	0.4	Yyno	400	3200/3050	0.50	
315	11				480	3830/3650	0.45	
400					570	4520/4300	0.45	
500					680	5410/5150	0.40	
630					810	6200	0.40	
800					980	7500	0.35	
1000					1150	10300	0.35	4.5
1250					1360	12000	0.30	
1600					1640	14500	0.30	

S13-M(6-10KV)

Fully sealed oil-immersed distribution transformer

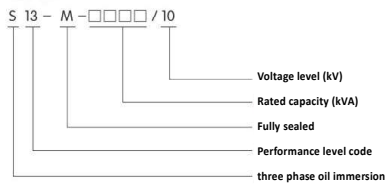


HUAMEI ELECTRIC
TECHNOLOGY

Product overview

This product complies with national standards GB1094-1996 "Power Transformers" and GB/T6451-2008 "Technical Parameters and Requirements for Three-Phase Oil-Immersed Power Transformers". The S11 transformer is the latest series of low-loss copper winding products. It uses high-quality materials and employs new processes and materials in the coil body and insulation, resulting in significantly reduced no-load and load losses, and more reliable and superior performance and structure

Model meaning



Features

- There is no oil tank; the tank cover is equipped with a three-in-one device for oil supply, oil level indication and pressure relief valve. During transformer encapsulation, a vacuum oil injection process is used to completely remove moisture from the transformer. After sealing, the transformer oil does not come into contact with air, effectively preventing oxygen and moisture from entering the transformer and causing performance degradation (material and oil aging). Therefore, it is not necessary to conduct periodic oil sample tests, and the transformer oil does not need to be replaced during its normal service life.

- The oil tank is a corrugated finned oil tank. The corrugated finned radiator not only has a cooling function but also a "breathing" function. The elasticity of the corrugated finned radiator can compensate for the change in oil volume caused by temperature changes.
- Protective device
 - Pressure relief valve – When the transformer is overloaded or malfunctions, causing the oil tank to reach abnormal pressure, the pressure relief valve will activate to reliably release the pressure. When the pressure decreases to the normal value, it will return to its original state, ensuring the operation of the transformer.

Technical parameters

Rated capacity (KVA)	Voltage combination kV		S13 type				Impedance Voltage(%)
	High voltage (kV)	Low voltage (kV)	No-load loss (W)	No-load loss (W)		No-load current(%)	
				Yes0	Dyn11		
30			80	600	630	1.7	
50			100	870	910	1.6	
63			110	1040	1090	1.5	
80			130	1250	1310	1.4	
100			150	1500	1580	1.3	
125			170	1800	1890	1.2	
160	6		200	2200	2310	1.1	4
200	6.3		240	2600	2730	1	
250	6.6		290	3050	3200	1	
315	10	0.4	340	3650	3830	0.9	
400	10.5		410	4300	4520	0.8	
500	11		480	5150	5410	0.8	
630			570	6200	6200	0.7	
800			700	7500	7500	0.6	
1000			830	10300	10300	0.5	4.5
1250			970	12000	12000	0.5	
1600			1170	14500	14500	0.5	

S13-M-RL

Three-dimensional wound core oil-immersed transformer

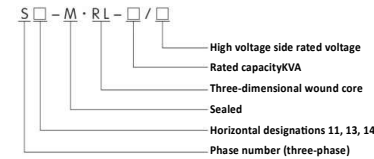


HUAMEI ELECTRIC
TECHNOLOGY

Product overview

The three-dimensional wound core transformer is an energy-saving power transformer. It creatively reforms the traditional laminated magnetic circuit structure and three-phase layout of power transformers, resulting in optimized product performance, such as completely symmetrical three-phase magnetic circuits, significant energy savings, greatly reduced noise, stronger heat dissipation and overload capacity, and a compact structure and small size.

Model meaning



Features

- Magnetic circuit balance
 - The three-phase magnetic circuits of the three-dimensional wound core are of equal and shortest length, thus the three-phase magnetic circuits are balanced.
- Good energy saving effect
 - The three-dimensional wound core is seamless and has no high-energy-consumption area. It fully utilizes the high magnetic permeability of the core material, and the magnetic flux direction is completely consistent with the grain orientation of the silicon steel sheet, which greatly reduces no-load loss and no-load current.
- low tone
 - The silicon steel strips of the single-frame iron core are tightly connected, and the three single-frame iron cores are spliced and solidified into an integral structure. The magnetic direction of the silicon steel strips is completely consistent with the magnetic circuit direction of the iron core. During operation, vibration is small, and the iron core has a closed structure with a continuous magnetic circuit without air gaps, which can reduce noise to a minimum.

- Strong short circuit resistance
 - The three-dimensional wound core transformer has a circular winding cross-section, resulting in uniform stress and strong resistance to compressive forces under short-circuit electrodynamic forces. The transformer clamps are welded into a single triangular frame structure, providing high stability and overall strength.
- Electric field and magnetic field strength are low.
 - The compact and symmetrical coil structure of the three-dimensional wound core can greatly reduce stray magnetic fields around the transformer.

Technical parameters

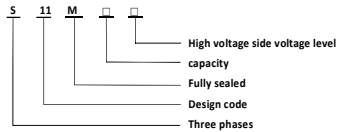
Rated capacity (KVA)	Voltage combination kV		S13 Type				Impedance Voltage(%)
	High voltage (kV)	Low voltage (kV)	No-load loss (W)	No-load loss (W)		No-load current(%)	
			Yes0	Dyn11			
30			80	600	630	0.3	
50			100	870	910	0.2	
63			110	1040	1090	0.23	
80			130	1250	1310	0.22	
100			150	1500	1580	0.21	
125	6		170	1800	1890	0.2	
160	6.3		200	2200	2310	0.19	
200	6.6	0.4	240	2600	2730	0.18	
250	10		290	3050	3200	0.17	
315	10.5		340	3650	3830	0.16	
400	11		410	4300	4520	0.16	
500			480	5150	5410	0.16	
630			570	6200	6200	0.15	
800			700	7500	7500	0.15	
1000			830	10300	10300	0.14	
1250			970	12000	12000	0.13	
1600			1170	14500	14500	0.12	



Product overview

The S11 series fully sealed oil-immersed transformer is suitable for AC 50Hz power systems with a rated operating voltage of 20kV and below, serving as a distribution transformer for enterprises in the petroleum, metallurgy, chemical, textile, and light industries, as well as in dusty environments.

Model and its meaning



Technical parameters

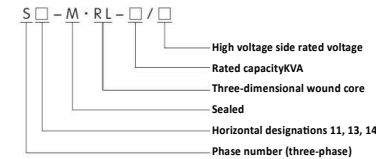
Rated capacity (KVA)	Association Group Label	Voltage combination (KV)			No-load current (%)	Load loss (W)	No-load loss (W)	Short circuit impedance (%)
		High voltage (KV)	High voltage tap range	Low voltage (KV)				
50	Dyn11	6	±2×2.5%	0.4	0.5	630/1000	100	4.0
50					2.0	910/870	130	
63					1.9	1090/1040	150	
80					1.8	1310/1250	180	
100					1.8	1580/1500	200	
125					1.7	1890/1800	240	
160					1.6	2310/2200	280	
200					1.5	2730/2600	340	
250					1.4	3200/3050	400	
315					1.4	3830/3650	480	
400	Yyn0	10.5	±2×2.5%	0.69	1.3	4520/4300	570	4.5
500					1.2	5410/5150	680	
630					1.1	6200	810	
800					1.0	7500	960	
1000					1.0	10200	1180	
1250					0.9	12000	1360	
1600					0.8	14500	1640	
2000					0.8	19300	1960	
2500					0.7	23000	2310	



Product overview

This product series features an advanced design, with significant improvements and enhancements in materials, structure, and manufacturing processes. The high and low voltage clamps utilize steel straps or upper and side beams for tension, forming a robust frame structure that enhances the core clamping force and resistance to transportation impacts. It boasts strong short-circuit withstand capability, an attractive appearance, reliable operation, low loss, and low noise, reaching the advanced level of similar international products.

Model meaning



Technical parameters

Rated capacity (KVA)	Association Group Label	Voltage combination (KV)			No-load current (%)	Load loss (W)	No-load loss (W)	Short circuit impedance (%)
		High voltage (KV)	High voltage tap range	Low voltage (KV)				
50	Dyn11	35	±5	0.4	1.30	1200/1140	130	6.5
100					1.10	2010/1910	185	
125					1.10	2370/2260	215	
160					1.00	2820/2680	225	
200					1.00	3320/3160	270	
250					0.95	3950/3760	320	
315					0.95	4750/4530	385	
400					0.85	5740/5470	465	
500					0.85	6910/6580	545	
630	Yyn0	38.5	±2×2.5%	0.4	0.65	7860	665	
800					0.65	9400	785	
1000					0.65	11500	920	
1250					0.60	13900	1120	
1600					0.60	16600	1350	
2000					0.55	19700	1590	
2500					0.55	23200	1890	

Note: 1. For transformers with a rated capacity of 500KVA and below, the load loss values above the slant line in the table are applicable to the Dyn11 connection group, and the load loss values below the slant line are applicable to the Yyn0 connection group.

2. Transformers with a high-voltage tap range of $\pm 2 \times 2.5\%$ can be provided according to user needs.

Implementation standards

- GB 1094.1-2 General Rules for Power Transformers,
- Temperature and Length of Oil-Immersed Transformers
- GB1094.3 Insulation Level, Insulation Test and Air Gap of External Insulation
- GB 1094.5 "Short-circuit withstand capability of power transformers"
- GB/T 6451 Technical Parameters and Requirements for Oil-Immersed Power Transformers
- GB/T15164 Load Guidelines for Oil-Immersed Power Transformers
- GB2536 Transformer Oil

S13-M(F)

High overload distribution transformer



HUAMEI ELECTRIC
TECHNOLOGY

Product overview

The three-dimensional wound core transformer is an energy-saving power transformer. It creatively reforms the traditional laminated magnetic circuit structure and three-phase layout of power transformers, resulting in optimized product performance, such as completely symmetrical three-phase magnetic circuits, significant energy savings, greatly reduced noise, stronger heat dissipation and overload capacity, and a compact structure and small size.

The transformer lacks an oil conservator, reducing its overall height. During encapsulation, a vacuum oil injection process is used to completely remove moisture from the transformer, preventing the transformer oil from contacting air. This effectively prevents oxygen and moisture from entering the transformer, which could lead to decreased insulation performance and oil aging, thus eliminating the need for regular oil sample testing.

Technical parameters

Rated capacity (KVA)	Voltage combination kV		S13 Type				Impedance Voltage(%)
	High voltage (kV)	Low voltage (kV)	No-load loss (W)	No-load loss (W)		No-load current(%)	
				Yyn0	Dyn11		
30			80	600	630	1.7	4
50			100	870	910	1.6	
63			110	1040	1090	1.5	
80			130	1250	1310	1.4	
100			150	1500	1580	1.3	
125			170	1800	1890	1.2	
160	6		200	2200	2310	1.1	
200	6.3		240	2600	2730	1	
250	6.6		290	3050	3200	1	
315	10	0.4	340	3650	3830	0.9	
400	10.5		410	4300	4520	0.8	4.5
500	11		480	5150	5410	0.8	
630			570	6200	6200	0.7	
800			700	7500	7500	0.6	
1000			830	10300	10300	0.5	
1250			970	12000	12000	0.5	
1600			1170	14500	14500	0.5	

Features

Core: The core is made entirely of high-permeability, high-quality grain-oriented cold-rolled silicon steel sheets. It is a core-type core with fully oblique joints and a multi-stage stepped core column. The yoke and core column have equal cross-sections. This results in low air loss and low noise.

Winding: The winding adopts corrugated oil channels to increase the number of oil channels, impregnation process, and tight tape binding. The winding adopts F-class insulation to withstand high temperature. The high voltage winding has taps corresponding to the tap voltage requirements, which are led to the tap changer. The switch is installed on the box cover, and the tap voltage can only be changed after the power supply is disconnected.

Safety protection devices: 30-2000KVA transformers are equipped with pressure relief valves; gas relays with alarm and trip terminals can be installed according to user needs.

Oil temperature measuring device: All transformers are equipped with glass thermometer sockets, which are located on the top of the oil tank and extend into the oil.

120±1000~2000KVA transformers are equipped with outdoor signal thermometers;

Transformer oil tank: The transformer oil tank is constructed with corrugated walls, and the surface is powder-coated for a durable paint film. The corrugated heat sink not only dissipates heat but also "breathes," its elasticity compensating for changes in transformer oil volume caused by temperature fluctuations. Therefore, the fully sealed transformer...

SZ11-35kV

Low-loss on-load tap-changing transformer



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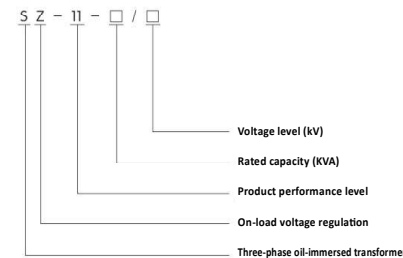
Product overview

This product conforms to national standards GB1094 "Power Transformers" and GB/T6451 "Technical Parameters and Requirements for Three-Phase Oil-Immersed Power Transformers". The on-load tap changer range is 30±4×2.5%kV; 35±3×2.5%kV. Voltage can be manually, electrically, or automatically adjusted within this range on the primary side using an on-load tap changer to ensure output voltage stability. Therefore, it is widely used in research institutions, buildings, hotels, and enterprises with high voltage quality requirements. This product is a next-generation replacement and offers good operational economic benefits.

Technical parameters

Rated capacity (KVA)	Voltage Combination			Join Group Label	No-load loss (IN)	load loss (W)75°C	No-load current (%)	short circuit impedance
	High voltage HV (kV)	High voltage tap range	Low voltage LV (kV)					
2000	35	± 3 × 2.5%	6.3 10.5		2300	19240	0.80	6.5
2500					2720	20640	0.80	
3150	35 38.5	± 3 × 2.5%	6.3 10.5	Yd11	3230	24710	0.72	7.0
4000					3870	29160	0.72	
5000					4640	34200	0.68	
6300					5630	46770	0.68	
8000					7870	40610	0.60	
10000	35 38.5	± 3 × 2.5%	6.3 6.6 10.5 11	Ynd11	9280	48050	0.60	7.5
12500					10940	56860	0.56	
16000					13170	70320	0.54	
20000					15570	82780	0.54	

Model meaning




 HUAMEI ELECTRIC
 TECHNOLOGY

Product overview

The 10kV SZ13 three-phase oil-immersed on-load automatic voltage regulating distribution transformer is a new generation of intelligent distribution transformer independently developed by our company. Widely used both indoors and outdoors, it can transform the grid voltage into the voltage required by the system or users, realizing voltage level transformation, power transmission, and distribution. Simultaneously, it features on-load automatic voltage regulation and communication functions, enabling connection to the distribution network control system for background monitoring, remote control adjustment of voltage levels, and setting of setpoints.

The power distribution network experiences significant peak-to-valley load differences, resulting in higher voltage during off-peak hours and lower voltage during peak hours. Rural household voltage can reach over 250V at times and drop below 170V at others. Both excessively high and low voltages affect the safe operation of distribution transformers and electrical cabinets, and also cause a substantial increase in energy loss. Solving the problem of unstable voltage in distribution transformer areas and implementing automatic voltage regulation ensures that the power supply voltage in the distribution transformer area does not fluctuate significantly with load changes, guaranteeing stable power supply voltage.

Features

- Temperature: -25° to $+45^{\circ}$, with an average temperature not exceeding $+35^{\circ}$ over 24 hours.
- Humidity: Monthly average maximum relative humidity (20°): $\leq 90\%$, daily average maximum relative humidity: $\leq 90\%$.
- High relative humidity (20°): 95%.
Altitude: not exceeding 2000m.
- Wind speed: 35 m/s (the average maximum wind speed at a height of 10 m above the ground for 10 minutes).
- Rated voltage 10kV, maximum voltage 12kV.
- Rated current: 50A.

- Supports on-load tap changer high voltage tap phase: $\pm 2 \times 25\%$.
Contact resistance: $< 1\text{m}^2$ at 25° .
Electrical life is not less than 50,000 cycles.
Mechanical life is not less than 100,000 cycles.

Technical parameters

Rated capacity (KVA)	Voltage combination and tap range			link group	No-load loss (W)	Load loss (W)	No-load current (%)	Short circuit impedance (%)
	High voltage (kV)	Tap range	Low voltage (kV)					
30	6 6.3 10 10.5 11	$\pm 5\%$ $\pm 2 \times 2.5\%$	0.4	Dyn11 Yzn11 Yyn0	0.085	0.67	2.1	4
50					0.11	0.97	1.8	
63					0.12	1.15	1.7	
80					0.14	1.4	1.7	
100					0.16	1.7	1.6	
125					0.19	2	1.5	
160					0.22	2.45	1.4	
220					0.27	2.9	1.4	
250					0.31	3.42	1.2	
315					0.38	4.1	1.2	
400					0.45	4.959	1	
500					0.53	5.89	1	
630				Dyn11或Yyn0	0.68	7.26	0.8	4.5

Remark:

- For transformers with a rated capacity of 500kVA or less, the load loss values above the slant line apply to the Dyn11 or Yzn11 connection group, and for 630kVA transformers, the Yyn0 connection group applies.
- We can provide transformers with a low voltage of 0.69kV according to user requirements.


 HUAMEI ELECTRIC
 TECHNOLOGY

Product overview

Transformers convert grid voltage into the voltage required by the system or load, realizing the transmission and distribution of electrical energy. Amorphous alloy transformers, as a new energy-saving technology in distribution cabinets, owe their energy-saving efficiency primarily to the use of a novel iron-based amorphous alloy material with excellent soft magnetic properties. The products comply with national standards GB1094 "Power Transformers" and GB/T25446-2010 "Technical Parameters and Requirements for Oil-Immersed Amorphous Alloy Core Distribution Transformers".

Features

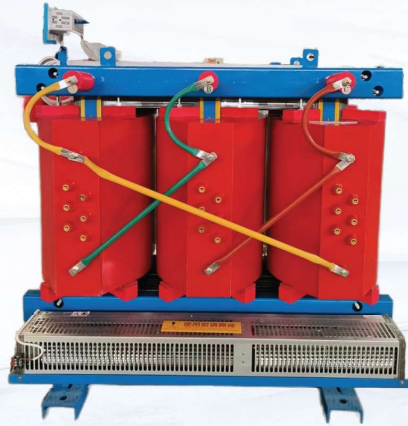
- Amorphous alloys are a new type of strip material. Amorphous alloy materials do not have a crystal structure, have low magnetization power and high resistivity, so they have low eddy current losses.
- Using this material for the core can produce a new type of energy-saving transformer, reducing no-load loss by more than 75% compared to the current S11 type distribution transformer. The core is a wound core structure, three-phase five-limb type, with a rectangular cross-section.
- The coil is rectangular, with high voltage winding using acetal enameled wire and low voltage winding using flat wire or copper foil, increasing the transformer's ability to withstand short circuits.
- The transformer connection group adopts Dyn11, which avoids the influence of high-order harmonics, has strong ability to withstand unbalanced loads, and significantly improves power supply quality.
- The transformer uses vacuum oil filling, which can completely eliminate air bubbles in the coils and ensure stable insulation performance.
- The oil conservator has been eliminated, and corrugated or plate radiators have replaced oil pipes as cooling components. The oil tank is equipped with an air cushion that can be compressed as the transformer oil expands in volume. The transformer oil is isolated from the atmosphere, preventing and slowing down the deterioration of oil quality and moisture absorption of insulation, enhancing operational reliability, and requiring no maintenance during normal

Technical parameters

Rated capacity KVA	Voltage combination and tap range			Association group label	No-load loss W	Load loss W	No-load current%	Known path impedance%
	High voltage kV	High voltage tap range %	Low voltage kV					
30	6 6.3 10 10.5 11	$\pm 2 \times 2.5$ ± 5	0.4	Dyn11	33	630/600	1.50	4.0
50					43	910/870	1.20	
63					50	1090/1040	1.10	
80					60	1310/1250	1.00	
100					75	1580/1500	0.90	
125					85	1890/1800	0.80	
160					100	2310/2200	0.60	
200					120	2730/2600	0.60	
250					140	3200/3050	0.60	
315					170	3830/3650	0.50	
400					200	4520/4300	0.50	
500					240	5410/5150	0.50	
630					320	6200	0.30	
800					380	7500	0.30	
1000					450	10300	0.30	
1250					530	12000	0.20	
1600					630	14500	0.20	5
2000					750	18300	0.20	
2500					900	21200	0.20	

SCB18

Dry type transformer Dry transformer



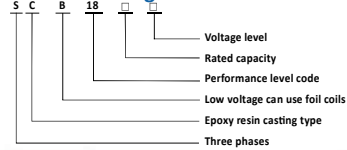
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Product overview

Our company's SCB18 silicon steel sheet dry-type transformer, developed using mature technology, boasts superior performance, safety, reliability, and environmental friendliness. It can be installed deep within load centers, meeting the needs of modern large cities with high-density loads. This product significantly reduces no-load and load losses, making it one of the most advanced dry-type transformers in the world today.

This product has the advantages of flame retardancy, self-exhaustion, moisture resistance, crack resistance and maintenance-free operation. It can be widely used in high-rise buildings, commercial centers, subways, airports, stations, industrial and mining enterprises and power plants. It is especially suitable for installation and use in places with high fire protection requirements such as flammable and explosive environments.

Model meaning



Features

- This core is made of amorphous alloy strip and has a rectangular cross-section. It has a three-phase five-column structure or a three-phase three-column structure. The no-load loss is reduced by three-quarters compared with ordinary dry-type transformers, resulting in significant energy-saving effect.
- The low-voltage coil is made of copper foil, while the high-voltage coil is made of epoxy resin by vacuum casting or Nomex insulation material. It adopts a continuous

structure and is repeatedly impregnated with H-class solvent-free insulation by VPI vacuum pressurization equipment and cured by high-temperature baking. It has high mechanical strength, good heat dissipation, and strong short-circuit withstand capability.

- Flame-retardant, explosion-proof, non-polluting, and with a high fire resistance rating. Low noise, small size, easy installation, and maintenance-free.
- Low partial discharge, high insulation level, and long product life. It has excellent "three-proof" capabilities and no cracking.
- This product can be decomposed and recycled after its lifespan, and will never pollute the environment.
- Strong overload capacity, can operate safely for a long time under 120% load.

Technical parameters

Rated capacity (kVA)	Association group label	Voltage combination (kV)			Low voltage (kV)	Load loss (W) under different insulation heat resistance grades			No-load loss (W)	Short circuit impedance (%)
		High voltage (kV)	High voltage tap range (%)	Low voltage (kV)		B (100°C)	F (120°C)	H (145°C)		
30					1.6	670	710	760	70	
50					1.4	940	1000	1070	90	
80					1.3	1290	1380	1480	120	
100					1.2	1480	1570	1690	130	
125					1.1	1740	1850	1980	150	
160					1.1	2000	2130	2280	170	
200					1.0	2370	2530	2710	200	
250					1.0	2590	2760	2960	230	
315					0.9	3270	3470	3730	260	
400					0.8	3750	3990	4280	310	
500					0.8	4500	4880	5230	360	
630					0.7	5430	5880	6360	430	



SCB14

dry type transformer

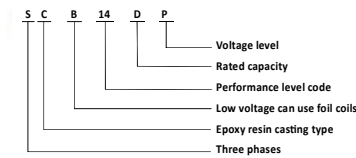


HUAMEI ELECTRIC
TECHNOLOGY

Product overview

The SCB14 dry-type transformer can be used as an upgrade to the epoxy resin cast type. It is one of the best performing dry-type transformers and is particularly suitable for important locations such as urban power grids, high-rise buildings, business centers, theaters, hospitals, hotels, tunnels, subways, stations, docks, airports, underground power stations, laboratories, and combined substations.

Model meaning



Features

- Low loss: The no-load loss of the product is reduced by more than 30% compared with the SCB10 product, and the load loss is reduced by more than 10% compared with the SCB11 product. It has excellent energy-saving effect, economical operation, and requires no maintenance.
- Low noise: The product's noise level is 10-15 decibels lower than the current professional standard JB/T10088-2016 (6-220kV transformer sound level).
- Low Partial Discharge: The resin mixture utilizes advanced foreign mixing methods and vacuum thin-film degassing technology, ensuring uniform mixing and completely eliminating air bubbles. The product exhibits extremely low partial discharge, controllable below 5 PC. Both high-voltage and low-voltage coils are cast under vacuum and pressure, giving the resin insulation both full encapsulation and inter-turn impregnation. The cast body possesses a dense, cured structure, is flame-retardant, explosion-proof, and environmentally friendly. The insulating materials such as glass fiber used in the winding coil have self-piercing properties, preventing arcing due to short circuits, and the resin does not produce toxic or harmful gases under high heat.

- High mechanical strength: The resin with filler makes the difference in the coefficient of expansion of the casting body small, the curing shrinkage rate small, the internal stress small, and the hardness of the cured product high. Pre-formed reinforcing materials are placed in the epoxy resin encapsulation layer on the inner and outer surfaces of the high and low voltage coils, which has a dense structure like reinforced concrete. Therefore, the mechanical strength is even greater than that of pure epoxy resin, and it can withstand the sudden short-circuit electrodynamic force without damage.

Technical parameters

Rated Capacity (kVA)	Association group label	Voltage combination (kV)			No-load current (%)	Load loss (W)	No-load loss (W)	Short circuit impedance (%)
		High voltage (kV)	High voltage tap range (%)	Low voltage (kV)				
30					2.00	640	135	
50					2.00	900	195	
80					1.50	1240	265	
100					1.50	1410	290	
125					1.30	1660	340	
160					1.30	1910	385	
200					1.10	2270	445	
250					1.10	2480	515	
315					1.00	3120	635	
400					1.00	3590	705	
500					1.00	4390	835	
630					0.85	5290	965	
800					0.85	6360	1090	
1000					0.85	7310	1270	
1250					0.85	8720	1500	
1600					0.85	10500	1760	
2000					0.70	13000	2190	
2500					0.70	15400	2590	



SC(B)11-10kV

Epoxy resin cast dry-type transformer



HUAMEI ELECTRIC
TECHNOLOGY

Product overview

The 10KV SC(B)11 epoxy resin cast dry-type transformer can be used as a replacement for oil-immersed distribution transformers. It is a high-performance product among various dry-type transformers and is particularly suitable for important locations such as urban power grids, high-rise buildings, business centers, theaters, hospitals, hotels, tunnels, subways, underground power stations, laboratories, stations, docks, airports, and combined substations.

Features

- The low-voltage coil is wound with foil, and the foil winding is cured into an integral structure through end sealing; the high-voltage coil is cast with epoxy resin under vacuum, and after curing, it forms a strong elongated cylindrical integral with high mechanical strength, low partial discharge, and high reliability; it also has high resistance to short circuits and lightning strikes.
- The inner and outer resin layers of the coil are thin, resulting in good heat dissipation. Cooling is generally achieved through natural air cooling (AN). For transformers of any protection level, an air-cooled system (AF) can be configured to improve short-term overload capacity and ensure safe operation.
- It has low power loss, good energy saving effect, economical operation, and requires no maintenance.
- It is small in size, light in weight, occupies little space, has low installation costs, and does not require consideration of oil drain tanks, fire prevention and fire extinguishing facilities, or backup power supplies.
- Housing protection device
 - The enclosure is made of stainless steel or aluminum alloy. Protection ratings reach IP20 and IP23. The IP20 enclosure prevents the ingress of solid foreign objects larger than 12.5mm in diameter, providing further safety protection for the transformer. The IP23 enclosure further prevents water droplets from flowing in at an angle of up to 60° to the vertical, making it suitable for outdoor operation.

Technical parameters

The Temperature control system consists of a temperature controller and a PTC temperature sensing element installed at the hottest point of the product, i.e., the upper end of the low-voltage winding. It measures and controls the transformer's temperature. If the transformer winding temperature becomes too high due to overload or a fault, the temperature controller will issue an alarm signal, and the circuit breaker will automatically trip when the temperature exceeds a safe value. When forced air cooling is used, the temperature controller determines whether the cooling fan is activated or switched based on the winding temperature. The temperature display system directly displays the hot spot temperature of the winding during transformer operation and can be used in conjunction with the temperature control system.

Technical parameters

Rated capacityKVA	No load Loss(W)	Load loss W	No load Current(%)	Short Circuit impedance(%)
		Grade F (120°)		
30	165	710	1.7	4
50	235	1000	1.7	
80	320	1380	1.3	
100	350	1570	1.3	
125	410	1850	1.1	
160	475	2130	1.1	
200	545	2530	0.9	
250	630	2760	0.9	
315	770	3470	0.9	
400	850	3990	0.9	
500	1015	4880	0.9	4.5
630	1200	5880	0.7	
630	1130	5960	0.7	
800	1330	6960	0.7	
1000	1540	8130	0.7	
1250	1825	9690	0.7	
1600	2140	11700	0.7	
2000	2700	14400	0.6	
2500	3200	17100	0.6	

SC(B)10-10kV

Epoxy resin cast dry-type



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TECHNOLOGY

Product overview

SC(B)10 epoxy resin cast dry-type transformers are manufactured in accordance with the standard "Dry-Type Power Transformers". This product features low performance loss, good energy-saving effect, economical operation, and is maintenance-free. In addition to its advanced technological structure, high resistance to short circuits and lightning impulses, it also has the characteristics of flame retardancy, moisture resistance, dust resistance, and low noise, and can be installed deep in the load center. It is widely applicable to high-rise buildings, airports, stations, docks, power plants, substations, etc. It is particularly suitable for installation and use in places with high fire protection requirements such as flammable and explosive environments.

Features

- The high-voltage windings are made of enameled copper wires, and the low-voltage windings are made of copper foils. The high-voltage windings are filled with glass fiber felt and cast with imported epoxy resin without fillers under vacuum. After curing, they form a solid whole with high mechanical strength, few partial discharges, and high reliability.
- Flame-retardant, explosion-proof, non-polluting to the environment, environmentally friendly, and can be installed in the load center.
- The coils do not absorb moisture. The iron core and clamps, after special process treatment, can operate in 100% relative humidity and other harsh environments. No moisture removal treatment is required for intermittent operation.
- High short-circuit resistance, high lightning impulse level, and strong overload capacity.
- The resin insulation layers on the inner and outer sides of the coils are thin, resulting in good heat dissipation performance. The cooling method generally adopts natural air cooling (AN). For transformers of any protection class, an air-cooled system (AF) can be configured.
- Low loss, high power-saving effect, economical operation, and maintenance-free.
- Small size, light weight, small floor space, and easy installation.

Technical parameters

Rated Capacity kVA	No-load Loss W	No-load (120°C) W	Short Circuit Impedance (%)	No-load Current (%)	Sound (LPA) dB	Weight kg
30	360	1050	6.5	3.0	62	615
50	445	1300		2.5	53	615
80	510	1740		2.0	55	810
100	650	1990		1.8	56	890
125	750	2430		1.8	58	950
160	850	2785		1.8	58	1000
200	950	3040		1.8	59	1260
250	1070	3485		1.8	59	1420
315	1290	3840		1.6	61	1730
400	1520	4960		1.6	62	1840
500	1750	6080		1.4	63	2200
630	2050	7080		1.4	63	2630
800	2400	8400		1.2	66	3260
1000	2690	9660		1.0	66	3990
1250	3140	11695		0.8	67	4470
1600	3590	14210		0.8	68	5570
2000	4220	16730		0.7	69	6410
2500	4940	20035		0.7	73	6930

SC(B)12-10kV

dry type transformer



HUAMEI ELECTRIC
TECHNOLOGY

Product overview

SC(B)12 resin-insulated dry-type transformer. The iron core is made of high-permeability, high-quality grain-oriented cold-rolled silicon steel sheets, with 45° fully inclined step joints. The iron core adopts a special square tube pull plate structure, and the core column is bound with insulating tape. The surface of the iron core is coated with special resin to prevent moisture and rust, which effectively reduces no-load loss, no-load current and iron core noise. At the same time, the scientific and reasonable design and casting process make the dry-type transformer have smaller partial discharge, low noise and strong heat dissipation capacity, and can operate for a long time under rated load under forced air cooling conditions.

Features

- The iron core is made of high-quality cold-rolled silicon steel sheets 30P105 and 120, with a 45-degree stepped fully mitred joint structure. The three-shear and two-punch core corner-cutting transverse shearing process and the five-step progressive shearing and stacking process are used to improve the magnetic flux distribution at the joints and reduce the vibration energy of the iron core. The iron core undergoes integral curing and surface sealing with insulating resin, which effectively reduces no-load loss, no-load current, and iron core noise.
- The high-voltage coil is wound with high-quality Class F insulated wires, and coils with larger capacity are provided with axial cooling air channels. This structure has good resistance to current impact, temperature changes, cracking, and excellent heat dissipation performance. It adopts a multi-stage segmented cylindrical structure, which has strong overvoltage withstand capability and a very low partial discharge level. The coil is cast after vacuum drying, and the entire casting and curing process is completed in accordance with a pre-programmed process curve. Precise process control ensures that the coil is free of air bubbles and voids.
- The low-voltage coil adopts a foil structure, which effectively solves the ampere-turn imbalance problem of low-voltage,

- high-current coils using wire-wound types. At the same time, The foil coil has no axial turns or axial winding helix angle, which effectively eliminates the axial force of the transformer during short circuits, ensuring that the current density in the coil can be freely adjusted axially according to the load distribution of the high-voltage coil, reducing the radial force during low-voltage sudden short circuits. The ends of the wound coil are sealed and cured with resin to prevent various foreign objects and moisture from entering.

Technical parameters

Rated capacity/kVA	No load Loss(W)	Load loss W	No load Current(%)	Short Circuit impedance(%)
		Grade F (120°)		
30	165	710	1.7	4
50	235	1000	1.7	
80	320	1380	1.3	
100	350	1570	1.3	
125	410	1850	1.1	
160	475	2130	1.1	
200	545	2530	0.9	
250	630	2760	0.9	
315	770	3470	0.9	
400	850	3990	0.9	
500	1015	4880	0.9	4.5
630	1200	5880	0.7	
630	1130	5960	0.7	
800	1330	6960	0.7	
1000	1540	8130	0.7	
1250	1825	9690	0.7	
1600	2140	11700	0.7	
2000	2700	14400	0.6	
2500	3200	17100	0.6	

SC(B)13-10kV

Epoxy resin cast dry-type transformer



HUAMEI ELECTRIC
TECHNOLOGY

Product overview

SC (B) 13 dry-type power transformers are widely used in some places such as lighting, high-rise buildings, airports, docks, CNC machinery and equipment, etc. Simply put, dry-type transformers refer to transformers where the iron core and windings are not immersed in insulating oil. The cooling methods are divided into natural air cooling (AN) and forced air cooling (AF). When naturally air-cooled, the transformer can operate continuously for a long time under rated capacity. When forced air-cooled, the output capacity of the transformer can be increased by 50%. It is suitable for intermittent overload operation or emergency accident overload operation; because the load loss and impedance voltage increase significantly during overload, it is in a non-economic operation state, so it should not be allowed to operate under long-term continuous overload.

Features

- Low loss: The no-load loss of the product is reduced by more than 20% compared with SC (B) 11 products, with excellent energy-saving effect, economical operation and maintenance-free.
- Low noise: The noise level of the product is 10-15 decibels lower than the current professional standard JB/T10088-1999 "Sound Level of 6-220KV Transformers".
- Low partial discharge: The resin mixture material adopts two advanced foreign technologies: the most advanced stirring method and vacuum thin-film degassing, which makes the mixture stir evenly and removes bubbles in the mixture. The product has extremely low partial discharge, which can be controlled below 5PC.
- Both high-voltage and low-voltage coils are cast under vacuum and pressure, so that the resin insulation has both full encapsulation and interlayer and interturn impregnation. The casting has a dense cured structure, which is flame-retardant, explosion-proof and does not pollute the environment. The insulating materials such as glass fiber used for winding coils have self-extinguishing properties, and no electric arc will be generated due to short circuit, and no toxic or harmful gases will be generated from the resin under high heat.
- High mechanical strength: The resin with filler makes the difference in expansion coefficient in the casting small, the

- curing shrinkage rate small, and the internal stress small, and The cured product has high hardness. In the epoxy resin encapsulation layers on the inner and outer surfaces of the high-voltage and low-voltage coils, pre-formed reinforcing materials are placed, which have a dense structure like reinforced concrete. Therefore, the mechanical strength is greater than that of pure epoxy resin, and it can withstand the sudden short-circuit electrodynamic force without damage.

Technical parameters

Rated capacity/kVA	No load Loss(W)	Load loss W	No load Current(%)	Short Circuit impedance(%)
		Grade F (120°)		
30	135	640	1.7	4
50	195	900	1.7	
80	265	1240	1.3	
100	290	1415	1.3	
125	340	1665	1.1	
160	385	1915	1.1	
200	445	2275	0.9	
250	515	2485	0.9	
315	635	3125	0.9	
400	705	3591	0.9	
500	835	4390	0.9	6
630	965	5290	0.7	
630	935	5365	0.7	
800	1095	6265	0.7	
1000	1275	7315	0.7	
1250	1505	8720	0.7	
1600	1765	10555	0.7	
2000	2195	13005	0.6	

SG(B)13-10kV

Non-encapsulated dry-type transformer

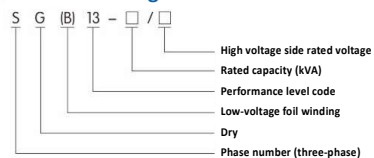


HUAMEI ELECTRIC
TECHNOLOGY

Product overview

SG(B)13 Unencapsulated Dry-Type Transformer. The windings of this new product are manufactured using a vacuum pressure impregnation (VPI) process and are of an unencapsulated structure (OVDT). The insulation heat resistance class is typically H (insulation system temperature 180%, reference temperature 145%, winding temperature rise 125K).

Model meaning



Features

- Features
- Good safety performance
The insulating material contains only a very small amount of flammable material, is non-toxic, and self-extinguishing. The product is fire-retardant, flame-retardant, non-toxic, self-extinguishing, and fireproof. Under high-temperature open flame combustion, the transformer produces almost no smoke. It is suitable for use in key areas with high fire protection requirements and heavy loads, such as high-rise buildings, airports, subways, metallurgical and petrochemical industries, and shopping malls.
- High reliability
○ The meticulously designed coil structure and vacuum pressure impregnation process, including vacuum pressure impregnation and curing of the windings, and the coil clamping using a pressure block structure, result in extremely low partial discharge, with no cracking or insulation degradation.

- Energy saving and environmental protection
○ Product performance loss is low, energy saving effect is obvious.
- After the end of life, the product can be decomposed and recycled.
- Poor quality
○ After repeated vacuum immersion, high-temperature curing, the insulation strength is greatly improved, the partial discharge capacity is reduced, and the open structure of the product itself is excellent for heat dissipation.

Technical parameters

Rated capacity (KVA)	Voltage combination and tap range			Link Group	No-load loss Consumption(W)	Load loss (W)		No-load current(%)	Short circuit impedance(%)
	High voltage (KV)	Tap range	Low voltage (KV)			145°C	155°C		
30					190	760	2.0		
50					270	1070	2.0		
80					370	1480	1.5		
100					400	1690	1.5		
125					470	1980	1.3		
160					540	2280	1.3		
200					620	2710	1.1		
250					720	2960	1.1		
315	6				880	3730	1.0		
400	6.3				980	4280	1.0		
500	6.6				1160	5230	1.0		
630	10	± 5%	0.4	Dyn11	1340	6290	0.85		
630	10	± 2 × 2.5%		Yyn0	1300	6400	0.85		
800	10.5				1520	7460	0.85		
1000	11				1770	8760	0.85		
1250					2090	10300	0.85		
1600					2450	12500	0.85		
2000					3050	15500	0.70		
2500					3600	18400	0.70		
1600					2450	13900	0.85		
2000					3050	17100	0.70		
2500					3600	20200	0.70		

SC(B)H15-M

Amorphous alloy dry-type transformer



HUAMEI ELECTRIC
TECHNOLOGY

Product overview

The SC(B)H15 amorphous alloy dry-type transformer is a new type of high-efficiency and energy-saving transformer. This product combines the low loss of amorphous alloy materials with the advantages of traditional epoxy resin cast transformers in terms of high insulation and mechanical strength. Its core is made of amorphous alloy strip. Compared with the traditional SCB10 silicon steel dry-type transformer, no-load loss is reduced by 75-80%, and no-load current is reduced by 80%. The SC(B)H15 product conforms to the national standards GB1094 "Power Transformers" and GB/T22072-2008 "Technical Parameters and Requirements for Dry-type Amorphous Alloy Core Distribution Transformers".

Features

- The core is made of amorphous alloy strip wound together. Depending on the requirements, a three-phase five-column or three-phase three-column wound core structure can be adopted, and the core cross-section is rectangular.
- The high-voltage coil adopts a segmented cylindrical coil with thin insulation and vacuum casting. The large-capacity winding has an axial air channel inside. The coil has a high withstand voltage level, low partial discharge, and good dustproof and cooling effects.
- The low-voltage coil adopts a foil coil with DMD prepreg fabric thermosetting between layers, which effectively solves the ampere-turn imbalance problem when low-voltage, high-current coils are wire-wound. At the same time, the foil coil does not have an axial winding helix angle, which greatly reduces the axial force on the transformer during a short circuit. It has good manufacturability, low additional loss, and strong short-circuit resistance.
- Depending on user needs, the enclosure can be made of ordinary steel plate, aluminum alloy or stainless steel, and the protection level can be selected from IP20, IP23 etc. High and low voltage busbar inlet and outlet interfaces can be configured according to user needs.

Technical parameters

Rated capacity KVA	Voltage combination and tap range			association group label	No-load loss W	Load loss W			No-load current%	Known path impedance%
	High voltage kV	High voltage tap range %	Low voltage kV			100°C (B)	120°C (F)	145°C (H)		
30					70	670	710	760	1.6	
50					90	940	1000	1070	1.4	
80					120	1290	1380	1480	1.3	
100					130	1480	1570	1690	1.2	
125					150	1740	1850	1980	1.1	
160					170	2000	2130	2280	1.1	
200					200	2370	2530	2710	1.0	
250					230	2590	2760	2960	1.0	
315					280	3270	3470	3730	0.9	
400	6				310	3750	3990	4280	0.8	
500	6.3	± 5%	0.4	Dyn11	360	4590	4880	5230	0.8	
630	10	± 2 × 2.5			420	5530	5880	6290	0.7	
630	10.5				410	5610	5960	6400	0.7	
800	11				480	6550	6960	7460	0.7	
1000					550	7650	8130	8760	0.6	
1250					650	9100	9690	10370	0.6	
1600					760	11050	11730	12580	0.6	
2000					1000	13600	14450	15560	0.5	
2500					1200	16150	17170	18450	0.5	
1600					760	12280	12960	13900	0.6	
2000					1000	15020	15960	17110	0.5	
2500					1200	17760	18890	20290	0.5	


 HUAMEI ELECTRIC
 TECHNOLOGY

Product overview

The YB-12 outdoor prefabricated substation (European style) is a compact set of power distribution equipment that combines high-voltage electrical cabinets, transformers, and low-voltage electrical cabinets. It is used in urban high-rise buildings, urban and rural buildings, residential communities, high-tech development zones, small and medium-sized factories, mines and oil fields, and temporary construction power supply sites to receive and distribute electrical energy in the power distribution system.

The YB-12 outdoor prefabricated substation (European style) features strong integration, small size, compact structure, safe and reliable operation, convenient maintenance, and portability. Compared with conventional civil engineering substations, the footprint of a prefabricated substation of the same capacity is typically only 1/10 to 1/15 of that of a conventional substation, significantly reducing design and construction workload and costs. In power distribution systems, it can be used in ring network distribution systems, as well as dual-power or radial terminal distribution systems, making it a new type of complete set of cabinets for the construction and renovation of urban and rural substations.

The YB-12 outdoor prefabricated substation (European style) conforms to the national standard GB/T17467-1998 "High Voltage/Low Voltage Prefabricated Substation".

Usage environment

- The ambient air temperature is -10°C to 40°C.
- Solar radiation ≤1000W/m².
- Altitude ≤1000m.
- Ice cover ≤20mm.
- Wind speed ≤35m/s.
- Temperature and humidity

- The daily average relative humidity is ≤95%.
- Monthly average relative humidity ≤90%.
- Daily average relative water vapor pressure ≤2.2 kPa.
- The monthly average relative water vapor pressure is ≤1.8 kPa.

- Earthquake ≤8 degrees.

- Locations free from fire, explosion hazards, severe pollution, chemical corrosion, and violent vibrations.

Note: Special usage conditions should be discussed and resolved with the manufacturer when ordering.

Technical parameters

Name	Unit	High Voltage Electrical Cabinet	Transformer	Low Voltage Electrical Cabinet
Rated voltage	kV	10	10/0.4	0.4
Rated current	A	630		100~2500
Rated frequency	Hz	50	50	50
Rated capacity	kVA		100~1250	
Rated thermal stable current	kA	20/4S		30/1S
Rated dynamic stability current (peak value)	kA	50		63
Rated closing short-circuit current (peak value)	kA	50		15~30
Rated breaking short-circuit current	kA	31.5 (Fuse)		
Rated open load current	A	630		
Imin power frequency withstand voltage	kA	Between the ground and the 42 adjacent breaks, there are 48 breaks.	35/28(5min)	20/2.5
Lightning impulse withstand voltage	kA	Between the ground and the 75-section intervals, 8S	75	
Shell protection level		IP23	IP23	IP23
Noise level	dB		Between the ground and the 75-section intervals, 8S	
Number of circuits	↑	1~6	2	4~30
Maximum reactive power compensation on the low-voltage side	kvar			300



ZGF28-12

Outdoor prefabricated substation (American style)



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TECHNOLOGY

Product overview

The ZGF28-12 outdoor prefabricated substation is a domestically produced American-style box-type substation. As a crucial power supply unit in cabled distribution networks, this product is a complete prefabricated unit integrating high-voltage control, protection, substation, and distribution cabinets, and is widely used in urban and rural distribution networks.

This product places the high-voltage load switch and high-voltage fuse in the transformer oil, and is available in two structural forms: one with the transformer body in the same tank and the other in a separate tank. The oil tank adopts a fully sealed structure and is equipped with components such as an oil temperature gauge, an oil level gauge, a pressure gauge, a pressure relief valve, and a drain valve to monitor the transformer's operating status. This product is available in ring network type, terminal type, and power supply type. To make this product more suitable for the actual requirements of my country's power grid, the company has also launched a pluggable dry-type fuse, whose melting does not affect the performance of the transformer oil. The complexity of the low-voltage feedout requirements is also considered.

The ZGF28-12 outdoor prefabricated substation is available in three enclosure types: standard, reinforced, and integrated, allowing users and design units to make more flexible and economical selections.

Usage environment

- Ambient temperature: maximum temperature +40°, minimum temperature -30°.
- Altitude: ≤1000m.
- Wind speed: equivalent to 34 m/s (not exceeding 700 Pa).
- Humidity: The average daily relative humidity is no greater than 95%, and the average monthly relative humidity is no greater than 95%.
- Shock resistance: Horizontal acceleration not greater than 0.4 m/s², vertical acceleration not greater than 0.15 m/s².
- Installation location inclination: not greater than 3°.
- Installation environment: The surrounding air is not significantly polluted by corrosive or flammable gases, and the installation site is free from severe vibration.
- If you order this product in a manner that exceeds the above conditions, please consult with our company.

Product advantages

- With its compact structure and small size, it is only about 1/3 to 1/5 the size of domestic European-style prefabricated transformers of the same capacity, greatly reducing the floor space required.
- Fully sealed, fully insulated structure, no insulation distance required, reliably protects personal safety.
- High-voltage wiring can be used in both ring networks and terminals, offering flexible power supply options and high reliability.
- The transformer boasts superior performance: low loss, low noise, and low temperature rise; strong overload capacity, short-circuit resistance, and strong impact resistance.
- It meets various low-voltage feedout requirements and can be selected according to the scheme or designed independently.
- The cable head is available in two types: 200A elbow plug and 600A "T" type fixed cable connector. Both can be equipped with a fully insulated zinc oxide lightning rod. The 200A type cable can be plugged and unplugged under load and can also function as a disconnecting switch.

KYN61-40.5

Armored withdrawable AC metal-enclosed switchgear



HUAMEI ELECTRIC
TECHNOLOGY

Product overview

The KYN61-40.5 armored withdrawable metal-enclosed switchgear (hereinafter referred to as "switchgear") is suitable for three-phase AC 50Hz power systems and is used in power plants, substations and industrial and mining enterprises for receiving and distributing electrical energy, and for controlling, protecting and monitoring circuits. This product conforms to the standards: GB3906 "3.6~40.5kV AC metal-enclosed switchgear", GB/T11022 "Common technical requirements for high voltage switchgear and control cabinets", and IEC60298 "AC metal-enclosed switchgear and control cabinets with rated voltage of 1kV and below".

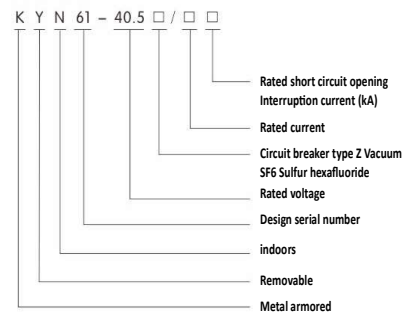
Usage environment

- Ambient air temperature: Highest temperature +40°, lowest temperature -15°;
- Altitude: Below 1000m;
- Earthquake intensity: not exceeding 8 degrees;
- The surrounding air should be free from significant pollution by corrosive or flammable gases, water vapor, etc.
- No place with severe vibration.

Technical parameters

Name	Unit	Date
Rated voltage	KV	40.5
Rated insulation level	Lightning impulse withstand voltage (full wave)	185
	Power frequency withstand voltage (1 min)	95
Rated frequency	HZ	50
Rated current	A	630;1250;1600;2000
Rated short-circuit breaking current	1min power frequency withstand voltage	KA 20 × 25 × 31.5
Rated short-circuit making current (peak value)	KA	50 × 63 × 80
Rated dynamic stability current (peak value)	KA	50 × 63 × 80
45 thermally stable current (finite value)	KA	20 × 25 × 31.5
Housing protection level		IP4X
External dimensions (w×d×h)	Vacuum circuit breaker cabinet	mm 1400 × 2200 × 2600
	SF6 circuit breaker cabinet	

Model meaning



KYN28-12

Armored withdrawable AC metal-enclosed switchgear



HUAMEI ELECTRIC
TECHNOLOGY

Product overview

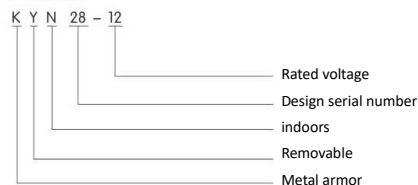
The KYN28-12 armored withdrawable AC metal-enclosed switchgear (hereinafter referred to as "switchgear") is suitable for three-phase AC 50Hz power systems, used for receiving and distributing electrical energy and controlling, protecting, and monitoring circuits. It is a newly introduced and developed high-current, high-breaking capacity switchgear, and can also be used independently as a high-voltage generator outlet.

The product conforms to the following standards: GB3906 "3-35kV AC Metal-Enclosed Switchgear", GB/T1022 "Common Technical Requirements for High Voltage Switchgear and Control Cabinets", and EC60298 "AC Metal-Enclosed Switchgear and Control Cabinets with Rated Voltage Above 1kV and Below 50kV".

Usage environment

- Ambient air temperature: maximum temperature +40°C, minimum temperature -15°C.
- Humidity conditions:
 - Daily average relative humidity: ≤95%.
 - The average daily water vapor pressure does not exceed 2.2 kPa.
 - The average monthly relative humidity is 90%.
 - The average monthly water vapor pressure is 1.8 kPa.
- Altitude: 4000m and below.
- Earthquake intensity: not exceeding 8 degrees.
- The surrounding air should not be significantly polluted by corrosive or flammable gases, water vapor, etc.
- Locations without frequent and severe vibrations.
- When used under conditions exceeding those specified in GB3906, the user and manufacturer shall negotiate accordingly.

Model meaning



Technical Parameters

Name	Unit	Data
Rated voltage	kV	3.6, 7.2, 12
Rated frequency	Hz	50
Circuit breaker rated current	A	630, 1250, 1600, 2000, 2500, 3150, 4000
Switchgear rated current	A	630, 1250, 1600, 2000, 2500, 3150, 4000
Rated short-time withstand current (4s)	kA	16, 20, 25, 31.5, 40, 50
Rated peak withstand current (peak value)	kA	40, 50, 63, 80, 100, 125
Rated short-circuit breaking current	kA	16, 20, 25, 31.5, 40, 50
Rated short-circuit making current (peak value)	kA	40, 50, 63, 80, 100, 125
Rated Insulation Level	1-minute power frequency withstand voltage	Interpolated, interpolator to earth
		Between fractures
	Lightning impulse withstand voltage (peak value)	Interpolated, interpolator to earth
		Between fractures
Protection level		The enclosure is IP4X, and the window is sealed. When the circuit breaker is open, it is IP2X.

HXGN17-12

Box-type fixed AC metal-enclosed switchgear



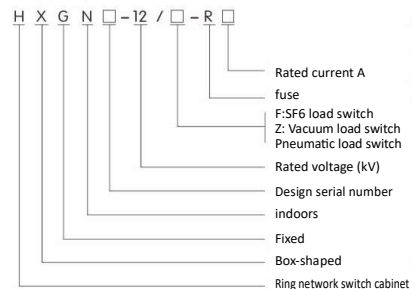
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Product overview

The HXGN17-12 box-type fixed AC metal-enclosed switchgear (hereinafter referred to as ring main unit) is a new type of high-voltage switchgear produced for the needs of urban power grid renovation and construction. In the power supply system, it is also used for interrupting load current and short-circuit current, as well as closing short-circuit current. This ring main unit is equipped with FZRN25 and FZRN21 vacuum load switches, and the operating mechanism is a spring mechanism, which can be operated manually or electrically. The grounding switch and partition are equipped with manual operating mechanisms. This ring main unit is highly integrated, small in size, has no risk of combustion or explosion, and also has reliable "five-proof" functions.

This ring main unit meets the relevant provisions of the national standard GB3906 "3-35kV AC metal-enclosed switchgear" and the national standard IEC60420 "High voltage AC load switch-fuse combination electrical appliances".

Model meaning



Usage environment

- Ambient air temperature: -15°C to +40°C;
 - Altitude: Not exceeding 1000m;
 - Humidity: daily average not exceeding 95%, daily average water vapor pressure not exceeding 2.2 kPa; monthly average not exceeding 90%, monthly average water vapor pressure not exceeding 1.8 kPa;
 - Earthquake intensity: not exceeding 8°C.
 - A place free from obvious pollution such as corrosive or flammable gases.
- Note: Special requirements can be negotiated with our company.

Technical Parameters

Name	Unit	FN12-10	FZN25-12
Rated voltage		12	
1-minute power frequency withstand voltage	kV	42 between phases and to ground, 48 isolation breaks	
Lightning impulse voltage (peak value)		75 for phases and to ground, 85 for isolation breaks	
Rated frequency	Hz	50	
Main bus rated current	A	630	
Load switch	Rated current	630	
	Power life under rated current	Not less than 100	
	Breaking off no-load transformer capacity	1250	
	Rated thermal stable current	20/4: Grounding switch 20/2	
	Rated dynamic stability current (peak value)	50	
	Rated short-circuit making current (peak value)	50	

XGN15-12

Indoor AC metal-enclosed ring network switchgear



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Product overview

The XGN15-12 box-type fixed indoor AC metal-enclosed ring network switchgear is a new generation of compact and expandable metal-enclosed switchgear that uses sulfur hexafluoride switches as the main switches and the entire cabinet is air-insulated. Suitable for power distribution automation, it features a simple structure, flexible operation, reliable interlocking, and easy installation. It provides satisfactory technical solutions for various applications and user requirements. The adoption of sensing technology and the latest protective relays, combined with advanced technical performance and a lightweight and flexible assembly scheme, fully meets the ever-changing market demands.

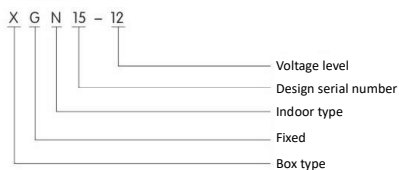
The XGN15-12 box-type fixed indoor AC metal-enclosed ring network switchgear uses FLN36 and FLN48 type main switches, SF6 load switches, and ABB original SFG type switches. ABB original VD4/S, HD4/S circuit breakers and VS1 circuit breakers can also be installed according to user needs. The switchgear is suitable for AC 50Hz, 12kV power systems and is widely used in industrial and civil cable ring networks and power supply terminal projects.

It is particularly suitable for the following locations: power distribution in urban residential areas, small secondary substations, switching stations, industrial and mining enterprises, shopping malls, airports, subways, wind power generation, hospitals, stadiums, railways, tunnels, etc.

Usage environment

- Altitude: ≤1000m (Special requirements can be specified when ordering);
- Ambient temperature: -25°C to +40°C;
- The average daily relative humidity should not exceed 95%, and the average monthly relative temperature should not exceed 90%.
- Earthquake resistance: 8 degrees
- Locations free from severe vibrations and impacts, as well as places with hazards of fire, chemical corrosion, or explosion.

Model meaning



技术参数

Name	Unit	Parameter
Rated voltage, rated current	kV/A	12/630
Rated thermal current (25)	kA	20
(Rated dynamic stability current peak value)	kA	50
Rated short-circuit making current (peak value)	kA	50
Rated transfer current	A	2000
Lightning impulse voltage	kA	85
Power frequency withstand voltage	kA	48
Mechanical life	□	2000
SF6 gas rated pressure	Mpa	0.03
SF6 gas annual leakage rate	%	≤0.5

XGN66-12(Z)

Fixed closed switch cabinet



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TECHNOLOGY

Product overview

The XGN15-12 box-type fixed indoor AC metal-enclosed ring network switchgear is a new generation of compact and expandable metal-enclosed switchgear that uses sulfur hexafluoride switches as the main switches and the entire cabinet is air-insulated. Suitable for power distribution automation, it features a simple structure, flexible operation, reliable interlocking, and easy installation. It provides satisfactory technical solutions for various applications and user requirements. The adoption of sensing technology and the latest protective relays, combined with advanced technical performance and a lightweight and flexible assembly scheme, fully meets the ever-changing market demands.

The XGN15-12 box-type fixed indoor AC metal-enclosed ring network switchgear uses FLN36 and FLN48 type main switches, SF6 load switches, and ABB original SFG type switches. ABB original VD4/S, HD4/S circuit breakers and VS1 circuit breakers can also be installed according to user needs. The switchgear is suitable for AC 50Hz, 12kV power systems and is widely used in industrial and civil cable ring networks and power supply terminal projects.

It is particularly suitable for the following locations: power distribution in urban residential areas, small secondary substations, switching stations, industrial and mining enterprises, shopping malls, airports, subways, wind power generation, hospitals, stadiums, railways, tunnels, etc.

Usage environment

- Altitude not exceeding 1000m;
- Ambient temperature: -25°C to +40°C, with an average temperature not exceeding +35°C over 24 hours;
- The horizontal tilt angle should not exceed 3°.
- The earthquake intensity did not exceed 8°C;
- Locations free from severe vibrations, impacts, and explosion hazards.

XGN-12

Solid-insulated fully enclosed ring main switchgear



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Product overview

The XGN-12 series solid-insulated, fully enclosed ring main unit is a fully insulated, fully sealed, maintenance-free solid-insulated vacuum switchgear. All high-voltage live parts are cast from epoxy resin with excellent insulation properties, organically integrating the vacuum interrupter, main conductive circuit, and insulating supports into a single unit. Functional units are connected via fully insulated solid-state busbars. Therefore, the entire switchgear is unaffected by the external environment, ensuring the reliability of the cabinet operation and the safety of operators.

This ring main unit features a simple structure, flexible operation, reliable interlocking, and convenient installation. It is suitable for 50Hz, 12kV power systems and widely used in industrial and civil cable ring networks and distribution network terminal projects. It serves as a receiver and distributor of electrical energy, and is particularly suitable for urban residential power distribution, small substations, switching stations, cable branch boxes, prefabricated substations, industrial and mining enterprises, shopping malls, airports, subways, wind power generation, hospitals, stadiums, railways, tunnels, and other locations. Due to its advantages of full insulation, full sealing, and full shielding, it is especially suitable for use in harsh environments such as high altitudes, high temperatures, high humidity, extreme cold, and severe pollution.

Usage environment

- Ambient temperature: -45°C to +45°C;
- Humidity: Maximum average relative humidity, daily average ≤95%, monthly average ≤90%;
- Altitude: ≤4000 meters
- Earthquake resistance: 8 degrees
- Protection rating: IP67 for live parts, IP67 for fuse holder, IP3X for switch cabinet enclosure.



Product overview

Our products are widely used in numerous fields, including power, chemical, shipbuilding, subway, civil aviation, automotive, construction, metallurgy, and textiles. We strive to provide comprehensive and effective value to every customer, and ensuring the quality of all our products and maximum customer satisfaction are our guiding principles in product design and manufacturing. "Improving power quality and reducing electricity costs" will always be our consistent service principle.

Usage environment

- Highly intelligent measurement and control
 - The measurement and control device adopts DSP technology and can measure different types of parameters such as frequency, voltage, current, active power, reactive power, power factor, and harmonic components. It can also realize non-synchronous automatic switching and real-time alarm and protection functions for harmonic over-limit, voltage over-limit, and system oscillation.
- Economical, safe and reliable
 - It adopts GJ series compensation capacitors with built-in discharge resistors and uses advanced technologies such as dry technology, self-healing technology, and varistor technology. It has a long service life, strong overload capacity, and minimizes the escalation of accidents. It is pollution-free, explosion-free, and has no fire hazard.
 - Zero-crossing rapid casting and cutting technology
 - The zero-crossing switching technology avoids the inrush current phenomenon generated during the switching of traditional contactors, greatly extending the service life of capacitors. Especially in load environments where voltage changes drastically due to reactive power, it reduces voltage fluctuations, maintains a balanced voltage level, improves transmission capacity, and reduces losses.
- Modular
 - It adopts modular production technology, has strong completeness, and is conducive to system transformation.



Product overview

GGD AC low-voltage distribution cabinets are suitable for power plants, substations, industries, enterprises, and other power users as power conversion, distribution, and control in AC 50Hz power distribution systems with a rated operating voltage of 380V and a rated current up to 3150A, for power, lighting, and distribution cabinet functions.

The GGD AC low-voltage switchgear is a new type of low-voltage switchgear designed according to the requirements of the Ministry of Energy, power users, and design departments, adhering to the principles of safety, economy, rationality, and reliability. This product features high breaking capacity, with a rated short-time withstand current of up to 50kA. It offers flexible circuit schemes, convenient combination, strong practicality, and a novel structure. It can be used as a replacement product for low-voltage switchgear assemblies. The GGD AC low-voltage switchgear complies with IEC439 "Low-voltage switchgear and control cabinet assemblies" and GB7251 "Low-voltage switchgear assemblies" standards.

Usage environment

- Ambient temperature: -5°C to +40°C, with the average temperature within 24 hours not exceeding +35°C.
 - Altitude: 2000m and below.
 - Relative humidity: not exceeding 50% at the highest temperature of +40°C, and higher values are permissible at lower temperatures.
 - Relative humidity: (e.g., 90% at +20°C) should take into account the occasional condensation that may occur due to temperature variations.
 - The cabinet should be installed with an inclination of no more than 5° relative to the vertical plane.
 - The cabinet should be installed in a place free from severe vibration and impact, and in a location where electrical components are not susceptible to corrosion.
- Note: If the above conditions cannot be met and the user has special requirements, they can negotiate with our company to resolve the issue.



Product overview

GCS low-voltage withdrawable switchgear is suitable for power distribution systems in industries such as power plants, petroleum, chemical, metallurgy, textile, and high-rise buildings. In large power plants, petrochemical systems, and other locations with high levels of automation and requiring computer interfaces, it serves as a low-voltage complete power distribution unit for power distribution, centralized motor control, and reactive power compensation in power generation and supply systems with a three-phase AC frequency of 50 (60) Hz, a rated operating voltage of 380 (400) V or (660) V, and a rated current of 4000 A and below.

This product conforms to the standards: GB7251 "Low-voltage switchgear assemblies", JB/T9661 "Low-voltage withdrawable switchgear assemblies", and IEC60439-1 "Low-voltage switchgear and control cabinet assemblies".

Usage environment

- Ambient temperature: -5°C to +40°C, with the average temperature over 24 hours not exceeding +35°C.
 - Altitude: 2000m and below.
 - Relative humidity: not exceeding 50% at the highest temperature of +40°C, and higher values are permissible at lower temperatures.
 - Relative humidity: (e.g., 90% at +20°C) should take into account the occasional condensation that may occur due to temperature variations.
 - The cabinet should be installed with an inclination of no more than 5° relative to the vertical plane.
 - The cabinet should be installed in a place free from severe vibration and impact, and in a location where electrical components are not susceptible to corrosion.
- Note: If the above conditions cannot be met and the user has special requirements, they can negotiate with our company to resolve the issue.



Product overview

MNS is a modular, multi-functional low-voltage switchgear. It is used in low-voltage systems requiring high reliability in metallurgical, petroleum, chemical, mining, and infrastructure industries, including power distribution and motor control systems. The MNS features a highly flexible cabinet structure. Depending on your needs or different applications, various models and specifications of components can be installed inside the cabinet; and depending on the type of switchgear, multiple types of feeder units can be installed in the same row or cabinet. For example, feeder circuits and motor control circuits can be mixed together.

MNS is a full range of low-voltage switchgear to meet your comprehensive needs. It is suitable for all low-voltage systems below 4000A. MNS offers a high level of reliability and safety. Its user-friendly design enhances the protection required for personnel and cabinet safety. MNS features a fully assembled structure; its unique profile structure and connection methods, along with its compatibility with various components, can meet stringent requirements for project deadlines and power continuity. Compliant standards: IEC439, GB 7251.1.

Usage environment

- Applications: Power distribution, motor control;
- Implementation standards: IEC439, GB7251.1;
- Ambient temperature: -5°C to 40°C;
- The relative humidity should not exceed 50% at 40°C. Higher relative humidity is permissible at lower temperatures, and condensation may occasionally occur (e.g., 90% at 20°C).
- Installation location: Indoor;
- Altitude: ≤2000m;
- If the above conditions cannot be met, the user should raise this issue with the manufacturer when placing the order.



GCK

Low-voltage withdrawable switchgear

Product overview

GCK (functionally equivalent to or superior to (3CL) low-voltage withdrawable switchgear (hereinafter referred to as "switchgear") is suitable for rated working voltage of 380V, AC three-phase network line, three-phase five-wire system, and is used for power receiving, power feeding, reactive power compensation, power metering, lighting and centralized control of motors in power plants, substations, industrial and mining enterprises and high-rise buildings.

This product complies with the following standards: GB7251 "Pressure-sealed switchgear and control cabinet", JB/T9661 "Pressure-sealed withdrawable switchgear", and IEC 439 "Low-voltage switchgear and control cabinet".

Usage environment

- Altitude: 2000m and below.
- Ambient temperature: -5°C to $+40^{\circ}\text{C}$, with the daily average temperature not exceeding $+35^{\circ}\text{C}$.
- Relative humidity: not exceeding 50% at $+40^{\circ}\text{C}$; higher relative humidity is permissible at lower temperatures.
- At certain temperatures, condensation may occur occasionally; for example, it is 90% at $+20^{\circ}\text{C}$.
- Locations free from fire, explosion hazards, severe pollution, chemical corrosion, and violent vibrations.
- The inclination to the vertical plane shall not exceed 5° .
- Suitable for transport and storage at the following temperatures: -25°C to $+55^{\circ}\text{C}$, and not exceeding $+70^{\circ}\text{C}$ for a short period of time (not exceeding 24 hours).
- If the above usage conditions cannot be met, the user should raise this issue with our company when placing the order, and we will negotiate a solution.



XL-21

Power distribution cabinet

Product overview

The XL-21 power distribution cabinet is suitable for power plants and industrial and mining enterprises, and is used for power and lighting distribution in three-phase three-wire, three-phase four-wire, and three-phase five-wire systems with AC voltage of 500V and below.

The XL-21 power distribution cabinet is an indoor device, installed against the wall, and inspected from the front.

Usage environment

- Ambient temperature: -50°C to $+40^{\circ}\text{C}$, with the average temperature over 24 hours not exceeding $+36^{\circ}\text{C}$;
- Altitude: Not exceeding 2000m;
- Relative humidity: Not exceeding 50% at ambient air humidity $+40^{\circ}\text{C}$; higher relative humidity is permissible at lower humidity levels (e.g., 90% at $+20^{\circ}\text{C}$), and moderate condensation is allowed considering temperature variations.
- The cabinet should be installed with an inclination of no more than 5 degrees relative to the vertical plane. The cabinet should be installed in a place free from severe vibration, impact and corrosion.



JP

Outdoor comprehensive distribution box

Product overview

The JP series outdoor integrated distribution box is a multi-functional outdoor power distribution device that integrates metering, outgoing lines, reactive power compensation, and other functions. It has functions such as short circuit, overload, overvoltage, and leakage protection. It is small in size, beautiful in appearance, economical and practical. It is installed on the pole of the outdoor pole-mounted transformer and is a new generation of ideal power distribution product for urban and rural power grid transformation.

Usage environment

- Ambient temperature: -25°C to $+40^{\circ}\text{C}$
- Air relative humidity:
The daily average is no greater than 90%;
- The monthly average is no greater than 90%;
- Altitude: Not exceeding 2000m;
- Install in a location free from severe vibration and impact, and free from corrosive gases.



XZW

Comprehensive distribution box

Product overview

The XZW integrated distribution box has a wide range of applications. It is suitable for low-voltage power grid systems with AC 50Hz and a rated operating voltage of AC 380V. It can also be used in AC 50Hz power systems with voltages below 500V for fire pump control, submersible sewage pump control, fire fan control, ventilation fan control, lighting distribution control, etc. Control methods include direct control start, star-delta reduced voltage start control, autotransformer reduced voltage start control, frequency converter start control, soft start control, and various other starting methods.

The XZW integrated distribution box is suitable for use in factories, mines, enterprises, shopping malls, hotels, schools, airports, ports, hospitals, high-rise buildings, residential communities, and other low-voltage power grid systems with AC 50Hz and a rated operating voltage of AC 380V. It is used for power and lighting distribution and motor control, and is suitable for indoor wall mounting and outdoor floor mounting. It is also used in AC 50Hz power systems with voltages below 500V for fire pump control, submersible pump control, fire fan control, ventilation fan control, and lighting distribution control. Control methods include direct start control, star-delta reduced voltage start control, autotransformer reduced voltage start control, frequency converter start control, soft start control, and various other control methods. It can also use disconnect switches and fuse-type switches as isolation points.



HMJ

Electric energy metering box

Product overview

Electricity metering boxes are widely used in power plants, substations, factories, mines, high-rise buildings, and other electricity users. They are used as lighting electricity metering boxes in three-phase four-wire or three-phase five-wire AC systems of 400V and below. Different models and current ratings of circuit breakers can be selected according to user needs to meet diverse requirements.

The electricity metering box complies with standards such as GB7251.1-2006 "Low-voltage switchgear and control cabinet assemblies - Part 3: Special requirements for distribution boards of low-voltage switchgear and control cabinet assemblies accessible to non-professionals".

Usage environment

- The ambient air temperature shall not exceed +40°C or fall below -25°C. The average temperature over 24 hours shall not exceed +35°C.
- The altitude of the location where it is used is ≤2000M.
- The cabinet should be installed with an inclination of no more than 5% relative to the vertical.
- The installation site should be a dry place, free from severe vibration, harmful gases, vapors, conductive or explosive dust.
- If users have special requirements or the above-mentioned usage conditions cannot be met, they should consult with the manufacturer to resolve the issue.

DFW-12

Cable distribution box

Product overview

The DFW-12/630-20 high-voltage cable junction box is a widely used cable engineering device in power distribution network systems in recent years. Its main features include bidirectional opening, the use of butt bushings as connecting busbars, and significant advantages such as short length, clear cable arrangement, and no need for large-span crossings for three-core cables. The cable joints used conform to the DIN47636 standard. Generally, a bolt-fixed cable joint with a rated current of 630A is used.

Usage environment

- Ambient temperature: Highest temperature: +40°C, Lowest temperature: -30°C;
- Wind speed: equivalent to 34 m/s (not exceeding 700 Pa);
- humidity:
 - The average daily relative humidity is no greater than 95%.
 - The average monthly relative humidity is no greater than 95%.
- Shock resistance: Horizontal acceleration not greater than 0.4 m/s², vertical acceleration not greater than 0.15 m/s²;
- Installation location inclination: not greater than 3°;
- Installation environment: The surrounding air should not be significantly polluted by corrosive or flammable gases or water vapor, and the installation site should be free from severe vibration.

After-sales service guarantee letter

After-sales service guarantee AFTER SALES SERVICE GUARANTEE

The Company Boasts A Team Of Highly Skilled And Qualified After-sales Service Technicians. Adhering To The Service Philosophy Of "Ensuring Product Quality And Providing Enthusiastic Service To Customers," We Offer Users 24/7 Technical Support And Top-notch Service.

1. During Product Installation And Commissioning, The Company Will Provide Users With Free Technical Services And On-site Assistance. During The Service Process, The Company Will Explain The Equipment's Manufacturing Details And Technical Performance To Users Free Of Charge, Ensuring The Equipment Installation And Acceptance Are Successful.

2. During the warranty period for the product, any faults arising from normal use will be repaired free of charge, and user feedback will be resolved as quickly as possible. After receiving user complaints about quality issues and service requirements, technicians will typically intervene promptly. If a transformer or critical high- and low-voltage components are damaged, repairs will be completed within 1-3 days; a repair plan will be formulated within 5 hours, and technicians will guide the resolution process.

3. In The Event Of Product Failure Caused By Reasons Other Than Our Company During The Installation And Commissioning Process, Our Company Has The Obligation To Assist In Resolving The Aftermath, But The User Shall Bear The Necessary Expenses.

4. Our Company Will Be Responsible For Any Quality Issues With All Purchased Parts. Parts Replaced During The Warranty Period Will Be Covered By A 12-month Warranty From The Date Of Replacement.

5. After The Product Warranty Period Expires, The Company Will Continue To Provide Users With Extended Services And Technical Support, And Will Provide Users With The Necessary Spare Parts, Accessories And Maintenance Technology At The Most Favorable Price For Life, At A Cost Lower Than The Industry Average.

Our Company Always Adheres To The Principle Of "Thinking What Users Think And Being Anxious About What Users Are Anxious About", Fulfills Its Commitments With "Honoring Contracts And Keeping Promises" And Good After-sales Service, Serves Users And Benefits Society.

