

PRODUCT CATALOG

变压器产品目录

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变压器产品目录
PRODUCT CATALOG



江苏亚威变压器有限公司
JIANGSU YAWEI TRANSFORMER CO.,LTD



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江苏亚威变压器有限公司
JIANGSU YAWEI TRANSFORMER CO.,LTD

企业服务 Enterprise Service

江苏亚威变压器有限公司一贯坚持“以人为本、以科技求发展、以质量争市场、以品牌创效益”的方针，严格奉行“诚实、守信”经营理念，积极发展品牌兴企的战略，努力打造一流的知名企业，不断进取、与时俱进，为广大客户提供优质的产品和良好的售后服务。

衷心感谢贵单位使用江苏亚威变压器有限公司产品，为使贵单位放心使用本公司产品，江苏亚威变压器有限公司对产品质量的售后服务承诺如下：

一、江苏亚威变压器有限公司售出的产品均为严格按照国标及相关行业标准生产，产品质量实行一年内免费“三包”。

二、江苏亚威变压器有限公司售出产品如因非人为因素导致变压器性能及技术问题，江苏亚威变压器有限公司将无条件更换，并承担相应的经济损失和赔偿。对由于其它原因造成的问题。江苏亚威变压器有限公司将积极协助解决用户困难，以保证产品及时投运，将损失减少到最低限度。

三、对售出的产品，江苏亚威变压器有限公司将积极配合用户搞好变压器的现场运行和维护管理。并可根据用户需要，提供成本价的备品备件。

四、“质量第一，用户至上”是江苏亚威变压器有限公司的准则，如产品发生质量问题，江苏亚威变压器有限公司将以最快的时间赶到现场。

五、此承诺书以传真件加盖江苏亚威变压器有限公司公章后生效。

Jiangsu yawei transformer Co., Ltd always keep in mind that “People First, Science and Technology for Development, Quality for Market and Brand name Benefit” is the key words of one company; strict adherence to the business philosophy of “honest and trustworthy”; actively develop the brand of enterprise development strategy in order to create first-class well-known enterprises supplying the high quality products and good after-sales service.

Thanks for using the products of Jiangsu yawei transformer Co., Ltd, our company commits to product quality after-sales service as follows for you relying on our products:

1. All the products of Jiangsu yawei transformer Co., Ltd are in strict accordance with the international standard production and related industry. The quality of the product for one year free “three guarantees”.

2. Sold products of Jiangsu yawei transformer Co., Ltd without the human factors leading to the transformer performance and technical problems, Jiangsu yawei transformer Co., Ltd will the unconditional replacement and bear the corresponding economic losses and damages. For the problems caused by other reasons, our company will actively assist solve the difficult of the customers in order to ensure product put into operation in time and reduce losses to a minimum.

3. For the sold products, Jiangsu yawei transformer Co., Ltd will actively cooperate with the customer site operation and maintenance management to improve the quality of the transformer and provide the cost price of spare parts according to the need of the customer.

4. Jiangsu yawei transformer Co., Ltd take “Quality First, User Paramountcy” as tense, such as the quality problems occur the Company will rush to the scene at the fastest time.

5. This letter of commitment will come into effect after stamping the seal of Jiangsu yawei transformer Co., Ltd.

产品是企业的**形象** 质量是企业的**荣誉**

- ✓ 完善的工程师团队
- ✓ 国家AAA级诚信单位
- ✓ 牢靠的产品质量和完善的售后服务



服务热线： **400-600-7040**

衷心希望江苏亚威变压器有限公司的产品能使贵单位满意!
We sincerely hope that the products of Jiangsu yawei transformer Co., Ltd can make you satisfied!

> 企业介绍

亚威集团拥有员工 1200多名，其中工程技术人员300多名，公司占地500多亩，集团公司2022年销售35亿元左右。其中江苏亚威变压器有限公司是年销售超15亿元。江苏亚威变压器先后荣获江苏省质量信得过企业、国家高新技术企业、南通市重合同守信用先进集体、南通市文明单位、南通市民营企业百强、海安市工业成长企业、海安市工业企业二十强、海安市质量标兵、海安市市长质量奖、省级四星级上云企业、江苏省专精特新小巨人企业等殊荣。

公司具有强大的生产能力，打造了一支高效率的营销队伍。产品包括500KV、330KV、220KV及110KV型超高压变压器、35KV及以下各种干式变压器、油浸式变压器、非晶合金变压器、风光储新能源变压器、预装式变电站以及各种规格的电抗器、电炉变、整流变、矿用变、分裂变、移相变等特种变压器。公司所有系列的产品均通过国家变压器质量监督检验中心和国家电力公司武汉高压研究所的例行、型式、特殊试验。企业先后通过ISO9001、ISO14001、ISO45001、ISO19011体系认证；江苏省企业计量合格认证；同时，10KV、35KV级电力变压器、箱式变电站获得国际电工委员会IEC认证，加拿大标准CSA，标准开发机构美国UL有限责任公司颁发的UL认证。产品销售覆盖全国市场，并远销美国、加拿大、澳大利亚、新西兰、印度、马达加斯加、越南、柬埔寨等国家。

长期以来，亚威变压器努力践行“为电气设备的绿色智能发展而持续改进”的使命，秉承“益国利民、和谐共存、服务社会”的经营理念，营造天时地利人和的发展氛围，与电力部门及广大客户保持合作双赢、互利互惠的良好关系；对内积极倡导“以人为本”的管理理念，充分尊重员工的首创精神，坚持务实经营，提高企业员工的凝聚力。在保持企业稳健经营的前提下，树立良好的企业形象。



Yawei Group has more than 300 engineering and technical personnel, more than 1200 employees, covering an area of 240,000 square meters, and the annual sales of the group company reaches 3.5 billion yuan, among which Jiangsu Yawei Transformer sells 1.5 billion of medium-sized transformer enterprises, and the enterprise has successively won the honor of Jiangsu Quality Trustworthy Enterprises, National High-tech Enterprise, Nantong Advanced Collective of Observing Contracts and Keeping Promises, Nantong Civilized Unit, the Industrial Growth Enterprise of Hai'an, the Top 20 Industrial Enterprise of Hai'an, the Quality Pacesetter of Hai'an, the Quality Award of Mayor of Hai'an, the Provincial Four-star Shangyun Enterprise, the Specialized Special New Small Giant Enterprise of Jiangsu, etc.

The company has strong production capacity and has built a highly efficient marketing team. The company has strong production capacity and has built a highly efficient marketing team. The products include 500kV, 330kV, 220kV and 110kV ultra-high voltage transformers, 35kV and below dry-type transformers, oil immersed transformers, amorphous metal transformer, wind and solar storage new energy transformers, prefabricated substation and special transformers such as reactors, electric furnace transformers, rectifier transformers, mining transformers, split transformers and phase shifting transformers of various specifications. All series of products of the company have passed the routine, type and special tests conducted by the National Transformer Quality Supervision and Inspection Center and the Wuhan High Voltage Research Institute of the State Power Corporation. The enterprise has successively passed ISO9001, ISO14001, ISO45001, ISO19011 system certification; Jiangsu Province Enterprise Measurement Qualification Certification; At the same time, 10KV and 35KV power transformers and compact substations have obtained the IEC certification of the International Electrotechnical Commission, the Canadian standard CSA, and the UL certification issued by the standard development organization UL Co., Ltd. Of the United States. The product sales cover the national market and are exported to the United States, Canada, Australia, New Zealand, India, Madagascar, Vietnam, Cambodia and other countries.

For a long time, Yawei Transformer has been striving to implement the mission of "continuous improvement for the green and intelligent development of electrical equipment", adhering to the business philosophy of "benefiting the country and the people, harmonious coexistence, and serving the society", creating a development atmosphere of harmony at the right time and at the right place, and maintaining a good relationship of win-win cooperation and mutual benefit with the power sector and customers; Actively advocate the management concept of "people-oriented" internally, fully respect the initiative of employees, adhere to pragmatic management, and improve the cohesion of enterprise employees. On the premise of maintaining the steady operation of the enterprise, establish a good corporate image.



以人为本、以科技求发展
以质量争市场、以品牌创效益

People-oriented, Science & technology To Seek Development
To Compete Markets, With The Brand Of Quality And Benefits



亚威变压器
YAWEI TRANSFORMER

国内争第一 世界创名牌 Be the No.1 in China and create a world famous brand

ENTERPRISE EQUIPMENT

> 企业设备

为了保证先进的设计和制造技术的实施，对部分设备、工装及工具进行更新、改造、完善，以满足产品的质量要求。

In order to assure the implementation of the advance design and manufactural technology, some key equipments, moulds and tools had been repleced, moulds and improved with the new technologies to meet the requirements of product quality.



▲全自动横剪线

Transversal Silicon Sheet Automatic Cutting Line



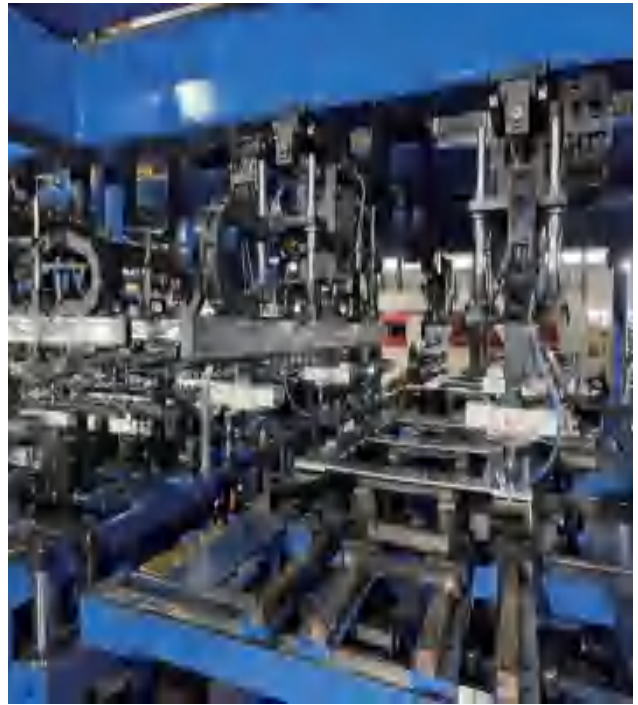
▲全自动中柱线

Automatic Center Column Cutting line



▲启源纵剪机

SDRI Slitting Machine



▲全自动叠片机组
Automatic Stacking Machine



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▲自动绕线机
Automatic Coil Winding Machine



▲箔绕机组
Foil Winding Machine



▲卧式绕线机
Horizontal Coil Winding Machine



▲立式绕线机
Vertical Coil Winding Machine



▲ 装配架
Automatic Assembly Scaffold



▲ 高低压绕线车
Low Voltage Winding Machine



▲ 液压装置
Hydraulic Press



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▲ 真空浇筑罐
Epoxy Resin Vacuum Casting Tank



▲ 现代化干燥设备
Vapor Phase Drying Plant



▲ 真空加油机
Vacuum Oil-Filling Plant



▲ 充氮退火炉
Vacuum Annealing Furnace



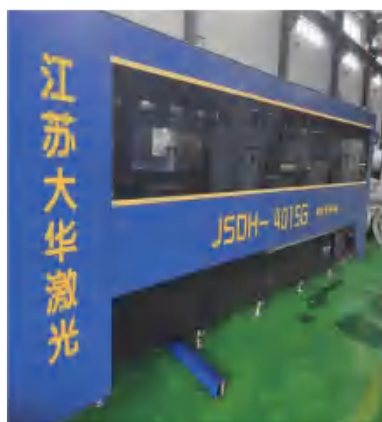
▲ 环氧真空浇注设备
Exoxy Vacuum Pouring Machines



▲双节高真空净油设备
Double Extremely High Vacuum Net Oil Equipment



▲储油罐
Oil Storage Tank



▲智能激光切割机
Intelligent Laser Cutting Machine



▲数控冲床
CNC Turret Punch Press



▲煤油汽油干燥设备
Kerosene Vapor Drying Equipment



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▲焊接机器人组 Welding Robot



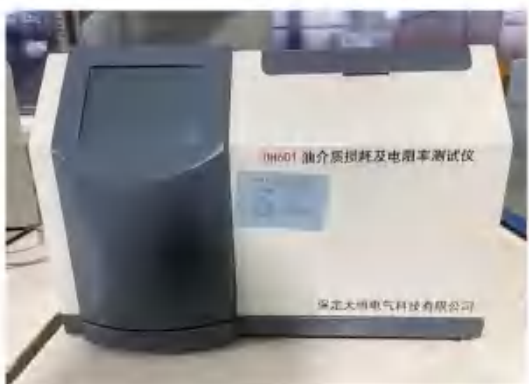
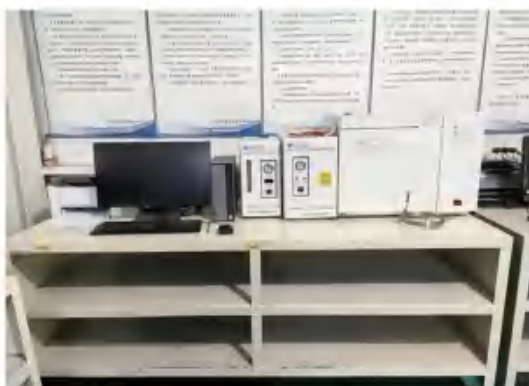
▲电容塔 Capacitance Tower



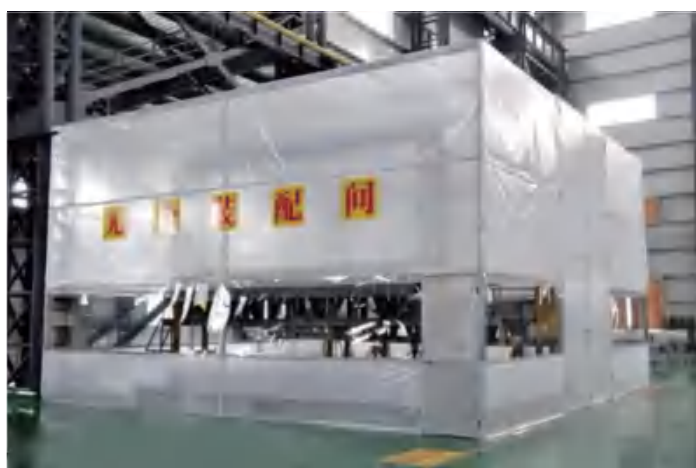
▲智能自动折弯机
Intelligent Automatic Bending Machine



▲雷电冲击设备 Lightning Shock Equipment



▲ 现代化实验室
Modern Laboratory



▲ 无尘装配间
Dust-free Workshop

QUALIFICATION HONOR

> 资质荣誉

江苏亚威变压器先后荣获江苏省质量信得过企业、国家高新技术企业、南通市民营企业百强、省级四星级上云企业、江苏省专精特新小巨人企业等殊荣。公司参与修订多项变压器国家标准，并被评为标准化技术委员会委员单位，是江苏省认定的“企业技术中心”、江苏省工程技术研究中心、省级博士后工作站。公司注重产、学、研合作，聚力科技创新，先后与华北电力大学、上海电力大学、天津大学、河海大学、江苏理工大学等国内知名院校进行战略合作和技术攻关，保证集团公司永立商海潮头，永占技术巅峰。

Jiangsu yawei transformer has been awarded the top 100 private enterprises of Nantong, four-star Shangyun Enterprise of Jiangsu province, and special new small giant enterprise of Jiangsu province. The company participated in the revision of several national standards for Transformers and was awarded as a member of the standardization technical committee, jiangsu province is recognized as the “Enterprise Technology Center”, Jiangsu Engineering Technology Research Center, provincial postdoctoral workstation. The company pays attention to the production, the study, the research cooperation, the Cohesion Science and technology innovation, we have cooperated strategically with North China Electric Power University, Shanghai Electric Power University, Tianjin University, hehai University, Jiangsu University University and other well-known universities in China to tackle key technical problems and ensure that the group company will always stand at the head of the business tide, the pinnacle of technology.

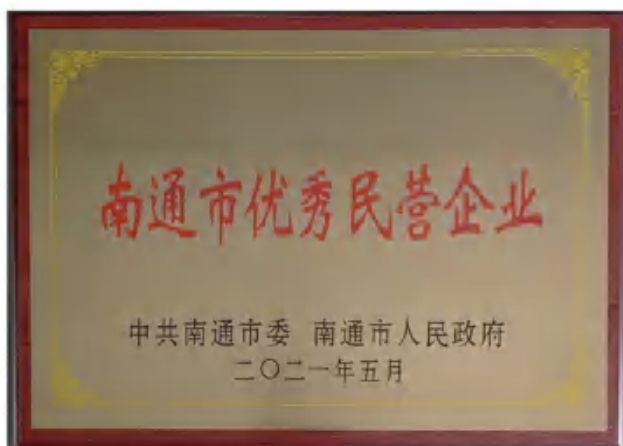


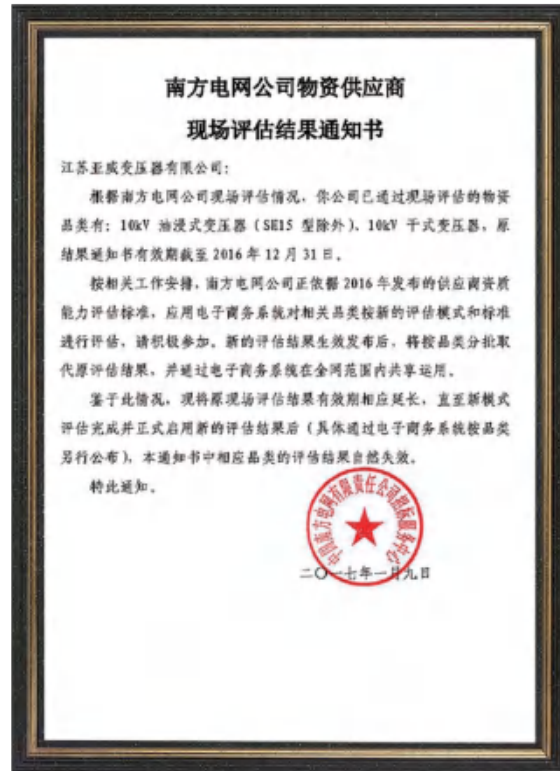




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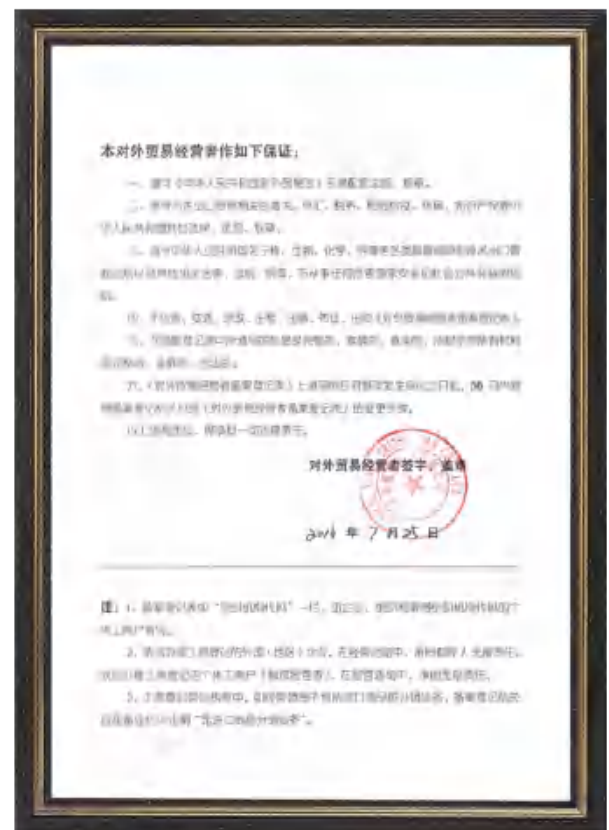






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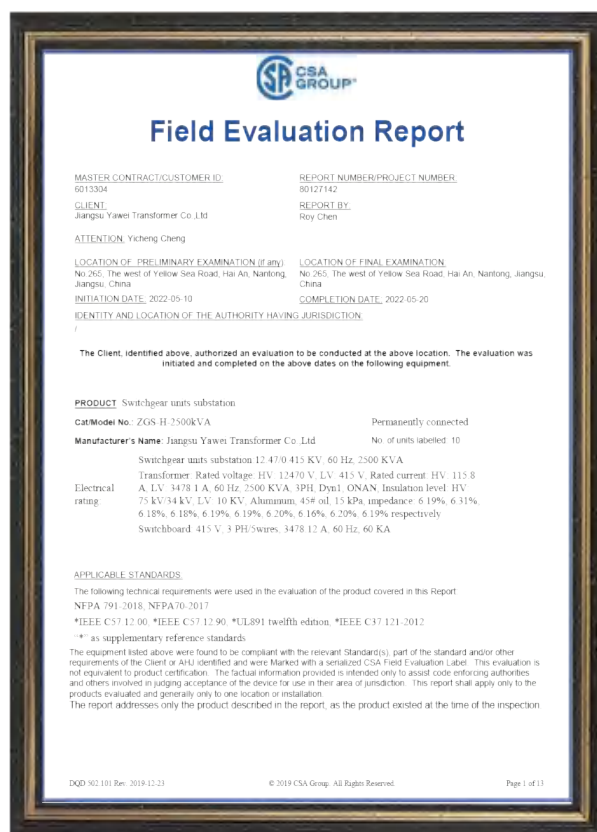




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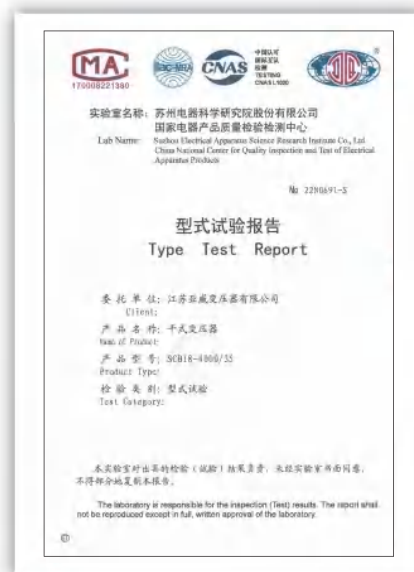
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QUALIFICATION REPORT

> 资质报告

多年来，我们以可靠的产品质量和完善的售后服务，得到了广大用户的信赖和好评。产品已广泛用于各地电力系统及各行业之中，在以后的征程中，亚威变压器将再接再厉，为尊敬的客户提供更好的产品和服务。

For many years, our company on the reliable product quality and perfect after-sale service, obtained usercommunities ' trustand praise. The products have been widely used in power system and among all industries in the process. In the future,Yawei transformer will persist in your efforts, for the customer respect to provide better products and services.










实验室名称: 国家电器产品质量监督检验中心
 Lab Name: China National Center for Quality Supervision and Test of Electrical Apparatus Products

No. 2180974-S

检验 (试验) 报告
Test Report

委托单位: 江苏亚威变压器有限公司
 Client:

产品名称: 干式变压器
 Name of Product:

产品型号: SCB18-2500/10-NX1
 Product Type:

检验类别: 委托试验
 Test Category:

本实验室对出具的检验 (试验) 结果负责, 未经实验室书面同意, 不得部分地复制本报告。
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实验室名称: 国家电器产品质量监督检验中心
 Lab Name: China National Center for Quality Supervision and Test of Electrical Apparatus Products

No. 2180467-S

型式试验报告
Type Test Report

委托单位: 江苏亚威变压器有限公司
 Client:

产品名称: 干式变压器
 Name of Product:

产品型号: SCB18-2500/10-NX1
 Product Type:

检验类别: 型式试验
 Test Category:

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实验室名称: 苏州电器科学研究院股份有限公司
 国家电器产品质量检验检测中心
 Lab Name: Suzhou Electrical Apparatus Science Research Institute Co., Ltd. China National Center for Quality Inspection and Test of Electrical Apparatus Products

No. 2180469-S

检验 (试验) 报告
Test Report

委托单位: 江苏亚威变压器有限公司
 Client:

产品名称: 干式变压器
 Name of Product:

产品型号: SCB18-2500/10-NX1
 Product Type:

检验类别: 委托试验
 Test Category:

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实验室名称: 苏州电器科学研究院股份有限公司
 国家电器产品质量检验检测中心
 Lab Name: Suzhou Electrical Apparatus Science Research Institute Co., Ltd. China National Center for Quality Inspection and Test of Electrical Apparatus Products

No. 2181729-S

型式试验报告
Type Test Report

委托单位: 江苏亚威变压器有限公司
 Client:

产品名称: 干式变压器
 Name of Product:

产品型号: SCB18-2500/10-NX1
 Product Type:

检验类别: 型式试验
 Test Category:

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MA 170006221380 CNAS 中国认可 国家质量监督检验检疫总局 批准 TESTING CHAS 611000

实验室名称: 苏州电器科学研究院股份有限公司
国家电器产品质量检验检测中心
Lab Name: Suzhou Electrical Apparatus Science Research Institute Co., Ltd.
China National Center for Quality Inspection and Test of Electrical Apparatus Products

No. 21K2003-S

型式试验报告
Type Test Report

委托单位: 江苏亚威变压器有限公司
Client:

产品名称: 干式变压器
Name of Product:

产品型号: SCB18-300/10-NX1
Product Type:

检验类别: 型式试验
Test Category:

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MA 170006221380 CNAS 中国认可 国家质量监督检验检疫总局 批准 TESTING CHAS 611000

实验室名称: 苏州电器科学研究院股份有限公司
国家电器产品质量检验检测中心
Lab Name: Suzhou Electrical Apparatus Science Research Institute Co., Ltd.
China National Center for Quality Inspection and Test of Electrical Apparatus Products

No. 21K1751-S

型式试验报告
Type Test Report

委托单位: 江苏亚威变压器有限公司
Client:

产品名称: 干式变压器
Name of Product:

产品型号: SCB18-630/10-NX1
Product Type:

检验类别: 型式试验
Test Category:

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MA 170006222878 CNAS 中国认可 国家质量监督检验检疫总局 批准 TESTING CHAS 611000

实验室名称: 国家电器产品质量监督检验中心
Lab Name: China National Center for Quality Supervision and Test of Electrical Apparatus Products

No. 21K0470-S

型式试验报告
Type Test Report

委托单位: 江苏亚威变压器有限公司
Client:

产品名称: 干式变压器
Name of Product:

产品型号: SCB18-100/10-NX1
Product Type:

检验类别: 型式试验
Test Category:

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实验室名称: 苏州电器科学研究院股份有限公司
国家电器产品质量检验检测中心
Lab Name: Suzhou Electrical Apparatus Science Research Institute Co., Ltd.
China National Center for Quality Inspection and Test of Electrical Apparatus Products

No. 21K1753-S

型式试验报告
Type Test Report

委托单位: 江苏亚威变压器有限公司
Client:

产品名称: 干式变压器
Name of Product:

产品型号: SCB18-30/10-NX1
Product Type:

检验类别: 型式试验
Test Category:

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170008222878 170008222878

实验室名称: 国家电器产品质量监督检验中心
Lab Name: China National Center for Quality Supervision and Test of Electrical Apparatus Products

No. 21M1461-S

型式试验报告

Type Test Report

委托单位: 江苏亚威变压器有限公司
Client:

产品名称: 电力变压器
Name of Product:

产品型号: S12-M-2000/10-8X1
Product Type:

检验类别: 型式试验
Test Category:

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国家电器产品质量监督检验中心
Lab Name: Suzhou Electrical Apparatus Science Research Institute Co., Ltd. China National Center for Quality Inspection and Test of Electrical Apparatus Products

No. 22H0691-S

型式试验报告

Type Test Report

委托单位: 江苏亚威变压器有限公司
Client:

产品名称: 干式变压器
Name of Product:

产品型号: SCB18-4000/33
Product Type:

检验类别: 型式试验
Test Category:

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Lab Name: Suzhou Electrical Apparatus Science Research Institute Co., Ltd. China National Center for Quality Inspection and Test of Electrical Apparatus Products

No. 21HJ205-S

型式试验报告

Type Test Report

委托单位: 江苏亚威变压器有限公司
Client:

产品名称: 三相悬挑心配电变压器
Name of Product:

产品型号: S12-M-RL-400/10-8X1
Product Type:

检验类别: 型式试验
Test Category:

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实验室名称: 国家电器产品质量监督检验中心
Lab Name: China National Center for Quality Supervision and Test of Electrical Apparatus Products

No. 21M1461-S

型式试验报告

Type Test Report

委托单位: 江苏亚威变压器有限公司
Client:

产品名称: 电力变压器
Name of Product:

产品型号: S12-M-400/10-8X1
Product Type:

检验类别: 型式试验
Test Category:

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国家电器产品质量检验检测中心
Lab Name: Suzhou Electrical Apparatus Science Research Institute Co., Ltd.
China National Center for Quality Inspection and Test of Electrical Apparatus Products

No 21M5278-S

型式试验报告 Type Test Report

委托单位: 江苏亚威变压器有限公司
Client:

产品名称: 高压并联电容器
Name of Product:

产品型号: S22-M(F)-200/10GZ-KX1
Product Type:

检验类别: 型式试验
Test Category:

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MA AL 170008222878

实验室名称: 国家电器产品质量监督检验中心
Lab Name: China National Center for Quality Supervision and Test of Electrical Apparatus Products

No 21M1059-S

型式试验报告 Type Test Report

委托单位: 江苏亚威变压器有限公司
Client:

产品名称: 电力变压器
Name of Product:

产品型号: S22-M-300/30-KX1
Product Type:

检验类别: 型式试验
Test Category:

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国家电器产品质量检验检测中心
Lab Name: Suzhou Electrical Apparatus Science Research Institute Co., Ltd.
China National Center for Quality Inspection and Test of Electrical Apparatus Products

No 22M409-S

型式试验报告 Type Test Report

委托单位: 江苏亚威变压器有限公司
Client:

产品名称: 非晶合金干式配电变压器
Name of Product:

产品型号: SCBH19-2000/10-KX1
Product Type:

检验类别: 型式试验
Test Category:

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国家电器产品质量检验检测中心
Lab Name: Suzhou Electrical Apparatus Science Research Institute Co., Ltd.
China National Center for Quality Inspection and Test of Electrical Apparatus Products

No 22M407-S

型式试验报告 Type Test Report

委托单位: 江苏亚威变压器有限公司
Client:

产品名称: 非晶合金干式配电变压器
Name of Product:

产品型号: SCBH19-500/10-KX1
Product Type:

检验类别: 型式试验
Test Category:

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 Lab Name: Suzhou Electrical Apparatus Science Research Institute Co., Ltd.
 China National Center for Quality Inspection and Test of Electrical Apparatus Products

No. J110993-S

型式试验报告

Type Test Report

委托单位: 江苏亚威变压器有限公司
 Client:
 产品名称: 非晶立体卷铁心配电变压器
 Name of Product:
 产品型号: SZBH25-M-XL-630/10
 Product Type:
 检验类别: 型式试验
 Test Category:

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实验室名称: 国家电器产品质量监督检验中心
 Lab Name: China National Center for Quality Supervision and Test of Electrical Apparatus Products

No. 2181028-S

型式试验报告

Type Test Report

委托单位: 江苏亚威变压器有限公司
 Client:
 产品名称: 干式变压器
 Name of Product:
 产品型号: SCB14-2500/10-XX2
 Product Type:
 检验类别: 型式试验
 Test Category:

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 Lab Name: Suzhou Electrical Apparatus Science Research Institute Co., Ltd.
 China National Center for Quality Inspection and Test of Electrical Apparatus Products

No. 2250648-S

型式试验报告

Type Test Report

委托单位: 江苏亚威变压器有限公司
 Client:
 产品名称: 干式变压器
 Name of Product:
 产品型号: S1314-1000/10-XX2
 Product Type:
 检验类别: 型式试验
 Test Category:

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 国家电器产品质量检验检测中心
 Lab Name: Suzhou Electrical Apparatus Science Research Institute Co., Ltd.
 China National Center for Quality Inspection and Test of Electrical Apparatus Products

No. 2250645-S

型式试验报告

Type Test Report

委托单位: 江苏亚威变压器有限公司
 Client:
 产品名称: 干式变压器
 Name of Product:
 产品型号: SCB14-800/10-XX2
 Product Type:
 检验类别: 型式试验
 Test Category:

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Lab Name: Suzhou Electrical Apparatus Science Research Institute Co., Ltd.
China National Center for Quality Inspection and Test of Electrical Apparatus Products

No. 22N0644-S

型式试验报告
Type Test Report

委托单位: 江苏亚威变压器有限公司
Client:

产品名称: 干式变压器
Name of Product:

产品型号: SCB14-630/10-NX2
Product Type:

检验类别: 型式试验
Test Category:

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MA AL 170008222678

实验室名称: 国家电器产品质量监督检验中心
Lab Name: China National Center for Quality Supervision and Test of Electrical Apparatus Products

No. 21N1934-S

型式试验报告
Type Test Report

委托单位: 江苏亚威变压器有限公司
Client:

产品名称: 电力变压器
Name of Product:

产品型号: S20-M-1000/10-NX2
Product Type:

检验类别: 型式试验
Test Category:

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实验室名称: 苏州电器科学研究院股份有限公司
国家电器产品质量检验检测中心
Lab Name: Suzhou Electrical Apparatus Science Research Institute Co., Ltd.
China National Center for Quality Inspection and Test of Electrical Apparatus Products

No. 22N0815-S

型式试验报告
Type Test Report

委托单位: 江苏亚威变压器有限公司
Client:

产品名称: 电力变压器
Name of Product:

产品型号: S20-M-630/10-NX2
Product Type:

检验类别: 型式试验
Test Category:

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实验室名称: 苏州电器科学研究院股份有限公司
国家电器产品质量检验检测中心
Lab Name: Suzhou Electrical Apparatus Science Research Institute Co., Ltd.
China National Center for Quality Inspection and Test of Electrical Apparatus Products

No. 22M0815-S

型式试验报告
Type Test Report

委托单位: 江苏亚威变压器有限公司
Client:

产品名称: 电力变压器
Name of Product:

产品型号: S20-M-630/10-NX2
Product Type:

检验类别: 型式试验
Test Category:

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检测
TESTING
CNAS L0107

检验报告
TEST REPORT

样品名称: 风冷组合式变压器

型号: ZGS11-2.4-330V/33

委托单位: 江苏亚威变压器有限公司

试验类别: 型式试验

国家高低压电器质量监督检验中心
National High-Low Voltage Electrical Apparatus Quality Supervision and Inspection Center

甘肃电器科学研究院
Gansu Electric Apparatus Research Institute

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TESTING
CNAS L0107

检验报告
TEST REPORT

样品名称: 高压/低压预装式变电站

型号: YB□-12/0.4-1250

委托单位: 江苏亚威变压器有限公司

试验类别: 型式试验

国家高低压电器质量监督检验中心
National High-Low Voltage Electrical Apparatus Quality Supervision and Inspection Center

甘肃电器科学研究院
Gansu Electric Apparatus Research Institute

MA 1700062224578

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国际互认
检测
TESTING
CNAS L0105

实验室名称: 国家电器产品质量监督检验中心
Lab Name: China National Center for Quality Supervision and Test of Electrical Apparatus Products

No. 19XB0093-S

检验 (试验) 报告
Test Report

委托单位: 江苏亚威变压器有限公司
Client:

产品名称: 高压/低压预装式变电站
Name of Product:

产品型号: YB□-12/0.4-1250
Product Type:

检验类别: 型式试验
Test Category:

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实验室名称: 苏州电器科学研究院股份有限公司
国家电器产品质量检验检测中心
Lab Name: Suzhou Electrical Apparatus Science Research Institute Co., Ltd.
China National Center for Quality Inspection and Test of Electrical Apparatus Products

No. 21XB0662-S

型式试验报告
Type Test Report

委托单位: 江苏亚威变压器有限公司
Client:

产品名称: 高压/低压预装式变电站
Name of Product:

产品型号: YB□-12/0.4-1250
Product Type:

检验类别: 型式试验
Test Category:

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型式试验报告

TEST REPORT

样品名称: 预装柜埋式变电站

型号: YB0-12/0.4-630

委托单位: 江苏亚威变压器有限公司

试验类别: 型式试验

国家高低压电器质量监督检验中心
National High-low Voltage Electrical Apparatus Quality Supervision and Inspection Center

MA 170006221360

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CNAS L0108

型式试验报告

Type Test Report

实验室名称: 苏州电器科学研究院股份有限公司
国家电器产品质量检验检测中心

Lab Name: Suzhou Electrical Apparatus Science Research Institute Co., Ltd.
China National Center for Quality Inspection and Test of Electrical Apparatus Products

委托单位: 江苏亚威变压器有限公司

Client:

产品名称: 预装柜埋式变电站

Name of Product:

产品型号: YB0-12/0.4-630

Product Type:

试验类别: 型式试验

Test Category:

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检验(试验)报告

Test Report

实验室名称: 国家电器产品质量监督检验中心

Lab Name: China National Center for Quality Supervision and Test of Electrical Apparatus Products

委托单位: 江苏亚威变压器有限公司

Client:

产品名称: 树脂浇注干式接地变压器

Name of Product:

产品型号: DRSC-1000/38.5-400/0.4

Product Type:

试验类别: 委托试验

Test Category:

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检验(试验)报告

Test Report

实验室名称: 国家电器产品质量监督检验中心

Lab Name: China National Center for Quality Supervision and Test of Electrical Apparatus Products

委托单位: 江苏亚威变压器有限公司

Client:

产品名称: 树脂浇注干式接地变压器

Name of Product:

产品型号: DRSC-3300/38.5-400/0.4

Product Type:

试验类别: 委托试验

Test Category:

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实验室名称: 国家电器产品质量监督检验中心
 Lab Name: China National Center for Quality Supervision and Test of Electrical Apparatus Products

No. 19X10299-S

检验 (试验) 报告 Test Report

委托单位: 江苏亚威变压器有限公司
 Client:

产品名称: 树脂浇注干式消弧线圈
 Name of Product:

产品型号: XHDCZ-630/3X.9
 Product Type:

检验类别: 委托试验
 Test Category:

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No. XG20031353

检 验 报 告 TEST REPORT

样品名称: 电力变压器
 Sample Name:

型 号: SCB13-20000/35
 Model:

委托单位: 江苏亚威变压器有限公司
 Client:

试验类别: 型式试验
 Test Category:



国家高低压电器质量监督检验中心
 National High-Low Voltage Electrical Apparatus Quality Supervision and Inspection Center
 甘肃电器科学研究院
 Gansu Electric Apparatus Research Institute



实验室名称: 国家电器产品质量监督检验中心
 Lab Name: China National Center for Quality Supervision and Test of Electrical Apparatus Products

No. 21X0158-S

型式试验报告 Type Test Report

委托单位: 江苏亚威变压器有限公司
 Client:

产品名称: 干式电力变压器
 Name of Product:

产品型号: SCB13-1000/10
 Product Type:

检验类别: 型式试验
 Test Category:

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实验室名称: 国家电器产品质量监督检验中心
 Lab Name: China National Center for Quality Supervision and Test of Electrical Apparatus Products

No. 19X1394-S

型式试验报告 Type Test Report

委托单位: 江苏亚威变压器有限公司
 Client:

产品名称: 干式变压器
 Name of Product:

产品型号: SCB13-400/10
 Product Type:

检验类别: 委托试验
 Test Category:

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实验室名称: 国家电器产品质量监督检验中心
Lab Name: China National Center for Quality Supervision and Test of Electrical Apparatus Products

No. 2081162-S

型式试验报告
Type Test Report

委托单位: 江苏亚威变压器有限公司
Client:

产品名称: 干式变压器
Name of Product:

产品型号: SCB12-4000/20
Product Type:

检验类别: 委托试验
Test Category:

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实验室名称: 国家电器产品质量监督检验中心
Lab Name: China National Center for Quality Supervision and Test of Electrical Apparatus Products

No. 1980147-S

型式试验报告
Type Test Report

委托单位: 江苏亚威变压器有限公司
Client:

产品名称: 干式变压器
Name of Product:

产品型号: SCB12-1000/20
Product Type:

检验类别: 委托试验
Test Category:

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实验室名称: 国家电器产品质量监督检验中心
Lab Name: China National Center for Quality Supervision and Test of Electrical Apparatus Products

No. 19X0234-S

检验(试验)报告
Test Report

委托单位: 江苏亚威变压器有限公司
Client:

产品名称: 干式电力变压器
Name of Product:

产品型号: SCB12-1000/10
Product Type:

检验类别: 委托试验
Test Category:

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实验室名称: 国家电器产品质量监督检验中心
Lab Name: China National Center for Quality Supervision and Test of Electrical Apparatus Products

No. 19X0188-S

型式试验报告
Type Test Report

委托单位: 江苏亚威变压器有限公司
Client:

产品名称: 干式变压器
Name of Product:

产品型号: SCB12-1000/10-MX1
Product Type:

检验类别: 委托试验
Test Category:

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170005222678

实验室名称：国家电器产品质量监督检验中心
Lab Name: China National Center for Quality Supervision
and Test of Electrical Apparatus Products

No. 1990199-S

型式试验报告 Type Test Report

委托单位：江苏亚威变压器有限公司
Client:

产品名称：干式变压器
Name of Product:

产品型号：SCB12-1000/10-XX1
Product Type:

检验类别：型式试验
Test Category:

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170005222678

实验室名称：国家电器产品质量监督检验中心
Lab Name: China National Center for Quality Supervision
and Test of Electrical Apparatus Products

No. 1990199-S

型式试验报告 Type Test Report

委托单位：江苏亚威变压器有限公司
Client:

产品名称：干式变压器
Name of Product:

产品型号：SCB12-630/10-XX1
Product Type:

检验类别：型式试验
Test Category:

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实验室名称：国家电器产品质量监督检验中心
Lab Name: China National Center for Quality Supervision
and Test of Electrical Apparatus Products

No. 1993425-S

型式试验报告 Type Test Report

委托单位：江苏亚威变压器有限公司
Client:

产品名称：干式变压器
Name of Product:

产品型号：SCB12-400/10
Product Type:

检验类别：型式试验
Test Category:

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实验室名称：国家电器产品质量监督检验中心
Lab Name: China National Center for Quality Supervision
and Test of Electrical Apparatus Products

No. AK1300471-2021

检验报告 TEST REPORT

样品名称：电力变压器

型号规格：S13-M-2500/10 2500kVA

委托单位：江苏亚威变压器有限公司

检验类别：型式试验

国家节能产品质量监督检验中心
National Supervision and Inspection Center for Energy-saving Product Quality
(山东省产品质量检验研究院)



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实验室名称: 国家电器产品质量监督检验中心
Lab Name: China National Center for Quality Supervision and Test of Electrical Apparatus Products

No. 13W0202-S

型式试验报告 Type Test Report

委托单位: 江苏亚威变压器有限公司
Client:

产品名称: 油浸式电力变压器
Name of Product:

产品型号: S11-M-800/10
Product Type:

检验类别: 委托试验
Test Category:

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实验室名称: 国家电器产品质量监督检验中心
Lab Name: China National Center for Quality Supervision and Test of Electrical Apparatus Products

检验报告 TEST REPORT

委托单位: 江苏亚威变压器有限公司
Client:

产品名称: 电力变压器
Name of Product:

产品型号: S11-M-800/10 630KVA
Product Type:

检验类别: 型式试验
Test Category:

国家节能产品质量监督检验中心
National Energy-saving Product Quality Supervision and Test Center

MA AL CNAS 170008222878

实验室名称: 国家电器产品质量监督检验中心
Lab Name: China National Center for Quality Supervision and Test of Electrical Apparatus Products

No. 18W0446-S

型式试验报告 Type Test Report

委托单位: 江苏亚威变压器有限公司
Client:

产品名称: 油浸式电力变压器
Name of Product:

产品型号: S11-M-315/10
Product Type:

检验类别: 委托试验
Test Category:

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MA AL CNAS 170008222878

实验室名称: 国家电器产品质量监督检验中心
Lab Name: China National Center for Quality Supervision and Test of Electrical Apparatus Products

No. 19W0007-S

型式试验报告 Type Test Report

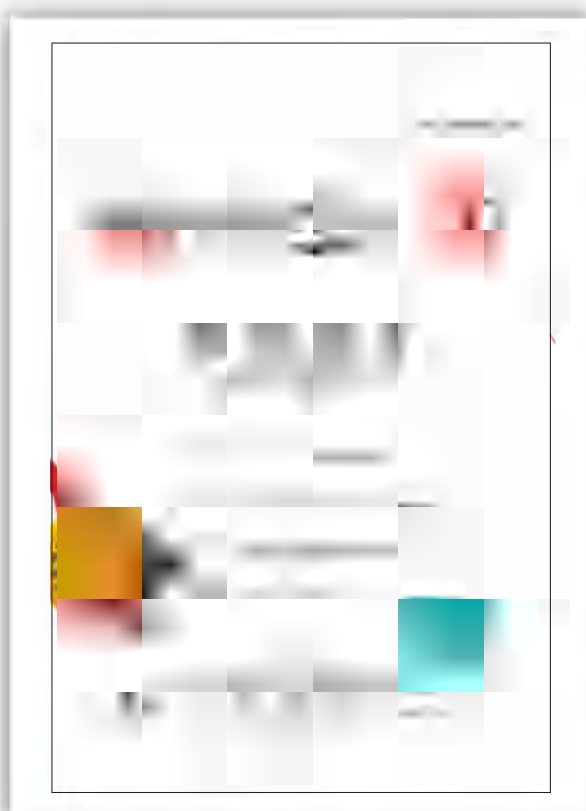
委托单位: 江苏亚威变压器有限公司
Client:

产品名称: 干式电力变压器
Name of Product:

产品型号: SCB11-2000/10
Product Type:

检验类别: 委托试验
Test Category:

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> 主要业绩



国家电网



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三峡水利电力



中国华电



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中国化学三建



上海电气



中国航天



中粮集团



中国中材



一重集团



中国重机



太原重工



新疆生产建设兵团



紫金矿业



铜陵有色金属



鞍钢集团



河北钢铁集团



柳州钢铁



莱钢集团



中国南水北调工程



山西焦煤



齐鲁制药



山东魏桥铝电



新洋丰农肥



中联水泥



海螺集团



甘肃祁连山水泥



海亮铜业



理文纸业



君正化工



华晨汽车



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南昌航空大学



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武汉理工大学



南京农业大学



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红星美凯龙



浙江中国轻纺城



金海船舶



小糊涂仙酒



达利园食品



贵州老干妈



旭阳化工



晨光生物科技



海宝电池



古越龙山股份



伊利集团



红豆集团



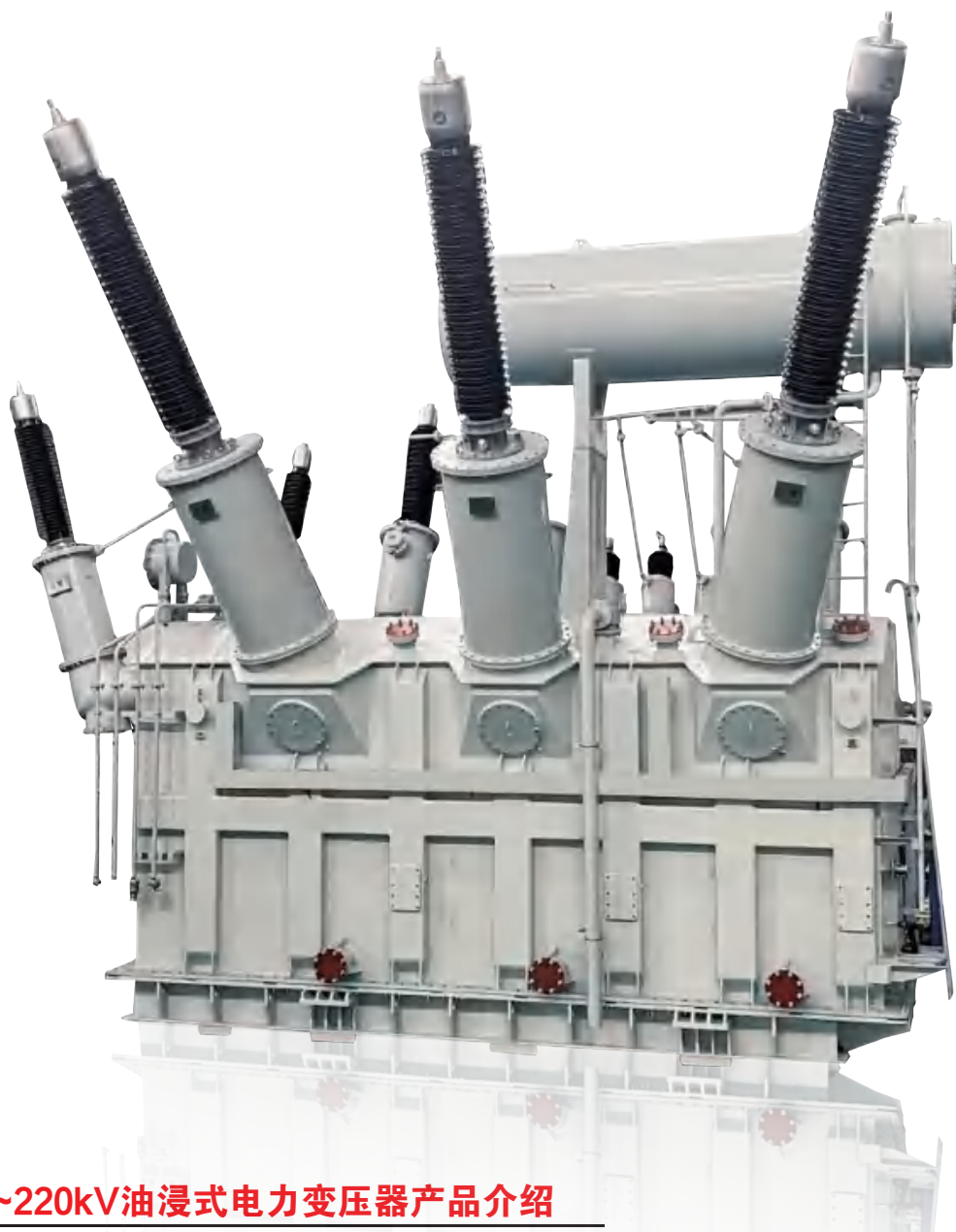
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110kV~220kV Oil-immersed Power Transformer

油浸式电力变压器



110kV~220kV油浸式电力变压器产品介绍

- 1、超高压变压器，利用日本东芝的分析软件和本公司特有的计算和验证程序，对变压器铁心、线圈、器身、引线、油箱等部件进行全方位的优化设计及验证，确保产品性能。优越的工艺设备、精心的材料选取、高效的生产制造，使得变压器具有体积小、重量轻、低损耗、低局放、低噪音等特点，产品品质优越、节能环保、安装维护万便，运行可靠并有效地降低了产品运行费用。
- 2、本公司产品SSZ11- 40000/110通过国家变压器质量监督检验中心短路承受能力及所有例行型式试验。
- 3、本产品具有稳定、信赖、经济、环保的特点，适用于发电厂、变电站、大型工矿石化企业等。

110kV~220kV Oil-immersed Power Transformer Product Introduction

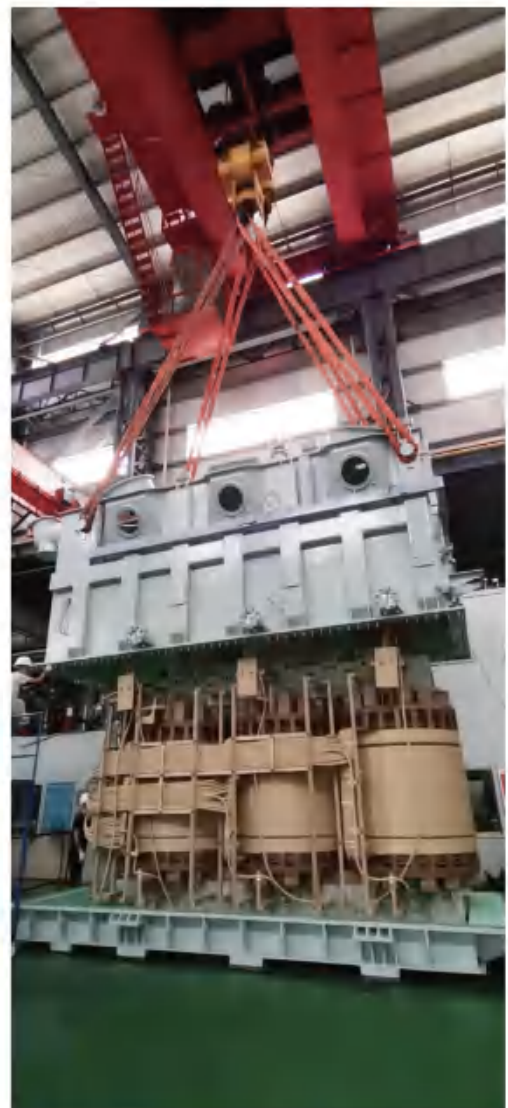
1. High pressure transformer, use Japanese Toshiba analysis software and our company special calculation and validation procedures to the transformer core, winding, implement body, lead, fuel tanks, etc, Parts of the optimal design and carry on the omni-directional validation, ensure product performance. Superior process equipment, elaborate material selecting and efficient manufacturing, making the transformer has small volume, light weight, low loss, low partial discharge, low noise characteristics, the product quality is superior, energy conservation and environmental protection, easy installation and maintenance, reliable operation and effectively reduced products running costs.
- 2, the company product SSZ11 - 40,000/110 through national transformer quality supervision and inspection center short-circuit withstand ability and all type test routine.
- 3, this product is stable, reliable, economic, environmental protection, applicable to the characteristics of generator, transformer substation, large mining petrochemical enterprise etc.





亚威变压器
YAWEI TRANSFORMER

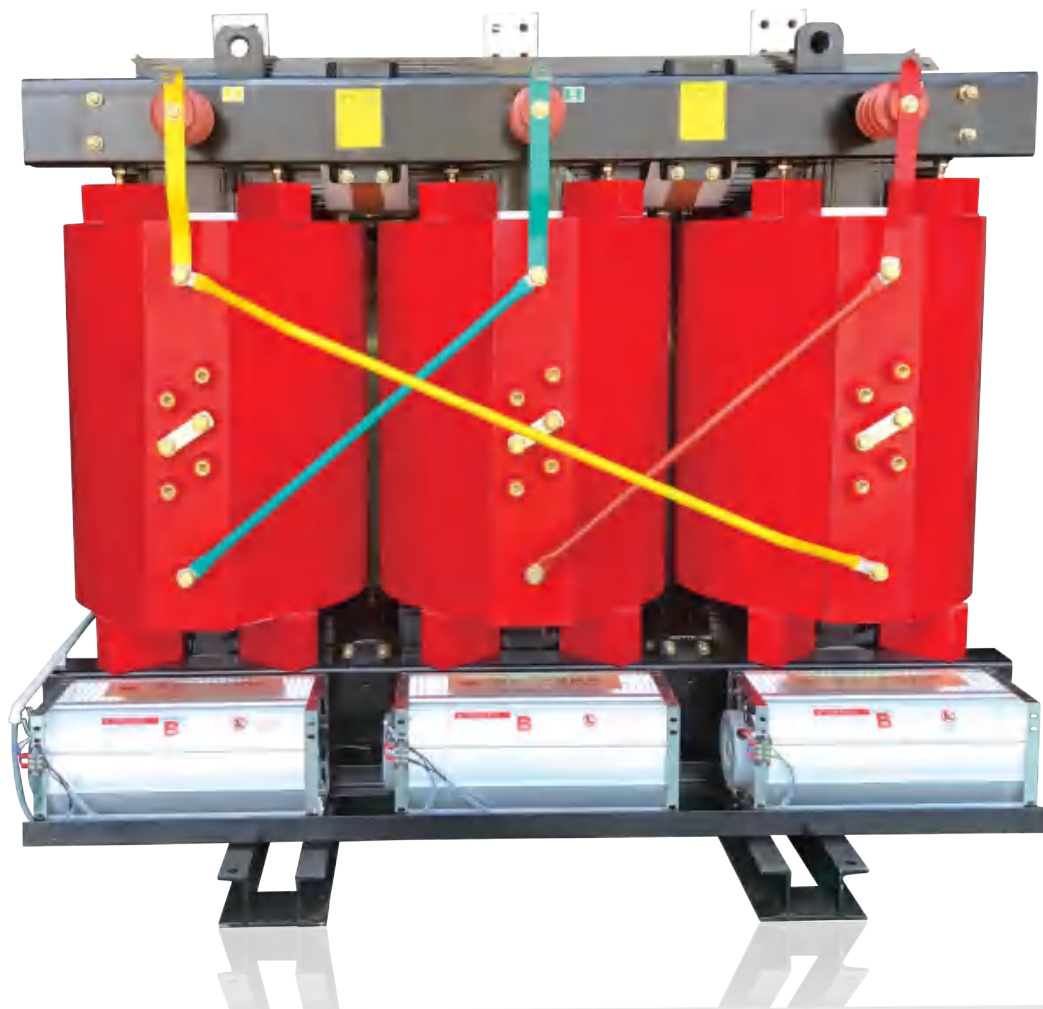
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SCB11、SCB12、SCB13、SCB14、SCB18

Epoxy-resin Insulation Dry-type Transformer

20kV及以下树脂绝缘干式电力变压器



SCB11、SCB12、SCB13、SCB14、SCB18系列 树脂绝缘干式电力变压器产品特点

安全，难燃防火，无污染，可直接安装在负荷中心。

免维修、安装简便、综合运行成本低。

防潮性能好，可在100%湿度下正常运行，停运后不经预干燥即可投入运行。

损耗低，局部放电量低、噪音小、散热能力强，强迫风冷条件下可以150%额定负载运行。

配备有完善的温度保护控制系统，为变压器安全运行提供可靠保障。

可靠性高，据对已经投入运行的产品的运行研究，产品的可靠性指标已经达到国际先进水平。



SCB11、SCB12、SCB13、SCB14、SCB18 Series epoxy-resin insulation dry-type transformer Product Features

Security, flame retardant fire prevention, no pollution, can directly mounted in load center.

Maintenance free, easy installation, integrated operation cost is low.

Moistureproof performance is good, can be in 100% humidity, after the normal operation of the action can be put into operation gets.

Dry Low df, local put power, low noise is small, cooling ability, forced air cooling conditions can be rated load operation 150%.

Equipped with perfect temperature protection control system for transformsr, provide a reliable guarantee safe operation.

High reliability, according to the product to have already been put into operation, the operation reliability of products has reached the Inkrnational advanced level.

SCB11、SCB12、SCB13、SCB14、SCB18

系列树脂绝缘干式电力变压器结构特点

箱式线圈: 低压绕组采用整段铜箔, 连同F级的匝绝缘在专用低压箔绕机上绕制。箔式线圈较好地解决了低电压, 大电流线圈绕产品短路应力大, 安匝不平衡, 散热效果差, 存在绕制螺旋角, 人工焊接质量不稳定等突出问题。同时我公司绕组端部用树脂灌封, 固化成形, 防潮防污。引线铜排经氩弧焊自动焊接。

温控装置: 变压器采用BWDK系列信号温度计, 测温元件埋设在低压线圈上半部, 可自动检测并巡回显示相线圈各自的工作温度, 并且有超温报警和跳闸功能。

SCB11、SCB12、SCB13、SCB14、SCB18

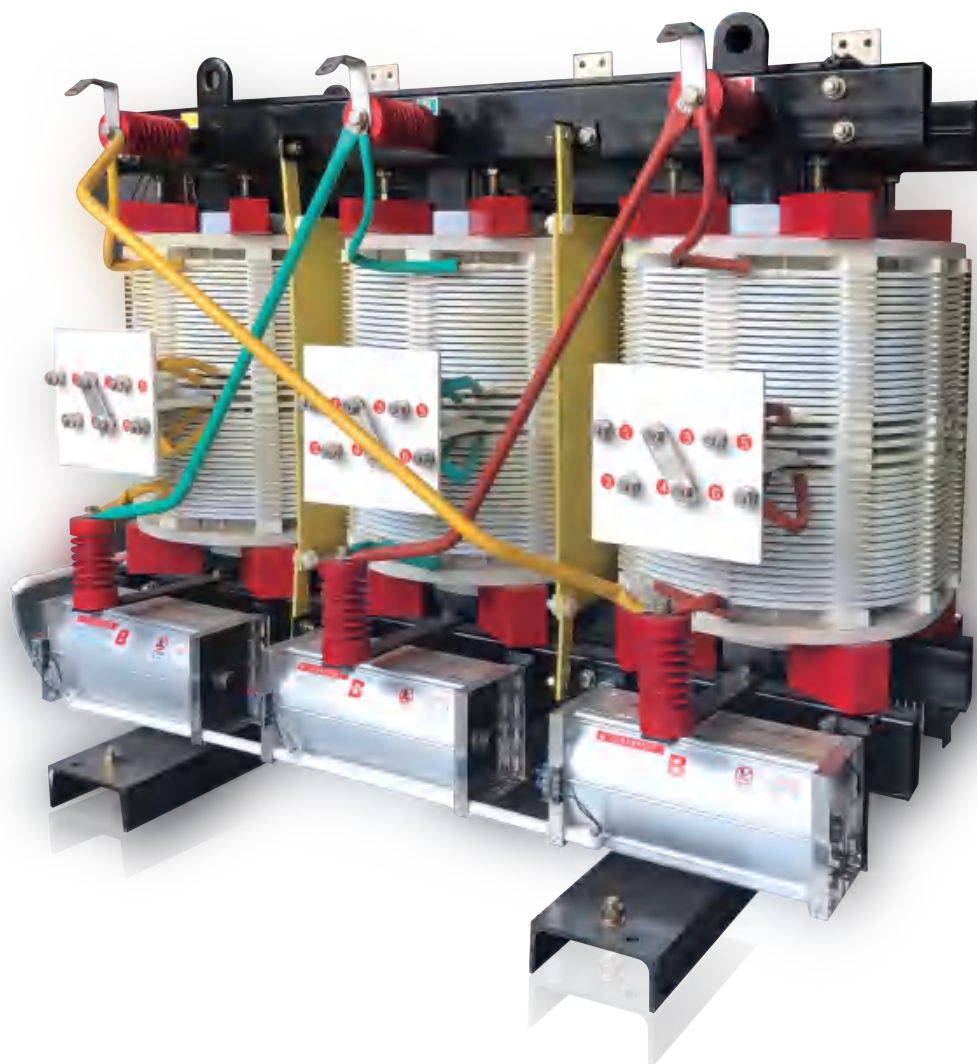
series epoxy-resin insulation dry-type transformer Structure characteristics

Box coil: low voltage winding adopts segmental copper foil, along with F grade in the low-pressure foil insulation turns on special around around the system. Foil type coils has solved the low voltage, large current coil short-circuit stress around the product, Ann circle imbalance, cooling effect is poor, exist around the system spiral Angle, artificially welding quality unstable outstanding problems. At the same time I company winding ends potting with resin, curing forming, moistureproof antifouling. Fuses copper platoon diameter argon arc welding automatic welding.

Temperature control device: transformer USES BWDK series temperature sensor signal thermometer, buried in the low-pressure coil, upper automatic detection and touring show phase of their respective working temperature coil and overtemperature alarm and tripped function.



SG(B)11~18 Un-packed H Grede Dry Transformer 非包封H级干式电力变压器



SG(B)11~18系列非包封H级干式电力变压器产品介绍

SGB系列非包封 H 级干式变压器采用 (德国) MORA 干式变压器特殊的工艺技术, 使产品完全达到防火防水及符合环境保护的要求。它是配电系统的理想产品, 被广泛应用在地铁、船舶、矿山、化工、电力企业及人员密集的建筑群等各种对安全防火有特殊要求的场合。

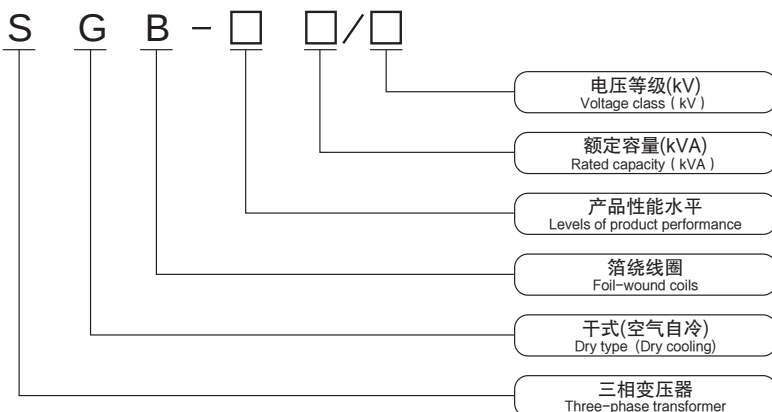
SG(B)11~18 Series Un-packed H Grede Dry Transformer Product Introduction

SGB series the encapsulation H level dry type transformer adopt (Germany) MORA dry type transformer special technology, make products fully meet the fire waterproof and meet the requirements of environment protection. It is the ideal product distribution system, widely used in the subway, ships, mining, chemical, electric power enterprise and staff of dense buildings, etc. Various kinds of fire safety have special requirements occasion.



型号及含义

Transformer Model Description



SG(B)系列非包封H级干式电力变压器性能特点

1. 散热条件好，热寿命长，过负荷能力极强，在120%长期过负荷、IP45条件下无强迫风冷，可长期满负荷运行。
2. 极高的安全及阻燃性能，在800℃高温长时燃烧下无烟雾产生。
3. 极强的抗热击能力(可以在-50℃下立即加满负荷)。
4. 百分百防水密封性，优异的憎水性、防潮性。
5. 独特的线圈结构和强场计算，使产品几乎无局放产生。
6. 损耗低，节能效果显著，与SC9系列干式变压器相比空载损耗平均下降10%，负载损耗下降5%。
7. 寿命期后可轻易将绝缘材料和铜线分离回收利用，不污染环境。

SG(B)11 Series Un-packed H Grede Dry Transformer Performance characteristics

1. Heat condition is good. hot long life, strong ability of self-learning, over load in over load, IP45 120% long-term conditions without forced air cooling, can long-term full load operation.
2. High security and flame retardant performance °C high temperature, at 800 when combustion without smoke long production.
3. Strong resistance to strike capability in-50°C (can immediately add full load).
4. 100% waterproof sealing, excellent hydrophobic, moistureproof sex.
5. Unique coil structure and strong field calculation, make products produced almost no partial discharge.
6. Low loss, remarkable energy saving, and has developed SC9 series dry type transformer 10% lower than average no-load loss, load loss by 5 per cent.
7. After life cycle can easily will insulating materials and copper separation recycling, not pollute the environment.

SG(B)系列非包封H级干式电力变压器结构特点

1. 独特的瓷绝缘结构，采用MORA公司绝缘筒和高频陶瓷垫块，永不变形。
2. 高、低线圈先用NOMEX绝缘材料，并经VIP真空加压设备多次浸渍特殊配方的H级绝缘，多次烘焙以后，外用高强度绝缘材料密封，并高温固化。高压线圈采用机械强度高，散热条件好的连续式结构。
3. 铁芯采用进口优质高导磁性能硅钢片叠装而成，步进式45°全斜结构，绕组与铁芯采用弹性固定装置，使变压器具有较低的空载损耗和噪音。铁芯表面经特殊工艺处理。铁芯由拉螺杆适度夹紧、上、下夹件由拉板连接并与底座，绕组固定为一体，绕组通过弹性垫块固定，缓冲结构可减轻绕组的震动强度和降低噪音。
4. 引出线端子固定在绕组上部，分接头在绕组中部，低压线端子为板式导电排，并采用冷压焊。

SG(B)11 Series Un—packede H Grede Dry Transformer Structure characteristics

1. The unique porcelain insulation structure, adopt MORA company insulation and high frequency ceramic cylinder cushion block, never deformation.
2. High and low coil NOMEX insulating materials with first, and approved by VIP vacuum pressure equipment repeatedly dipping special formula, and many insulation class H, external use high strength after roasting insulation material, and high temperature curing sealed. High-pressure coil adopts high mechanical strength, thermal conditions good continuous type structure.
3. Core impored superior high performance magnetic eduction line of outfit and become, stepping type 45° full inclined structure, winding and core using elastic fixtures, make transformer has low no-load loss and noise. After the special craft processing core surface. By pull iron screw moderate clamping, up, or down clip pieces from pull motherboard connections with base, winding and for one, the winding through fixed elastic cushion block fixed, buffer structure can reduce the vibration intensity and reduce windings noises.
4. Lead outlet terminals fixed in winding, points joints in winding upper DiYaXian terminals for board type central, conductive row, and cold-pressing welding.





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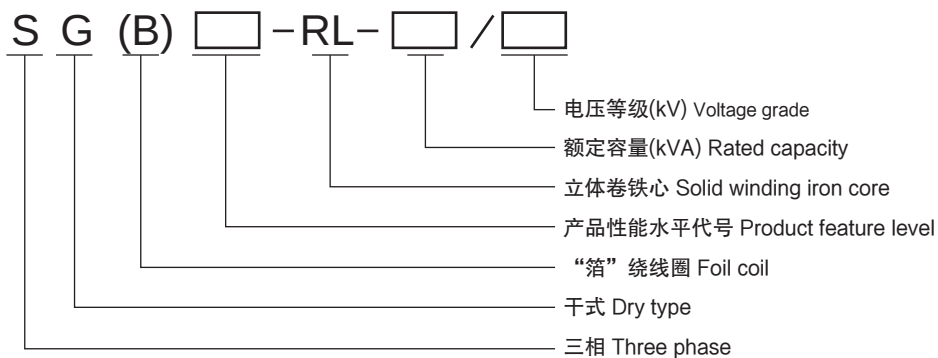
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SGB立体卷铁心变压器

SGB SOLID WINDING IRON CORE TRANSFORMER



型号说明 Transformer Model Description



产品结构特性 Product structure characteristics

(1)铁心 Iron core

立体卷铁心变压器关键部件是立体卷绕式铁心，整个铁心由三个完全相同的单框拼合而成，呈等边三角形立体排列，每个单框由若干根梯形料带依次连续卷绕而成，卷绕后单框横截面接近半圆形，拼合后横截面呈非常接近整圆形的准多边形。整个磁路中卷绕紧密，无空气隙，硅钢带高导磁方向和磁路方向完全一致，磁阻小，三相磁路长短一致，从而使三相平衡，减少变压器三次谐波等，节省材料提高性能降低损耗，降低空载电流，降低运行噪音等这些优点。

(2)线圈

低压绕组采用双层圆筒式或箔绕制，立体三角形低压出线平衡。高压绕组采用连续式结构，高压线圈与空气的接触面大，散热通风性能好。

(3)底座

根据用户要求配底座槽钢或小车。

(4)接线端子

低压接线采用带接线孔的镀锡铜排焊接在线圈端部，并用绝缘子固定在夹件上，方便接线，高压接线端子采用预埋铜螺母联接。

(5)防护等级

IP00不配防护外壳，适用于箱式电站、配电柜等；IP20配金属网防护外壳，可防12mm异物进入，适用于室内安装；IP23配百叶窗式防护外壳，可防雨雪、昆虫等、但此类外壳使用时应降低5%容量使用。

(6)变压器冷却方式

125kVA及以下容量变压器一般为空气自冷（AN），此时可连续输出100%额定容量。160kVA及以上容量变压器采用风冷方式（AF），在一定容量下可不开启风机，超过额定容量70%时应启动冷却风机。

(7)温控

采用自动温度控制保护系统，根据用户要求，可实现温度显示、巡回检测、启停风机、超温报警、跳闸、计算机通讯接口等功能。



(1) Iron core

Key part of solid winding iron core transformer is solid winding iron core. The entire core is pieced by three completely same single frames, arranged in an equilateral triangle. Each single frame is continuously wound by numbers of trapezoid strips, the intersecting surface of the wound single frame looks like semicircle, the pieced intersecting surface of three single frames is a quasi-polygon which looks quite like an entire circle. The entire magnetic circuit winds tightly, void-free. High magnetic direction of silicon strip is completely same with the magnetic circuit direction, small magnetic resistance. Three phase magnetic circuit are same in length, thus the three phase are balanced, can reduce the transformer third harmonic etc., save material, improve performance, reduce loss, no-load current and operation noise etc.

(2) Coil

Low voltage coil adopts double cylinder or foil winding, solid triangle low voltage balanced outlet. High voltage winding adopts continuous structure, has big air contact area and good thermal ventilation performance.

(3) Base

According to users' requirements, base steel channel or trolley is equipped.

(4) Terminal

Low voltage connection adopts nickel plated steel with connection holes welded to coil terminal, fix to the clamps by insulator, convenient to connect; high voltage terminal adopts pre-buried copper nut coupling.

(5) IP grade

IP00 is not equipped with protective cover, suitable for box power station, and power distribution cabinet etc.; IP20 is equipped with metal mesh protective cover, can protect 12mm foreign matter from entering, and installed inside. IP23 is equipped with louver protective cover, can protect from rain, snow and insects etc., but need to reduce 5% of the capacity when using this kind of cover.

(6) Transformer cooling method

For transformers whose capacity is 125kVA and less than 125Kva, cooling method is AN, can output 100% rated capacity continuously meanwhile. For transformers whose capacity is 160kVA and more than 160Kva, cooling method is AF, may not open draught fan under certain capacity, but when more than 70% of the rated capacity, need to open the draught fan.

(7) Temperature control

Automatic temperature control system is used, features like temperature display, data scanning, open and close draught fan, over temperature alarm, hopscotch, computer communication interface etc. can be realized according to users' requirement.



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SCB立体卷铁心变压器

SCB SOLID WINDING IRON CORE TRANSFORMER



型号说明 Transformer Model Description

S C (B) □ - RL - □ / □

电压等级(kV) Voltage grade

额定容量(kVA) Rated capacity

立体卷铁心 Solid winding iron core

产品性能水平代号 Product feature level

铜“箔”线圈

“成型”固体浇注

三相 Three phase

产品用途 Product use

该产品绝缘性能好，机械强度高，耐潮湿，无污染，易安装，基本不需要维护。适用于高层建筑、风力发电、太阳新能源、医院、宾馆、隧道、车站、码头、机场、地铁、石油、化工、试验室、组合电站、购物中心等重要场所。

The product has the following features: good insulation properties, high mechanical strength, moisture resistant, pollution-free, easy to install, and almost no need for maintenance. Can be applied for high rise buildings, wind power generation, solar energy, hospital, hotel, tunnel, station, wharf, airport, subway, petroleum, chemical industry, laboratory, combined power plant, shopping mall and other important places etc.

产品使用条件 Product usege conditions

(1).海拔高度

1000米及以下;

(2).冷却空气温度

最高气温: 40°C

最热月平均温度: 30°C

最高年平均温度: 20°C

最低气温: -25°C (适用于户外式变压器)

最低气温: -5°C (适用于户内式变压器)

(3).湿度

周围空气相对湿度应低于93%，线圈表面不应出现水滴。

如使用条件超出上述要求时，应对运行参数（如输出电流等）进行适当调整并采取适当保护措施以保证产品运行寿命和安全可靠性。

(1).Altitude

Not more than 1000m;

(2).Cooling air temperature

Max. Temp.: 40°C

Max. monthly mean temp.: 30°C

Max. annual mean temp.: 20°C

lowest temp.: -25°C (suitable for outdoor transformer)

lowest temp.: -5°C (suitable for indoor transformer)

(3).Humidity

Ambient air relative humidity should be less than 93%, no water drop on the coil surface. If usage condition exceeds above requirements, should adjust running parameters (e.g. output current etc.) properly and adopt proper protecting measures to ensure the product service life and safety reliability.



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SCB11、SCB12~18

Epoxy-resin Insulation Dry-type Transformer

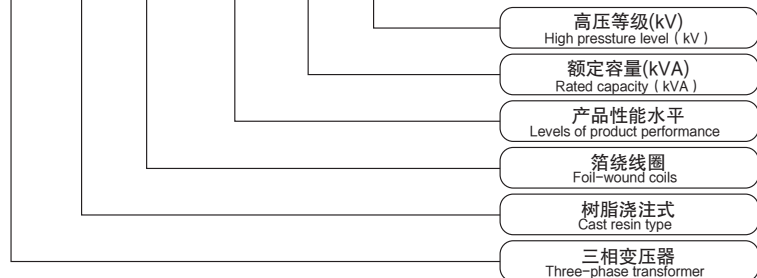
35kV树脂绝缘干式电力变压器



型号及含义

Transformer Model Description

S C B - □ □ / □

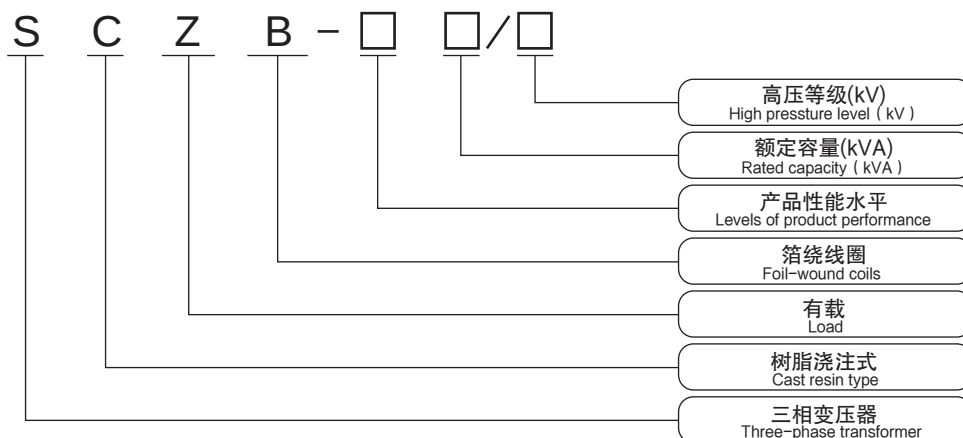


SCZB11~18 Load Voltage Dry-type Power Transformer 有载调压干式电力变压器



型号及含义

Transformer Model Description





SCB11 Load Voltage Dry-type Power Transformer

35KV及以下光伏发电项目双分裂干式变压器

太阳能光伏发电用干式变压器的结构设计

太阳能光伏用干式变压器可分为10kV级产品和35kV级产品。

10kV级产品由于电压适中，绝缘结构较容易处理故我公司在制作时按照传统的双绕组双分裂结构设计，两组低压线圈轴向分裂，两组高压线圈轴向排布，浇注时两组线圈浇注成一个线圈，电气上两组线圈并联统一引出。

35kV级产品由于电压较高，为了保证线圈具有良好的电气性能，如局部放电量，雷电冲击性能等，我公司在做设计时对低压线圈进行了特殊结构处理(目前公司已就相关结构申请专利)，按照我公司低压线圈结构处理后，高压线圈可做成一个线圈，减少了高压线圈匝数，故高压线圈段数和层数均随之减少，线圈内部电场分布更加均匀。

Solar PV for dry-type transformers can be divided into 10kV and 35kV grade product.

Moderate voltage 10kV products, easier to handle, therefore I am companies in the production of insulation structure in accordance with the traditional double-winding two-Division structure design, low voltage winding axial split the two groups, two sets of high-tension coil axially arranged, pouring two coils when pouring into a coil, two sets of coils on the electrical shunt unified lead-out.

35kV level products due to voltage high, to guarantee coil has good of electrical performance, as local put power, lightning impact performance,, I company in do design Shi on low voltage coil for has special structure processing (currently company has on related structure application patent), according to I company low voltage coil structure processing Hou, high-tension line circle can made a coil, reduced has high-tension line circle turns number, so high-tension line circle paragraph number and layer number are with of reduced, coil internal farm distribution more uniform.



SC(B)H15(17~19) non-crystalline alloy dry-type transformer

非晶合金干式变压器



SCBH15非晶合金干式变压器产品介绍

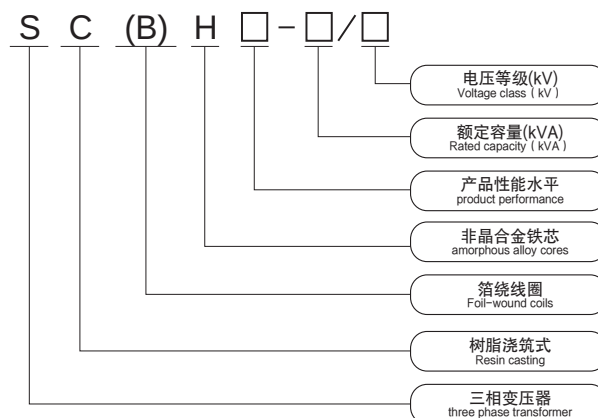
非晶合金干式变压器是当代最先进的节能型干式变压器。本产品具有空载损耗低、无油、阻燃自熄、耐潮、抗裂和免维修等优点。凡是现在使用普通干变的场所都可由非晶干变所取代，可用于高层建筑、商业中心、地铁、机场、车站、工矿企业和发电厂。特别适合于易燃易爆等防火要求高的场所安装使用。

SCBH 15 amorphous alloy dry type transformer product introduction

The amorphous alloy dry type transformer is the the most advanced energy-saving dry type transformer of modern times. The product has the advantages such as low no-load loss, oil free, flame retardant from extinguish, moisture resistance, crack resistance and maintenance free. All using ordinary dry places now can be get placed by amorphous alloy dry type transformer, which may be used in high-rise buildings, commercial center, subway, airport, station, industrial and mining enterprises and power plants, especially for flammable or explosive environment.

型号及含义

Transformer Model Description





CSD transformers 船用变压器

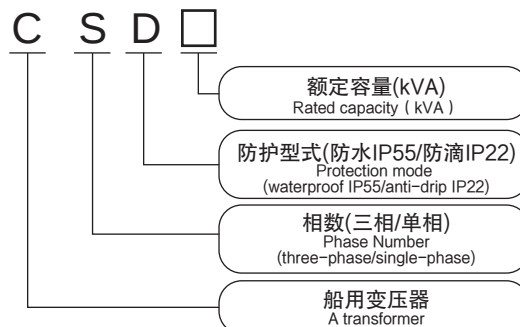


船用变压器适用环境和工作条件:

船舶远离陆地;
环境温度-25~45°C, 工频50~60Hz;
空气相对湿度不大于95%;
有凝露, 盐雾和霉菌的影响;
有船舶正常营运时产生的振动和冲击;
船舶运行时摇摆角度为22.5°, 倾斜角度为15°;
使用于船舶, 海洋平台及其它场所上的照明、配电、或电网隔离用的变电设备;
船舶照明变压器是重要的设备。
安全、可靠性能要求高(防护等级)
执行标准: CB/T 1001-92;
正常两台三相变压器: —— 互为备用。

型号及含义

Transformer Model Description



Transformers suitable environment and working conditions for ships:

Ships away from land;
Temperature:-25~45°C, the frequency 50~60Hz;
Air relative humidity is not more than 95%;
Condensation, influence of salt spray and mold;
Vibration and impact generated when the normal operation of ships;
Ship running swing angle of 22.5°, tilt angle of 15°;
Used in ships, offshore platforms, lighting, power distribution, with any other site or network isolation Substation equipment;
Marine lighting transformers is an important piece of equipment.
Safe, reliable high performance requirements (degree of protection)
Implementation of the standards: CB/T 1001-92;
Two three-phase transformer correctly:--alternate each other.

立体卷铁心介绍

THREE DIMENSIONAL VOLUME CORE



电力变压器是应用极为广泛的电力基础产品。几十年来，我国和世界各地均长期延用插片式电力变压器，其性能一直没有得到根本性改善。公司研制的S13-M-RL、S11-M-RL系列立体三角形铁心电力变压器是继插片式、卷铁心电力变压器之后的又一代革命性变压器。是一种结构更合理、性能更优良、节能更显著的新型节能变压器。

随着城乡电网建设与改造以及各项电力工程纷纷上马，如何提高电力变压器的技术含量，更好地贯彻国家节能降耗和环保有关政策，积极推广节能、低耗、环保适用的新产品已经成为摆在我们面前的重要课题。公司研发的立体三角形卷铁心电力变压器是一种使用传统材料，但运行噪音更低、降低损耗和节约材料更出色，完全符合国际和国内低碳经济和节能减排的方针和政策。该产品已纳入国家能效电厂选用的第一批节能产品；国家资源节约和环境保护中央预算投资项目；国家经贸委、原国电公司先后发文推广这一节能产品；沈变所也将三角形铁心变压器作业插片式、平面卷铁心电力变压器的更新换代产品进行推广。



Power transformer is widely used as the basic power product. In the past decades, China and all over the world have been using plug - in power transformer for a long time, whose features are not improved fundamentality. The S13-M-RL、S11-M-RL series solid triangle iron core power transformers developed by our company are another revolutionary transformer after plug-in and winding iron core transformers. It is a kind of transformer that has more reasonable structure, better performance and more energy saving.



With the construction and transformation of urban and rural power grids and launching of various power projects, how to improve the technical content of power transformers, better implement the national policies on energy conservation and environmental protection, and actively promote new products of energy conservation, low consumption and environmental protection has become an important issue for us. The solid triangle iron core power transformer developed by our company is a kind of transformer that uses traditional materials but with low operation noise, low loss and excellent material saving features. Fully in line with international and domestic low-carbon economy and energy conservation and emission reduction guidelines and policies. The product has been incorporated into the first batch of energy-saving products selected by national energy efficiency power plant; Budget investment projects on resource conservation and environmental protection of the Party Central Committee; The state economic and trade commission and the former state grid corporation of China have published articles promoting this energy-saving product; Shenyang Substation also promotes the triangle iron core transformer as replacement products of plug and flat winding core power transformer.



与众不同的“心” Distinctive “Core”

三角形铁心不需切割，且无冲孔，消除了传统变压器的横向、纵向接缝，减少了磁阻；铁心柱横截面呈圆形，铁心的填充系数最大，三角形立体结构使它的三相磁回路相等并且最短，实现了人们梦寐以求的理想变压器的铁心结构。

三角形立体卷铁心是由窄到宽，再由宽到窄的连续钢带，先绕制三只横截面为半圆形的内铁心，再把三只内铁心立体拼装在一起，构成三个铁心柱横截面近似圆形的三角形立体卷铁心。三相磁回路完全对称相等，缩短了铁轭，芯柱填充系数高，它的结构是公认的理想电力变压器结构，这是平面卷铁心无法比拟的，试验表面三角形立体卷铁心电力变压器各项测试数据更优于平面卷铁心电力变压器，三角形立体卷铁心是电力变压器铁心结构上的一次重大突破和飞跃！它的诞生被誉为“电力变压器铁心的一次革命”。因此三角形立体卷铁心电力变压器是公认的节能、环保、超静音的绿色电力变压器。

Triangle iron core does not need to be cut or punched, eliminates the transverse and longitudinal joints of traditional transformers, reducing magnetic resistance; cross section of iron core is round, thus the filling coefficient of the iron core is biggest, triangle solid structure makes its three-phase magnetic circuit equal and shortest, realizes the iron core structure of ideal transformer for people.

Triangle iron core is made of continuous steel belts from narrow to wide and then wide to narrow. Wind the three inner cores whose cross section are semicircle, and then piece the three inner cores solidly, form the three iron cores whose cross section to be nearly circular. The three-phase magnetic loop is perfectly symmetrical and equal, reduce the iron yoke, high core filling coefficient, its structure is an ideal transformer structure that is widely recognized. It is incomparable by flat winding core. Each testing data of triangle solid winding core power transformer is better than flat winding core power transformer. Triangle solid winding core is a great breakthrough and leap in iron core of power transformer. Its birth was hailed as "a revolution in the iron core of power transformers". Thus, triangle solid winding core power transformer is recognized energy saving, environmental protection, ultra-quiet green power transformer.

立体卷铁心性能优势

Performance advantage of solid winding iron wound core

立体卷铁心变压器突破了传统的平面式结构，采用立体三角形结构，将铁心的排列方式进行了更加合理组合，采用三个完全相同的单框拼合而成。实现三相磁路完全对称等长，确保三相供电平衡，并使磁阻大大减小，励磁电流、空载损耗显著降低。使其机械强度更高、结构更加稳定。

Solid winding iron core transformer breaks the traditional planar structure, adopts solid triangle structure, making more reasonable combination of the iron cores by piecing three completely same single frames. The three phase magnetic circuits are perfect symmetry and same in length, ensure three phase power supply balance, decrease the magnetic resistance greatly, and reduce field current, no-load loss significantly. Thus the mechanical strength is higher, structure is more stable.

性能优势如下:

Features Advantages as below:

1. 空载电流、空载损耗大大降低。
2. 三相磁路平衡，无三次谐波产生，输出波形呈现正弦波，保证供电波形的质量。
3. 噪声低：铁心由几根宽度不断变化的梯形料带在专用的铁心卷绕机上不间断、精密连续卷绕而成，无接缝，可解决叠铁心因磁路不连贯而产生的噪声。
4. 具有良好的散热性能：由于空载电流小、空载损耗低，所以铁心发热量低，并且采用D型半圆铁轭和饼绕连续式高压绕组，组成了上下通风且内外散热的高效自循环散热结构。
5. 小型化：空间利用系数高，变压器采用三角形结构，故体积比常规变压器小，结构紧凑、外型美观、占地面积小。
6. 立体卷铁心变压器的铁心和线圈是一个整体，铁心敲不散，线圈取不出来，防盗性能好。

1. Reduce no-load current and loss greatly.
2. Three phase magnetic circuit is balanced, no third harmonic, output waveform is sinusoidal, and ensure the quality of power supply waveform.
3. Low noise: iron core is winded constantly and precisely on special winding machine by several trapezoid strips whose width change constantly. No seam, can solve noise of laminated core caused by magnetic circuit incoherence.
4. Has good heat dispersion: because of small no-load current, low no-load loss, calorific value of iron core is low. Adopt D type semicircle iron yoke and pie - wound continuous high - voltage winding, formed highly efficient self-circulation heat dissipation structure with vertical ventilation and internal & external heat dissipation.
5. Small size: high space utilization coefficient, transformer adopts triangle structure, thus the volume is smaller than ordinary transformer, compact in structure, beautiful in out looking, covering a small area.
6. Iron core and coil of solid winding iron core transformer are a whole, iron core will not come loose, and the coil cannot be taken out, has good anti-theft performance.





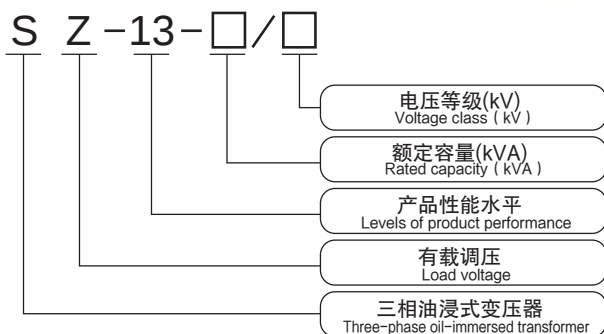
SZ13 35kV Low-loss And On-load Regulation Transformer

35kV级低损耗有载调压变压器



型号及含义

Transformer Model Description



SZ13系列35kv级低损耗有载调压变压器产品介绍

本产品符合国家标准GB1094《电力变压器》和CB/T6451《三相油浸式电力变压器技术参数和要求》。本产品有载调压范围为 $30 \pm 4 \times 2.5\% \text{ kV}$; $35 \pm 3 \times 2.5\% \text{ kV}$ ，可在一次侧借助于有载调压开关在调压范围内手动、电动或自动调整电压，以保证输出电压的稳定性。因此，被广泛应用于对电压质量要求较高的科研、大楼、宾馆及企事业单位。本产品为更新换代产品，具有较好的运行经济效益。

SZ13 Series 35kV Low-loss And On-load Regulation Transformer Product Introduction

This product conform to the state standards GB1094 "Power transformer" and CB/T6451 the three-phase oil-immersed power transformer technical parameters and requirements". This product scope of on-load changer for $30 \pm 4 \times 2.5\% \text{ kV}$; $35 \pm 3 \times 2.5\% \text{ kV}$ per cent in a side, kV on-load changer switch by pressure regulating range in manual and electric or automatic adjusting voltage, to ensure that the output voltage stability. Therefore, it is widely applied to high voltage quality requirements of scientific research, buildings, hotels, enterprises and institutions. This product is the updated products, with better run economic benefits.

S13~S22

10kV~35kV Low-loss And Non-exciting Regulation Power Transformer

10kV~35kV级低损耗无励磁调压变压器



型号及含义

Transformer Model Description

S 13(20) - M - □ / □

电压等级(kV)
Voltage class (kV)

额定容量(kVA)
Rated capacity (kVA)

密封式结构
Enclosed structure

产品性能水平
Levels of product performance

三相油浸式变压器
Three-phase oil-immersed transformer





S13~S22系列10kV~35kV级低损耗无励磁调压变压器产品介绍

该产品执行国家标准GB1094-1996《电力变压器》和GB/T6451-2008《三相油浸式电力变压器技术参数和要求》。S13~S22系列变压器是最新系列低损耗铜绕组产品，该产品采用优质材料，在线圈器身和绝缘方面，运用新工艺、新材料，从而使空载、负载损耗明显降低，性能和结构更加可靠和优越。

S13~S22 Series 10kV~35kV Low-loss And Non-exciting Regulation Power Transformer Product Introduction

This product implements national standards GB1094-1996 the power transformer "and GB/T6451-2008 the three-phase oil-immersed power transformer technical parameters and requirements". S13 series transformer is the latest series of low loss copper windings products, the products using high-quality materials, in coil implement body and insulation, using new craft, new material, thus made racing. load loss reduced significantly, and performance and structure more reliable and superior.

S13~S22系列10kV~35kV级低损耗无励磁调压变压器产品特点

经济性能好

S13~S22系列产品在S9系列的基础上，空载损耗平均降低了30%，空载电流比S9下降70%-85%。

使用寿命长

变压器油箱采用全密封结构，油箱与箱沿可用螺栓联接或焊死，变压器油不与空气接触，延长了使用寿命。

运行可靠性高

油箱密封有关零部件进行改进，增加了可靠性，提高工艺水平以保证密封的可靠性。

占地面积小

S13-M、S22-M系列变压器油箱采用波纹板式散热器，当油温变化时波纹板热胀冷缩可取代储油柜的作用，波纹板式油箱外形美观，占地面积小。



S13~S22 Series 10kV~35kV Low-loss And Non-exciting Regulation Power Transformer Product Features

Good economic performance

S13~S22 series product in the S9 series based on average reduced 30% no-load loss than idle current S9 70%-85% will.

Long service life

Transformer tank adopts full seal structure, the tank along with box available bolt connection or welding die, transformer oil not contact with air and prolong the life.

Running high reliability

Tank sealing parts were concerned, increased reliability improvements to ensure and improve technology level of reliability of sealing.

Field area is small

S13-M, S22-M series transformer tank adopts wave plate radiator, when the oil temperature change corrugated plate heat bilges cold shrink can replace storage cabinet role, corrugated plate appearance tank, cover an area of an area small.

S13(22)-M.ZT Distribution transformer on-load automatic tuning capacitor

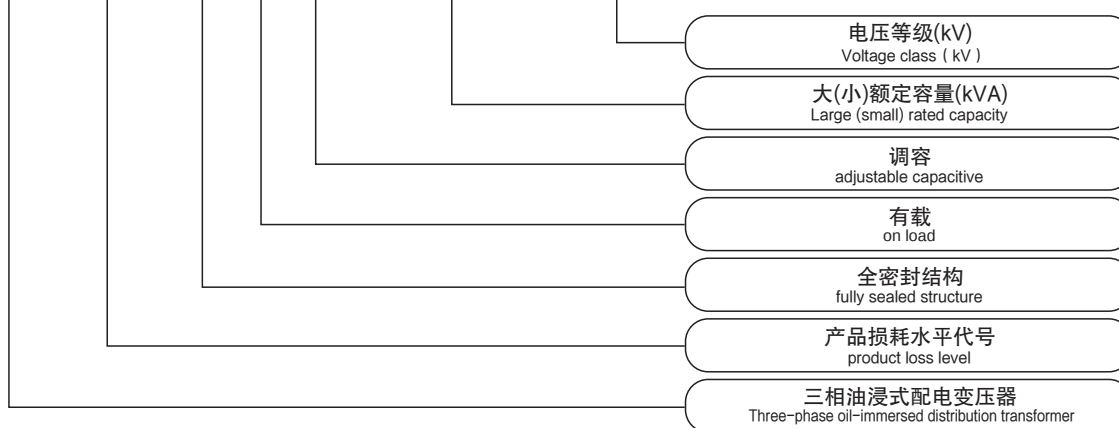
有载自动调容配电变压器



型号及含义

Transformer Model Description

S 13(22) M Z T 630(200) /10





S13(22)-M.ZT型有载自动调容配电变压器适用范围

本产品适用于额定频率为50Hz，电压等级为10kV，三相额定容量为100(30)kVA ~ 630(200)kVA的有载自动调容调压配电变压器。

S13(22)-M.ZT distribution transformer on-load automatic tuning capacitor applicable scope

This product is fit for on-load automatic capacity distribution transformer voltage regulator rated frequency 50Hz, voltage class 10kV, three-phase rated capacity 100(30)kVA ~ 630(200)kVA.

S13(22)-M.ZT型有载自动调容配电变压器产品介绍

S13(22)-M.ZT 型有载自动调容调压配电变压器是一种具有大小两种额定容量，根据用户所带负荷大小由自动调容控制器自动检测判断，并通过特制的有载调容调压开关，在变压器不停电状态的下，对变压器两种容量进行自动切换，实现对运行过程中变压器容量大小自动调整，从而实现两种额定容量运行方式自动转换的配电变压器。

S13(22)-M.ZT distribution transformer on-load automatic tuning capacitor product introduction

S13(22)-M.ZT distribution transformer on-load automatic tuning capacitor is the distribution transformer with large and small rated capacity automatic tuning controller automatically detect judgment according to the user load size and trough a special load capacity regulating switch to auto switch two kinds of transformer capacity under the transformer is not the state of the power outage to realize automatically adjust size in the process of running transformer capacity.



S13(22)-M.ZT型有载自动调容配电变压器用途和适用范围

S13(22)-M.ZT型有载自动调容配电变压器适用于用电季节性强、负荷波动大、用电集中、年平均负载率低的场所。在我国农村用电主要集中在夏、秋两季，其余季节主要是照明用电，在农忙季节，变压器过载运行现象严重，而在用电淡季，负载率低，又出现了“大马拉小车”的现象，所以有载调容配电变压器特别适用于农网改造中；另外，也适用于白天和晚上用电负荷差异较大的住宅小区和常白班的企事业单位。

S13(22)-M.ZT distribution transformer on-load automatic tuning capacitor usages and applicable scope

S13(22)-M.ZT distribution transformer on-load automatic tuning capacitor is suitable for the occasion with electricity strong seasonality, big load fluctuation, power of concentration and low annual average load rate. In China's rural, electricity mainly concentrated in summer and autumn and the rest of the season is primarily a lighting electricity. However, in the busy farming season transformer overload running phenomenon is serious, in the off-season, electricity load rate is low. So the on-load adjustable capacity distribution transformer is especially suitable for in the rural electric reform and also suitable for day and night electricity load differences of residential quarters and often day enterprises and institutions.

S13(22)-M.ZT型有载自动调容配电变压器基本原理

有载自动调容配电变压器在大容量时，三相高压绕组接成三角形接法(角接)，低压绕组并联结构；在小容量时，三相高压绕组接成星形接法(星接)，低压绕组串联结构。

高压绕组的星-角转换和低压绕组的串-并联转换，均由有载调容开关来完成，而有载调容开关的切换是由自动控制器根据检测的负载大小情况来决定的。

当变压器由大容量转换为小容量时，由于线圈匝数增加了 1.7 倍，铁心磁通密度大幅度降低，硅钢片单位损耗变小，空载损耗和空载电流也大幅下降，从而大大降低了变压器的空载无功损耗(小容量时的空载无功损耗小于大容量时损耗的十分之一)和有功损耗(小容量的空载损耗小于大容量损耗的三分之一)，达到了节能降耗的目的。



S13(22)-M.ZT distribution transformer on-load automatic tuning capacitor fundamental principles

When the distribution transformer on-load automatic tuning capacitor is at the large capacity, three-phase high voltage windings into delta connection with low voltage winding parallel structure; When at the small capacity, Three-phase high voltage windings in y connection with low voltage winding tandem structure.

Transformation of angle joint and star joint of high voltage windings and transformation of series connection and parallel connection of low voltage windings are finished by on-load capacity switch which is decided by automatic controller according to the size of load of detection.

When the large capacity transforms into the small capacity of transformer, the core magnetic flux density slash, loss of silicon steel sheet smaller and no-load loss and no-load current also fell sharply which lead to greatly reduces the transformer no-load reactive power loss and wattful loss in the result of reaching reducing consumption.



S(B)H15(21~25)-M

sealed non-crystalline alloy power transformer

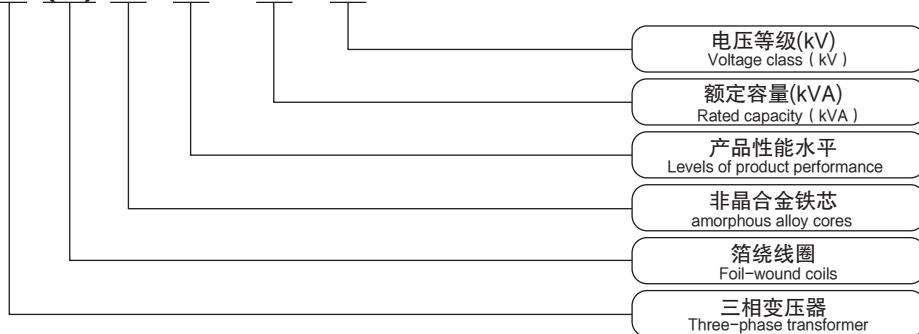
密封式非晶合金电力变压器



型号及含义

Transformer Model Description

S (B) H □ - □ / □



SH15-M密封式非晶合金电力变压器系列产品介绍

该产品是全充油密封型。原理同密封型电力变压器。非晶合金的基础元素是铁、镍、钴、硼、碳等组成。是一种向同性的软磁材料，磁化功率小，不存在阻碍畴壁移动的结构缺陷。

SH15-M sealed non-crystalline alloy power transformer product introduction

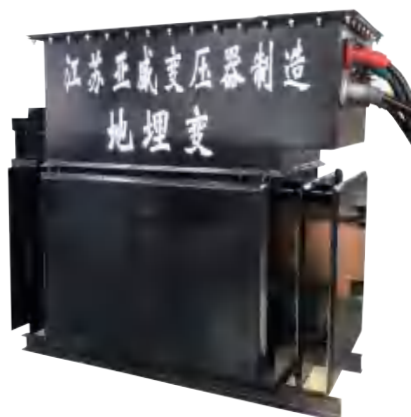
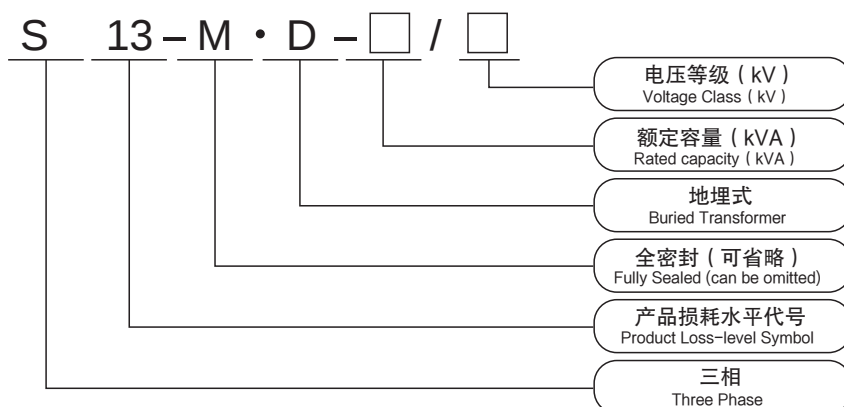
The transformer is full oil-filled sealed type. Whose principle is the same with sealed type transformer. Basic elements of non-crystalline alloy consist of Fe, Ni, Co, Si, B, C, etc. It is a kind of homotropic soft magnetic material whose advantages of low magnetic susceptibility. No hindered divisional movement faults.

S13-MD

Underground Transformer
地埋式变压器

1.1 地埋式配电变压器的型号及含义

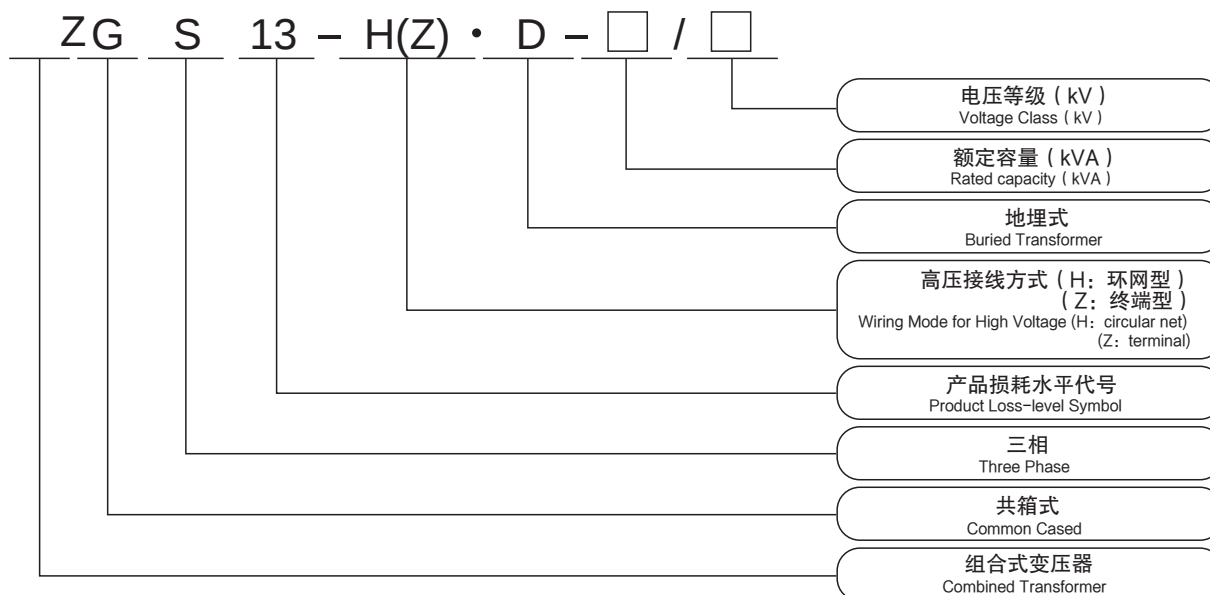
Models and Meanings for Underground Transformer





1.2 地埋组合式变压器的型号及含义

Models and Their Meanings for Underground Combined Transformer



产品概述

地埋式变压器是一种可安装在地坑内的配电变压器或组合变压器，可实现将变压器、高压负荷开关和保护用熔断器等安装在油箱之中的紧凑组合配电设施。引用标准：JB/T 10544-2006。

地埋式变压器既可用于道路、桥梁、隧道等长距离、小负荷的高压输电系统、架空线入地下工程的组合式变压器及小区供电系统。广泛用于供电可靠性高、对周围环境无影响、三组50HZ、电压等级10kV及以下的地下输配电网络，供城市干道、机场、大桥、隧道、大型绿地、园区等场合作动力分配及照明之用。

预装地埋式变压器箱式变电站由地埋式变压器、广告灯箱式开关柜和预制式地坑组合而成，是在工厂预先装配、出厂试验合格的成套设备。产品由地表以下和地表以上的两部分设备组成，地表以下部分包括



预制式（或现场混凝土浇注）地坑和地埋式变压器，地表以上部分包括广告灯箱式（或传统）户外开关设备和通风散热通道。产品适合城市各种配电系统，特别是电缆地下化改造等市政建设电力配套工程。

景观式地埋箱变是公司自主研发生产，由地埋式组合变压器、户外高低压柜、灯箱式保护外壳和预制式地埋变压器基础组成的一种新型变压器。该变压器还可根据环境的特点，量身打造与周边环境相结合的风格，更进一步做到融入和美化环境。

Product Introduction

The underground transform is a kind of distribution transformer or combined transformer which can be installed in a silo; it is a compactly combined distribution facility where the transformer, high voltage load switch and protection fuse etc., can be installed in the oil tank. Reference Standard: JB/T 10544-2006.

The underground transformer can be both used for high voltage power supplying system with long-distance, small-load characteristics in projects like road, bridge, tunnels, etc., and used as combined transformers for projects where overhead lines are wired below the earth as well as for residential community power supply.

It is widely used for power supply with high reliability and free of impact to the surrounding environment. Three sets of 50Hz underground power supply and distribution network with voltage class 10kV and below can be used for power distribution and lighting in places of urban trunk roads, airports, large-scale bridges, tunnels, large-scale Greenland or parks, etc.

The prefabricated underground transformer box-type substation is a complete set of equipment combined with a light box style switch cabinet and prefabricated silo, which was preinstalled and has passed testing in factory. The product is made up of two parts of equipment both under and above the ground. The part below ground include a prefabricated (or concrete casting on site) silo and an underground transformer. The part above the ground include a light box style (or traditional) outdoor switch facility and ventilation passages. The product is suitable for a high variety of urban power distribution systems, especially civil construction power auxiliary projects like underground cable remodeling.

Landscape Underground Box-type Transformer is a product developed and manufactured independently by our company. It is a novel transformer made up of underground combined transformer, outdoor high-low voltage cabinet, light-box style protection case and prefabricated underground transformer. This transformer could be tailor-made according to environmental features to achieve a good blend to the surroundings and beautify the environment.

产品特点

- ◆占地面积少，不占用地表面积，景观效果良好，施工简单。
- ◆实现靠近负荷中心安装、分散供电的方式，节省低压电缆的数量及投资，降低线路上的损耗，运行经济。
- ◆防护等级IP68、防爆炸、可在一定时间内完全浸水运行，有效提高供电系统的可靠性。
- ◆油箱采用全绝缘、全密封、全焊接结构，能承受70kPa压力不属油、不变形，有效提高油箱综合机械性能；无需绝缘距



离，可靠保证人身安全；采用独特的散热片，保证散热片的机械强度和散热能力。

◆高、低压电缆连接可采用下列方式实现：

1、采用三相同时插入变压器内部的三相电缆连接器及特殊形式的电缆插接头（适用于电压等级为10kV及以下、容量为400kVA及以下的三相地埋式变压器）。

2、采用单相电缆连接器及肘型拔插式电缆插接头（适用于电压等级为10kV及以下、容量为1600kVA以下的三相地埋式变压器）。

3、连接器内装载比重大于水的专利绝缘液体，喧嚣接器内绝缘液与变压器分开，保证在毛细现象渗水情况下正常运行。

◆可配置油浸式负荷开关。实现带负荷开断和关合操作；实现环网、终端供电方式，转换十分方便，提高供电的可靠性。

◆预装地埋式变压器箱式变电站灯箱式开关柜安装简易，显示先进感观，而且，广告灯箱的媒体广告还能创造较好的经济效益。

◆预装地埋式变压器箱变采用自然通风，以变压器、地坑和灯箱进行整体的温升设计，变压器在地坑内额定负载运行的温升值满足GB 1094.2的要求。

◆地坑可安装自动排水系统，当受洪涝等特殊情况影响下，自动启动排水装置。

Product Features

◆Less land occupation without occupying surface area, good landscape effect and simple installation.

◆Realizing the approach of installation near the center of load and decentralized power supply, saving the number of low-voltage cables and investment, reducing loss on wires to ensure an economic running.

◆Protection grade IP68, anti-explosion, able to run fully immersed in the water for a certain period of time and effective improve the reliability of power supply systems.

◆The oil tank employs a full-insulating, fully sealed and fully welded structure, tolerable to 70kPa pressure without leaking or deformation to effectively improve the comprehensive mechanical performances of the oil tank; no need for insulation distance and able to ensure personnel safety; employs unique radiator to ensure the mechanical strength and cooling capacity of the radiator.

◆High/low cable connection can employ the following modes:

1. Insert three phases simultaneously onto the three phase cable connector inside the transformer and onto the special-mode cable joints (applicable to three-phase underground transformer with voltage class as 10kV and below, capacity as 400kVA and below)

2. Employ single-phase cable connector and elbow-type pluggable terminal block (applicable to three-phase underground transformer with voltage class as 10kV and below, capacity as 1600kVA and below).

3. A type of patent insulating liquid is filled inside the connector to separate the insulating liquid from the transformer and ensure normal running in case of water seepage due to the capillary phenomenon.

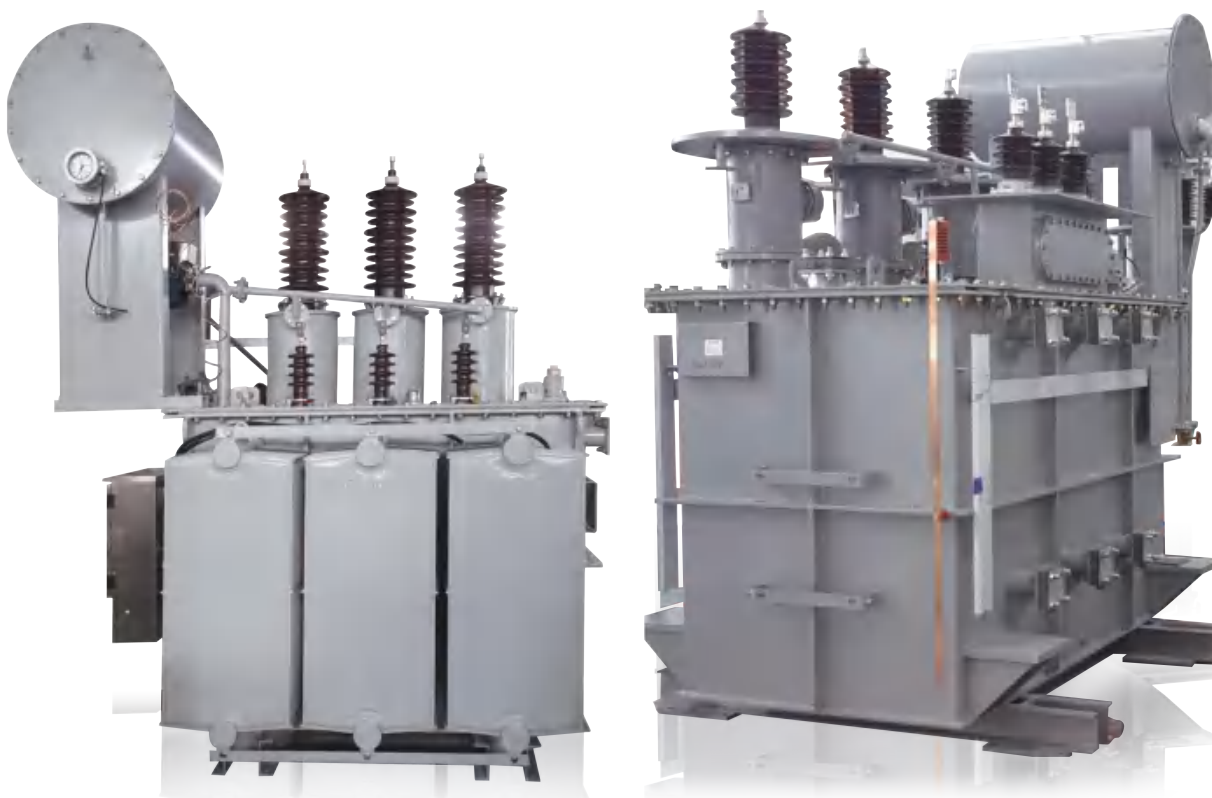
◆ can be equipped with oil-immersed load switch to realize opening and closing operations on load and to realize the ring network and terminal power supplies, convenient to switch between the two methods which improves the reliability of power supply.

◆ The light box style switch cabinet of prefabricated underground transformer is easy to install and appealing to viewers for its advanced exteriors, in addition, the plane advertisement of the light box can also yield good economic benefits.

◆ The prefabricated buried transformer case employs natural ventilation; an integrated temperature rise design is performed in consideration of the transformer, silo and light box. The temperature rise value for the transformer running on rated load in the silo meets the requirements of standard GB 1094.2.

◆ An automatic drain system can be installed for the silo, in special cases of flood, etc., it will automatically initialize the drainage devices.

SVG Supporting dedicated connection transformer 配套专用连接变压器



目前,随着社会经济的发展,电网中引入了大量的非线性的负载,同时也给电网带来了电压波动,网侧功率因数低,电压三相不平衡,谐波含量大等一系列的电能质量问题。因此,国内外相继推出静止无功发生器(Static Var Generator) 治理电能质量问题。而SVG型配套专用连接变压器作为SVG系统重要组成部分,其具有阻抗大,提高了变压器的抗短路能力,而且变压器采用了新型的工艺处理方法,让其具有独特的谐波特性:二次绕组电流总谐波畸变率不大于10%,其中2次不大于4%,3次和4次不大于2%,其它各次不大于1%。

At present, with the social and economic development, introduces a number of nonlinear loads in the power grid, but also brings to the power grid voltage fluctuations, grid side low power factor, voltage unbalance, harmonic content, such as a range of power quality problems. Therefore, both at home and abroad have implemented static var generator (Static Var Generator) power quality problems of governance. And SVG type supporting dedicated connection transformer as SVG system important part, its has impedance big, improve has transformer of anti-short-circuit capacity, and transformer used has new of process processing method, let its has unique of harmonic characteristics: II times winding current total harmonic distortion rate not is greater than 10%, which 2 times not is greater than 4%, 3 times and 4 times not is greater than 2%, other the times not is greater than 1%.





ZGS13-H(Z) Combined Transformer

组合式变压器



ZGS13-H(Z)系列组合式变压器产品介绍

ZGS13系列组合式变压器是一种新型配电设备(又称美式箱变),是将高压负荷开关、插入式熔断器、高压限流熔断器安装在变压器油箱内,以矿物油进行绝缘和冷却,具有结构合理紧凑、体积小、安装灵活、操作方便、占地面积小等优点。组合式变压器特别适用于城市电网的负荷中心,降低损耗,提高供电质量。

该系列产品已在全国各地广泛用于居民小区、公共场所、工矿企业等配电场所。

ZGS13-H(Z)Combined Transformer Product Introduction



ZGS13 series combined transformer is a new type of power distribution equipment (also called American box variable), is will high - voltage switch plug-in fuse, high-pressure current limiting fuse installed in transformer, the insulation and cooling with mineral oil, with reasonable structure compact, small volume, installation flexible, convenient operation, cover an area of an area small, etc. Combined transformer is especially applicable to the load center city grid, to reduce the consumption, improve the quality of power supply.

This series of products has been widely used in communities across the country, and public places. industrial mining enterprises etc distribution sites.

ZGS13-H(Z)系列组合式变压器产品特点

- 1. 体积小，结构紧凑，安装方便。
- 2. 全密封，全绝缘结构，可保证人身安全。
- 3. 可用于环网，也可用于终端，转换方便，提高了供电的可靠性。
- 4. 低损耗，低噪音，性能优越。
- 5. 电缆接头采用插接形式，具有隔离开关的特点，操作方便，灵活。
- 6. 高压双熔丝保护，插入式熔丝具有温度、电流双敏保护特性。
- 7. 后备熔丝对变压器故障和二次线路故障进行保护。
- 8. 箱体采用防盗结构。
- 9. 温升低，过负荷能力强。
- 10. 由于变压器器身采用特殊结构，其突出优点是电压质量高，中性点偏移量小。

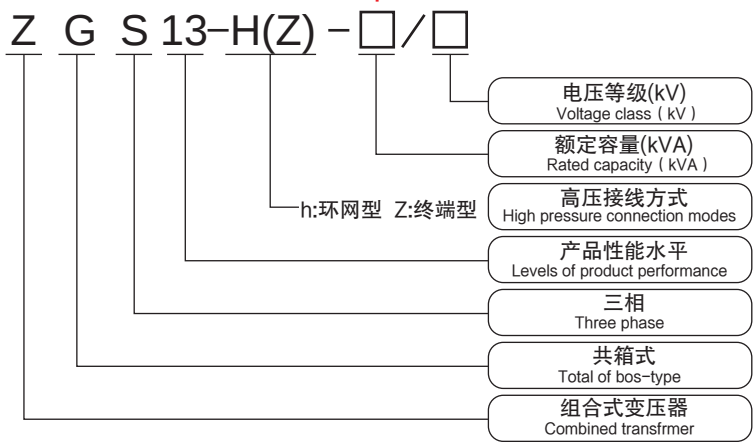


ZGS13—H(Z) Combined Transformer Product Features

- 1. Compact structure. convenient installation.
- 2. The seal, whole insulation structure, can guarantee the security of person.
- 3. Can be used for ring network, also can used for terminal, conversion convenient, improve the power supply reliability,
- 4. The low loss, low noise, superior performance.
- 5. Cable joint adopts plug-and-socket form, has the characteristics of isolating switch, convenient operation,flexible.
- 6. High pressure double weld wire protection, plug-in weld wire has temperature, current ShuangMin protection properties.
- 7. Backup weld wire of transformer faults and second line fault protection.
- 8. Box adopts anti-theft structure.
- 9. Low temperature, overload ability.
- 10. Because transformer implement body adopts special structure, its outstanding advantages is high quality, neutral voltage offset small.

型号及含义

Transformer Model Description





YB-PRE Compact substations (European box variable) 箱式变电站(欧式箱变)



YB-PRE箱式变电站系列(欧式箱变)产品介绍

YB型箱式变电站又称欧式箱变，产品符合GB17467-1998《高低压预装式变电站》和IEC1330等标准，作为一种新型供电装置，它比传统土建变电站具有许多优越性。由于它体积小，占地面积小，结构紧凑，便于搬迁，因而大大缩短了基建的周期和占地面积，也减少了基建费用。同时，箱式变电站现场安装简单，供电迅速，设备维修简单，无须专人值守，特别是它可以深入负荷中心，对提高供电质量减少电能损失，增强供电的可靠性以及对配电网改造选都是十分重要的。箱变完成电能的变换、分配、传输、计量、补偿，系统的控制、保护及通讯功能。YB型变电站由高压开关柜，低压配电屏，配电变压器及外壳四部分组成，高压是空气负荷开关，变压器为干式变压器或油浸式变压器。箱体采用了良好的隔热通风结构，外观美观大方，隔热性能良好，且箱体设有上下通风的风道，户外隔射对变压器室及高低压室造成的温升可减少到最低限度。箱体内要装设温控强迫通风装置及太阳温度自动控制装置。各独立单元装设完善的控制，保护，带电显示和照明系统。

YB-PRE Compact Substations Series (European Box Variable) Product Introduction

YB type compact substations and says Europe type box change, GB17467-1998 product conforms to the high and low voltage substation and IEC1330 preinstalled type, such as a new standard for power distribution equipment, it than conventional civil substation has many advantages. Because of its small volume, cover an area of an area small, compact structure, easy to move, thus greatly shorten the construction period and covers an area of, also reduced the infrastructure expenses Meanwhile, the

box-type converging stations on site installation is simple, rapid, equipment maintenance simple power substation, without special, especially it can further load centers, to improve the quality of power supply reduce power loss, enhance the reliability and power of distribution network re-election are important Complete electricity transformation change box, the distribution, transmission, measurement, compensation, system control, protection and communications functions.

By high-voltage switchgear YB engineering-type substation, low-voltage distribution screen, distribution transformer and shell with a combination of four sections, high-pressure air load switch, transformer for dry type transformer or oil-immersed transformer Cabinet adopted good insulation ventilation structure, appearance beautiful generous, heat insulation performance is good, and the upper body sets, outdoor ventilated for every shot ducts and high or low voltage transformer room temperature can reduce the room caused to a minimum The cabinet to furnish temperature control forced ventilation device and automatic temperature control device sun. Each independent units installed perfect control, protection, charged display and lighting system.

YB-PRE箱式变电站系列(欧式箱变)应用范围

适用于电压等35KV及以下, 主变容量5000KVA及以下的小型无人值守变电站, 广泛用于城市工业变电站、10KV环网系统、农网35KV变电所等场合。

YB-PRE箱式变电站系列(欧式箱变)主要功能

完成电能的变换、分配、传输、计量、补偿、系统的控制、保护及通讯功能。

YB-PRE箱式变电站系列(欧式箱变)主要特点

将一、二次设备预装一个可移动的、全封闭、温度自控、防腐防潮防锈的箱体, 运抵现场只须安装在水泥基础上。具有投资少、施工周期短、占地面积少、易与环境协调等特点。



YB-PRE Compact Substations Series (European Box Variable) Application Scope

Applicable to below 35KV voltage, etc, the main transformer capacity 5000KVA and below small substations, widely used in substation halting city industry substation, consumers 10KV ring net system, rural 35KV substation and so on.

YB-PRE Compact Substations Series (European Box Variable) Main Function

Complete electricity transformation, distribute, transmit, measurement, compensation, the system of control, protection and communications functions.

YB-PRE Compact Substations Series (European Box Variable) Main Features

Will the primary and secondary equipment installed a portable sealed, temperature control, anticorrosive moistureproof antirust the cabinet, arriving at the just installed in cement basis. Has less investment, construction period is short, covers an area of less, easy and harmonious environment etc. Characteristics.



亚威变压器
YAWEI TRANSFORMER

国内争第一 世界创名牌 Be the No.1 in China and create a world famous brand

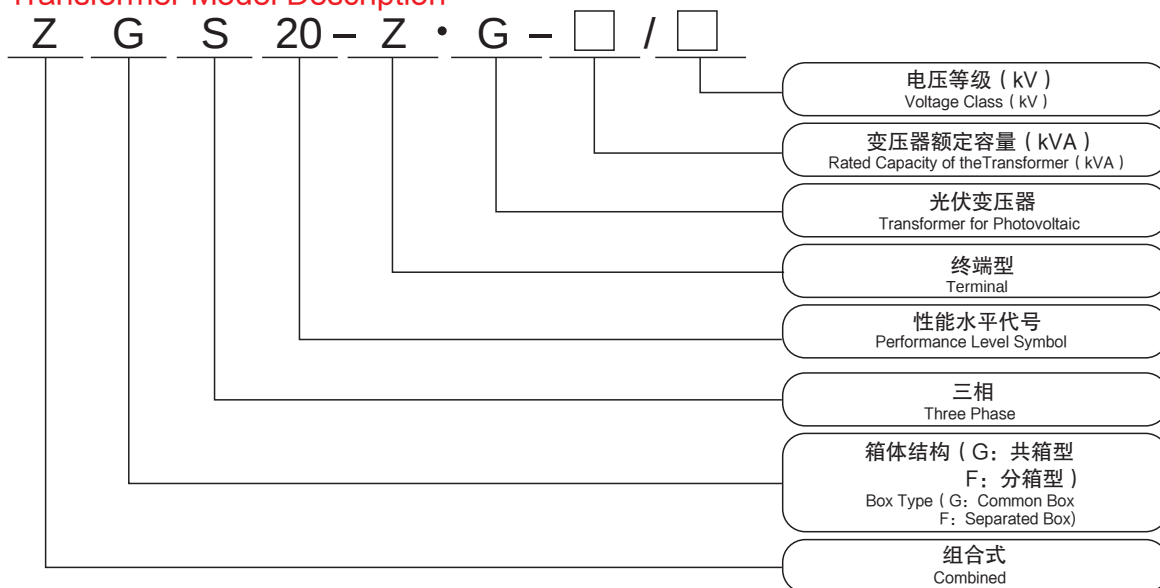
ZGS20-Z·G Combined Transformer for Photovoltaic Power Generation

光伏发电用组合式变压器



型号及含义

Transformer Model Description



产品介绍

光伏发电是一种清洁可再生能源，在国内外得到迅速的发展，ZGS20-Z·G系列组合式变压器正是为满足日益增长的光伏发电的供电要求，我公司在10kV、35kV组合式变压器基础上，经过多年探索和总结，并消化吸收国内外的先进技术，结合光伏发电对变压器的特殊要求，自行研制开发的系列产品，该产品是将变压器、负荷开关，高压熔断器安装在变压器的箱体内，利用变压器的绝缘液体作为整个产品的绝缘和散热介质，采用全密封结构，变压器本体采用中厚钢板、外壳采用镀锌板或不锈钢板，经过喷丸酸洗、磷化、分别喷涂底漆、中间漆，面漆达到表面的防腐性、耐厚性、防紫外线性均超过普通喷涂的强度，具有体积小、重量轻、安装方便等优点。

Production Information

Photovoltaic power is a clean, renewable energy source which has gained rapid development both at home and abroad. To meet the increasing demand for the photovoltaic power generation, the ZGS20-Z·G Series Combined Transformer for Photovoltaic Power Generation was independently designed by our company on the basis of 10kV and 35kV combined transformers after years of exploration and summary as well as absorption of advanced technologies from home and abroad in light with the special requirements for the transformers of the photovoltaic power generation. In this product, the transformer, load switches and high-voltage fuse are installed in the transformer cabinet. The insulating liquid of the transformer is used as the insulation and radiating media as the whole product. The product employs a fully sealed structure, the main body of the transformer is made of medium and heavy steel plates, its case is made of galvanized plates or stainless steel plates after being treated with acid cleaning, phosphating then coated with the primer, intermediate and finish paint to make the anti-corrosion, leakage resistance and UV resistance of the surface all exceed the product with regular paintings. It enjoys the advantages of small size, light weight and easy installation, etc.

产品主要特点

- 1、结构紧凑、体积小、占地面积小，仅为同容量欧式箱变的1/3；
- 2、低损耗、低噪音、抗突发短路能力强；
- 3、全绝缘、全密封结构，可以免维护，运行安全可靠；
- 4、倒闸操作方便灵活；
- 5、保护完备，高压全范围熔丝保护；
- 6、箱体采用特殊工艺处理，经特殊的材料处理，具有良好的防腐能力，能有效防止风沙的侵蚀。
- 7、箱体布置分为“L”字形和“目”字形两种。



◆10kV级组合变

由高压后备限流保护熔断器与插入式过载保护熔断器串联使用，对变压器提供全范围保护，高压限流保护熔断器作为变压器的短路保护，插入式过载保护熔断器作为美式电力变压器及其它电力设备过载及小故障短路电流的保护。

◆35kV级组合变

采用一种新型的全范围保护用高压限流熔断器，它能够可靠的开断引起熔体熔化的电流至额定开断电流之间的任何故障电流，它是利用限流式熔断器具有较高分断能力，而非限流式熔断件却具有较好的小电流保护特点，结合两种熔断件的不同特点，组合为一体获得全范围开断的良好特性。



Main Features of the Product

- 1.Compact structure, small size, less land usage as little as 1/3 of the European box type transformer with the same capacity.
- 2.Low loss and noise, high resistance to sudden short circuit;
- 3.Full insulation and fully sealed structure, free of maintenance, safe and reliable in running;
- 4.Convenient and flexible transfer switching operations;
- 5.Fully protected, full range of fuse protection for high voltage;
- 6.The box was treated with special processes and materials, good anti-corrosive capacity, able to effectively prevent the damage of wind-blown sand;
- 7.Box layouts are classified into “L” shaped and “shelf” shaped.

◆ 10kV Class Combined Transformer

Series connected with high-voltage backup current-limiting protection fuse and pluggable over-load protection fuse, the transformer receives full range of protection. High-voltage backup current-limiting protection fuse is used as the short-circuit protection for the transformer, while the pluggable over-load protection fuse is used as overload, minor fault short-circuit current protection for American power transformers.

◆ 35kV Class Combined Transformer

A novel full range of protective high voltage current limiting fuse is employed, which is able to effectively cut the current which can result in the melting of the fused mass or cut any fault current which is not in compliance with the rated current. It uses the relatively high breaking capacity of the current limiting fuse, whereas non-current-limiting fuse has better protective features for low current, different features of the two types of fuses are combined to achieve features with full range and good cut-off capacity.

使用环境条件

- 1、海拔不超这300米；
 - 2、环境温度范围：-40℃ ~ +45° ；
 - 3、户外风速不超过 30m/s；
 - 4、相对湿度：日平均值不大于95%，月平均值不大于90%。
 - 5、安装地点：安装在无火灾、爆炸危险，严重污染、化学腐蚀及剧烈震动的场所。
 - 6、电源电压的波形近似正弦波，三相电源电压近似对称；
- *超过以上正常使用环境条件，用户可与本厂协商解决。

Environmental Conditions for Usage

- 1.Altitude shall not exceed 300 meters;
 - 2.Environmental temperature range: -40℃ ~ +45° ；
 - 3.Outdoor wind speed shall not exceed: 30m/s;
 - 4.Relative humidity: daily average value no higher than 95%, monthly average value no higher than 90%.
 - 5.Location of Installation: Installed in places free of fire, explosives, heavy pollution, chemical erosion or violent shaking.
 - 6.The waveform of the power supply voltage is similar to sine wave, voltage of the three phase power supply is similar to symmetric;
- *When environmental conditions exceed beyond normal values, users may consult with the factory for resolutions.



YBM(P) 35kV-Class High/Low Voltage Prefabricated Transformer Substation for Wind Power Generation

35kV级风力发电用高压/低压预装式变电站



产品介绍

风力发电组合式变压器是集升压变压器、高压限流熔断器、负荷开关、低压开关柜及相应辅助配套设备于一体的专用电力设备。

YBM(P)35F/0.69kV高压/低压预装式变电站系列产品为我公司专门为风力发电设计开发的产品，它是将风力发电机组发出的0.69kV电压升高到35kV后，经35kV电缆线路向上输出电能。是风力发电系统的理想配套设备。其性能完全符合GB/T17467《高压/低压预装式变电站》，它是针对风力发电的特殊使用要求而开发出的一种新型预装式变电站，具有成套性强，便于安装，施工周期短、运行费用低、结构强度高、防腐性能强等优点，完全适用于自然条件比较恶劣的海滩、草原、荒漠等运行环境，性能完全满足风电场使用要求。

Product Information

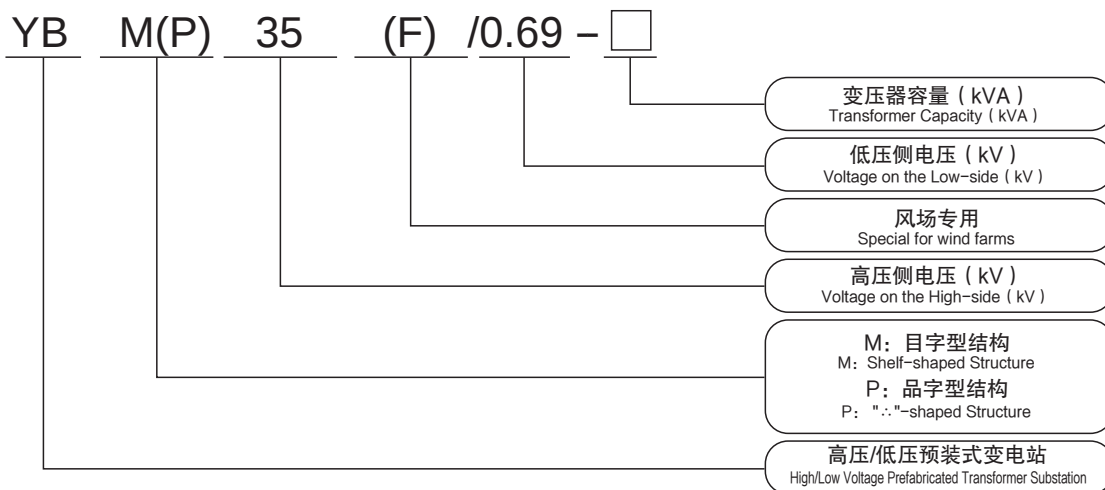
The Integral Type Transformer for Wind Power Generation is specialized power equipment integrated with the step-up transformer, high-voltage fuse, load switch, low voltage switchgear and relevant auxiliary equipment.

YBM (P) 35F/0.69kV High/Low Voltage Prefabricated Transformer Substation series products are designed and developed by our company particularly for wind power generation. It boosts the 0.69kV voltage generated by the wind turbines to 35kV and is transmitted to the grid through 35kV cable lines, which makes it an ideal auxiliary equipment for wind power generation systems. Its performances are completely in conformity with standard of GB/T17467 High/Low Voltage Prefabricated Transformer Substation. Developed for purpose of meeting special requirements of wind power generation, the system is a novel prefabricated transformer substation featuring with characteristics like strong nature of complete set, easy installation, short-term construction cycle, low operational expenses, high structural strength and high anti-corrosive properties, etc. It is completely applicable in harsh natural environments like the beach, grassland or desert, etc., with its performances fully satisfying the usage requirements of the wind farms.



型号及含义

Transformer Model Description



正常使用环境条件

- 1 海拔高度: ≤ 3000 米;
- 2 环境温度范围: $-45^{\circ}\text{C} \sim +40^{\circ}\text{C}$
- 3 耐地震能力: 地震水平加速度: 低于 0.4m/S^2
地震垂直加速度: 低于 0.2m/S^2
安全系列: 1.67
- 4 户外风速不超过: 40m/s ;
- 5 安装地点: 无剧烈震动, 倾斜度不大于 3° ;
- 6 使用地点: 不应有导电尘埃对金属、绝缘物有害的腐蚀性, 易燃易爆的危险品。
超出上述正常使用环境条件时, 用户可与本公司协商解决。

Normal Operating Environment Conditions

- 1 Altitude: ≤ 3000 meters;
- 2 Range of Environment Temperatures: $-45^{\circ}\text{C} \sim +40^{\circ}\text{C}$
- 3 Earthquake Resistance Capacity: horizontal acceleration: lower than 0.4m/S^2
Vertical acceleration: lower than 0.2m/S^2
Safety Series: 1.67
- 4 Outdoor speed no higher than: 40m/s ;
- 5 Location for installation: no violent vibration, gradient no bigger than 3° ;
- 6 Service Location: should not contain conductive dust or corrosive, flammable and explosive hazardous objects which may be harmful to metals and insulating materials.
In occasions where the aforesaid normal operating environmental conditions have been exceeded, the user may consult with the company for a resolution.

主要技术参数

1 箱式变额定参数

1.1 电压

系统电压: 35kV (36.75kV、38.5kV)

高压侧最高工作电压: 40.5kV

低压侧额定电压: 0.69kV

1.2 额定频率: 50Hz

1.3 额定绝缘水平 (应根据海拔高度修正)

变压器高压侧工频耐压: 95kV (器身
85kV)

冲击峰值耐压: 200kV

变压器低压侧工频耐压: 5kV

1.4 相数: 三相

1.5 箱体防护等级: 高低压室IP54, 高压室门 打开后IP3X

2 变压器主要技术参数

2.1 技术标准

变压器符合GB1094.1—1094.5《电力变
压器》和GB6451.1《三相油浸式电力变压器
技术参数和要求》。

Main Technical Parameters

1 Rated Parameters for Box-type Substation

1.1 Voltage

System Voltage: 35kV (36.75kV, 38.5kV)

Maximum Operating Voltage on the High-side: 40.5kV

Rated Voltage on the Low-side: 0.69kV

1.2 Rated Frequency: 50Hz

1.3 Rated Insulation Level (adjustable according to altitude)

Power-frequency Withstand Voltage of the High-side of
Transformer: 95kV (active part 85kV)

Withstand Voltage of the Impulse Peak: 200kV

Power-frequency Withstand Voltage of the Low-side of
Transformer: 5kV

1.4 Phase Number: Three Phases

1.5 Box Protection Class: high-low voltage chamber IP54, after
opening the door of high voltage chamber IP3X

2 Main Technical Parameters of Transformer

2.1 Technical Standards

The transformer is in conformity with GB1094.1—1094.5
Power Transformer and GB6451.1 Specification and Technical
Requirements for Three-phase Oil-immersed Power
Transformers.

产品结构及特点

1 风电场一般建在滩涂、浅海、草原、荒漠
等人烟稀少自然条件比较恶劣的地方, 根据
使用环境的不同采用不同的防腐工艺处理,
保证了预装式变电站的使用寿命。

2 箱变的整体布局为“品”型, 其优点如下:
结构紧凑、合理、外形体积小; 各主元件之
间联结方便, 铜排用量大大减小, 进出线电
缆接线空间及检修空间较大, 便于于装配、
检修。箱体结构, 所有金属结构件采用喷砂
热镀锌、喷漆处理, 可保证设备在潮湿, 重
盐雾的环境中使用其耐锈蚀能力强, 所有门
板及墙报, 均没有夹层, 中间填充有聚氨酯
及硅酸盐。复合保温材料, 它具有优良的隔
热保温性能, 保证设备在严寒环境中安全、迅速投入运行。





预制舱式变电站

PREFABRICATED CABIN TYPE SUBSTATION



预制式模块化变电站通常采用“整站”设备预制的模式，即将高压开关配电装置、变压器、中压开关配电装置、补偿装置、综合自动化系统、交直流电源系统、环境控制系统和舱体进行集成化设计，所有站用设备在工厂内预制安装完毕，调试合格后，分模块运输到现场对接、安装、调试即可投运。

江苏亚威变压器已具备提供“整站”建设解决方案的技术能力，内容包括：变电站的设计、设备采购、相应设施施工与设备安装、系统联调、变电站投入运行、然后把整个变电站整体移交给用户，从而实现变电站功能模块化、建站标准化、系统智能化的“交钥匙”工程。

预制式模块化变电站充分发挥提高建设效率、节省建筑占地、节约运维成本、降低能耗、降低污染”等方面的显著优势，在电力、石油、化工、船舶、通讯、民用建筑、铁路建设领域得到了广泛应用。同时，随着站内电力设备技术的成熟及发展，变电站设备将越来越趋于小型化和高可靠性，将进一步提升预制式模块化变电站的可靠性和适用性，在新基建领域也必将有广阔的应用前景。

Prefabricated modular substations usually adopt the mode of "whole station" equipment prefabrication, that is, high-voltage switch distribution device, transformer, medium voltage switch distribution device, compensation device, integrated automation system, AC/DC power supply system, environmental control system and cabin are designed in an integrated way. All station equipment are prefabricated and installed in the factory. After the commissioning is qualified, they can be transported by module to the site for docking, installation and commissioning before being put into operation.

Jiangsu Yawei Transformer has the technical ability to provide "whole station" construction solutions, including substation design, equipment procurement, corresponding facility construction and equipment installation,

system joint commissioning, substation operation, and then the overall transfer of the entire substation to users, so as to achieve the "turn key" project of substation function modularization, station construction standardization, and system intelligence.

Prefabricated modular substations give full play to their remarkable advantages in improving construction efficiency, saving building land, saving operation and maintenance costs, reducing energy consumption, and reducing pollution, and are widely used in the fields of power, petroleum, chemical, shipping, communications, civil buildings, and railway construction. At the same time, with the maturity and development of power equipment technology in the station, substation equipment will become more and more miniaturized and highly reliable, which will further improve the reliability and applicability of prefabricated modular substations, and will also have broad application prospects in the new infrastructure field.

预制舱变电站的优势

Advantages of prefabricated cabin substation

一，节约土地资源。由于舱体与建施采用一体化设计的安装模式，预制舱的整体占地面积较为紧凑，很大程度的节省了占用的土地面积，相较于传统类的变电站，其空间占用率明显降低。

二，预制舱式变电站的布置更灵活，根据建施地区的差异立体建站，对各个板块合理分配与布置，以此满足预制舱式变电站的建施需求。

三，预制舱式技术的出现，优化了传统工序流程，改善设施安装测试的方式，缩减了工程量，从而减少了建设工期，进一步确保在规定时间内交付工程。

1、 Save land resources. As the installation mode of integrated design is adopted for the cabin and building construction, the overall floor area of the prefabricated cabin is relatively compact, which greatly saves the occupied land area. Compared with the traditional substation, its space occupation rate is significantly reduced.

2、 The layout of prefabricated cabin type substation is more flexible. According to the difference of construction areas, three-dimensional construction of the substation is carried out, and each plate is reasonably allocated and arranged to meet the construction requirements of prefabricated cabin type substation.

3、 The emergence of prefabricated cabin technology has optimized the traditional process flow, improved the way of installation and testing of facilities, reduced the amount of work, thus reducing the construction period, and further ensuring the delivery of the project within the specified time.





集装箱式储能变压器（可定制）

Containerized energy storage system (customizable)



产品特点

系统集成度高，集数据监控、视频监控、配电、消防以及照明等于一体；3级BMS架构，多层次的系统保护策略以及措施，安全可靠；适应各种类型的负载（阻性、感性、电机载、混合载）；整体集装箱式设计，外部接线设计，便于安装维护；适应强盐雾、高海拔等复杂环境；远程监视功能，方便运维管理。

Product features

high system integration, integrating data monitoring, video monitoring, power distribution, fire protection and lighting; 3-level BMS architecture, multi-level system protection strategies and measures, safe and reliable; adaptable to various types of loads (resistive, inductive, motor load, mixed load); overall container design, external wiring design, easy installation and maintenance; adapt to complex environments such as strong salt spray and high altitude; remote monitoring function, convenient operation and maintenance management.

应用场景

微电网支撑电源、调峰调频、备用电源、新能源发电波动平抑、传统发电效率提升。

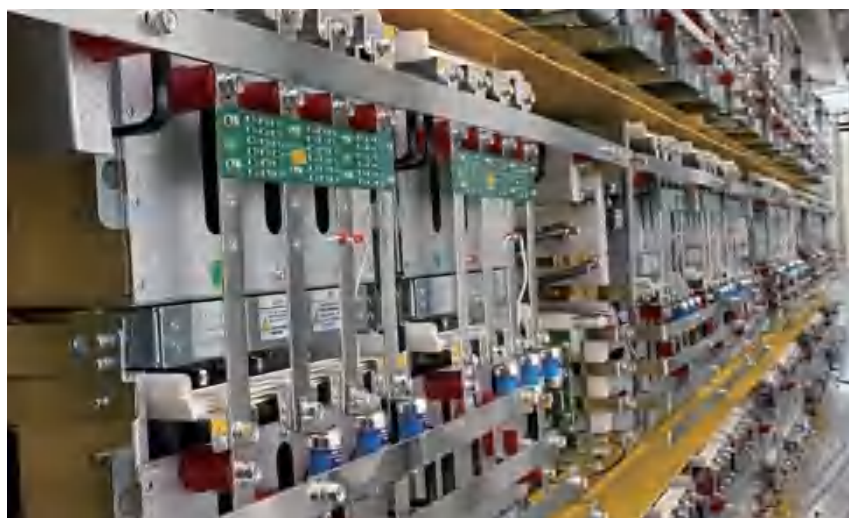
可定制化设计，满足不同客户需求：系统集成高，集成电池系统、PCS、能量管理系统、温控系统、集成电池系统、PCS、能量管理系统、温控系统、消防系统、门禁系统数据系统、消防系统、门禁系统数据监控系统，交直流配电，照明系统等；三级BMS系统架构，安全可靠；具备预充电、恒流充电、均充、浮充模式；具备完善的通讯、监测、管理、控制、预警和保护功能，长时间持续安全运行，可通过上位机对系统运行状态进行检测，具备完善的数据分析能力，具备应急电源功能。



Application scenarios

Microgrid support power supply, peak and frequency regulation, backup power supply, new energy power generation fluctuation stabilization, traditional power generation efficiency improvement

Customizable design to meet different customer needs: high system integration, integrated battery system, PCS, energy management system, temperature control system, integrated battery system, PCS, energy management system, temperature control system, fire protection system, access control system data system, Fire protection system, access control system data monitoring system, AC and DC power distribution, lighting system, etc.; three-level BMS system architecture, safe and reliable; with pre-charging, constant current charging, equalizing charging, floating charging mode; with perfect communication, monitoring, management, control, early warning and protection functions, continuous and safe operation for a long time, can detect the operating status of the system through the host computer, have perfect data analysis capabilities, and have emergency power supply functions.





电炉变压器

FURNACE TRANSFORMER



专为各种电炉提供电源的变压器。电阻炉变压器用于机械零件加热、热处理、粉末冶金烧结、有色金属熔炼等的电阻炉和盐浴炉。由于发热体的电阻太小，或者在升温过程中发热体电阻的变化太大，所以需要在炉子和电力网之间配备一台电阻变压器，以降低和调节电炉的输入电压。小容量、低电压的电阻炉变压器与盐浴炉变压器多为干式变压器，带箱壳，自然冷却；中等容量（数百至数千伏安）的电阻炉变压器多为油浸自冷式变压器；大容量的则为强迫油循环水冷式变压器。

Transformers designed to provide power for all kinds of electric furnaces. Resistance furnace transformers are used in resistance furnaces and salt bath furnaces for mechanical parts heating, heat treatment, powder metallurgy sintering, non-ferrous metal smelting, etc. Since the resistance of the heating element is too small, or the resistance of the heating element is too large during the heating process, a resistance transformer needs to be equipped between the furnace and the power grid to reduce and adjust the input voltage of the electric furnace. Small-capacity, low-voltage resistance furnace transformers and salt-bath furnace transformers are mostly dry-type transformers with box shells and natural cooling; medium-capacity (hundreds to thousands of VA) resistance furnace transformers are mostly oil-immersed self-cooling transformers; Large capacity is forced oil circulation water-cooled transformer.

结构特点

Structural features

电炉变压器的铁芯采用优质取向硅钢片，全自动剪切线加工，45度全斜接缝、不冲孔、无纬玻璃粘带绑扎工艺制造。线圈采用国际最新主纵绝缘结构，合理选择绕组的结构和绝缘，保证绕组有足够的机械强度。具有承受短路能力强、过载能力强、效率高、低损耗、安全、可靠等特点。电炉变压器容量根据电弧炉大小及冶炼工艺配置。它通过调压方式满足冶炼工艺的要求。调压方式分为有载调压和无励磁调压两种。有载调压的大型电炉变压器不带串联电抗器，无励磁调压的中小型电炉变压器其结构形式可分为带串联电抗器的和不带电抗器的两种，这两种结构能在最高两次电压下改变阻抗。前者靠串联电抗器的投入和切除来改变阻抗。而后者则靠改变电炉变压器自身高压绕组的联结方式来改变绕组阻抗。

The iron core of the electric furnace transformer is made of high-quality oriented silicon steel sheet, which is processed by automatic cutting line, 45 degree full bevel seam, no punching, and no weft glass adhesive tape binding process. The coil adopts the latest international main longitudinal insulation structure, and the structure and insulation of the winding are reasonably selected to ensure that the winding has sufficient mechanical strength. It has the characteristics of strong short-circuit ability, strong overload ability, high efficiency, low loss, safety and reliability. The capacity of the electric furnace transformer is configured according to the size of the electric arc furnace and the smelting process. It meets the requirements of the smelting process by means of pressure regulation. There are two voltage regulation modes: on load voltage regulation and non excitation voltage regulation. Large furnace transformers with on load voltage regulation do not have a series reactor, and small and medium-sized furnace transformers with non excitation voltage regulation can be divided into two types: those with a series reactor and those without a reactor. These two types of structures can change the impedance under the highest two voltages. The former relies on the input and removal of the series reactor to change the impedance. The latter changes the winding impedance by changing the connection method of the high-voltage windings of the furnace transformer itself.

电炉变压器的使用条件

- 1.海拔高度:<1000m
- 2.环境温度: +40°C - 25°C
- 3.空气相对湿度: 90% (+25°C)
- 4.装置种类: 户外式
- 5.安装场所: 无腐蚀性气体、无明显污垢等地区
- 6.用于炼钢、有色金属的冶炼、支取各种铁合金、硅化合物及支取纯硅等。

Normal Operating Environment Conditions

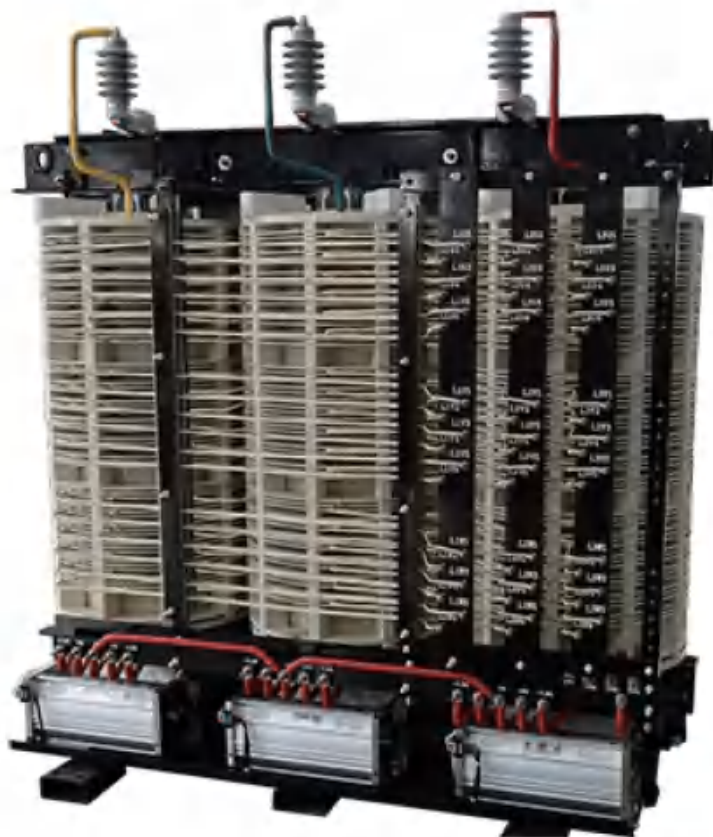
1. Altitude: <1000m
2. Ambient temperature: +40°C - 25°C
3. Relative air humidity: 90% (+25°C)
4. Device type: outdoor
5. Installation place: no corrosive gas, no obvious dirt, etc.
6. Used for steelmaking, smelting of non-ferrous metals, extraction of various ferroalloys, silicon compounds and extraction of pure silicon, etc.





移相整流变压器

PHASE-SHIFT RECTIFIER TRANSFORMER



介绍

Introduction

移相整流变压器是一种专门为中高压变频器提供多相整流电源的装置，特别在当今变频调速技术的成熟发展，急需移相整流变压器的国产化。顺应市场需求，在主导产品非包封干式变压器技术的基础上成功研制出系列多绕组移相整流变压器，并已成功运用于众多工程中。它采用延边三角形移相原理，通过多个不同的移相角二次绕组，可以组成等效相数为9相、12相、15相、18相、24相以及27相等整流变压器。变压器的一次侧直接入高压电网，其二次侧有多个三相绕组，它按 0° 、 θ° 、 $\dots$ 、 $(60-0)^\circ$ 等表示延边三角连接变压器二次侧各低压三相绕组，同时表示各低压三相绕组线电压相对三等绕组的移相角。当每相由n个H桥单元串联时， $\theta=60^\circ/n$ ，实现了输入的多重化，形成6n脉波整流。这样，如果各H桥单元功率平衡，电流幅值相同，理论上网侧输入电流中不含有 $6n+1$ 以下次谐波，并可提高功率因数，一般不需再配备无功补偿和谐波滤波装置。最适宜用于防火要求高、负荷波动大的环境中，如海上石油平台、火力发电厂、自来水厂、冶金化工、矿山建材等特殊的工作环境中。



多绕组移相整流变压器是根据不同的用户而设计，容量分为300、400、500、600、700、800、900、1000、1250、1500、1750、2000、2500、3000、3500kVA，一次阻抗较大，变压器的效率>98%，采用H级绝缘系统，高、低压绕组温升限值120K。多绕组移相整流变压器的外形结构形式多样，可根据用户的要求而定，外形尺寸可以适应用户安装的要求。

The phase-shifting rectifier transformer is a device that provides multi-phase rectifier power supply for medium and high voltage inverters. Especially with the mature development of frequency conversion and speed regulation technology, the localization of phase-shifting rectifier transformer is urgently needed. To meet the market demand, a series of multi winding phase-shift rectifier transformers have been successfully developed on the basis of the leading product non encapsulated dry type transformer technology and have been successfully applied in many projects. It adopts the extended triangle phase-shifting principle. Through multiple secondary windings with different phase-shifting angles, it can form rectifier transformers with equivalent number of phases of 9, 12, 15, 18, 24 and 27. The primary side of the transformer is directly connected to the high-voltage power grid, and its secondary side has multiple three-phase windings $\theta^\circ, \dots, (60-0)^\circ$, etc. represent the low-voltage three-phase windings at the secondary side of the extended delta connection transformer, and also represent the phase shift angle of the line voltage of each low-voltage three-phase winding relative to the third class winding. When each phase is connected in series by n H-bridge units, $\theta = 60^\circ / n$, multiple inputs are realized, and $6n$ pulse rectification is formed. In this way, if the power of each H-bridge unit is balanced and the current amplitude is the same, the theoretical input current on the grid side does not contain the next harmonic of $6n+1$, and the power factor can be improved. Generally, reactive compensation and harmonic filtering devices are not required. It is most suitable for use in environments with high fire protection requirements and large load fluctuations, such as offshore oil platforms, thermal power plants, water plants, metallurgical and chemical industries, mining and building materials and other special working environments.

The multi winding phase-shifting rectifier transformer is designed according to different users. Its capacity is divided into 300, 400, 500, 600, 700, 800, 900, 1000, 1250, 1500, 1750, 2000, 2500, 3000 and 3500kVA. The primary impedance is large, the efficiency of the transformer is more than 98%, Class H insulation system is adopted, and the temperature rise limit of high and low voltage windings is 120K. The shape and structure of multi winding phase-shifting rectifier transformer are various, which can be determined according to the user's requirements. The shape and size can meet the user's installation requirements.

执行标准

- ◇ICE726《干式电力变压器》◇GB6450~1986《干式电力变压器》
- ◇GB/T10228~1977《干式电力变压器技术参数和要求》
- ◇GB/T17211~1998《干式电力变压器负载导则》
- ◇GB/T10237~1998《电力变压器绝缘水平和绝缘试验》
- ◇GB4208~1993《外壳防护等级(IP代码)》
- ◇JB/T10008~1999《6~220KV级变压器声级》
- ◇JB/T56009~1998《干式电力变压器产品质量分等》
- ◇JB/T8636~1997《电力变流变压器》





Normal Operating Environment Conditions

- ◇ ICE726 "Dry-type Power Transformer" ◇ GB6450~1986 "Dry-type Power Transformer"
- ◇ GB/T10228~1977 "Technical parameters and requirements of dry-type power transformers"
- ◇ GB/T17211~1998 "Load Guidelines for Dry-Type Power Transformers"
- ◇ GB/T10237~1998 "Power Transformer Insulation Level and Insulation Test"
- ◇ GB4208~1993 "Enclosure Protection Level (IP Code)"
- ◇ JB/T10008~1999 "6~220KV Transformer Sound Level"
- ◇ JB/T56009~1998 "Quality Classification of Dry-Type Power Transformers"
- ◇ JB/T8636~1997 "Power Converter Transformer"

性能特点

- 1, 机械强度高, 承受短路能力强, 运行安全可靠;
- 2, 噪音低、体积小、安装简便、免维护;
- 3, 绝缘水平高、局部放电量小, 产品寿命长;
- 4, 耐潮湿、耐热冲击、防火能力强。

Performance characteristics

1. High mechanical strength, strong ability to withstand short circuit, safe and reliable operation;
- 2, low noise, small size, easy installation, maintenance-free;
3. High insulation level, small partial discharge and long product life;
- 4, Moisture resistance, thermal shock resistance, strong fire resistance.



接地变压器

GROUNDING TRANSFORMER

接地变压器简称接地变，根据填充介质，接地变可分为油式和干式；根据相数，接地变可分为三相接地变和单相接地变。接地变压器的作用是给中性点不接地的系统提供一个人为的中性点，便于采用消弧线圈或小电阻的接地方式，以减小配电网发生接地短路故障时的对地电容电流大小，提高配电系统的供电可靠性。

According to the filling medium, the grounding transformer can be divided into oil type and dry type; according to the number of phases, the grounding transformer can be divided into three-phase grounding transformer and single-phase grounding transformer. The function of the grounding transformer is to provide an artificial neutral point for the system where the neutral point is not grounded, so that the grounding method of arc suppression coil or small resistance can be used to reduce the capacitance current to ground when the distribution network has a grounding short-circuit fault, to improve the reliability of power supply of the power distribution system.

使用背景

电力系统中的6kV、10kV、35kV电网中一般都采用中性点不接地的运行方式。电网中主变压器低压侧一般为三角形接法，没有可以接地的中性点。当中性点不接地系统发生单相接地故障时，线电压三角形仍然保持对称，电力系统可以持续对用户供电1到2小时，并且电容电流比较小(小于10A)，不会引起间歇性电弧，一些瞬时性接地故障能够自行消失，这对提高供电可靠性，减少停电事故是非常有效的。但随着城市电网的不断扩张及电缆出线的不断增多，系统对地电容电流急剧增加，单相接地后流经故障点的电容电流较大(超过10A)。电弧不易熄灭、容易激发铁磁谐振过电压及产生间歇性弧光接地过电压，可能导致绝缘损坏，使线路跳闸，事故扩大，具体为：

- 1.单相接地电弧发生间歇性的熄灭与重燃，会产生弧光接地过电压，其幅值可达4U(U为正常相电压峰值)或者更高，持续时间长，会对电气设备的绝缘造成极大的危害，在绝缘薄弱处形成击穿；造成重大损失。
- 2.由于持续电弧造成空气的离解，破坏了周围空气的绝缘，容易发生相间短路。
- 3.产生铁磁谐振过电压，容易烧坏电压互感器并引起避雷器的损坏甚至可能使避雷器爆炸。这些后果将严重威胁电网设备的绝缘，危及电网的安全运行。

为了减小单相接地故障时的对地电容电流，需要在变压器中性点装设消弧线圈等补偿装置，因此需人为建立一个中性点，以便在中性点接入消弧线圈，减小接地短路故障电流，提高系统供电可靠性。

Use Background

In the 6kV, 10kV, and 35kV power grids in the power system, the neutral point is generally not grounded. The low-voltage side of the main transformer in the power grid is generally connected in a delta, and there is no neutral point that can be grounded. When a single-phase ground fault occurs in the neutral point ungrounded system, the line voltage triangle remains symmetrical, the power system can continue to supply power to the user for 1 to 2 hours, and the capacitor current is relatively small (less than 10A), which will not cause intermittent arcs, some instantaneous ground faults can disappear on their own, which is very effective in improving power supply reliability and reducing power outages. However, with the continuous expansion of urban power supply pairs and the continuous increase of cable outlet lines, the capacitance current of the system to the ground increases sharply, and the capacitance current flowing through the fault point after single-phase grounding is relatively large (more than 10A). The arc is not easy to extinguish, easily excites ferromagnetic resonance overvoltage and generates intermittent arc grounding overvoltage, which may cause insulation damage, trip the line, and expand the accident, specifically:

1. The intermittent extinguishing and re-ignition of the single-phase grounding arc will produce arc grounding overvoltage, the amplitude of which can reach 4U (U is the normal phase voltage peak value) or higher, and the duration is long, which will insulate the electrical equipment. Cause great harm, form breakdown at weak insulation; cause heavy losses.
2. Due to the dissociation of the air caused by the continuous arc, the insulation of the surrounding air is destroyed, and the interphase short circuit is prone to occur.
3. The ferromagnetic resonance overvoltage is generated, which is easy to burn out the voltage transformer and cause the damage of the arrester and may even cause the arrester to explode. These consequences will seriously threaten the insulation of power grid equipment and endanger the safe operation of the power grid.

In order to reduce the capacitance current to the ground when the single-phase ground fault occurs, it is necessary to install compensation devices such as arc suppression coils at the neutral point of the transformer. Small grounding short-circuit breaking current improves system power supply reliability.



三相接地变压器

THREE PHASE GROUNDING TRANSFORMER



此类变压器采用Z型接线(或称曲折型接线),与普通变压器的区别是,每相线圈分成两组分别反向绕在该相磁柱上,这样连接的好处是零序磁通可沿磁柱流通,而普通变压器的零序磁通是沿着漏磁磁路流通,所以Z型接地变压器的零序阻抗很小(10Q左右),而普通变压器要大得多。按规程规定,用普通变压器带消弧线圈时,其容量不得超过变压器容量的20%。z型变压器则可带90%~100%容量的消弧线圈,接地变除可带消弧圈外,也可带二次负载,可代替站用变,从而节省投资费用。

This type of transformer adopts Z-type wiring (or zigzag wiring). The difference between this type of transformer and ordinary transformer is that each phase coil is divided into two groups and wound reversely on the magnetic column of this phase. The advantage of this connection is that the zero sequence magnetic flux can flow along the magnetic column, while the zero sequence magnetic flux of ordinary transformer flows along the magnetic leakage circuit. Therefore, the zero sequence impedance of Z-type grounding transformer is very small (about 10Q), while that of ordinary transformer is much larger. According to the regulations, the capacity of ordinary transformer with arc suppression coil shall not exceed 20% of the transformer capacity. Type z transformer can be equipped with arc suppression coil with capacity of 90%~100%. In addition to arc suppression coil, grounding transformer can also be equipped with secondary load, which can replace station transformer, thus saving investment cost.



单相接地变压器

SINGLE-PHASE GROUNDING TRANSFORMER

单相接地变主要用于有中性点的发电机、Saton变压器的中性点接地电阻柜,以降低电阻柜的造价和体积。

Single-phase grounding transformers are mainly used for generators with neutral points and neutral point grounding resistance cabinets of Satons transformers to reduce the cost and volume of the resistance cabinets.



三相干式隔离变压器系列

QSG/SG Three-phase dry isolation transformer series



概述

General

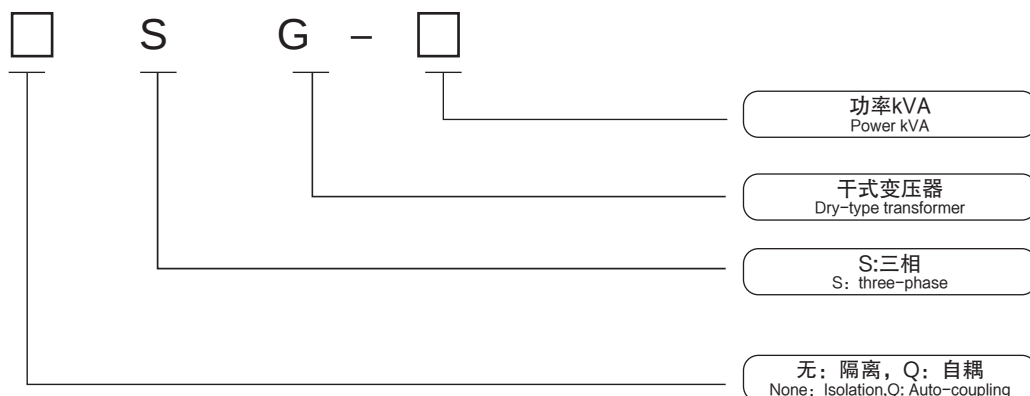
QSG/SG三相干式隔离变压器是本厂在参照国际同类产品，结合我国国情的基础上研制生产的新一代节能型电力变压器，从300VA到1600kVA之间，符合IEC439、GB5226等国际、国家标准，绕组采用脱胎整列绕制方法；变压器进行真空浸漆，使变压器的绝缘等级达到F级或H级，产品性能达到国内外先进水平。QSG/SG系列三相干式隔离变压器广泛适用于交流50Hz至60Hz,电压2000V以下的电路中，广泛用于进口重要设备、精密机床、机械电子设备、医疗设备、整流装置，照明等。产品的各种输入、输出电压的高低、联接组别、调节抽头的多少及位置（一般为 $\pm 5\%$ ）、绕组容量的分配、次级单相绕组的配备、整流电路的运用、是否要求带外壳等，均可根据用户的要求进行精心的设计与制造。

QSG/ SG three-phase dry isolation transformer is a new generation energy-saving power transformer developed by the factory based on international similar products and combined with China' s national conditions,from 300VA to 1600kVA, in line with international and national standards such as IEC439 and GB5226 The winding adopts the method of winding out of the whole row; the transformer is vacuum-impregnated,so that the insulation grade of the transformer reaches F grade or H grade, and the product performance reaches the advanced level at home and abroad. QSG/SG series three- phase dry isolation transformer is widely used in circuits with AC 50Hz to 60Hz and voltage below 2000V. It is widely used in importing important equipment, precision machine tools, mechanical and electronic equipment, medical equipment, rectifiers, lighting, etc. The various input and output voltages of the product, the connection group, the number and position of the adjustment taps(generally $\pm 5\%$) , the distribution of the winding capacity, the configuration of the secondary single-phase winding, the operation of the rectifier circuit, whether it is required. The outer casing and the like can be carefully designed and manufactured according to the requirements of the user.



型号含义

Model meaning



正常使用条件

Normal use condition

海拔高度不超过2500M

周围介质温度：不低于-25℃，不高于+40℃

电流电压波形似于正弦波；

不受雨雪侵蚀的场所，无显著摇动和冲击振动的地方；

无爆炸危险的介质中，且介质中无足以腐蚀金属和破坏绝缘的气体及导电尘埃；

输入输出电压可根据客户需求定制

The altitude does not exceed 2500M

Ambient medium temperature : no lower than -25℃, no higher than +40℃;

The current and voltage waveform is similar to a sine wave;

places not subject to rain and snow erosion, and places without significant shaking and shock vibration;

In the medium without explosion danger , and in the medium, there is no gas and conductive dust sufficient to corrode metals and destroy insulation;

Input and output voltage can be customized according to customer needs



矿用隔爆型干式变压器KBSG

KBSG Mine Flameproof Dry Type Transformer KBSG



用途及使用条件

Purpose and Conditions of Use

1.1 本产品用于有甲烷混合气体和煤尘并有爆炸危险的矿井中，作为煤矿井下综合机械化采掘设备的配电装置。

1.2 使用条件：本产品以下使用条件和额定容量下持续长期工作。

- a.海拔不超过2000m;
- b.环境温度不高于+40℃;
- c.空气相对湿度不超过95%(+25℃时);
- d.无强烈颠簸震动和垂直面的倾斜度不超过15度的环境;
- e.无足以腐蚀金属和破坏绝缘的气体 and 蒸气;
- f.无滴水的地方。

This product is used in mines with methane mixed gas, coal dust and explosion risk as the power distribution device of comprehensive mechanized mining equipment in coal mines.

Service conditions: The product can work continuously for a long time under the following service conditions and rated capacity.

- a.Altitude not exceeding 2000m;
- b.The ambient temperature is not higher than +40 °C;
- c.The relative air humidity shall not exceed 95% (at+25 °C);
- d.There is no strong turbulence and vibration and the inclination of the vertical plane does not exceed 15 degrees;
- e.There is no gas and steam that can corrode metal and damage insulation;
- f.A place without dripping water.



结构概述

Structure Overview

矿用隔爆型干式变压器KBSG由箱壳、箱盖、铁心装配、绝缘装配、高压引线、低压引线及铁路轨道用小车组成等组成。

变压器箱壳为顶开盖的隔爆型结构、在箱盖上设有四个小吊拌，用于箱盖拆卸时的起吊，箱壳两侧为波纹钢板，箱底采用厚钢板，变压器高、低压侧均设有接线法兰、连接高低压开关。箱壳上设有四个大吊拌，供变压器整体起吊之用；箱壳两端焊有接地螺栓及“≡”接地标志，供连接外接地线之用。

变压器内部有高低压连锁线及温度控制线分别与高、低压开关连接；温度控制采用PT100铂电阻或温度继电器，当变压器内温度过高时，发出超温信号。

变压器铁心装配由铁心、夹件、绝缘件等组成。铁心采用优质冷轧取向硅钢片、多级步进式全斜三接缝叠片结构，以降低空载损耗和空载电流；铁心片切口涂防锈液，铁心柱及下铁轭表面涂耐高温防锈防潮漆。夹件采用槽钢，上下拉紧采用拉螺杆结构，并采取措施防止铁心和夹件产生相对位移，以免影响产品质量。铁心绝缘件采用国产优质绝缘材料。

变压器绝缘装配包括主纵绝缘、高低压线圈、线圈压紧等结构。主纵绝缘采用优质级绝缘材料；高低压线圈采用紧绕工艺，提高了线圈的机械强度；高低压线圈采用C级绝缘纸包无氧铜导线，线圈周围的电场均匀，局放小。线圈压紧采用压钉和瓷压块结构，并采取措施防止松动。

高压引线采用电缆引出，低压引线采用电缆或铜母线引出，爬电距离及空气间隙大于GB3836.3-2000中有关规定，在正常运行条件下不会产生火花、电弧和危险温度，使用安全可靠。

小车用螺栓固定于箱体底部，可拆卸，小车轨距900/600mm。



Mining flameproof dry type transformer KBSG is composed of box shell, box cover, iron core assembly, insulation assembly, high-voltage lead, low-voltage lead and trolley for railway track.

The transformer box shell is an explosion-proof structure with top open cover. Four small hoisting mixers are set on the box cover for hoisting during the removal of the box cover. Corrugated steel plates are used on both sides of the box shell, thick steel plates are used at the bottom of the box, and connecting flanges are set on the high and low voltage sides of the transformer to connect high and low voltage switches. Four large hoisting mixers are arranged on the box shell for the integral hoisting of the transformer; Both ends of the box shell are welded with grounding bolts and "≡" grounding marks for connecting external grounding wires.

High and low voltage interlocking lines and temperature control lines inside the transformer are respectively connected with high and low voltage switches; PT100 platinum resistance or temperature relay is used for temperature control. When the temperature in the transformer is too high, an over temperature signal will be sent.

Transformer core assembly consists of core, clips, insulating parts and so on. The iron core adopts high-quality cold-rolled oriented silicon steel sheet, multi-stage stepping full-slope three-seam lamination structure to reduce no-load loss and no-load current; High temperature anti-rust and moisture-proof paint. The clamp is made of channel steel, and the upper and lower tension adopts the pull screw structure, and measures are taken to prevent the relative displacement of the iron core and the clamp, so as not to affect the product quality. The core insulation parts are made of domestic high-quality insulation materials.

Transformer insulation assembly includes main longitudinal insulation, high and low voltage coils, coil pressing and other structures. The main longitudinal insulation is made of high-quality insulating materials; High and low voltage coils adopt tight winding technology, which improves the mechanical strength of coils; High and low voltage coils are made of C-grade insulating paper wrapped oxygen free copper conductors. The electric field around the coils is uniform and the partial discharge is small. The coil shall be pressed with pressing nail and porcelain pressing block, and measures shall be taken to prevent looseness.

The high-voltage lead is led out by cable, and the low-voltage lead is led out by cable or copper bus. The creepage distance and air gap are greater than the relevant provisions in GB3836.3-2000. Under normal operating conditions, sparks, arcs and dangerous temperatures will not occur, and the use is safe and reliable.

The trolley is fixed at the bottom of the box with bolts and can be disassembled. The trolley gauge is 900/600mm.

产品制造、安装、验收标准

Product Manufacturing, Installation and Acceptance Standards

供方在产品的设计、制造和试验过程中采用了现行的国家标准、电力部行业标准及相关标准：

- ◆GB/T 16927.1-1997《高电压试验技术部分一般试验要求》
- ◆GB/T 16927.2-1997《高电压试验技术第二部分测量系统》
- ◆GB/T 5582-1993《高压电力设备外绝缘污秽等级》
- ◆GB 10237-1988《电力变压器绝缘水平和绝缘试验外绝缘的空气间隙》
- ◆GB 3836.1-2000《爆炸性环境用防爆电气设备通用要求》
- ◆GB 3836.2-2000《爆炸性环境用防爆电气设备隔爆型电气设备“d”》
- ◆GB 3836.3-2000《爆炸性环境用防爆电气设备增安型“e”》
- ◆GB 6450-1986《干式电力变压器》
- ◆GB 8286-2005《矿用隔爆型移动变电站》



The Supplier has adopted the current national standards, industrial standards of the Ministry of Electric Power and relevant standards in the process of product design, manufacturing and test:

- ◆GB/T 16927.1-1997 General Test Requirements for High-voltage Test Technology
- ◆GB/T 16927.2-1997 High Voltage Test Technology Part 2 Measurement System
- ◆GB/T 5582-1993 Pollution Level of External Insulation of High-voltage Power Equipment
- ◆GB 10237-1988 Insulation Level and Insulation Test of Power Transformer Air Gap of External Insulation
- ◆GB 3836.1-2000 General Requirements for Explosion-proof Electrical Equipment Used in Explosive Atmospheres
- ◆GB 3836.2-2000 Explosion Proof Electrical Equipment for Explosive Atmospheres Explosion Proof Electrical Equipment "d"
- ◆GB 3836.3-2000 Explosion Proof Electrical Equipment for Explosive Atmospheres Increased Safety Type "e"
- ◆GB 6450-1986 Dry Type Power Transformer
- ◆GB 8286-2005 Mining Flameproof Mobile Substation



亚威变压器
YAWEI TRANSFORMER

国内争第一 世界创名牌

Be the No.1 in China and
create a world famous brand

110kV-220kV 订货须知

110kV-220kV Order Information

选用我公司的产品时，请提供下列数据，以便更好的为阁下提供服务：

When choosing our products, please provide the following data in order to better provide service for you:

变压器型号

Transformer Model

额定容量

Rated Capacity

相数：

Phase Number

☐ 三相

three phase

☐ 单相

single phase

频率：

frequency

☐ 50HZ

☐ 60HZ

额定电压(一次侧/两次侧)：

Rated voltage (primary side/secondary side)

kV/

kV

分接范围：

tapping range

☐ $\pm 2 \times 2.5\%$ ☐ $\pm 5\%$ ☐ $\pm 8 \times 1.25\%$

☐ 其它

others

绝缘水平：

☐ 按国际要求

☐ 特殊要求 SI/LI/AC ____ / ____ / ____ kV

联结组别：

junction group

☐ Dyn11

☐ Yyn0

☐ YNd11

☐ Yd11

☐ YNyn0d11

☐ YNa0d11

☐ 其它

others

(说明：大写字母代表高压联结类型，小写字母代表中低压联结类型)

Remark: The Capital Letters are on behalf of high voltage link. The small letters are on behalf of low voltage link.

短路抗阻：

Short circuit
resistance

☐ 按国际

by international
standard

☐ 其它

others

使用条件：

Conditions of usage

1. 海拔高度 ☐ $\leq 1000\text{m}$ ☐ ____ m

Altitude

2. 环境温度 ☐ $\leq 40^\circ\text{C}$ ☐ ____ $^\circ\text{C}$

environment temperature

可选附件配置及要求：

Optional accessory configuration and requirements:

风冷系统：☐ 有(AF) ☐ 无(AN)

System

备注说明：

1、公司常规变压器报价不含以上可选附件非标配选项，非标配都会产生一定的费用，请用户仔细核实所选选项。

2、用户若对变压器附件配置没有做选择，我公司按标准配置供货。

Remark:

1. Conventional transformer quotation of our company not include above optional accessories non-standard options which will produce a fee. Please the customers verify carefully selected options.

2. If the customers have no choice of configuration of transformer accessories, our company will supply the order according to the standard configuration.

变压器进出线方式：

Transformer into outlet method

1. 高压进线方式：☐ 底部电缆进线

High voltage lines

bottom cable entry

☐ 顶部电缆进线

Top cable entry

☐ 配电流互感器CT

Power distribution transformer CT

☐ 其它

others

2. 低压出线方式：

low pressure outlet method

☐ 常规出线

Regular line

☐ 其它

others

温控器系统：

Temperature control system

1. 功能配置：☐ 常规功能(标配)

function

General features (standard)

☐ 其它(以下可复选)

Other (check below)

☐ RS485接口

RS485 interface

☐ 4~20mA模拟量输出

4~20mA analog output

2. 温控器相关控制线长度：

thermostat control line length

温控器所需长度

Thermostat needed length

☐ 标配

Standard

☐ 其它长度 ____ m

Other lengths

对我们产品的其它要求：

Other requirements for our products

企业服务

Enterprise Service

江苏亚威变压器有限公司一贯坚持“以人为本、以科技求发展、以质量争市场、以品牌创效益”的方针，严格奉行“诚实、守信”经营理念，积极发展品牌兴企的战略，努力打造一流的知名企业，不断进取、与时俱进，为广大客户提供优质的产品和良好的售后服务。

衷心感谢贵单位使用江苏亚威变压器有限公司产品，为使贵单位放心使用本公司产品，江苏亚威变压器有限公司对产品质量的售后服务承诺如下：

- 一、江苏亚威变压器有限公司售出的产品均为严格按照国标及相关行业标准生产，产品质量实行一年内免费“三包”。
- 二、江苏亚威变压器有限公司售出产品如因非人为因素导致变压器性能及技术问题，江苏亚威变压器有限公司将无条件更换，并承担相应的经济损失和赔偿。对由于其它原因造成的问题。江苏亚威变压器有限公司将积极协助解决用户困难，以保证产品及时投运，将损失减少到最低限度。
- 三、对售出的产品，江苏亚威变压器有限公司将积极配合用户搞好变压器的现场运行和维护管理。并可根据用户需要，提供成本价的备品备件。
- 四、“质量第一，用户至上”是江苏亚威变压器有限公司的准则，如产品发生质量问题，江苏亚威变压器有限公司将以最快的时间赶到现场。
- 五、此承诺书以传真件加盖江苏亚威变压器有限公司公章后生效。

Jiangsu yawei transformer Co., Ltd always keep in mind that “People First, Science and Technology for Development, Quality for Market and Brand name Benefit ” is the key words of one company; strict adherence to the business philosophy of “honest and trustworthy”; actively develop the brand of enterprise development strategy in order to create first-class well-known enterprises supplying the high quality products and good after-sales service.

Thanks for using the products of Jiangsu yawei transformer Co., Ltd ,our company commits to product quality after-sales service as follows for you relying on our products:

- 1.All the products of Jiangsu yawei transformer Co., Ltd are in strict accordance with the international standard production and related industry.The quality of the product for one year free “three guarantees” .
- 2.Sold products of Jiangsu yawei transformer Co., Ltd without the human factors leading to the transformer performance and technical problems,Jiangsu yawei transformer Co., Ltd will the unconditional replacement and bear the corresponding economic losses and damages.For the problems caused by other reasons,our company will actively assist solve the difficult of the customers in order to ensure product put into operation in time and reduce losses to a minimum.
- 3.For the sold products,Jiangsu yawei transformer Co., Ltd will actively cooperate with the customer site operation and maintenance management to improve the quality of the transformer and provide the cost price of spare parts according to the the need of the customer.
- 4.Jiangsu yawei transformer Co., Ltd take"Quality First, User Paramountcy"as tense,such as the quality problems occur the Company will rush to the scene at the fastest time.
- 5.This letter of commitment will come into effect after stamping the seal of Jiangsu yawei transformer Co., Ltd .



服务热线：  **400-600-7040**

衷心希望江苏亚威变压器有限公司的产品能使贵单位满意！

We sincerely hope that the products of Jiangsu yawei transformer Co., Ltd can make you satisfied!