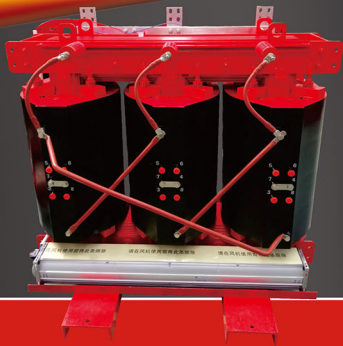


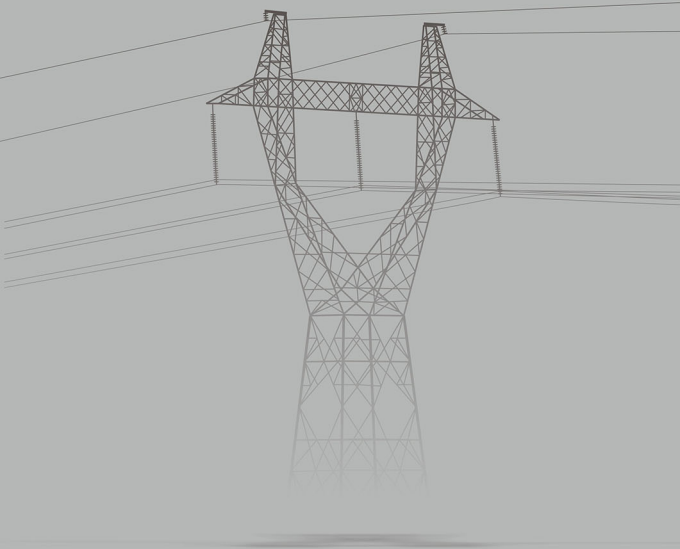


产品技术选型手册

PRODUCT TECHNOLOGY SELECTION MANUAL



泰萨（宁波）电气有限公司
Taser (Ningbo) Electric Co., Ltd.



 **Taser**

 **Taser**

德国HTT专利技术

GERMAN HTT PATENTED TECHNOLOGY

高起点规划 高水平生产 高品质设计

HIGH STARTING POINT PLANNING

HIGH LEVEL PRODUCTION

HIGH QUALITY DESIGN

近年来，变压器技术发展较快、产品更新换代频繁；未来，随着我国“节能降耗”政策的不断深入，节能型、低噪音、智能化的变压器产品预计将成为变压器行业未来的发展方向，节能型干式变压器、油浸式变压器、非晶合金变压器等新型变压器产品已开始逐步取代传统产品。泰萨与时俱进，抓住机遇，开拓创新，以高起点、高科技、高品质专注于新型变压器制造、销售和服务立志成为配电变压器制造行业里的先驱。

In recent years, the transformer technology has developed rapidly and the products have been updated frequently. In the future, with the continuous deepening of China's "energy saving and consumption reduction" policy, energy-saving, low-noise and intelligent transformer products are expected to become the future development direction of the transformer industry. New-type transformer products such as energy-saving dry-type transformers, oil-immersed transformers, and amorphous alloy transformers have begun to gradually replace traditional products. Tessa keeps pace with the times, seizes opportunities, pioneers and innovates, focuses on the manufacture, sales and service of new transformers with a high starting point, high technology and high quality, and is determined to become a pioneer in the distribution transformer manufacturing industry.



企业简介

COMPANY PROFILE

泰萨（宁波）电气有限公司坐落于美丽的海山仙子国——宁波象山，是一家崛起于长江三角洲经济区的变压器制造企业，公司专业从事35KV、10KV、6KV级变压器、电抗器、特种变压器的研发与制造。

公司大力实施“科技兴企”战略，努力提高企业核心竞争力。公司主导产品是35KV级以下环氧浇注干式电力变压器，节能型S13型、SCB13型变压器性能先进、结构新颖、外形美观，具有超低损耗、低温升、低噪音、耐冲击、抗短路能力强等特点。公司研制开发的变压器已通过国家变压器质量监督检验中心进行的例行、型式、特殊试验。所生产的产品广泛应用于电网建设、工矿企业、大型公共设施、房地产等用电领域，在客户中享有很高的品牌知名度和美誉度。产品不断创新，同时积极响应社会节能、环保的号召，顺应经济发展的趋势，畅销于东南亚及全国各地。优质的产品和服务得到了顾客的肯定和好评，并建立了长期稳定的合作关系。

公司一直以来坚持“以质量求生存、求发展，以服务求信誉、求效益”的企业宗旨，为用户提供优质的产品和满意的服务是“泰萨人”永远不变的目标。



Taser (Ningbo) Electric Co., Ltd. is located in the beautiful Haishan fairy country-Ningbo Xiangshan. It is a transformer manufacturing enterprise that rises in the Yangtze River Delta Economic Zone. R & D and manufacturing.

The company's registered capital: 58 million yuan, more than 180 employees, including 3 senior engineers, more than 20 professional and technical personnel, currently has an annual production capacity of 200 million yuan in output value. The transformers produced by the company adopt German HTT patented technology, with "high starting point planning, high quality design, high level production" as the development concept, while carrying out independent innovation, it is more active to learn advanced product technology and management from domestic and foreign outstanding enterprises. idea. The company convened a group of experienced and professional technicians and management personnel in the transformer industry, introduced international advanced production equipment and testing instruments, and used closed dust-free production workshops to make products from R & D, production to inspection, qualified delivery and final installation and commissioning have been strongly guaranteed; and passed the ISO9001 quality management system certification, ISO14001 environmental management system certification and OHSAS18000 occupational health and safety management system certification.

The company vigorously implements the "science and technology to revitalize enterprises" strategy, and strives to improve the core competitiveness of enterprises. The company's leading products are epoxy cast dry-type power transformers below 35KV. The latest energy-saving type S13 and SCB13 transformers have advanced performance, novel structure, beautiful appearance, ultra-low loss, low temperature rise, low noise, impact resistance, and short circuit resistance. Strong and other characteristics. The transformer developed by the company has passed the routine, type and special tests conducted by the National Transformer Quality Supervision and Inspection Center. The products produced are widely used in power grid construction, industrial and mining enterprises, large public facilities, real estate and other power consumption fields, and enjoy a high brand awareness and reputation among customers. Product innovation, while actively responding to the call of social energy saving and environmental protection, in line with the trend of economic development, sold well in Southeast Asia and all parts of the country. The high-quality products and first-class service have been affirmed and praised by customers, and established a long-term and stable cooperative relationship.

The company has always adhered to the enterprise tenet of "survive by quality, seek development, seek credibility by service, and seek efficiency", and to provide users with high-quality products and satisfactory service is the goal of "Tessa" forever.

资质证书
Certification

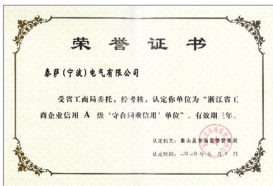
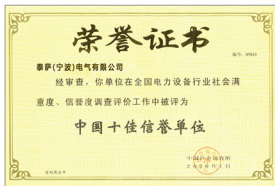
以质量求生存、求发展，
以服务求信誉、求效益



资质证书 Certification



		<h2>营业执照</h2>			扫描二维码可 登录国家企业信用 信息公示系统查询 企业、行业、法 律信息
统一社会信用代码 91330225MA2GW14F0L (1/1)		(副本)			
名称	泰萨(宁波)电气有限公司	注册资本	伍仟捌佰万元整		
类型	有限责任公司(自然人投资或控股)	成立日期	2019年11月21日		
法定代表人	张俊可	营业期限	2019年11月21日至长期		
经营范围	输配电设备、高低压开关设备、变压器设备、电子元器件、仪器仪表、环保设备、新能源设备、电力自动化保护设备、太阳能发电设备、充电桩设备、智能电网设备、电子产品、电工器材、机械设备的研发、设计、制造、加工、批发、零售、安装、维护、自营和代理各类货物和技术的进出口,但国家限定公司经营或禁止进出口的货物和技术除外,以及其他按法律、法规、国务院决定等规定未禁止或无需经营许可的项目和未列入地方产业发展负面清单的项目。(依法须经批准的项目,经相关部门批准后方可开展经营活动)				
		住所	浙江省宁波市象山县丹西街道海阔大道929号(主楼)702-384室(自主申报)		
		登记机关			
			2019年11月21日		
国家企业信用信息公示系统网址: http://www.gsxt.gov.cn		市场主体应当于每年1月1日至6月30日通过 国家信用信息公示系统报送公示年度报告。		国家市场监督管理总局监制	









泰萨技术力量雄厚，工艺装备先进，检测手段完备，产品性能优于国家标准。通过了国际质量体系认证，并通过了国家质量检测中心和国家电网公司电气设备质量检测中心各项试验检验；入围了国家电网和浙江省电力公司招投标目录。

Taser has strong technical force, advanced technology and equipment, complete testing methods, product performance is better than national standards, passed the international quality system certification, and passed the National Quality Inspection Center and National Power Grid Company's electrical equipment quality testing center conducted various tests and inspections; it was shortlisted in the bidding catalogs of the State Grid and Zhejiang Electric Power Company.

检验报告

Inspection Report

20200028 FZC    

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. 2020028-5

检验（试验）报告 Test Report





委托单位：泰伊（宁波）电气有限公司
Client:

产品名称：电力变压器
Name of Product:

产品型号：S13-M-1000/10
Product Type:

检验类别：委托试验
Test Category:

本实验室对其出具的检验（试验）结果负责，未经实验室书面同意，不得部分地复制或报告。
The laboratory is responsible for the inspection (Test) results. The report shall not be reproduced except in full, written approval of the laboratory.

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No. 2020028-5

检验（试验）报告 Test Report





委托单位：泰伊（宁波）电气有限公司
Client:


产品名称：电力变压器
Name of Product:

产品型号：S13-M-400/10
Product Type:

检验类别：委托试验
Test Category:

本实验室对其出具的检验（试验）结果负责，未经实验室书面同意，不得部分地复制或报告。
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NEIC®    

10007125319 

检验报告 TEST REPORT

样品名称：干式电力变压器
Sample Name:

型号：SCB13-1600/10
Model:

委托单位：泰伊（宁波）电气有限公司
Client:

试验类别：型式试验
Test Category:

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

NEIC®    

10007125319 

检验报告 TEST REPORT

样品名称：干式电力变压器
Sample Name:

型号：SCB13-400/10
Model:

委托单位：泰伊（宁波）电气有限公司
Client:

试验类别：型式试验
Test Category:

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

产品优势

Product advantages

五位一体的产品优势综合体

A five-in-one product
integrating advantages



数字化

DIGITAL

1



智能化

INTELLIGENT

2



VARIATIONS ON TASER PRODUCT

泰萨产品变奏曲



技术特点

Technical characteristics

德国HTT专利技术

每一次技术的突破

都是泰萨对产品苛刻不舍的极致追求

• F(H)级绝缘

薄绝缘带填料环氧树脂浇注，具有更好的耐热性能，寿命期内和热态运行时绝缘性能满足要求。

• 极强的过载能力和阻燃性

高比例填料薄绝缘结构，使产品具有更大的散热容量和良好的防火阻燃性能。短时过载可达150%。

• 局放量小

高真空加压力浇注设备和均匀场强的设计，避免了浇注时残留气泡和局部放电现象的产生。

• 浇注线圈永不龟裂

德国pc公司特有的定向凝胶技术，使环氧树脂凝胶反应透彻无应力积聚。带填料环氧树脂材料与线圈导体的热胀系数更加接近，气温或负载的骤变不会引起树脂开裂。寿命超三十年。

• 镜面浇注

特殊的浇注模具和浇注工艺，使线圈浇注一次成型，无需打磨和修复，保证线圈表面具有镜面效果，不但美观而且不易积尘，避免了二次打磨和修补所引起的表面绝缘层损伤和起层。

• 极强的抗短路和抗过电压能力

低压线圈采用错绕结构，高压线圈采用分段圆筒式结构，环氧树脂整体浇注，具有极好的机械强度和均匀电场分布。

• 良好的环境适应性

致密的环氧树脂绝缘保护层具有百分之百的防潮防水性，无需干燥处理可直接投入运行。

• 环保节能

低噪音、低损耗、安全防火无污染。

German HTT patented technology

Every technological breakthrough

Both are the ultimate pursuit of Taser's demanding products

F(H)class

Thin insulating tape filled with epoxy resin casting, has better heat resistance, lifetime and hot state. The insulation performance meets the requirements during operation.

Extremely Strong Overload Capacity And Flame Retardancy
The highly filled and casted thin insulation structure provides the product with greater heat dissipation capacity and good fire retardant performance. Short-term overload can go up to 150%.

Small NQN

The design of high vacuum and pressure pouring equipment and uniform field strength avoids the occurrence of residual bubbles and partial discharge during coating.

The Casting Coil Never Cracks

The directional gel technology held by the German PC Corporation allows the epoxy resin get to react thoroughly without stress accumulation. The encapsulated epoxy resin composite is closer to the coefficient of thermal expansion of the coil conductor, and the sudden change in temperature or load will not cause cracking of the resin, contributing to a service life of more than 30 years.

Class F (h) Insulation

Thin insulation packing ring casted by epoxy resin has better heat resistance, and can meet the insulation performance requirements during the service life and hot operation.

Mirror Casting

The special casting mold and casting process enables the forming of coil in one casting, without any polishing or repair and can ensure the surface of the coil has a mirror effect, which is beautiful and dustproof and avoids any damage to the surface insulation due to second grinding or repair.

Extremely Strong Resistance To Short Circuit And Overvoltage

The low voltage coil adopts a foil winding structure, while the high voltage coil adopts a segmented cylindrical structure, and both are fully coated by epoxy resin, and have excellent mechanical strength and uniform electric field distribution. Good Environmental Adaptability
The dense epoxy resin insulation layer is 100% moisture-proof and waterproof, and can be put into operation directly without drying treatment.

Environmental Protection And Energy Saving
Low noise, low loss, safe, fireproof and no pollution.

运行报告

我公司自2019年起至今在多个宁夏燃气有限公司订购了大流量S100-200/2000/6.4系列S100-200/2000/6.4系列户式燃气采暖、热水炉 200 多台已经顺利投入运行,在长期使用中,运行稳定,安全可靠,噪音低,排放低,外型美观,服务周到。

燃气公司管理规范,在售后及产品品质保障同时,发展更上新台阶。



运行报告

一直以来,在贵公司的大力支持下燃气采暖炉户式燃气采暖已生产的产品,均得到广泛好评。

贵公司设备质量优良,运行稳定可靠,产品造型美观,体积小,噪音低,运行效率高,电气性能稳定,同时设备从安装的收入过程中,售后服务能够及时解决贵公司人员。

贵单位对贵公司表示诚挚的感谢,希望贵公司能够继续开发优质的产品和服务。



运行报告

致:贵单位燃气采暖炉

贵公司所采购的燃气采暖炉(S100-200/2000/6.4)系列户式燃气采暖、热水炉

自投入运行以来,运行稳定,安全可靠,噪音低,排放低,外型美观,服务周到。

燃气公司管理规范,在售后及产品品质保障同时,发展更上新台阶。

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特此说明!



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用户运行报告

一直以来,在贵公司的大力支持下燃气采暖炉户式燃气采暖已生产的产品,均得到广泛好评。

贵公司设备质量优良,运行稳定可靠,产品造型美观,体积小,噪音低,运行效率高,电气性能稳定,同时设备从安装的收入过程中,售后服务能够及时解决贵公司人员。

贵单位对贵公司表示诚挚的感谢,希望贵公司能够继续开发优质的产品和服务。



运行报告
Run report



一流的人才、一流的技术、一流的设备与一流的管理构成了一流的生产流水线。公司为保障一线生产的高效运转，运用多方式、多渠道提高工作效率，通过培养岗位技术人才，提高设备操作完好率与自动化技能水平，加强物流管理，提升各车间各班组、各岗位之间工作成效，达成共识、高效、高标准的生产意识，从而促进企业经济的发展。

First-class talents, first-class technology, first-class equipment and first-class management constitute a first-class production line. In order to ensure the efficient operation of front-line production, the company uses multiple methods and multiple channels to improve work efficiency. By training post technical personnel, the equipment operation intact rate and automation skill level are improved, logistics management is strengthened, and work between teams and teams in each workshop is enhanced Effectiveness, reach a consensus, efficient and high-standard production awareness, thereby promoting the development of the enterprise economy.



铁芯车间
Iron core workshop



总装车间及检验中心
Assembly shop and inspection center

生产车间

Production workshop



数控剪切线
CNC cutting line



数控剪切线
CNC cutting line



真空浇注设备及固化炉
Vacuum casting equipment and curing furnace



绕线车间
Winding workshop

生产车间

Production workshop



数控箔绕机
CNC foil winding machine



数控测试仪
CNC Tester



大容量干式变压器

SC10-16000/35-10.5 Dyn11

Large capacity dry-type transformer

所生产的产品广泛应用于电网建设、工矿企业、大型公共设施、房地产等用电领域

The products produced are widely used in power grid construction, industrial and mining enterprises, large-scale public facilities, real estate, etc.

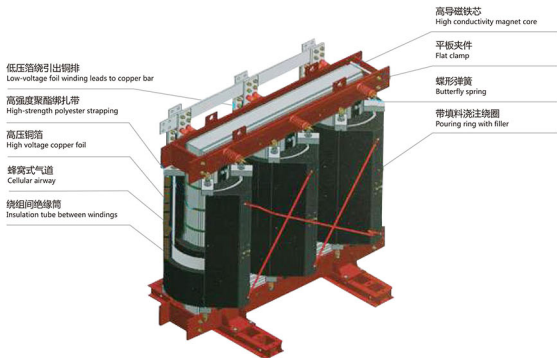
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产品设计描述 >>

Product design description



干式电力变压器系列

DRY-TYPE POWER TRANSFORMER SERIES



广泛应用于/Widely used in

国家重点项目、重点工程、知名企业

National key projects, key projects, well-known enterprises

德国HTT专利技术

German HTT patented technology

产品符合标准

PRODUCTS STANDARDS

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

SC(B)11

变压器

10kV级环氧树脂浇注干式电力变压器
10kV grade epoxy resin casting dry-type power transformer



主要技术参数

THE MAIN TECHNICAL PARAMETERS

型号 Type	损耗 Losses(W)		空载电流 No-load Current (%)	阻抗电压 Impedance Voltage(%)	声级 Noise Level dB(A)	重量 Total Weight (kg)	外形尺寸Dimension(mm)		绝缘耐热等级 Insulation heat resistance
	损耗 No-load	负载 Load(120°C)					IP00	IP20	
SC11-30/10	170	710	2	4	43	420	860x900x860	1300x1150x1010	550x820
SC11-50/10	240	1000			43	520	940x900x895	1300x1150x1050	
SC11-80/10	330	1380	1.5		43	660	990x900x960	1420x1200x1110	660x820
SC11-100/10	360	1570			44	720	1000x900x1020	1420x1200x1170	
SC11-125/10	420	1850	1.3		44	860	1120x900x1020	1420x1200x1250	660x820
SC11-160/10	480	2130			44	900	1135x900x1030	1420x1200x1300	
SCB11-200/10	550	2530	1.1		45	1050	1220x1150x1100	1620x1250x1380	660x1070
SCB11-250/10	640	2760			46	1165	1120x1150x1320	1450x1250x1380	
SCB11-315/10	790	3470	1		46	1350	1130x1150x1380	1450x1250x1440	820x1070
SCB11-400/10	880	3990			47	1660	1160x1150x1445	1530x1300x1520	
SCB11-500/10	1040	4880	0.85	48	1760	1200x1150x1475	1530x1300x1560	820x1070	
SCB11-630/10	1200	5880		48	2100	1350x1150x1380	1700x1300x1510		
SCB11-630/10	1170	5960	0.85	6	48	2010	1350x1150x1380	1700x1300x1470	820x1070
SCB11-800/10	1360	6960			49	2340	1410x1150x1400	1750x1350x1520	
SCB11-1000/10	1590	8130	0.7	6	49	2585	1410x1150x1550	1750x1350x1680	1070x1070
SCB11-1250/10	1880	9690			50	3105	1450x1150x1640	1800x1450x1810	
SCB11-1600/10	2200	11730	0.7	6	51	3630	1570x1150x1715	1900x1450x1930	1070x1070
SCB11-2000/10	2740	14450			52	4500	1850x1150x2065	2200x1500x2200	
SCB11-2500/10	3240	17170	0.85	8	52	5170	2050x1150x2155	2300x1500x2300	820x1070
SCB11-1600/10	2200	12960			52	3950	1820x1150x1880	2180x1450x2095	
SCB11-2000/10	2740	15960	0.7	8	52	4700	1930x1150x1950	2280x1500x2150	1070x1070
SCB11-2500/10	3240	18890			52	5750	2150x1150x2020	2510x1500x2250	

注/Note:

1. 以上数据仅供参考, 具体以产品外形图为准, 如有变化恕不另行通知。

2. 根据用户要求, 可提供SCR(B)11型卷铁心环氧树脂浇注干式变压器, 产品的外形尺寸、轨距和重量在订货时提供。

1. The Above Data For Selection Of Reference, Specific To The Product Outline Prevail, Subject To Change Without Notice.

2 According To User Requirements, Can Provide SCR (B) 11-type Wound Core Epoxy Cast Dry-type Transformers, Product Dimensions, Gauge And Weight When Ordering Available.



SC(B)11

20kV级环氧树脂浇注干式电力变压器
20kV grade epoxy resin cast dry-type power transformer

主要技术参数

THE MAIN TECHNICAL PARAMETERS

型号 Type	空载损耗 No-load loss (W)	负载损耗 Load loss (W)	阻抗电压 Impedance voltage (W)	空载电流 No-load current (W)	联结组标号 Connection group label	电压(kV) Voltage (kV)		高压分接 范围 High voltage tap range	声级dB Sound level dB	绝缘耐热等级 Insulation heat resistance
						高压 high pressure	低压 Low pressure			
SC11-50/20	304	1235	6	2.4	Yyn0 或 Dyn11	20	0.4	±5% 2x2.5%	49	F级
SC11-100/20	480	1995		2.2					50	
SC11-160/20	600	2470		1.8					51	
SC11-200/20	656	2954		1.8					53	
SC11-250/20	752	3420		1.6					54	
SCB11-315/20	864	4085		1.6					55	
SCB11-400/20	1024	4845		1.4					55	
SCB11-500/20	1200	5795		1.4					55	
SCB11-630/20	1360	6840		1.2					55	
SCB11-800/20	1560	8265		1.2					55	
SCB11-1000/20	1840	9785		1.0					57	
SCB11-1250/20	2120	11543		1.0					57	
SCB11-1600/20	2480	13870		1.0					58	
SCB11-2000/20	2880	16388		0.8					59	
SCB11-2500/20	3440	19380		0.8					59	
SCB11-2000/20	2880	17860	8	0.8	59					
SCB11-2500/20	3440	21280		0.8	59					



SC(B)11

35kV级环氧树脂浇注干式电力变压器

35kV epoxy resin cast dry-type power transformer

主要技术参数

THE MAIN TECHNICAL PARAMETERS

型号 Type	额定容量 Rated Capacity (KVA)	电压组合 Voltage combination			联结组标号 Connection group label	空载损耗 Load loss (W)	负载损耗 Load loss (W)	空载电流 No-load current (%)	短路阻抗 Short-circuit impedance (%)	声级LPA(db) Sound level LPA (db)
		高压 high pressure (KVA)	高压分档范围 High voltage grouping range	低压 Low pressure (KV)						
SC(B)11-50/35	50	35	±5% ±2x2.5% ±3x2.5%	0.4	Yyn0 Dyn11	400	1425	2.8	6	49
SC(B)11-80/35	80					496	1824	2.4		49
SC(B)11-100/35	100					560	2090	2.4		50
SC(B)11-160/35	160					704	2812	1.8		51
SC(B)11-200/35	200					784	3325	1.8		53
SC(B)11-250/35	250					880	3800	1.6		54
SC(B)11-315/35	315					1048	4513	1.6		55
SC(B)11-400/35	400					1224	5415	1.4		55
SC(B)11-500/35	500					1440	6650	1.4		55
SC(B)11-630/35	630					1656	7695	1.2		55
SC(B)11-800/35	800					1920	9120	1.2		55
SC(B)11-1000/35	1000					2160	10450	1.0		57
SC(B)11-1250/35	1250					2520	12730	0.9		57
SC(B)11-1600/35	1600					2880	15485	0.9		58
SC(B)11-2000/35	2000					3400	18240	0.9		59
SC(B)11-2500/35	2500					3960	21850	0.9		59
SC(B)11-3150/35	3150	5360	24510	0.8	8	64				
SC(B)11-4000/35	4000	6240	29450	0.8		64				
SC(B)11-5000/35	5000	7440	34960	0.7		64				
SC(B)11-6300/35	6300	8800	40850	0.7		64				
SC(B)11-8000/35	8000	10080	46075	0.6	9	64				
SC(B)11-10000/35	10000	11520	55575	0.6		64				
SC(B)11-12500/35	12500	14000	64600	0.5		65				
SC(B)11-16000/35	16000	17200	76000	0.5		65				
SC(B)11-20000/35	20000	20400	85500	0.4	10	65				

SC(B)13

变压器

10kV级环氧树脂浇注干式电力变压器
10kV grade epoxy resin casting dry-type power transformer



主要技术参数

THE MAIN TECHNICAL PARAMETERS

型号 Type	损耗 Losses(W)		空载电流 No-load Current (%)	阻抗电压 Impedance Voltage(%)	声级 Noise Level dB(A)	重量 Total Weight (kg)	外形尺寸Dimension(mm)		轨距 Track Spacing (mm)
	损耗 No-load	负载 Load(120°C)					IP00	IP20	
							LXWXH	LXWXH	
SC13-30/10	135	640	2	4	43	500	950x900x860	1300x1150x1010	550x820
SC13-50/10	195	900			43	600	1000x900x895	1300x1150x1050	
SC13-80/10	265	1240	43		750	1050x900x960	1420x1200x1110	600x820	
SC13-100/10	290	1410	44		820	1100x900x1020	1420x1200x1170		
SC13-125/10	340	1660	44		960	1150x900x970	1420x1200x1250	660x1070	
SC13-160/10	385	1910	44		1000	1180x900x1030	1420x1200x1300		
SCB13-200/10	445	2270	1.1		45	1150	1190x1150x1200	1450x1250x1250	820x1070
SCB13-250/10	515	2480			46	1270	1200x1150x1321	1450x1250x1400	
SCB13-315/10	635	3120	1		46	1450	1200x1150x1331	1450x1250x1440	1070x1070
SCB13-400/10	705	3590			47	1760	1230x1150x1380	1530x1300x1520	
SCB13-500/10	835	4390	0.85		48	1860	1290x1150x1456	1530x1300x1560	820x1070
SCB13-630/10	965	5290			48	2200	1430x1150x1396	1700x1300x1510	
SCB13-630/10	935	5360	0.7	48	2110	1430x1150x1396	1700x1300x1470	1070x1070	
SCB13-800/10	1090	6260		49	2440	1480x1150x1411	1750x1350x1530		
SCB13-1000/10	1270	7310	0.85	49	2690	1510x1150x1546	1750x1350x1680	820x1070	
SCB13-1250/10	1500	8720		50	3200	1590x1150x1701	1900x1450x1880		
SCB13-1600/10	1760	10500	0.7	51	3750	1660x1150x1746	1900x1450x1970	1070x1070	
SCB13-2000/10	2190	13000		52	4700	1690x1150x1915	2000x1500x2200		
SCB13-2500/10	2590	15400	0.85	52	5400	2190x1150x2185	2420x1500x2300	820x1070	
SCB13-1600/10	1760	11600		52	4200	1920x1150x1880	2180x1450x2095		
SCB13-2000/10	2190	14300	0.7	52	4900	2030x1150x1950	2280x1500x2150	1070x1070	
SCB13-2500/10	2590	17000		52	5950	2250x1150x2020	2510x1500x2450		

注/Note:

1. 以上数据仅供选型参考，具体以产品外形图为准，如有变化恕不另行通知。

2. 根据用户要求，可提供SCR(B)13型铁心环氧树脂浇注干式变压器，产品的外形尺寸、轨距和重量在订货时提供。

1. The Above Data For Selection Of Reference, Specific To The Product Outline Preval, Subject To Change Without Notice.

2. According To User Requirements, Can Provide Scr (b) 13-type Wound Core Epoxy Cast Dry-type Transformers, Product Dimensions, Gauge And Weight When Ordering Available.



SC(B)13

SC(B)10-50 ~ 2500/20(10)

20(10)KV级双电压环氧树脂浇注干式变压器
20kV double voltage epoxy resin cast dry-type transformer

主要技术参数

THE MAIN TECHNICAL PARAMETERS

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

注/Note:

以上数据仅供参考，具体以产品外形图为准，如有变化恕不另行通知。

The Above Data For Selection Of Reference, Specific To The Product Outline Prevail, Subject To Change Without Notice.



SC(B)13

SC(B)10-50 ~ 2500/20

20kV级环氧树脂浇注干式变压器

20kV epoxy resin casting dry-type transformer

主要技术参数

THE MAIN TECHNICAL PARAMETERS

型号 Type	损耗 Losses(W)		空载电流 No-load Current (%)	阻抗电压 Impedance Voltage(%)	声级 Noise Level dB(A)	重量 Total Weight (kg)	外形尺寸Dimension(mm)		轨距 Track Spacing (mm)	
	损耗 No-load	负载 Load(120°C)					IP00	IP20		
							LXWXH	LXWXH		
SC13-50/20	240	1110	1.9	6	48	700	1190x1150x1040	1690x1350x1290	660x1070	
SC13-100/20	380	1790	1.7		48	900	1240x1150x1110	1740x1350x1360		
SC13-160/20	480	2230	1.4		48	1200	1280x1150x1230	1780x1350x1480		
SCB13-200/20	520	2650			49	1350	1390x1150x1320	1890x1380x1570		
SCB13-250/20	600	3080	1.3		49	1600	1430x1150x1370	1930x1380x1620		
SCB13-315/20	680	3680			49	1770	1520x1150x1510	2020x1380x1680		
SCB13-400/20	810	4360	1.1		50	2010	1580x1150x1520	2080x1500x1700	820x1070	
SCB13-500/20	950	5220			50	2300	1630x1150x1530	2130x1500x1730		
SCB13-630/20	1080	6160	0.9		50	2600	1640x1150x1540	2170x1500x1740		
SCB13-800/20	1240	7440			51	2900	1670x1150x1600	2170x1500x1790		
SCB13-1000/20	1450	8810	0.8		51	3450	1770x1150x1680	2300x1550x1880		
SCB13-1250/20	1680	10390			51	4100	1840x1150x1770	2340x1550x2080		
SCB13-1600/20	1960	12490	0.6		6	52	4950	1920x1250x1920	2440x1600x2120	1070x1070
SCB13-2000/20	2270	14750				52	5650	1980x1250x2040	2520x1600x2240	
SCB13-2500/20	2710	17450				53	6400	2090x1250x2210	2590x1600x2460	
SCB13-2000/20	2270	16080				52	5800	2050x1250x2100	2550x1600x2350	
SCB13-2500/20	2710	19160		53		6700	2160x1250x2160	2500x1600x2410		

注/ Note:

以上数据仅供参考, 具体以产品外形图为准, 如有变化恕不另行通知。

The Above Data For Selection Of Reference, Specific To The Product Outline Prevail, Subject To Change Without Notice.

SCZB10系列/SCZB11系列干式有载电力变压器

SCZB10 Series / SCZB11 Series Dry On-load Power Transformer

主要技术参数

THE MAIN TECHNICAL PARAMETERS

型号 Type	空载损耗 No-load loss (W)	负载损耗 Load loss 120°C (W)	阻抗电压 Impedance voltage (W)	空载电流 No-load current (W)	联结组标号 Connection group label	电压(kV) Voltage (kV)		高压分接 范围 High voltage tap range	声级dB Sound level dB	绝缘耐热等级 Insulation heat resistance
						高压 high pressure	低压 Low pressure			
SCZB10-315/10	990	3610	4	1.4					51	F级
SCZB10-400/10	1125	4275		1.4					51	
SCZB10-500/10	1296	5225		1.4					53	
SCZB10-630/10	1494	6175		1.2					53	
SCZB10-630/10	1440	6365	6	1.2	Yyn0	10.5	±3x2.5 ±4x2.5	53		
SCZB10-800/10	1710	7505		1.2	或	10		0.4	55	
SCZB10-1000/10	1980	8788		1.0	Dyn11	6.3		55		
SCZB10-1250/10	2340	10450		1.0	6	55				
SCZB10-1600/10	2727	12445		1.0	3.15	55				
SCZB10-2000/10	3420	15200		0.8	55					
SCZB10-2500/10	3960	18145	0.8	55						

型号 Type	空载损耗 No-load loss (W)	负载损耗 Load loss (W)	阻抗电压 Impedance voltage (W)	空载电流 No-load current (W)	联结组标号 Connection group label	电压(kV) Voltage (kV)		高压分接 范围 High voltage tap range	声级dB Sound level dB	绝缘耐热等级 Insulation heat resistance
						高压 high pressure	低压 Low pressure			
SCZB11-315/10	880	3610	4	1.4					50	F级
SCZB11-400/10	1000	4275		1.4					50	
SCZB11-500/10	1152	5225		1.4					52	
SCZB11-630/10	1328	6175		1.2					52	
SCZB11-630/10	1280	6365	6	1.2	Yyn0	10.5	±3x2.5 ±4x2.5	52		
SCZB11-800/10	1520	7505		1.2	或	10		0.4	53	
SCZB11-1000/10	1760	8788		1.0	Dyn11	6.3		53		
SCZB11-1250/10	2080	10450		1.0	6	53				
SCZB11-1600/10	2424	12445		1.0	3.15	53				
SCZB11-2000/10	3040	15200		0.8	53					
SCZB11-2500/10	3520	18145	0.8	53						

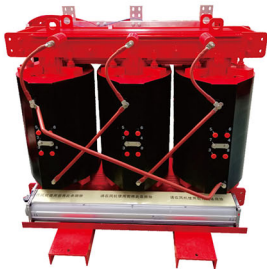
SCZ (B) 10系列干式有载调压电力变压器

SCZ (B) 10 series dry-type load-regulated power transformer

主要技术参数

THE MAIN TECHNICAL PARAMETERS

型号 Type	空载损耗 No-load loss (W)	负载损耗 120°C Load loss 120°C (W)	阻抗电压 Impedance voltage (V)	空载电流 No-load current (%)	联结组标号 Connection group label	电压(kV) Voltage (kV)		高压分接 范围 High voltage tap range	声级dB Sound level dB	绝缘耐热等级 Insulation heat resistance
						高压 high pressure	低压 Low pressure			
SCZ(B)10-2000/35	4500	19000	7	0.9	Dyn11 或 Ynd11	35-38.5	6	±3x2.5 ±4x2.5	66	F级
SCZ(B)10-2500/35	5220	22610		0.9						
SCZ(B)10-3150/35	6300	25460		0.8						
SCZ(B)10-4000/35	7380	30495		0.8						
SCZ(B)10-5000/35	8730	36100	8	0.7		6.3				
SCZ(B)10-6300/35	10350	41800		0.7		10				
SCZ(B)10-8000/35	11880	47500	9	0.6		10.5				
SCZ(B)10-10000/35	13590	57190		0.6		11				
SCZ(B)10-12500/35	16470	66500		0.5						
SCZ(B)10-16000/35	20250	78280		0.5						
SCZ(B)10-20000/35	23850	88065	10	0.4				67		





SC(B)H15

SC(B)H15-30 ~ 2500/10

10kV环氧树脂浇注非晶合金干式变压器

10kV epoxy resin cast amorphous alloy dry-type transformer

主要技术参数

THE MAIN TECHNICAL PARAMETERS

型号 Type	损耗 Losses(W)		空载电流 No-load Current (%)	阻抗电压 Impedance Voltage(%)	声级 Noise Level dB(A)	重量 Total Weight (kg)	外形尺寸 Dimension(mm)		轨距 Track Spacing (mm)		
	损耗 No-load	负载 Load(120°C)					IP00	IP20			
							LXWXH	LXWXH			
SCH15-30/10	70	710	1.6	4	53	950	1020x900x950	1450x1150x1250	550x820		
SCH15-50/10	90	1000	1.4		53	980	1050x900x980	1450x1150x1250			
SCH15-80/10	120	1380	1.3		55	1000	1080x900x1020	1500x1150x1250			
SCH15-100/10	130	1570	1.2		55	1040	1050x900x1110	1420x1200x1260			
SCH15-125/10	150	1850	1.1		56	1100	1130x900x1120	1550x1150x1400			
SCH15-160/10	170	2130	1.1		56	1220	1200x1150x1170	1600x1200x1420			
SCBH15-200/10	200	2530	1.0		57	1350	1250x1150x1280	1650x1200x1480			
SCBH15-250/10	230	2760	1.0		57	1650	1280x1150x1350	1700x1200x1500			
SCBH15-315/10	280	3470	0.9		59	2020	1300x1150x1380	1700x1200x1520		660x1070	
SCBH15-400/10	310	3990	0.8		59	2400	1350x1150x1500	1750x1200x1550			
SCBH15-500/10	360	4880	0.8	60	2900	1510x1150x1610	1950x1200x1580				
SCBH15-630/10	420	5880	0.7	61	3100	1610x1150x1680	2050x1360x1600				
SCBH15-630/10	410	5960	0.7	6	61	3060	1830x1150x1410	2070x1360x1610	820x1070		
SCBH15-800/10	480	6960	0.7		62	3600	1850x1150x1580	2100x1360x1780			
SCBH15-1000/10	550	8130	0.6		62	4300	1910x1150x1670	2160x1360x1870			
SCBH15-1250/10	650	9690	0.6		64	4990	2110x1150x1730	2360x1360x1930			
SCBH15-1600/10	760	11730	0.6		65	5900	1960x1100x2070	2410x1400x2320			
SCBH15-2000/10	1000	14450	0.5		67	6830	2060x1150x2250	2510x1400x2500			
SCBH15-2500/10	1200	17170	0.5		68	7870	2100x1200x2250	2510x1450x2500			
SCBH15-1600/10	760	12960	0.6		8	65	6150	2000x1150x2030		2450x1400x2280	1070x1070
SCBH15-2000/10	1000	15960	0.5			67	7070	2100x1150x2200		2550x1400x2450	
SCBH15-2500/10	1200	18890	0.5			68	8200	2150x 1200x2230		2550x1450x2480	

注: Note:

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SC(B)H16

SC(B)H16-30 ~ 2500/10

10kV环氧树脂浇注非晶合金干式变压器

10kV epoxy resin cast amorphous alloy dry-type transformer

主要技术参数

THE MAIN TECHNICAL PARAMETERS

型号 Type	损耗 Losses(W)		空载电流 No-load Current (%)	阻抗电压 Impedance Voltage(%)	声级 Noise Level dB(A)	重量 Total Weight (kg)	外形尺寸Dimension(mm)		轨距 Track Spacing (mm)
	损耗	负载					IP00	IP20	
SCH16-30/10	70	675	1.6	4	53	1000	1120x950x1000	1550x1150x1350	550x820
SCH16-50/10	90	950	1.4		53	1050	1150x950x1080	1550x1150x1350	
SCH16-80/10	120	1310	1.3		55	1100	1180x950x1120	1600x1150x1350	
SCH16-100/10	130	1490	1.2		55	1150	1150x950x1210	1520x1200x1360	
SCH16-125/10	150	1760	1.1		56	1200	1230x950x1220	1650x1200x1500	
SCH16-160/10	170	2020	1.1		56	1300	1300x1150x1270	1700x1200x1520	
SCBH16-200/10	200	2400	1.0		57	1450	1350x1150x1380	1750x1200x1580	660x1070
SCBH16-250/10	230	2620	1.0		57	1750	1380x1150x1450	1780x1200x1600	
SCBH16-315/10	280	3290	0.9		59	2120	1400x1150x1480	1800x1200x1620	
SCBH16-400/10	310	3790	0.8		59	2500	1450x1150x1600	1850x1200x1750	
SCBH16-500/10	360	4630	0.8		60	3050	1610x1150x1700	2050x1200x1900	
SCBH16-630/10	420	5580	0.7		61	3250	1710x1150x1800	2150x1360x1900	
SCBH16-630/10	410	5660	0.7	6	61	3310	1930x1150x1510	2170x1400x1610	820x1070
SCBH16-800/10	480	6610	0.7		62	3700	2000x1150x1680	2200x1400x1780	
SCBH16-1000/10	550	7720	0.6		62	4400	2100x1150x1770	2260x1400x1870	
SCBH16-1250/10	650	9200	0.6		64	5000	2200x1150x1830	2460x1400x1930	
SCBH16-1600/10	760	11100	0.6		65	6000	2300x1150x2070	2600x1500x2320	
SCBH16-2000/10	1000	13700	0.5		67	6950	2400x1150x2250	2700x1500x2500	
SCBH16-2500/10	1200	16300	0.5	8	68	7980	2500x1200x2250	2800x1600x2500	1070x1070
SCBH16-1600/10	760	12300	0.6		65	6250	2400x1150x2030	2700x1500x2320	
SCBH16-2000/10	1000	15100	0.5		67	7170	2500x1150x2200	2800x1500x2500	
SCBH16-2500/10	1200	17900	0.5		68	8300	2600x1200x2230	2900x1600x2500	

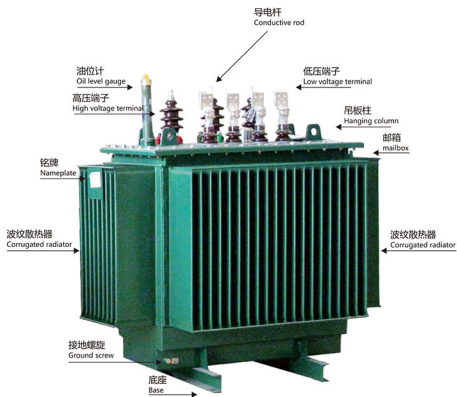
注 Note:

以上数据仅供参考, 具体以产品外形图为准, 如有变化恕不另行通知。

The Above Data For Selection Of Reference, Specific To The Product Outline Prevail, Subject To Change Without Notice.

产品设计描述 >>

Product design description



油浸式电力变压器系列

OIL-IMMERSED POWER TRANSFORMER SERIES



广泛应用于/Widely used in

国家重点工程、重点工程、知名企业

National key projects, key projects, well-known enterprises

产品符合标准

PRODUCTS STANDARDS

GB/T6451	《三相油浸式电力变压器技术参数和要求》 Specification and technical requirements for oil-immersed power transformers
JB/T3837	《变压器类产品型号编制方法》 Identification method of transformer's product type
GB1094.1	《电力变压器 第1部分总则》 Power transformers-Part1: General
IEC 60076-2	《电力变压器 第2部分液浸式变压器的温升》 Power transformers-Part2: immersed transformers
GB1094.3	《电力变压器 第3部分绝缘水平、绝缘试验和外绝缘空气间隙》 Power transformers-Part3: Insulation levels, dielectric tests and external clearances in air
GB1094.5	《电力变压器 第5部分承受短路的能力》 Power transformers-Part5: Ability to withstand short circuit
IEC 60076-10	《电力变压器 第10部分声级测定》 Power transformers-Part10: Determination of sound levels
GB/T25446	《油浸式非晶合金铁心配电变压器技术参数和要求》 Specification and technical requirements for oil-immersed amorphous alloy core distribution transformers
GB/T25289	《20kV 油浸式配电变压器技术参数和要求》 Specification and technical requirements for 20kv oil-immersed distribution transformers



S11-M

S11-M-30 ~ 2500/10

10kV级三相油浸式电力变压器

10kV three-phase oil-immersed power transformer

主要技术参数

THE MAIN TECHNICAL PARAMETERS

型号 Type	额定电压 Rated Voltage	连接组别 Symbol	损耗 Losses (W)		空载电流 No-load Current	阻抗电压 Impedance Voltage	总重量 Total Weight	外形尺寸 Dimension (mm)			轨距 Track Spacing
			空载No-load	负载Load(75°C)				(%)	长(L)	宽(W)	
	(kV)										
S11-M-30/10			100	630/600	1.5		250	700	490	860	
S11-M-50/10			130	910/870	1.3		315	720	540	920	400x400
S11-M-63/10			150	1090/1040	1.2		380	750	600	930	
S11-M-80/10	6		180	1310/1250	1.2		430	790	680	930	
S11-M-100/10			200	1580/1500	1.1		480	800	810	950	400x450
S11-M-125/10	6.3		240	1890/1800	1.1	4.0	545	1100	750	1000	
S11-M-160/10			280	2310/2200	1.0		675	1180	800	1020	
S11-M-200/10	10	Yyn0	340	2730/2600	1.0		730	900	910	1040	550x550
S11-M-250/10			400	3200/3050	0.9		830	1270	880	1060	
S11-M-315/10	10.5	Dyn11	480	3830/3650	0.9		970	1360	960	1100	660x650
S11-M-400/10			570	4520/4300	0.8		1150	1400	980	1140	
S11-M-500/10	11	Yzn11	680	5410/5150	0.8		1400	1530	1080	1220	660x750
S11-M-630/10			810	6200	0.6		1675	1560	1030	1250	660x850
S11-M-800/10	/0.4		980	7500	0.6		2045	1690	1170	1310	
S11-M-1000/10			1150	10300	0.6	4.5	2490	1820	1290	1410	660x660
S11-M-1250/10			1360	12000	0.5		3255	1840	1340	1630	
S11-M-1600/10			1640	14500	0.5		3635	2110	1410	1630	820x820
S11-M-2000/10			1940	18300	0.4	5	4520	2130	1430	1730	
S11-M-2500/10			2290	21200	0.4		5980	2250	1580	1890	1070x1070

注 Note:

1. 表内尺寸仅供参考，安装、设计必须按本公司所提供的外形图尺寸为准。

2. 对于500kVA及以下的变压器，表中斜线上方的负载损耗适用于Dyn11或Yzn11联结组，斜线下方的负载损耗适用于Yyn0联结组。

3. 根据用户需求，可接高压分接范围为±2.5%或±5%的变压器。

4. 根据用户需求，可接电压为0.9kV的变压器，特殊规格或非标准产品的各项技术参数由供需双方协商确定。

1. The dimensions in the table are for reference only. The installation and design must be based on the dimensions provided by the company.

2. For transformers of 500kVA and below, the load loss value above the diagonal line in the table applies to the Dyn11 or Yzn11 connection group, and the load loss value below the diagonal line applies to the Yyn0 connection group.

3. Transformers with high voltage tapping range of ±2.5% or ±5% can be provided according to user needs.

4. According to user needs, transformers with low voltage of 0.9kV can be provided. The technical parameters of special specifications or non-standard products are determined through consultation between the supplier and the buyer.



S11-M

S11-M-30 ~ 2500/20

20kV级三相油浸式电力变压器

20kV three-phase oil-immersed power transformer

主要技术参数

THE MAIN TECHNICAL PARAMETERS

型号 Type	额定电压 Rated Voltage	连接组别 Symbol	损耗 Losses		空载电流 No-load Current	阻抗电压 Impedance Voltage	总重量 Total Weight	外形尺寸 Dimension (mm)			轨距 Track Spacing		
			空载No-load	负载Load(75°C)				长(L)	宽(W)	高(H)			
	(kV)		(W)	(W)	(%)					(mm)			
S11-M-30/20	20/0.4	Yyn0	100	690/660	2.10	5.5	360	840	580	890	400x450		
S11-M-50/20			130	1010/960	2.00		400	860	620	930			
S11-M-63/20			150	1200/1150	1.90		510	880	700	1010			
S11-M-80/20			180	1440/1370	1.80		580	880	710	1075			
S11-M-100/20			200	1730/1650	1.60		650	920	720	1090			
S11-M-125/20			240	2080/1980	1.50		685	950	750	1100			
S11-M-160/20			290	2540/2420	1.40		720	1200	780	1020			
S11-M-200/20			340	3000/2860	1.30		895	1310	790	1190			
S11-M-250/20			400	3520/3350	1.20		955	1320	900	1060			
S11-M-315/20			480	4210/4010	1.10		1185	1400	830	1285			
S11-M-400/20		570	4970/4730	1.00	1240	1490	990	1140					
S11-M-500/20		Dyn11	Yzn11	680	5940/5660	1.00	1660	1555	905	1450	660x660		
S11-M-630/20				810	6820	0.90	1780	1660	1090	1240			
S11-M-800/20				980	8250	0.80	2250	1810	1190	1310			
S11-M-1000/20				1150	11330	0.70	2620	1880	1280	1420			
S11-M-1250/20				1380	13200	0.70	3360	1970	1390	1530			
S11-M-1600/20				1660	15950	0.60	3870	2000	1400	1730			
S11-M-2000/20				1950	19140	0.60	5720	2320	1450	1960			
S11-M-2500/20				2340	22220	0.50	6670	2420	1500	2120			
								6.0					
													1070x1070

注: Note:

1. 表格尺寸仅供参考, 安装、设计必须以本公司所提供的外形图尺寸为准。
 2. 对于500kVA及以下的变压器, 上表斜线左上方的负载损耗适用于Dyn11或Yzn11联结组, 斜线下方的负载损耗适用于Yyn0联结组。
 3. 根据用户需求, 可提供铁心结构变压器。
 4. 根据用户需求, 可提供空载损耗范围为±2x2.5%或±5%的变压器。
 5. 根据用户需求, 可提供电压为0.49kV的变压器。特殊规格或非标准产品的各项技术参数由供需双方协商确定。
 6. 根据用户需求, 可提供10kV/20kV双电压(可调)变压器。
1. The Dimensions in The Table Are For Reference Only. The Installation And Design Must Be Based On The Size Of The Outline Drawings Provided By The Company.
 2. For Transformers Of 500kva And Below, The Load Loss Value Above The Upper Diagonal Line Applies To The Dyn11 Or Yzn11 Junction Group. And The Load Loss Value Below The Diagonal Line Apply To The Yyn0 Junction Group.
 3. According to the user's requirements, the core-core structure transformer can be provided.
 4. Transformers with high voltage tapping range of ±2x2.5% or ±5% can be provided according to user needs.
 5. According to user needs, transformers with low voltage of 0.49kV can be provided. The technical parameters of special specifications or non-standard products are determined through consultation between the supplier and the buyer.
 6. According to user needs, 10kV/20kV dual voltage (adjustable) transformers can be provided.



S13-M

S13-M-30 ~ 2500/10

10kV级三相油浸式电力变压器

10kV three-phase oil-immersed power transformer

主要技术参数

THE MAIN TECHNICAL PARAMETERS

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

注/Note:

1. 外形尺寸仅供参考，安装、设计必须以本公司提供的实物尺寸为准。

2. 对于500kVA及以下的变压器，表中斜线上方的负载损耗值适用于Dyn11或Yzn11联结组，斜线下方的负载损耗值适用于Yyn0联结组。

3. 根据用户需求，可提供电压分接范围为±2x5%或±5%的变压器。

4. 根据用户需求，可提供电压为0.6kV的变压器。特殊规格或非标准产品的各项技术参数由供需双方协商确定。

1. The Dimensions in The Table Are For Reference Only. The Installation And Design Must Be Based On The Size Of The Outline Drawings Provided By The Company.

2. For Transformers Of 500kva And Below, The Load Loss Value Above The Upper Diagonal Line Applies To The Dyn11 Or Yzn11 Junction Group, And The Load Loss Value Below The Diagonal Line Applies To The Yyn0 Junction Group.

3. According to the need of users, Transformers with high voltage tapping range of 2x5% or ±5% can be provided.

4. According to the needs of users, Transformers with a low voltage of 0.6kV can be provided. The technical parameters of special specifications or non-standard products are determined by both party.



S13-M

S13-M-30 ~ 2500/20

20kV级三相油浸式电力变压器

20kV three-phase oil-immersed power transformer

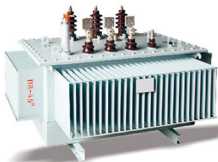
主要技术参数

THE MAIN TECHNICAL PARAMETERS

型号 Type	额定电压 Rated Voltage	连接组别 Symbol	损耗 Losses (W)		空载电流 No-load Current (%)	阻抗电压 Impedance Voltage	总重量 Total Weight	外形尺寸 Dimension (mm)			轨距 Track Spacing
			空载No-load	负载Load(75°C)				长(L)	宽(W)	高(H)	
	(kV)										
S13-M-30/20		20/0.4	Yyn0	80	690/660	2.10	400	850	590	900	400x450
S13-M-50/20				105	1010/960	2.00	440	870	640	930	
S13-M-63/20				120	1200/1150	1.90	560	890	700	1020	
S13-M-80/20				145	1440/1370	1.80	630	910	720	1100	
S13-M-100/20				160	1730/1650	1.60	710	950	750	1120	
S13-M-125/20				190	2080/1980	1.50	750	980	780	1150	
S13-M-160/20				230	2540/2420	1.40	800	1250	820	1170	400x550
S13-M-200/20				270	3000/2860	1.30	980	1330	850	1180	
S13-M-250/20				320	3520/3350	1.20	1050	1350	900	1190	
S13-M-315/20			Dyn11	385	4210/4010	1.10	1300	1400	950	1200	
S13-M-400/20				455	4970/4730	1.00	1380	1460	1000	1210	
S13-M-500/20			Yzn11	545	5940/5660	1.00	1515	1530	1030	1230	
S13-M-630/20				650	6820	0.90	1830	1580	1050	1300	660x660
S13-M-800/20				785	8250	0.80	2350	1810	1250	1330	
S13-M-1000/20				920	11330	0.70	2800	1880	1280	1420	660x820
S13-M-1250/20				1100	13200	0.70	3600	1970	1390	1530	
S13-M-1600/20			1330	15950	0.60	4200	2000	1400	1730	820x820	
S13-M-2000/20			1560	19140	0.60	5700	2320	1450	1960		
S13-M-2500/20			1870	22220	0.50	6800	2420	1500	2120		

注/Note:

1. 表内尺寸仅供参考，安装、设计必须按本公司所提供的外形尺寸为准。
 2. 对于500kVA及以下的变压器，上部斜线上的负载组别适用于Dyn11或Yzn11联结组，斜线下方的负载组别适用于Yyn0联结组。
 3. 根据用户需求，可提供特殊结构变压器。
 4. 根据用户需求，可提供高压分接范围为±2x2.5%或±5%的变压器。
 5. 根据用户需求，可提供电压为0.69kV的交流变压器，特殊规格或非标准产品的各项技术参数由供需双方协商确定。
 6. 根据用户需求，可提供10kV/20kV双电压（可调）变压器。
1. The dimensions in the table are for reference only. The installation and design must be based on the size of the outline drawings provided by the company.
 2. For transformers of 500kVA and below, the load loss value above the upper diagonal line applies to the Dyn11 or Yzn11 connection group, and the load loss value below the diagonal line applies to the Yyn0 junction group.
 3. According to the user's require, the coil core structure transformer can be provided.
 4. According to user needs, Transformers with high voltage tapping range of ±2x2.5% or ±5% can be provided.
 5. According to user needs, Transformer with a low voltage of 0.69kV can be provided. The technical parameters of special specifications or non-standard products are determined by both parties.
 6. According to user needs, 10kV/20kV dual voltage (adjustable) transformers can be provided.



S13-M.R

S13-M.R-30~2500

10kV级三相油浸式卷铁芯电力变压器

10kV three-phase oil-immersed coil core distribution transformer

主要技术参数

THE MAIN TECHNICAL PARAMETERS

型号 Type	额定电压 Rated Voltage	连接组别 Symbol	损耗 Losses (W)		空载电流 No-load Current	阻抗电压 Impedance Voltage	总重量 Total Weight	外形尺寸 Dimension (mm)			轨距 Track Spacing
	(kV)		空载No-load	负载Load(75℃)	(%)			长(L)	宽(W)	高(H)	(mm)
S13-M.R-30/10	6	Yyn0	80	630/600	1.5	4.0	290	840	550	790	400x400
S13-M.R-50/10			100	910/870	1.3		380	860	620	810	
S13-M.R-63/10			110	1090/1040	1.2		400	890	680	820	
S13-M.R-80/10			130	1310/1250	1.2		430	900	730	830	
S13-M.R-100/10			150	1580/1500	1.1		455	860	800	840	
S13-M.R-125/10			170	1890/1800	1.1		550	910	820	870	
S13-M.R-160/10			200	2310/2200	1.0		700	1200	830	890	
S13-M.R-200/10			240	2730/2600	1.0		810	1350	840	920	
S13-M.R-250/10			290	3200/3050	0.9		940	1440	880	960	
S13-M.R-315/10			340	3830/3650	0.9		990	1450	900	970	
S13-M.R-400/10			410	4520/4300	0.8		1150	1480	970	1010	
S13-M.R-500/10			480	5410/5150	0.8		1340	1780	1110	1040	
S13-M.R-630/10			570	6200	0.6		1750	1890	1130	1150	
S13-M.R-800/10			700	7500	0.6		2050	2050	1280	1220	
S13-M.R-1000/10			830	10300	0.6		2500	2130	1300	1420	
S13-M.R-1250/10			970	12000	0.5		3300	2170	1320	1620	
S13-M.R-1600/10	1170	14500	0.5	4050	2300	1350	1730				
S13-M.R-2000/10	1550	18300	0.4	5010	2350	1550	1850				
S13-M.R-2500/10	1830	21200	0.4	6400	2500	1750	2050				

注/Note:

1. 表内尺寸仅供参考。安装、设计必须以本公司所提供的的外形图尺寸为准。

2. 对于500kVA及以下的变压器，表中斜线上方的负载损耗适用于Dyn11或Yzn11联结组，斜线下方的负载损耗适用于Yyn0联结组。

3. 根据用户需求，可提供高压分接范围为±2x2.5%或±5%的变压器。

4. 根据用户需求，可提供电压为0.69kV的变压器。特殊规格或非标准产品的各项技术参数由供需双方协商确定。

1. The dimensions in the table are for reference only. The installation and design must be based on the size of the outline drawings provided by the company.

2. For transformers of 500kVA and below, the load loss value above the upper diagonal line applies to the Dyn11 or Yzn11 junction group, and the load loss value below the diagonal line applies to the Yyn0 junction group.

3. According to the needs of users, transformers with high voltage tapping range of ±2x2.5% or ±5% can be provided.

4. According to the needs of users, transformers with a low voltage of 0.69kV can be provided. The technical parameters of special specifications or non-standard products are determined by both parties.



SBH15-M

S(B)H15-M-30 ~ 2500/10

10kV级三相油浸式非晶合金变压器

10kV three-phase oil-immersed amorphous alloy transformer

主要技术参数

THE MAIN TECHNICAL PARAMETERS

型号 Type	额定电压 Rated Voltage	连接组别 Symbol	损耗 Losses (W)		空载电流 No-load Current (%)	阻抗电压 Impedance Voltage	总重量 Total Weight	外形尺寸 Dimension (mm)			轨距 Track Spacing (mm)
			空载No-load	负载Load(75°C)				长(L)	宽(W)	高(H)	
	(kV)										
SH15-M-30/10	6	Yyn0	33	630/600	1.50	4.0	420	1000	690	930	400x550
SH15-M-50/10			43	910/870	1.20		510	1020	710	950	
SH15-M-63/10			50	1090/1040	1.10		540	1040	720	960	
SH15-M-80/10			60	1310/1250	1.00		585	1060	730	980	
SH15-M-100/10			75	1580/1500	0.90		620	1090	750	1000	
SH15-M-125/10			85	1890/1800	0.80		890	1130	830	1070	
SH15-M-160/10			100	2310/2200	0.60		1000	1160	850	1090	
SBH1 5-M-200/10			120	2730/2600	0.60		1120	1170	850	1140	
SBH1 5-M-250/10			140	3200/3050	0.60		1310	1260	860	1220	
SBH15-M-315/10			10.5	Dyn11	170		3830/3650	0.50	1370	1300	870
SBH15-M-400/10	200	4520/4300			0.50	1420	1350	1100	990		
SBH15-M-500/10	11	Yzn11	240	5410/5150	0.50	1855	1860	1110	1110		
SBH15-M-630/10			320	6200	0.30	2155	2020	1190	1140		
SBH15-M-800/10			380	7500	0.30	2910	2000	1200	1360		
SBH1 5-M-1000/10			450	10300	0.30	3350	2120	1260	1450		
SBH15-M-1250/10			530	12000	0.20	3850	2290	1330	1570		
SBH15-M-1600/10			630	14500	0.20	4430	2500	1390	1710		
SBH15-M-2000/10			750	18300	0.20	5630	2650	1460	1800		
SBH15-M-2500/10			900	21200	0.20	6910	2850	1550	1870		

注 Note:

1. 表内尺寸仅供参考，安装、设计必须按本公司所提供的轮廓尺寸为准。

2. 根据用户需求，可提供电压分接范围为±2x2.5%或±5%的变压器。

3. 当铁心为三相三柱时，根据要求也可采用Yyn0连接组。

4. 30-160kVA为非标准规格。

5. 根据用户需求，可提供电压0.69kV的变压器，特殊规格或非标产品的各项技术参数由供需双方协商确定。

1. The dimensions in the table are for reference only. The installation and design must be based on the size of the outline drawings provided by the company.

2. According to the needs of users, transformers with high voltage tapping range of ±2x2.5% or ±5% can be provided.

3. When the core is a three-phase three columns, the Yyn0 coupling group can also be used according to requirements.

4. 30-160kva is non-folied winding.

5. According to the needs of users, transformers with a low voltage of 0.69kV can be provided. The technical parameters of special specifications or non-standard products are determined by both parties.



SZ11-M

SZ11-M-200 ~ 2500/10

10kV级三相油浸式有载调压变压器

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

主要技术参数

THE MAIN TECHNICAL PARAMETERS

型号 Type	额定电压 Rated Voltage	连接组别 Symbol	损耗 Losses (W)		空载电流 No-load Current	阻抗电压 Impedance Voltage	总重量 Total Weight	外形尺寸 Dimension (mm)			轨距 Track Spacing
	(kV)		空载No-load	负载Load(75°C)	(%)	(%)		长(L)	宽(W)	高(H)	(mm)
SZ11-M-200/10	6	Yyn0	380	2900	1.0	4.0	1230	1400	830	1260	550x550
SZ11-M-250/10			440	3420	0.9		1350	1410	880	1270	
SZ11-M-315/10			530	4100	0.9		1440	1430	950	1270	
SZ11-M-400/10	6.3		640	4950	0.8	1650	1440	1030	1280		
SZ11-M-500/10			760	5890	0.8	1740	1460	1090	1280		
SZ11-M-630/10	10		960	7260	0.6	2020	1560	1060	1300	660x660	
SZ11-M-800/10	10.5	Dyn11	1120	8890	0.6	2810	1670	1150	1450		
SZ11-M-1000/10			1360	10400	0.6	4.5	3610	1860	1220	1510	
SZ11-M-1250/10	11		1560	12300	0.5	4260	1930	1260	1710	820x820	
SZ11-M-1600/10		1920	14700	0.5	4760	2000	1280	1830			
SZ11-M-2000/10	/0.4		2270	18600	0.4	5.0	5760	2250	1380	1950	1070x1070
SZ11-M-2500/10		2680	21600	0.4	6820	2400	1480	2090			

注/Note:

1. 表内尺寸仅供参考，安装、设计必须以本公司所提供的外形图尺寸为准。

2. 根据用户需求，可提供高压分接范围为+4x2.5%或-5%的变压器。

3. 根据用户需求，可提供低电压为0.69kV的变压器，特殊规格或非标准产品的具体技术参数由供需双方协商确定。

1. The dimensions in the table are for reference only. The installation and design must be based on the size of the outline drawings provided by the company.

2. According to the needs of users, Transformers with high voltage tapping range of $\pm 4 \times 2.5\%$ or -5% can be provided.

3. According to the needs of users, Transformers with a low voltage of 0.69kV can be provided. The technical parameters of special specifications or non-standard products are determined by both parties.

supplies.



SZ13-M

SZ13-M-200 ~ 2500

10kV级三相油浸式有载调压变压器

10kV three-phase oil-immersed coil core distribution transformer

主要技术参数

THE MAIN TECHNICAL PARAMETERS

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

注/Note:

1. 表内尺寸仅供参考，安装、设计必须以本公司所提供的的外形尺寸为准。

2. 根据用户需求，可提供高压分接范围为 $\pm 4\pm 2.5\%$ 或 $\pm 5\%$ 的变压器。

3. 根据用户需求，可提供电压为0.69kV的变压器，特殊规格或非标准产品的具体情况请向本公司销售部门确定。

1. The dimensions in the table are for reference only. The installation and design must be based on the size of the outline drawings provided by the company.

2. According to the needs of users, Transformers with high voltage tapping range of $\pm 4\pm 2.5\%$ or $\pm 5\%$ can be provided.

3. According to the needs of users, Transformers with a low voltage of 0.69kV can be provided. The technical parameters of special specifications or non-standard products are negotiated and determined by both parties.

产品零部件系列

PRODUCT PARTS SERIES



油变铁心
Oil-immersed Transformer Core



干变铁心
Dry-type Transformer Core



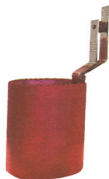
油变线圈
Oil-immersed Transformer
Winding



卷铁心
Wound-Core



干变高压线圈
Dry-type Transformer
High-voltage Winding



干变低压线圈
Dry-type Transformer
Low-voltage Winding



FAN/风机

风机为顶吹式风机，该系列风机采用进口优质不锈钢与高强度铝合金结构组成，具有风量大，能耗低，风压均匀，直接覆盖面大，冷却效果好，振动轻、噪音小、防盐雾、防霉菌、防湿热等优点。

The fan is a top-blowing fan. This series of fans uses imported high-quality stainless steel and high-strength aluminum alloy. The structure has the advantages of large air volume, low energy consumption, uniform wind pressure, large direct coverage, good cooling effect, light vibration, low noise, salt spray resistance, mold resistance, moisture resistance and so on.



TEMPERATURE/温控箱

温控箱采用最新型软硬件抗干扰技术、对电快速瞬变、共模与串模、空间磁场与空间射频干扰具有极强的抑制力，保证了测量准确及控制实时准确。I²C总线调整及存储技术，实现了历史最高温度和断电数据保存。独特的三相巡检功能，控制冷却风机的启停，超温报警、超温跳闸保证变压器安全运行。独立的4-20mA模拟工业标准电流输出功能和Rs485/232串行通讯功能，满足用户通过PC机对多台变压器温度及温控器工作状态的实时监测和远程控制。

The temperature control box adopts the latest anti-jamming technology of hardware and software, which has extremely strong restraining power on electrical fast transient, common mode and series mode, space magnetic field and space radio frequency interference, ensuring accurate measurement and real-time control accuracy. The I²C bus adjustment and storage technology realizes the storage of historical maximum temperature and power-off data. The unique three-phase inspection function controls the start and stop of the cooling fan, over-temperature alarm and over-temperature trip to ensure the safe operation of the transformer. The independent 4-20mA analog industry standard current output function and Rs485 / 232 serial communication function can satisfy the user's real-time monitoring and remote control of the temperature of multiple transformers and the working status of the thermostat through a PC.



SHELL/外壳

外壳种类有不锈钢外壳、铝合金外壳及钢板外壳三种供用户选择，可满足GB4208-2008/IEC60529：2001国标规定的各种防护等级。外壳根据建筑学原理设计框架结构具有较的强度和稳定性，具有牢固、稳定、美观等优点。

The shell type is stainless steel shell. Three types of aluminum alloy shell and steel plate shell are available for users to choose from. In accordance with GB4208-2008 / IEC60529: 2001 national standards for various protection levels. Shell rootThe frame structure designed according to the principles of architecture has relatively strong strength and stability, and is firm, stable, beautiful and other advantages.

备忘录
Memorandum



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