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Product Selection Guide

产品选型手册

变压器
Power Transformer

锦辉电气





Company Profile

企业简介

锦辉电气有限公司是一家专业从事高压电气产品及成套电气产品的生产、加工、销售和服务的综合型企业。公司拥有高级电气技术人员和优秀的专业技术人才以及完善的生产设备、检测设备，主要生产户内高压真空断路器、户外高压真空断路器、高压负荷开关、高压隔离开关、接地开关等系列产品。

锦辉电气有限公司一直尊崇以质量求生存，以信誉促发展的企业理念，并以诚信共赢，开创经营理念，创造良好的企业环境，以全新的管理模式，完善的技术，周到的售后服务，卓越的品质为生存根本，我们始终坚持用户至上，用心去做服务客户，坚持用自己的服务去打动客户。

我们真诚欢迎社会各界宾朋莅临指导，共谋发展、共创辉煌。

Jinhui Electric Co., Ltd is a comprehensive enterprise specializing in the production, processing, sales and service of high-voltage electrical products and complete sets of electrical products. The company has senior electrical technicians, excellent professional technicians and perfect production equipment and testing equipment, mainly producing indoor high-voltage vacuum circuit breakers, outdoor high-voltage vacuum circuit breakers, high-voltage load switches, high-voltage disconnectors, grounding switches and other series of products.

Jinhui Electric Co., Ltd has always respected the enterprise concept of survival by quality and development by reputation, and created a good business environment by creating a win-win business philosophy with integrity. With a new management model, perfect technology, considerate after-sales service, and excellent quality as the basis for survival, we always adhere to the principle of customer first, serve customers with heart, and use our own services to impress customers.

We sincerely welcome guests and friends from all walks of life to visit and guide us to seek common development and create brilliance.

Qualification Certificate

资质证书

相信品牌的力量！

Believe in the power of brands!

有实力才敢承诺

Only those with strength dare to make promises





助推电力行业稳健发展
Boost the steady development of the power industry

Product Catalogue

产品目录





PT

D13-25

单相圆桶变压器

Single Pole Cylindrical transformer

产品概述/Product Description

该变压器采用了高效节能卷铁芯结构设计,采用柱上式悬挂安装方式,体积小,基建投资小,减小低压供电半径,可降低低压线损 60% 以上,适合农村电网、偏远山区、分散村落、农业生产、照明和动力用电,也可用于铁路、城市电网节能改造柱上式配电线路。
This transformer adopts a high-efficiency and energy-saving wound core structure design and a pole-mounted suspension installation method. It is small in size, requires low infrastructure investment, and reduces the low-voltage power supply radius. It can cut low-voltage line losses by more than 60%. It is suitable for rural power grids, remote mountainous areas, scattered villages, agricultural production, lighting and power consumption. It can also be used in pole-mounted distribution lines for railway and urban power grid energy-saving transformation.

产品型号说明/Product Model Explanation

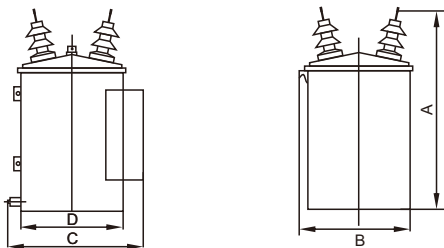
D □ □ M.R-□ / □
① ② ③ ④ ⑤ ⑥
① 单相 Single-phase
② H 非合金铁芯, 常规铁芯空白 H Non-alloy core, blank for conventional core
③ 设计序号, 9 11 15 16 Design serial number: 9 11 15 16
④ M 全密封油浸式, R 卷铁芯 M Fully sealed oil-immersed type, R Wound core
⑤ 额定容量 (kVA) Rated Capacity (kVA)
⑥ 额定电压 (kV) Rated Voltage (kV)

正常使用条件/Operating Conditions

- 海拔高度不超过 2000 米
Altitude not exceeding 2000 meters
- 运行环境温度 - 25~45℃,
Operating environment temperature: -25~45℃,
- 相对湿度不超过 95%周围无有害气体,
Relative humidity not exceeding 95%
Relative humidity not exceeding 95%
- 无易燃易爆物品
No harmful gases or flammable/explosive substances in the vicinity

主要技术参数/Technical Parameter

D11-M.R Series Single-phase Pole-mount Distribution Transformer Parameters (Ordinary Silicon Steel Sheet Core)



Model No	Rated Capacity (kVA)	Voltage Combination			Loss (kW)		Outline dimension(mm)				Weight (kg)	
		HV (kV)	HV Tap Range	LV (kV)	With Load	No-Load	A	B	C	D	Oil	Total
D11-3	3	33000 30000 17321 11547 13800 7967 7620 6350 or other	±2×2.5% or other	120 220 240 250 or other	9	45	800	400	500	300	10	70
D11-5	5				19	75	860	430	510	340	15	92
D11-10	10				36	120	910	470	550	380	22	150
D11-15	15				50	195	970	500	580	410	30	210
D11-25	25				80	290	1025	550	630	450	45	258
D11-37.5	37.5				105	360	1225	630	680	520	50	340
D11-50	50				135	500	1235	630	680	520	6	395
D11-75	75				190	650	1300	680	720	550	88	480
D11-100	100				210	850	1350	780	810	610	94	530
D11-167	167				350	1410	1460	830	590	660	138	680
D11-250	250				500	2000	1570	960	950	660	250	990
D11-333	333				600	2500	1660	960	960	660	300	1160



SCB10

环氧树脂浇注干式变压器

Epoxy resin cast dry type transformer

产品概述/Product Description

本产品具有广泛的使用领域，尤其适合使用在防火要求高的场所，如矿井、油田、地铁、发电厂、学校、医院、商业中心、高层建筑及一切户内配置系统中。

产品符合标准：GB1094.1-5、GB1094.11。

This product has a wide range of application fields, especially suitable for places with high fire protection requirements, such as mines, oil fields, subways, power plants, schools, hospitals, commercial centers, high-rise buildings and all indoor configuration systems.

The product complies with the standards: GB1094.1-5, GB1094.11.

产品型号说明/Product Model Explanation

S C B 10 - □ / 10

① ② ③ ④ ⑤ ⑥

①	三相 Three-phase
②	成形固体浇注 Molded solid casting
③	低压箔式线圈 Low-voltage foil winding
④	损耗水平代号 Loss level code
⑤	额定容量 (kVA) Rated capacity (kVA)
⑥	高压侧电压等级 (kV) High-voltage side voltage level (kV)

正常使用条件/Operating Conditions

- 安装高度：海拔不超过 1000m；
Installation height: Altitude not exceeding 1000m;
- 电源电压的波形：似于正弦波；
Waveform of power supply voltage: Similar to sine wave;
- 多相电源电压的对称性：多相变压器所连接的电源电压应近似对称；
Symmetry of multi-phase power supply voltage: The power supply voltage connected to the multi-phase transformer should be approximately symmetric;
- 最高日平均气温 +40°C；
Maximum daily average temperature: +40°C ;
- 最高年平均气温 +20°C；
Maximum annual average temperature: +20°C;
- 最低气温 -30°C (适用于户内式变压器)。
Minimum temperature: -30°C (applicable to indoor transformers).

主要技术参数/Technical Parameter

Rated Capacity (kVA)	Voltage Combination			Connection Group Label	Loss (120° kW)		No-Load Current (%)	Short Circuit Impedance (%)	Weight (kg)	
	HV (kV)	HV Tap Range	LV (kV)		With Load	No-Load			Body	With Enclosure
30	6	±5% ±2X2.5%	0.4	Yyn0 Dyn11	0.71	0.19	1.6	4	220	250
50					1	0.27	1.4		360	410
80					1.38	0.37	1.2		450	490
100					1.57	0.4	1.1		540	580
125					1.85	0.47	1.0		630	670
160					2.13	0.54	1.0		745	795
200					2.52	0.62	0.9		850	910
250					2.75	0.72	0.8		1010	1065
315	6.3				3.47	0.88	0.8	6	1235	1295
400	6.6				3.99	0.98	0.7		1370	1430
500	10				4.88	1.16	0.7		1565	1625
630	10.5				5.87	1.34	0.6		1855	1930
630	11				5.96	1.3	0.6		1800	1875
800					6.95	1.52	0.5		2140	2215
1000					8.13	1.77	0.45		2535	2620
1250					9.69	2.09	0.45		3100	3190
1600					11.73	2.45	0.45		3705	3830
2000					14.45	3.05	0.4		4230	4380
2500					17.17	3.5	0.4		5230	5380



SCB13

环氧树脂浇注干式变压器

Epoxy resin cast dry type transformer

产品概述/Product Description

本产品具有广泛的使用领域，尤其适合使用在防火要求高的场所，如矿井、油田、地铁、发电厂、学校、医院、商业中心、高层建筑及一切户内配置系统中。

产品符合标准：GB1094.1-5、GB1094.11。

This product has a wide range of application fields, especially suitable for places with high fire protection requirements, such as mines, oil fields, subways, power plants, schools, hospitals, commercial centers, high-rise buildings and all indoor configuration systems.

The product complies with the standards: GB1094.1-5, GB1094.11.

产品型号说明/Product Model Explanation

S C B 13 - □ / 10

① ② ③ ④ ⑤ ⑥

①	三相 Three-phase
②	成形固体浇注 Molded solid casting
③	低压箔式线圈 Low-voltage foil winding
④	损耗水平代号 Loss level code
⑤	额定容量 (kVA) Rated capacity (kVA)
⑥	高压侧电压等级 (kV) High-voltage side voltage level (kV)

正常使用条件/Operating Conditions

- 安装高度：海拔不超过 1000m；
Installation height: Altitude not exceeding 1000m;
- 电源电压的波形：似于正弦波；
Waveform of power supply voltage: Similar to sine wave;
- 多相电源电压的对称性：多相变压器所连接的电源电压应近似对称；
Symmetry of multi-phase power supply voltage: The power supply voltage connected to the multi-phase transformer should be approximately symmetric;
- 最高日平均气温 +40°C；
Maximum daily average temperature: +40°C ;
- 最高年平均气温 +20°C；
Maximum annual average temperature: +20°C;
- 最低气温 -30°C (适用于户内式变压器)。
Minimum temperature: -30°C (applicable to indoor transformers).

主要技术参数/Technical Parameter

Rated Capacity (kVA)	Voltage Combination			Connection Group Label	Loss (120° kW)		No-Load Current (%)	Short Circuit Impedance (%)	Weight (kg)	
	HV (kV)	HV Tap Range	LV (kV)		With Load	No-Load			Body	With Enclosure
30	6	±5% ±2X2.5%	0.4	Yyn0 Dyn11	0.64	0.135	2.0	4	240	350
50					0.90	0.195	2.0		380	490
80					1.24	0.265	1.5		470	480
100					1.41	0.290	1.5		560	675
125					1.66	0.340	1.3		650	770
160					1.91	0.385	1.3		770	890
200					2.27	0.445	1.1		880	1000
250					2.48	0.515	1.1		1040	1160
315					3.12	0.635	1.0		1270	1390
400					3.59	0.705	1.0		1410	1540
500					4.39	0.835	1.0		1600	1740
630					5.29	0.965	0.85		1900	2035
630					5.36	0.935	0.85	6	1850	1990
800					6.26	1.09	0.85		2190	2330
1000					7.31	1.27	0.85		2580	2730
1250					8.72	1.50	0.85		3150	3290
1600					10.5	1.76	0.85		3760	3910
2000					13.0	2.19	0.70		4280	4430
2500					15.4	2.59	0.70		5285	5440



S11-M

全密封油浸式电力变压器

fully sealed oil-immersed power transformer

S11-M 全密封油浸式电力变压器

fully sealed oil-immersed power transformer



产品概述/Product Description

S11-M 全密封油浸式电力变压器适用于交流 50Hz、额定工作电压 10kV 及以下的电力系统中，作为石油、冶金、化工、纺织、轻工等企业及粉尘较大场所的配电变压器。

产品符合标准：GB1094.1-5。

S11-M fully sealed oil-immersed power transformer is suitable for AC 50Hz, rated working voltage 10kV and below power systems, as distribution transformers for petroleum, metallurgy, chemical industry, textile, light industry and other enterprises and places with large dust.

The product complies with the standard: GB1094.1-5.

产品型号说明/Product Model Explanation

S	11	-	M	-	□	/	35
①	②	③	④	⑤			
①	三相 Three-phase						
②	设计序号 Design serial number						
③	全密封 Fully sealed						
④	额定容量 (kVA) Rated capacity (kVA)						
⑤	高压侧电压等级 (kV) High-voltage side voltage level (kV)						

结构特征/Structure Features

- 铁芯 Iron Core
铁芯选用高导磁晶粒取向冷轧硅钢片。铁芯为心式铁芯，全斜接缝叠积式铁芯，其铁芯柱为多级阶梯的圆截面，铁轭与铁芯为等截面。
The iron core is made of high magnetic conductivity grain-oriented cold-rolled silicon steel sheets. It is a core-type iron core with fully mitred joint lamination. The core column has a multi-step circular cross-section, and the yoke and the core have the same cross-section.
- 绕组 Winding
绕组采用瓦楞油道，不浸漆工艺，紧缩带绑扎。绕组均为同心式线圈，高压绕组具有对应分接电压要求的抽头，引至分接开关上，开关安装在箱盖上，且需切断电源后方可变换分接电压。
The winding adopts corrugated oil ducts, no dipping paint process, and is bound with tight belts. The windings are all concentric coils. The high-voltage winding has taps corresponding to the tap voltage requirements, which are led to the tap changer. The switch is installed on the tank cover, and the tap voltage can only be changed after the power is cut off.
- 安全保护装置 Safety Protection Devices
30~2000kVA 变压器装有压力释放阀；
根据用户需求可安装具有报警和跳闸端子的气体继电器；
Transformers with capacity 30~2000kVA are equipped with pressure relief valves;
A gas relay with alarm and trip terminals can be installed according to user requirements;
- 油温测量装置 Oil Temperature Measuring Device
变压器均装有玻璃温度计的管座，管座设在油箱顶部，伸入油内 120±10mm；
1000~2000kVA 变压器装有户外式信号温度计；
All transformers are equipped with a tube base for a glass thermometer. The tube base is set on the top of the oil tank and extends into the oil by 120±10mm;
Transformers with capacity 1000~2000kVA are equipped with outdoor signal thermometers;
- 变压器油箱 Transformer Oil Tank
变压器油箱由波纹壁构成，表面采用粉末喷涂、漆膜牢固。波纹散热片不但具有冷却功能，而且具有“呼吸”功能，波纹散热片的弹性可补偿因温度升降而引起的变压器油体积的变化。因此全密封变压器没有储油柜，降低了变压器整体高度；变压器在封装时采用真空注油工艺，完全去除了变压器中的潮气，变压器油不与空气接触。有效地防止氧气和水分侵入变压器而导致变压器绝缘性能下降和变压器油老化的可能，因此不用定期进行油样试验；
The transformer oil tank is composed of corrugated walls, and the surface is coated with powder coating with firm paint film. The corrugated radiating fins not only have a cooling function, but also have a "breathing" function. The elasticity of the corrugated radiating fins can compensate for the volume change of transformer oil caused by temperature rise and fall. Therefore, the fully sealed transformer has no oil conservator, which reduces the overall height of the transformer; the transformer adopts a vacuum oil filling process during packaging, which completely removes the moisture in the transformer. The transformer oil does not contact with air, which effectively prevents oxygen and moisture from entering the transformer,

正常使用条件/Operating Conditions

- 海拔高度：不超过 1000m；
Altitude: Not exceeding 1000m;
- 环境温度：-40°C ~ +40°C；
Ambient temperature: -40°C ~ +40°C；

Note: If ordering this product beyond the above conditions, please negotiate with our company.

主要技术参数/Technical Parameter

Rated Capacity (kVA)	Voltage Combination			Connection Group Label	Loss (120° kW)		No-Load Current (%)	Short Circuit Impedance (%)	Weight (kg)	
	HV (kV)	HV Tap Range	LV (kV)		With Load	No-Load			Body	With Enclosure
30	6 6.3 6.6 10 10.5 11	±5% ±2×2.5%	0.4	Yyn0 Dyn11	100	630/600	2.1	4	75	295
50					130	910/870	1.1		88	395
63					150	1090/1040	1		95	420
80					180	1310/1250	1		103	480
100					200	1580/1500	0.9		115	540
125					240	1890/1800	0.9		130	645
160					280	2310/2200	0.8		145	740
200					340	2730/2600	0.8		175	885
250					400	3200/3050	0.7		195	1010
315					480	3830/3650	0.7		230	1205
400					570	4520/4300	0.6		255	1375
500					680	5410/5150	0.6		285	1620
630					810	6200	0.6	4.5	350	1960
800					980	7500	0.5		405	2310
1000					1150	10300	0.5		490	1690
1250					1360	12000	0.5		550	3315
1600					1640	14500	0.4		625	3795

Note: The load loss value above the slash in the table is applicable to Dyn11 or Yzn11 connection groups, and the load loss value below the slash is applicable to Yyn0 connection.

S13-M 全密封油浸式电力变压器

fully sealed oil-immersed power transformer



PT

S13-M

全密封油浸式电力变压器

fully sealed oil-immersed power transformer

产品概述/Product Description

随着我国经济建设的不断发展,人民生活水平的提高、用电负荷增加、变压器设备增多,带来能源消耗大而且噪声增大,严重污染城市环境,为此世界各国都在呼吁并着手降低能耗、改善城市环境。S13-M 全密封油浸式变压器比当前城网建设用的 S9、S11 型相比,空载损耗分别平均下降 50% 和 30%,噪声水平下降 5~8db。

With the continuous development of China's economic construction, the improvement of people's living standards, the increase of electricity load, and the increase of transformer equipment, energy consumption and noise have increased significantly, which seriously pollutes the urban environment. Therefore, countries around the world are calling for and taking measures to reduce energy consumption and improve the urban environment. Compared with the S9 and S11 types currently

产品型号说明/Product Model Explanation

S 13 - M - □ / 10

① ② ③ ④ ⑤

①	三相 Three-phase
②	损耗水平代号 loss level code
③	全密封 Fully sealed
④	额定容量 (kVA) Rated capacity (kVA)
⑤	高压侧电压等级 (kV) High-voltage side voltage level (kV)

主要技术参数/Technical Parameter

Technical Parameters of 10kV Class S13-M Series Oil-Immersed Distribution Transformer

Rated Capacity (kVA)	Voltage Combination			Connection Group Label	No-Load Loss (W)	SC Impedance (%)	Weight (kg)		Overall Dimensions (mm)			Rail Spacing (mm)
	HV (kV)	HV Tap Range	LV (kV)				Oil	Total	L	W	H	
30	6 6.3 6.6 10 10.5 11	±5% 或 ±2 × 2.5%	0.4	Yyn0 Dyn11	80	4	65	250	705	445	850	400×400
50					100		75	320	745	500	880	400×400
63					110		85	375	775	515	965	400×400
80					130		95	425	790	590	985	400×400
100					150		100	480	820	640	1005	400×400
125					170		110	540	835	710	1030	550×550
160					200		120	625	865	740	1030	550×550
200					240		145	750	1085	680	1110	550×550
250					290		160	860	1175	755	1130	550×550
315					340		175	980	1190	765	1175	550×550
400					410		200	1180	1275	825	1210	660×660
500					480		225	1350	1325	880	1280	660×660
630					570	4 . 5	260	1580	1420	935	1315	660×660
800					700		285	1835	1490	985	1375	820×820
1000					830		350	2170	1690	1220	1395	820×820
1250					970		410	2645	1825	1305	1460	820×820
1600					1170		470	3240	1825	1270	1515	820×820
2000					1380		540	2860	2085	1235	1715	1070×1070
2500					1680		600	4435	2130	1255	1805	1070×1070