

△ 本广告资料由江西利百加电气有限公司印制，仅用于说明本系列产品的相关信息，江西利百加电气有限公司可能因技术升级或采用更新的生产工艺而改进本手册有关内容，或对本手册的印刷错误及不准确的信息进行必要的改进和更改，恕不另行通知。商家订货时请随时联系本公司，以证实相关信息。

♻️ 采用环保纸印刷，保护环境人人有责

© 江西利百加电气有限公司版权所有



江西利百加电气有限公司
JIANGXI LIBAIJIA ELECTRIC CO.,LTD.

INTELLIGENT
ELECTRICAL

TRANSFORMER
Manufacturing Expert

卓越品质 变压器选型手册

LBAJI®

Build a smart power system

江西利百加电气有限公司

JIANGXI LIBAIJIA ELECTRIC CO.,LTD.

江西省上饶市万年县高新技术产业园丰收工业园区建业路

Jianye Road, Fengshou Industrial Park, High-tech Industrial Park, Wannian County, Shangrao City, Jiangxi Province

电话 /Tel: 0793-3787733

传真 /Fax: 0793-3787030

手机 /Mob: 137-5531-7322

邮箱 /E-mail: 1992816200@qq.com

网站 /Web: www.jxlbaji.com



扫描浏览电子样本
electronic sample

LBAJI® 利百加
Build a smart power system

JIANGXI LIBAIJIA
ELECTRIC CO.,LTD.
江西利百加电气有限公司



Jiangxi Libaijia Electric Co., Ltd., one of the subsidiaries of Libaijia Group, is a specialized high-tech enterprise that integrates research and development, production, and sales of power transformers, box type substations, and other products. The company is located in Shangrao City, known as the "Land of Wealth and County of Beauty", 80 kilometers north of Nanchang Airport and adjacent to Hangzhou Changsha Expressway. The company covers a total area of 50 acres, with a building area of 30000 square meters and 120 employees, including 23 professional and technical personnel. It is a key high-tech enterprise cultivated in Shangrao City, Jiangxi Province.

The company mainly produces a series of products including 10KV and 35KV oil immersed transformers, epoxy resin dry-type transformers, photovoltaic transformers, box type transformers, etc. The transformer series has been certified by the National Transformer Quality Supervision and Inspection Center. The company strictly implements quality standardization management and has successively passed ISO9001:2008 quality management system certification, ISO14001: 2004 Environmental Management System Certification, OHSAS18001: 2007 Occupational Health and Safety Management System, PCCC Energy saving Product Certification, etc. In recent years, with the efforts of the company's R&D team, more than 20 domestic invention patents have been obtained. At the same time, the company has introduced advanced equipment such as fully automatic double foil winding machines, dry-type transformer epoxy resin vacuum casting machines, computer-controlled transformer vacuum drying tanks, coil drying furnaces, large-scale transformer testing equipment platforms, fully automatic CNC transverse and longitudinal cutting machines, partial discharge shielding rooms, temperature rise testing rooms, and CNC multifunctional bending machines. Continuously creating core competitiveness for enterprises.

Jiangxi Libaijia has always been committed to providing valuable and high-quality products and services to meet customer and market demands. We continue to uphold the corporate spirit of "integrity based, innovation driven" and aim for sustainable development and mutual benefit. The company will continue to expand its production scale, improve product quality, and strive to continuously develop towards specialization, scale, and internationalization. It will also increase investment in technology and equipment to make the enterprise move towards becoming a modern, energy-saving, environmentally friendly, and technology-based large enterprise. Sincerely welcome customers to seek common development and create a win-win future together

About US

关于我们

 **1000+**
产品类别
Product Category

 **2009**
成立时间
Establishment time

 **20**
生产经验
Production experience

 **2 亿**
公司营业额
Company revenue

江西利百加电气有限公司,利百加集团旗下子公司之一,是一家集研发,生产,销售电力变压器,箱式变电站等专业化的高新技术企业,公司座落在有着“富饶之洲,信美之郡”美誉的上饶市,北临南昌机场 80 公里,紧临杭长高速。公司总占地面积 50 亩,建筑面积达 30000 平方米,员工 120 人,其中专业技术人员 23 人,是江西省上饶市重点培育高新技术企业。

公司主要生产: 10KV 级 35kv 级油浸式变压器,环氧树脂干式变压器,光伏变压器,箱式变压器等系列产品,变压器系列均已通过国家变压器质量监督检验中心认证,公司严格执行质量标准化管理,先后通过 ISO9001:2008 质量管理体系认证, ISO14001:2004 环境管理体系认证, OHSAS18001:2007 职业健康安全管理体系, PCCC 节能产品认证等。近年来,在公司研发团队的努力下,已通过国内发明专利 20 多项。同时公司引进全自动双卷箔式绕线机,干式变压器环氧树脂真空浇注机,计算机控制变压器真空干燥罐,线圈干燥炉,变压器大型检测设备台,全自动数控横剪纵切机设备,局放屏蔽室,温升试验室,数控多功能折弯机等先进设备。为企业持续创造核心竞争力。

江西利百加始终以提供有价值,高质量的产品和服务,满足客户和市场需求为宗旨,继续发扬“诚信立足,创新致远”的企业精神,以可持续发展和互利共赢为目标。公司将扩大公司生产规模,提高产品质量,努力使公司不断向专业化,规模化,国际化的方向发展,并加大科技和设备的投入,使企业向节能,环保,科技型的现代化大企业迈进。真诚欢迎广大客户共谋发展,共创双赢的美好未来

通过多年在行业的深耕细作,公司凭借卓越的产品质量和诚信的服务赢得了市场的广泛认可。并且自主研发了 S20 国网标准型,紧凑型等系列产品,通过长期积极参与国内外重要展会,我们成功地与遍布全国的客户建立了稳固的合作关系。我们坚信,品质是合作的基石,共赢是发展的动力。

未来,我们将继续秉持这一理念,深化与现有客户的合作,共同开拓市场,实现更大的商业成功。

Through years of deep cultivation and meticulous work in the industry, the company has won widespread recognition in the market with excellent product quality and honest service. And we have independently developed the SCB11, SCB12, SCB13, SCB14, and SCB18 series products. Through long-term active participation in important domestic and international exhibitions, we have successfully established stable cooperative relationships with customers all over the country. We firmly believe that quality is the cornerstone of cooperation, and win-win is the driving force of development.

In the future, we will continue to uphold this philosophy, deepen cooperation with existing customers, jointly explore the market, and achieve greater commercial success.



Production Equipment

生产设备

利百加始终以提供有价值，高质量的产品和服务，满足客户和市场需求为宗旨，继续发扬“诚信立足，创新致远”的企业精神，以可持续发展和互利共赢为目标。

公司将继续扩大公司生产规模，提高产品质量，努力使公司不断向专业化，规模化，国际化的方向发展，并加大科技和设备的投入，使企业向节能，环保，科技型的现代化大企业迈步。真诚欢迎广大客户共谋发展，共创双赢的美好未来。

Libaijia has always been committed to providing valuable and high-quality products and services to meet customer and market needs. We continue to uphold the corporate spirit of "integrity based, innovation driven" and aim for sustainable development and mutual benefit. The company will continue to expand its production scale, improve product quality, and strive to continuously develop towards specialization, scale, and internationalization. It will also increase investment in technology and equipment to make the enterprise move towards becoming a modern, energy-saving, environmentally friendly, and technology-based large enterprise. Sincerely welcome customers to seek common development and create a win-win future together.



JIANGXI LIBAIJIA
ELECTRIC CO.,LTD.
江西利百加电气有限公司

LBAJI 利百加
Build a smart power system

Detection Centre

检测中心

我们深知产品质量与性能的重要性。因此，我们设立了一个专业且先进的产品实验室，致力于变压器及相关电气设备的检测及研发。实验室不仅配备了局放屏蔽室和温升试验室，还承担着对产品进行严格测试的任务，包括但不限于绝缘测试，耐压测试，空负载测试和温升试验等，以确保我们的变压器在各种条件下都能稳定运行。通过持续的创新和严格的品质管理，我们致力于推动变压器技术的进步，满足客户不断变化的需求。

We understand the importance of product quality and performance. Therefore, we have established a professional and advanced product laboratory dedicated to the testing and research and development of transformers and related electrical equipment. The laboratory is not only equipped with a partial discharge shield room and a temperature rise test room, but also undertakes the task of strictly testing products, including but not limited to insulation test, withstand voltage test, empty load test and temperature rise test, etc., to ensure that our transformers can operate stably under various conditions. Through continuous innovation and strict quality management, we are committed to promoting the advancement of transformer technology and meeting the changing needs of our customers.



Qualification Honor

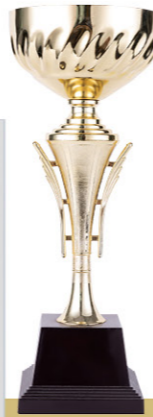
资质荣誉

在不懈努力和持续创新的推动下，我们公司不仅在市场上取得了显著的成绩，还赢得了业界和社会的高度认可。

我们深感自豪的是，企业所获得的一系列荣誉不仅代表了对我们过去成绩的肯定，更是对未来发展的鼓励。每一个奖项都凝聚着团队的智慧和汗水，是我们不断前进的动力。展望未来，我们将继续以荣誉为鞭策，坚持高标准、严要求，努力创造更多辉煌。

Driven by unremitting efforts and continuous innovation, our company has not only achieved remarkable results in the market, but also won high recognition from the industry and society.

We are deeply proud that the series of honors that our company has received not only represent recognition of our past achievements, but also encourage our future development. Every award embodies the wisdom and sweat of the team, and is the driving force for us to constantly move forward. Looking ahead to the future, we will continue to use honor as a driving force, adhere to high standards and strict requirements, and strive to create more brilliance.



Type test report

型式试验报告

在不懈努力和持续创新的推动下, 我们公司不仅在市场上取得了显著的成绩, 还赢得了业界和社会的高度认可。

我们深感自豪的是, 企业所获得的一系列荣誉不仅代表了对我们过去成绩的肯定, 更是对未来发展的鼓励。每一个奖项都凝聚着团队的智慧和汗水, 是我们不断前进的动力。展望未来, 我们将继续以荣誉为鞭策, 坚持高标准、严要求, 努力创造更多辉煌。

Driven by unremitting efforts and continuous innovation, our company has not only achieved remarkable results in the market, but also won high recognition from the industry and society.

We are deeply proud that the series of honors that our company has received not only represent recognition of our past achievements, but also encourage our future development. Every award embodies the wisdom and sweat of the team, and is the driving force for us to constantly move forward. Looking ahead to the future, we will continue to use honor as a driving force, adhere to high standards and strict requirements, and strive to create more brilliance.



Product Index

产品索引

A 油浸式电力变压器系列
Oil-Immersed Power Transformer Series 01-13



S □ -M 油浸式电力变压器	01-06
S11-M 油浸式电力变压器	03
S13-M 油浸式电力变压器	04
S20-M 油浸式电力变压器	05
S22-M 油浸式电力变压器	06
35kV 油浸式电力变压器	07-10
SFZ11-35kV 有载油浸式电力变压器	11-13

B 立体三角形变压器系列
Three-Dimensional Triangle Transformer Series 14-18



S □ -M-L 立体三角形变压器	14-18
S11-M-L 立体三角形变压器	17
S13-M-L 立体三角形变压器	18

C 能源箱式变电站系列
Energy Box-type Substation Series 19-22



35kV 新能源箱式（华式）变电站	19-22
-------------------	-------

D 干式变压器系列
Dry-Type Transformer Series 23-36



SC (B) □ 树脂绝缘干式变压器	23-30
10KV 级 SC(B)11 树脂绝缘干式变压器	27
10KV 级 SC(B)13 树脂绝缘干式变压器	28
10KV 级 SC(B)12 树脂绝缘干式变压器	29
10KV 级 SC(B)14 树脂绝缘干式变压器	29
10KV 级 SC(B)18 树脂绝缘干式变压器	29
35KV 级 SC(B)10 树脂绝缘干式变压器	30
SG (B) □ 环保型干式变压器	31-36
10KV 级 SG(B)11H 级环保型干式变压器	36
10KV 级 SG(B)13H 级环保型干式变压器	36

LBAJI 利百加

Build a smart power system

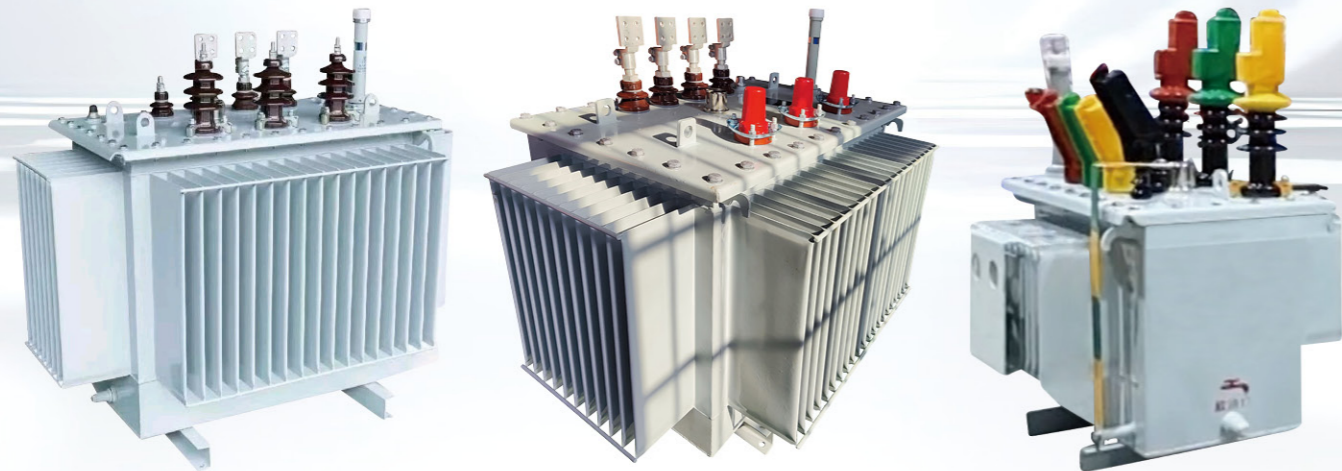
利“百”年品牌·加持智能电气

S □ -M 油浸式电力变压器

OIL-IMMERSED

POWER TRANSFORMER

www.jxlbaji.com



S □ -M 油浸式电力变压器

OIL-IMMERSED

POWER TRANSFORMER

LBAJI 利百加

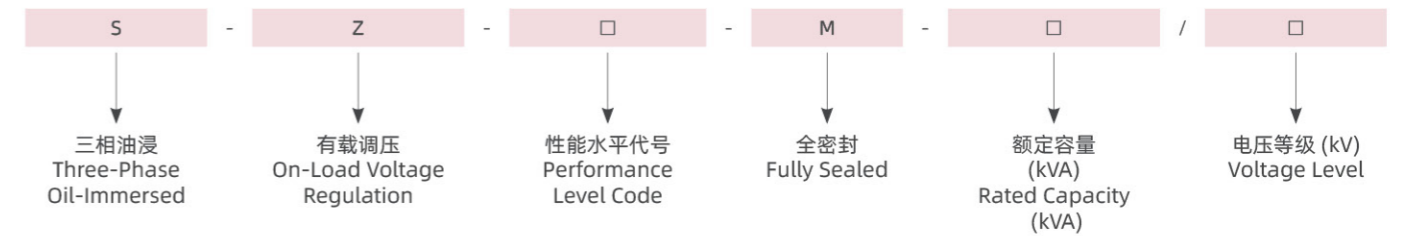
Build a smart power system

概述 / Overview

S □ -M 型系列三相油浸式电力变压器是国家科技新产品，在新型电力产品结构设计的基础上进行开发的。设计的主导思想是满足产品的可靠性，提高产品的性能，设计中根据新型电力产品的实际情况，重新调整了一些损耗系数及结构，使损耗设计值更符合实测值；同时进行了优化设计，合理确定铜铁比例，使材料成本最低，结构也更合理。

S □ -M series three-phase oil-immersed power transformer is a new product of national science and technology, developed on the basis of new power product structure design. The main idea of the design is to meet the reliability of the product and improve the performance of the product. According to the actual situation of the new power product, some loss coefficients and structures are re-adjusted in the design to make the loss design value more in line with the real side value. At the same time, the optimized design is carried out to determine the copper and iron ratio reasonably, so that the material cost is lowest and the structure is more reasonable.

型号含义 / Model Meaning



铁芯 / Iron Core

采用高导磁、低损耗的优质高性能硅钢片，降低了空载损耗

Adopt high-quality, high-performance silicon steel sheet with high magnetic permeability and low loss to reduce no-load loss

绕组和器身 / Windings And body

采用高导磁、低损耗的优质高性能硅钢片，降低了空载损耗

Adopt high-quality, high-performance silicon steel sheet with high magnetic permeability and low loss to reduce no-load loss

结构 / Structure

630kVA 及以上产品低压采用新型螺旋式。器身装配总结了新型电力变压器成熟经验，器身装配后成为一个牢固的整体，保证产品满足电气性能和突发短路时机械强度要求。本系列产品为全密封结构，保证了变压器油与外界空气的隔绝，防止了油的老化，提高了变压器的运行可靠性。

油箱采用波纹油箱：在箱壁上下各开一长孔，以促进油在波纹片里的循环。这种油箱工艺简单，机械强度高，油的流动性及散热能力提高了，焊接效果好，不易渗漏。

Products with 630kVA and above adopt a new spiral type for low pressure. Body assembly summarizes the mature experience of new power transformers. After assembly, the body becomes a solid whole, ensuring that the product meets the electrical performance and mechanical strength requirements in case of sudden short circuits. This series of products has a fully sealed structure, which ensures the isolation of transformer oil from the outside air, prevents the aging of the oil, and improves the operating reliability of the transformer.

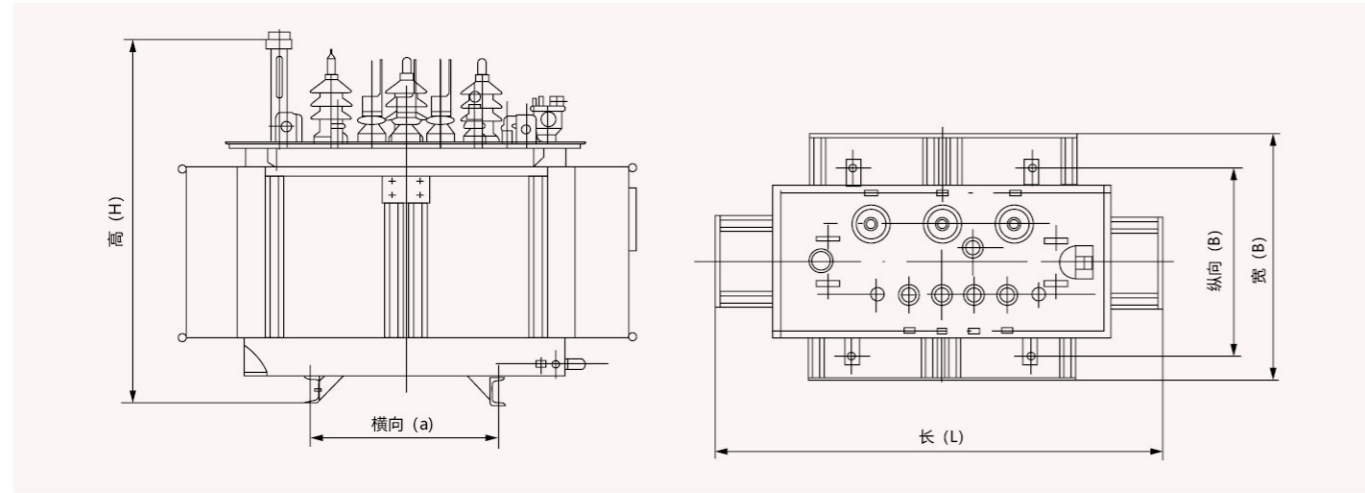
The oil tank adopts a corrugated oil tank: a long hole is opened on the bottom and bottom wall of the tank to promote the circulation of oil in the corrugated sheet. This fuel tank has simple process, high mechanical strength, improved oil fluidity and heat dissipation capacity, good welding effect and is not easy to leak.

S11-M 油浸式电力变压器

OIL-IMMERSED
POWER TRANSFORMER

LBAJI 利百加
Build a smart power system

外形及安装尺寸 / Appearance and installation dimensions



注：提供的外形尺寸和重量仅供设计选型时参考，最终尺寸和重量以我公司产品图纸为准。

Note: The dimensions and weight provided are only for reference in the design and selection, and the final dimensions and weight are subject to our company's product drawings.

S11-M油浸式电力变压器技术参数 / Technical Parameters Of S11-M Oil-Immersed Power Transformer

额定容量 Rated Capacity (KVA)	电压组合及分接范围 Voltage Combination And Tap Range (kV)			联结组别 Connection Groups	空载 损耗 No Load Loss (W)	负载损耗 Load Loss (W)	空载 电流 No Load Current (%)	短路 阻抗 Short Circuit Impedance (%)	外形尺寸 / Overall Size			轨距 / Gauge Horizontal × Vertical ax b	重量 Weight (kg)
	高压 High Pressure (kV)	分接范围 Tapping Range %	低压 Low Pressure (kV)						长 Length (L)	宽 Width (B)	高 Height (H)		
S11-M-30					100	630/600	1.5		690	510	920	400×400	275
S11-M-50					130	910/870	1.3		730	510	960	400×450	340
S11-M-63					150	1090/1040	1.2		750	550	1000	400×450	385
S11-M-80					180	1310/1250	1.2		790	620	1020	400×450	450
S11-M-100					200	1580/1500	1.1		790	700	1040	550×550	520
S11-M-125					240	1890/1800	1.1		840	800	1070	550×550	625
S11-M-160					280	2310/2200	1.0	4.0%	1070	670	1130	550×550	695
S11-M-200					340	2730/2600	1.0		1140	750	1140	550×550	795
S11-M-250	6				400	3200/3050	0.9		1200	800	1190	550×550	955
S11-M-315	6.3				480	3830/3650	0.9		1300	860	1210	550×550	1085
S11-M-400	10	±5%	0.4	Dyn11	570	4520/4300	0.8		1380	900	1240	660×660	1290
S11-M-500	10.5	±2x2.5%		Yyn0	680	5410/5100	0.8		1450	950	1300	660×660	1590
S11-M-630	11				810	6200	0.6		1500	970	1360	660×660	1850
S11-M-800					980	7500	0.6		1660	1140	1400	660×660	2210
S11-M-1000					1150	10300	0.6	4.5%	1690	1190	1530	660×660	2570
S11-M-1250					1360	12000	0.5		1760	1230	1600	820×820	3115
S11-M-1600					1640	14500	0.5		1800	1250	1660	820×820	3520
S11-M-2000					1940	18300	0.4		2070	1270	1880	820×820	4375
S11-M-2500					2290	21200	0.4	5.0%	2180	1320	1970	820×820	4950

注 1：对于额定容量为 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。

注 2：当变压器年平均负载率介于 35%-40% 之间时，采用表中的损耗值可获得最高运行效率。

Note 1: For transformers with a rated capacity of 500kVA or less, the load loss values above the slash in the table apply to the Dyn11 or Yzn11 connection group, and the load loss values below the slash line apply to the Yyn0 connection group.

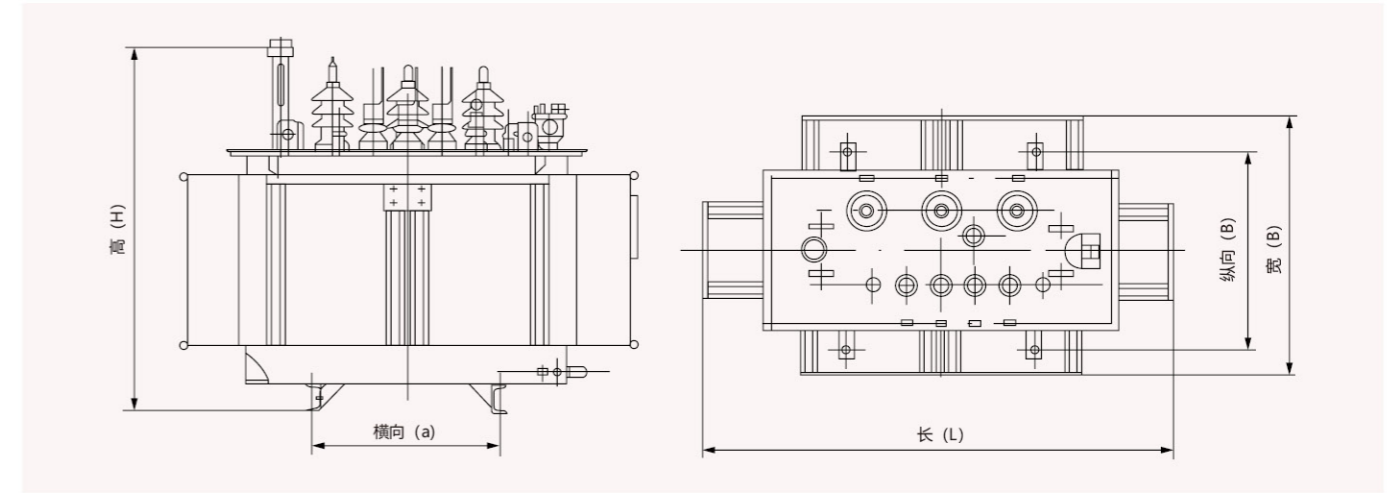
Note 2: When the transformer annual average load rate is between 35% and 40%, the loss value in the table can be used to obtain the highest operating efficiency.

S13-M 油浸式电力变压器

OIL-IMMERSED
POWER TRANSFORMER

LBAJI 利百加
Build a smart power system

外形及安装尺寸 / Appearance and installation dimensions



注：提供的外形尺寸和重量仅供设计选型时参考，最终尺寸和重量以我公司产品图纸为准。

Note: The dimensions and weight provided are only for reference in the design and selection, and the final dimensions and weight are subject to our company's product drawings.

S13-M油浸式电力变压器技术参数 / Technical Parameters Of S13-M Oil-Immersed Power Transformer

额定容量 Rated Capacity (KVA)	电压组合及分接范围 Voltage Combination And Tap Range (kV)			联结组别 Connection Groups	空载 损耗 No Load Loss (W)	负载损耗 Load Loss (W)	空载 电流 No Load Current (%)	短路 阻抗 Short Circuit Impedance (%)	外形尺寸 / Overall Size			轨距 / Gauge Horizontal × Vertical ax b	重量 Weight (kg)
	高压 High Pressure (kV)	分接范围 Tapping Range %	低压 Low Pressure (kV)						长 Length (L)	宽 Width (B)	高 Height (H)		
S13-M-30					80	630/600	1.5		695	490	860	400×400	260
S13-M-50					100	910/870	1.3		725	520	955	400×450	365
S13-M-63					130	1310/1250	1.2		770	565	985	400×450	465
S13-M-80					150	1580/1500	1.2		800	595	1000	550×550	545
S13-M-100					170	1890/1800	1.1		815	670	1010	550×550	585
S13-M-125					200	2310/2200	1.1	4.0%	1015	645	1055	550×550	695
S13-M-160					240	2730/2600	1.0		1020	650	1115	550×550	810
S13-M-200					290	3200/3050	1.0		1140	730	1120	550×550	930
S13-M-250	6				340	3830/3650	0.9		1195	785	1175	550×550	1075
S13-M-315	6.3				410	4520/4300	0.9		1265	855	1195	660×660	1255
S13-M-400	10	±5%	0.4	Dyn11	480	5410/5100	0.8		1325	915	1240	660×660	1435
S13-M-500	10.5	±2x2.5%		Yyn0	570	6200	0.8		1465	960	1295	660×660	1880
S13-M-630	11				700	7500	0.6		1515	995	1340	660×660	2145
S13-M-800					830	10300	0.6	4.5%	1605	1095	1460	660×660	2455
S13-M-1000					970	12000	0.5		1685	1145	1485	820×820	2840
S13-M-1250					1170	14500	0.5		1775	1225	1580	820×820	3310
S13-M-1600					1550	18300	0.4		1855	1265	1600	820×820	3960
S13-M-2000					1830	21200	0.4	5.0%	1885	1305	1780	820×820	4980

注 1：对于额定容量为 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。

注 2：当变压器年平均负载率介于 35%-40% 之间时，采用表中的损耗值可获得最高运行效率。

Note 1: For transformers with a rated capacity of 500kVA or less, the load loss values above the slash in the table apply to the Dyn11 or Yzn11 connection group, and the load loss values below the slash line apply to the Yyn0 connection group.

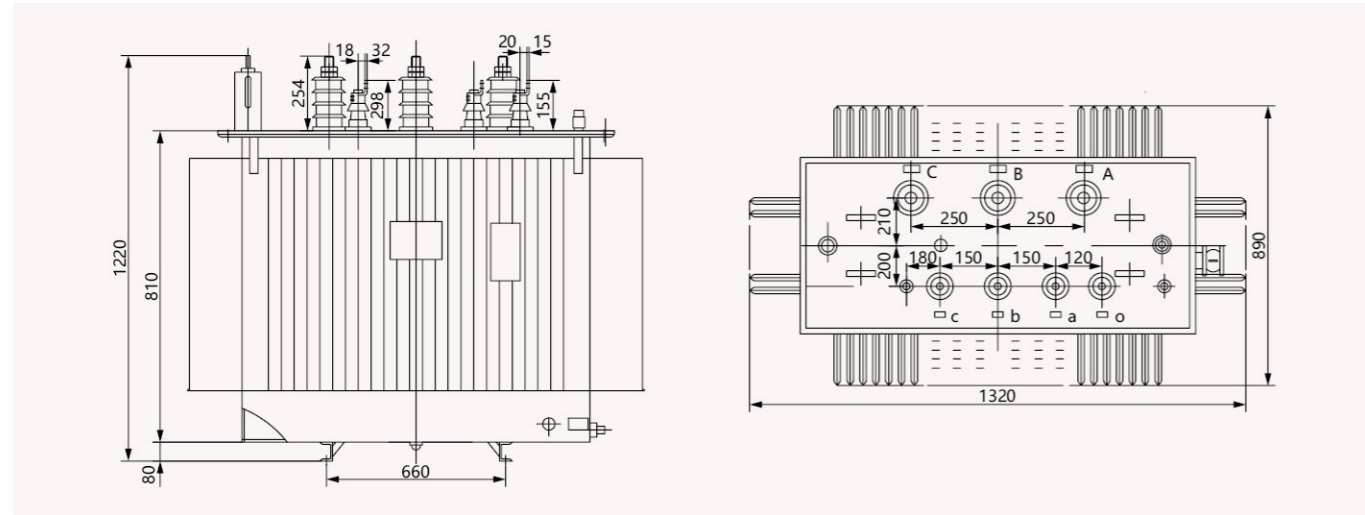
Note 2: When the transformer annual average load rate is between 35% and 40%, the loss value in the table can be used to obtain the highest operating efficiency.

S20-M 油浸式电力变压器

OIL-IMMERSED
POWER TRANSFORMER

LBAJI 利百加
Build a smart power system

外形及安装尺寸 / Appearance and installation dimensions



注：提供的外形尺寸和重量仅供设计选型时参考，最终尺寸和重量以我公司产品图纸为准。

Note: The dimensions and weight provided are only for reference in the design and selection, and the final dimensions and weight are subject to our company's product drawings.

S20-M 油浸式电力变压器技术参数 / Technical Parameters Of S20-M Oil-Immersed Power Transformer

额定容量 Rated Capacity (KVA)	电压组合及分接范围 Voltage Combination And Tap Range (kV)			联结组别 Connection Groups	空载损耗 No Load Loss (W)	负载损耗 Load Loss (W)		空载电流 No Load Current (%)	短路阻抗 Short Circuit Impedance (%)
	高压 High Pressure (kV)	分接范围 Tapping Range %	低压 Low Pressure (kV)			Dyn11/Yzn11 (W)	Yyn0 (W)		
S20-M-30				Dyn11 Yyn0	70	505	480	1.5	4%
S20-M-50					90	730	695	1.3	
S20-M-63					100	870	830	1.2	
S20-M-80					115	1050	1000	1.2	
S20-M-100					135	1265	1200	1.1	
S20-M-125					150	1510	1440	1.1	
S20-M-160					180	1850	1760	1	
S20-M-200					215	2185	2080	1	
S20-M-250	6				260	2560	2440	0.9	
S20-M-315	6.3	±2X2.5 ±5	0.4		305	3065	2920	0.9	
S20-M-400	10				370	3615	3440	0.8	
S20-M-500	10.5				430	4330	4120	0.8	
S20-M-630	11				510	4960	4660	0.6	
S20-M-800					630	6000	5600	0.6	
S20-M-1000					745	8240	7740	0.6	
S20-M-1250					870	9600	9000	0.5	
S20-M-1600				1050	11600	10800	0.5		
S20-M-2000				1225	14640	13640	0.4		
S20-M-2500				1440	14840	13840	0.4		

注：对于额定容量为 500kVA 及以下的变压器，表中斜线上方的负载损耗值适用于 Dyn11 联结组，斜线下方的负载损耗值适用于 Yyn0 联结组。

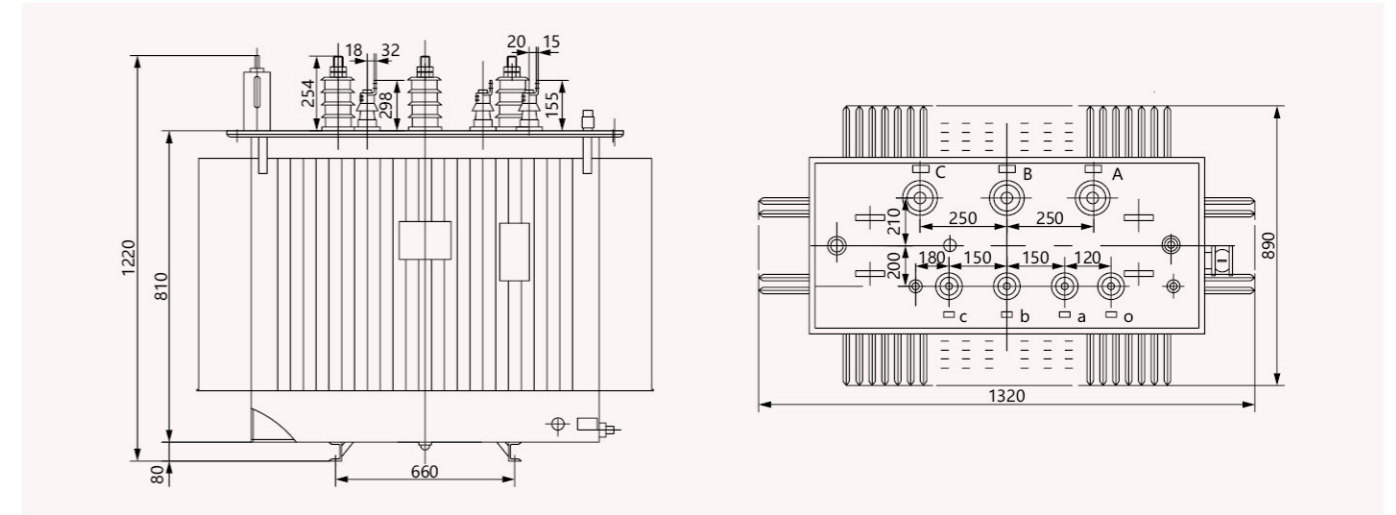
Note: For transformers with rated capacity of 500kVA and below, the load loss values above the slash in the table apply to Dyn11 connection groups, and the load loss values below the slash apply to Yyn0 connection groups.

S22-M 油浸式电力变压器

OIL-IMMERSED
POWER TRANSFORMER

LBAJI 利百加
Build a smart power system

外形及安装尺寸 / Appearance and installation dimensions



注：提供的外形尺寸和重量仅供设计选型时参考，最终尺寸和重量以我公司产品图纸为准。

Note: The dimensions and weight provided are only for reference in the design and selection, and the final dimensions and weight are subject to our company's product drawings.

S22-M 油浸式电力变压器技术参数 / Technical Parameters Of S22-M Oil-Immersed Power Transformer

额定容量 Rated Capacity (KVA)	电压组合及分接范围 Voltage Combination And Tap Range (kV)			联结组别 Connection Groups	空载损耗 No Load Loss (W)	负载损耗 Load Loss (W)		空载电流 No Load Current (%)	短路阻抗 Short Circuit Impedance (%)
	高压 High Pressure (kV)	分接范围 Tapping Range %	低压 Low Pressure (kV)			Dyn11/Yzn11 (W)	Yyn0 (W)		
S22-M-30				Dyn11 Yyn0	65	455	430	1.5	4%
S22-M-50					80	655	625	1.3	
S22-M-63					90	785	745	1.2	
S22-M-80					105	945	900	1.2	
S22-M-100					120	1140	1080	1.1	
S22-M-125					135	1360	1295	1.1	
S22-M-160					160	1665	1585	1	
S22-M-200					190	1970	1870	1	
S22-M-250	6				230	2300	2195	0.9	
S22-M-315	6.3	±2X2.5 ±5	0.4		270	2760	2630	0.9	
S22-M-400	10				330	3250	3095	0.8	
S22-M-500	10.5				385	3900	3710	0.8	
S22-M-630	11				460	4460	4160	0.6	
S22-M-800					560	5400	5000	0.6	
S22-M-1000					665	7415	6915	0.6	
S22-M-1250					780	8640	8040	0.5	
S22-M-1600				940	10440	9640	0.5		
S22-M-2000				1085	13180	12180	0.4		
S22-M-2500				1280	13360	12360	0.4		

注：对于额定容量为 500kVA 及以下的变压器，表中斜线上方的负载损耗值适用于 Dyn11 联结组，斜线下方的负载损耗值适用于 Yyn0 联结组。

Note: For transformers with rated capacity of 500kVA and below, the load loss values above the slash in the table apply to Dyn11 connection groups, and the load loss values below the slash apply to Yyn0 connection groups.

LBAJI 利百加

Build a smart power system

利“百”年品牌·加持智能电气

35kV 油浸式电力变压器

35kV OIL-IMMERSED

POWER TRANSFORMER

www.jlba.com

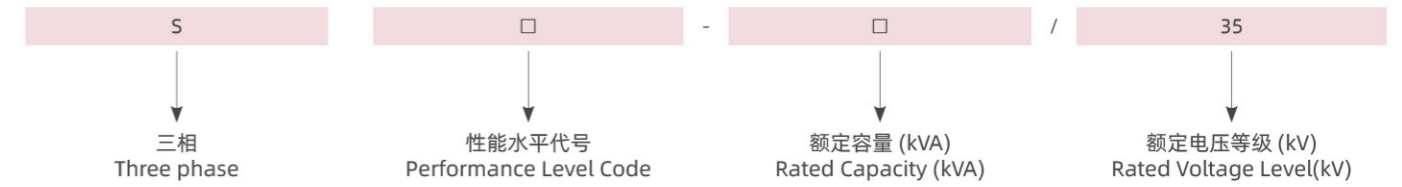


35kV 油浸式电力变压器

35kV OIL-IMMERSED
POWER TRANSFORMER**LBAJI** 利百加

Build a smart power system

型号含义 / Model Meaning



适用范围 / Scope Of Application

S □ -50-40000/35 型油浸式变压器适用于交流 50Hz、额定工作电压 35kV 的电力系统中，作为中小型变电站变电设备。

S □ -50-4000/35 oil-immersed transformer is suitable for AC 50Hz, rated working voltage 35kV power system, as a small and medium-sized substation transformer equipment.

铁芯 / Iron Core

铁芯选用高导磁晶粒取向冷轧硅钢片。铁芯为习式铁芯，全斜接缝迭积式铁芯，其铁芯柱为多级阶梯的圆截面，铁轭与铁芯为等截面。

The core is cold rolled silicon steel sheet with high permeability magnetic grain orientation. The iron core is a conventional iron core, an all-oblique joint stacking type iron core, the iron core column is a multi-step circular cross-section, and the iron yoke and the iron core are equal cross-section.

绕组 / Winding

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，需切断电源方可变换分接电压。

The windings are concentric coils; The high voltage winding has a tap required for the tapping voltage, which is led to the tap-changer. The switch is installed on the box cover, and the tapping voltage can be changed only after the power supply is cut off.

安全保护装置 / Safety Protection Device

变压器装有气体继电器，压力释放阀。

The transformer is equipped with a gas relay and a pressure relief valve.

油保护装置 / Oil Protection Device

变压器均装有储油柜，其一端装有油位计；

变压器储油柜上应加装带油封的吸湿器；

The transformers are all equipped with oil conservators, and one end is equipped with an oil level gauge;

A moisture absorber with oil seal should be installed on the transformer oil conservator;

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；

10000kVA 及以上变压器装有户外式信号温度计；

The transformers are all equipped with a glass thermometer tube holder. The tube holder is located on the top of the oil tank and extends into the oil by 120±10mm;

Transformers of 10000kVA and above are equipped with outdoor signal thermometers;

35kV 油浸式电力变压器

35kV OIL-IMMERSED
POWER TRANSFORMER



35kV 三相电力变压器 S □ 技术参数 / Technical Parameters Of 35kV three-phase power transformer S □

型号 model	额定容量 Rated Capacity (KVA)	额定电压 (kV) Rated Voltage		联结组别 connection groups	损耗 / Loss (W)		空载 电流 no-load current (%)	阻抗 电压 impedance voltage (%)	重量 / weight (kg)	
		高压 high pressure (kV)	低压 low pressure (kV)		空载 no-load	负载 load			油重 oil weight	总重 total weight
S11-50/35	50	35±5%	0.4	Yyn0	210	1210	1.8	6.5	320	1090
S11-100/35	100				290	2020	1.62		378	1160
S11-125/35	125				340	2380	1.56		330	1250
S11-160/35	160				360	2830	1.48		420	1290
S11-200/35	200				430	3300	1.39		460	1480
S11-250/35	250				510	3960	1.26		500	1650
S11-315/35	315				610	4760	1.26		520	1720
S11-400/35	400				733	5760	1.16		670	2130
S11-500/35	500				860	6900	1.16		690	2360
S11-630/35	630				1040	8280	1.1		750	2760

注：提供的外形尺寸和重量仅供设计选型时参考，最终尺寸和重量以我公司产品图纸为准。

Note: The dimensions and weight provided are only for reference in the design and selection, and the final dimensions and weight are subject to our company's product drawings.

35kV 三相电力变压器技术参数 / Technical Parameters Of 35kV Three-Phase Power Transformer

型号 model	额定容量 Rated Capacity (KVA)	额定电压 (kV) Rated Voltage		联结组别 connection groups	损耗 / Loss (KW)		空载 电流 no-load current (%)	阻抗 电压 impedance voltage (%)	重量 / weight (kg)				
		高压 high pressure (kV)	低压 low pressure (kV)		空载 no load	负载 load			油重 oil weight	总重 total weight	加添油重 Add oil weight	运输重 Transport weight	
S11-800/35	800	35±5%	10.5 6.3 3.15	Yd11	1.23	9.9	0.9	6.5	0.88	3.83			
S11-1000/35	1000				1.44	12.1	0.9	6.5	0.98	4.3			4.01
S11-1250/35	1250				1.76	14.6	0.81	6.5	1.02	4.64			4.24
S11-1600/35	1600				2.12	17.5	0.76	6.5	1.18	5.12			4.61
S11-2000/35	2000				2.72	17.8	0.67	6.5	1.25	5.87			5.06
S11-2500/35	2500				3.20	20.7	0.67	6.5	1.39	6.97			5.91
S11-3150/35	3150				3.8	24.3	0.63	7.0	1.6	8.02			6.88
S11-4000/35	4000				4.52	28.8	0.63	7.0	1.9	9.27			7.59
S11-5000/35	5000				5.4	33	0.54	7.0	2.15	10.89			9.89
S11-6300/35	6300				6.56	36.9	0.54	7.5	2.05	12.98	0.65		10.63
S11-8000/35	8000	9.0	40.5	0.49	7.5	2.5	14.02	0.69		11.54			
S11-10000/35	10000	10.88	47.7	0.49	7.5	3.8	17.7	0.7		15.8			
S11-12500/35	12500	12.6	56.7	0.45	8	3.86	18.58	0.93		16.0			
S11-16000/35	16000	15.20	69.3	0.45	8	4.45	23.57	1.11		21.2			
S11-20000/35	20000	18	83.7	0.45	8	6.36	29.7	1.57		26.11			
S11-25000/35	25000	21.28	99	0.36	8	6.49	39.2	1.82		34.3			
S11-31500/35	31500	25.28	118.8	0.36	8	6.69	43.1	2.02		37.1			
S11-40000/35	40000	28.8	155.25	0.48	8	7.78	46.9	2.48		38.5			

注：提供的外形尺寸和重量仅供设计选型时参考，最终尺寸和重量以我公司产品图纸为准。

Note: The dimensions and weight provided are only for reference in the design and selection, and the final dimensions and weight are subject to our company's product drawings.

35kV 油浸式电力变压器

35kV OIL-IMMERSED
POWER TRANSFORMER



35kV 油浸式三相双绕组无励磁调压电力变压器能效等级 35kV oil-immersed three-phase double-winding unexcited voltage regulation power transformer energy efficiency class

额定容量 Rated Capacity (KVA)	1 级 / Level 1		2 级 / Level 2		3 级 / Level 3		短路阻抗 %
	空载损耗 no-load Loss	负载损耗 load Loss (75°C)	空载损耗 no-load Loss	负载损耗 load Loss (75°C)	空载损耗 no-load Loss	负载损耗 load Loss (75°C)	
3150	1.7	20.7	2.0	20.7	2.4	21.9	7
4000	2.0	24.6	2.3	24.6	2.9	25.9	
5000	2.4	28.2	2.8	28.2	3.5	29.7	
6300	2.9	31.5	3.4	31.5	4.2	33.3	
8000	4.0	34.6	4.7	34.6	5.8	36.5	
10000	4.8	40.8	5.7	40.8	7.0	43.0	8
12500	5.5	48.4	6.5	48.4	8.0	51.1	
16000	6.7	59.2	7.9	59.2	9.7	62.5	
20000	7.9	71.6	9.4	71.6	11.5	75.5	
25000	9.4	84.6	11.1	84.6	13.6	89.3	
31500	11.1	100.8	13.1	100.8	16.2	106.4	10

35kV 油浸式三相双绕组有载调压电力变压器能效等级 35kV oil-immersed three-phase double-winding on-load regulating power transformer energy efficiency class

额定容量 Rated Capacity (KVA)	1 级 / Level 1		2 级 / Level 2		3 级 / Level 3		短路阻抗 %
	空载损耗 no-load Loss	负载损耗 load Loss (75°C)	空载损耗 no-load Loss	负载损耗 load Loss (75°C)	空载损耗 no-load Loss	负载损耗 load Loss (75°C)	
3150	1.8	22.2	2.1	22.2	2.6	23.5	7
4000	2.1	26.2	2.5	26.2	3.1	27.6	
5000	2.6	30.8	3.0	30.8	3.7	32.5	
6300	3.1	33.0	3.7	33.0	4.5	34.9	
8000	4.3	36.5	5.1	36.5	6.3	38.6	
10000	5.1	43.2	6.0	43.2	7.4	45.6	7.5
12500	6.0	51.1	7.1	51.1	8.7	54.0	
16000	7.2	63.3	8.5	63.3	10.5	66.8	
20000	8.5	74.4	10.1	74.4	12.4	78.6	
25000	10.1	88.0	11.9	88.0	14.6	92.9	
31500	12.0	104.4	14.2	104.4	17.4	110.2	10

LBAJI 利百加

Build a smart power system

利“百”年品牌·加持智能电气

SFZ11-35kV 有载油浸式电力变压器

LOADED OIL-IMMERSED
POWER TRANSFORMER

www.jxlbaji.com

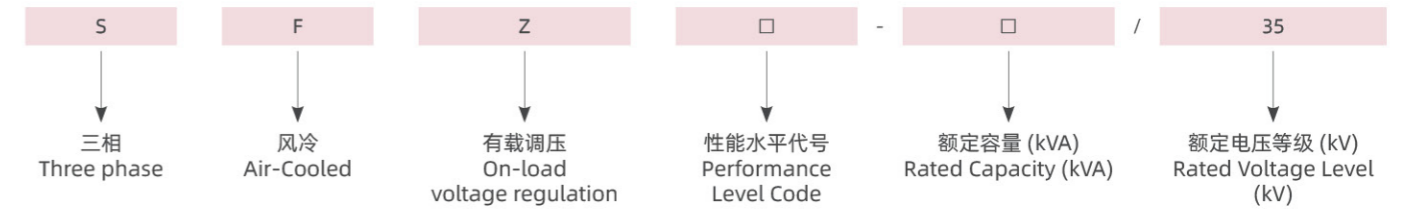


SFZ11-35kV 有载油浸式电力变压器

LOADED OIL-IMMERSED
POWER TRANSFORMER**LBAJI** 利百加

Build a smart power system

型号含义 / Model Meaning



适用范围 / Scope Of Application

SFZ11-1600-31500/35 型油浸式变压器适用于交流 50Hz、额定工作电压 35kV 的电力系统中，作为中小型变电站变电设备。

SFZ11-1600-31500/35 oil-immersed transformer is suitable for AC 50Hz, rated working voltage 35kV power system, as a small and medium-sized substation transformer equipment.

铁芯 / Iron Core

铁芯选用高导磁晶粒取向冷轧硅钢片。铁芯为习式铁芯，全斜接缝迭积式铁芯，其铁芯柱为多级阶梯的圆截面，铁轭与铁芯为等截面。

The core is cold rolled silicon steel sheet with high permeability magnetic grain orientation. The iron core is a conventional iron core, an all-oblique joint stacking type iron core, the iron core column is a multi-step circular cross-section, and the iron yoke and the iron core are equal cross-section.

绕组 / Winding

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，需切断电源方可变换分接电压。

The windings are concentric coils; The high voltage winding has a tap required for the tapping voltage, which is led to the tap-changer. The switch is installed on the box cover, and the tapping voltage can be changed only after the power supply is cut off.

安全保护装置 / Safety Protection Device

变压器装有气体继电器，压力释放阀。

The transformer is equipped with a gas relay and a pressure relief valve.

油保护装置 / Oil Protection Device

变压器均装有储油柜，其一端装有油位计；

变压器储油柜上应加装带油封的吸湿器；

The transformers are all equipped with oil conservators, and one end is equipped with an oil level gauge;

A moisture absorber with oil seal should be installed on the transformer oil conservator;

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；

10000kVA 及以上变压器装有户外式信号温度计；

The transformers are all equipped with a glass thermometer tube holder. The tube holder is located on the top of the oil tank and extends into the oil by 120±10mm;

Transformers of 10000kVA and above are equipped with outdoor signal thermometers;

SFZ11-35kV 有载油浸式电力变压器

LOADED OIL-IMMERSED
POWER TRANSFORMER

LBAJI 利百加
Build a smart power system

变压器油箱及其附件 /Transformer Oil Tank And Its Accessories

变压器一般不供给小车，箱底支架的焊接位置应符合 GB6451 的规定；
油箱的下部壁上装有油样活门，变压器油箱下部装有足够大的放油阀。

The transformer is generally not supplied to the car, and the welding position of the bottom bracket should comply with the provisions of GB6451;

The lower wall of the oil tank is equipped with an oil sample valve, and the lower part of the transformer oil tank is equipped with an oil discharge valve large enough.

工作条件 /Working Conditions

安装高度：海拔不超过 1000m

环境温度：-40°C ~+40°C

Installation height: altitude no more than 1000m

Ambient temperature: -40°C ~+40°C

SFZ11-35kV 有载油浸式电力变压器技术参数 /Loaded Oil-Immersed Power Transformer

型号 model	额定容量 Rated Capacity (KVA)	额定电压 (kV) Rated Voltage		联结组别 connection groups	损耗 /Loss (KW)		空载 电流 no-load current (%)	阻抗 电压 impedance voltage (%)	重量 /weight (kg)			
		高压 high pressure (kV)	低压 low pressure (kV)		空载 no load	负载 load			油重 oil weight	总重 total weight	加添油重 Add oil weight	运输重 Transport weight
SZ11-1600/35	1600	35± 3×2.5% 38.5± 3×2.5%	11 10.5 6.6 6.3	Ynd11	2.2	16.2	0.9	6.5	1.8	6.24	0.45	4.89
SZ11-2000/35	2000				2.9	18.7	0.9	6.5	2.04	7.04	0.56	6.24
SZ11-2500/35	2500				3.4	21.7	0.9	6.5	2.2	8.1	0.63	7.1
SZ11-3150/35	3150				4.0	26	0.81	7.0	2.475	9.3	0.72	7.13
SZ11-4000/35	4000				4.8	30.6	0.81	7.0	2.71	11.4	0.78	8.1
SZ11-5000/35	5000				5.8	36	0.76	7.0	3.1	12.9	0.85	9.1
SZ11-6300/35	6300				7.0	38.7	0.76	7.5	3.6	15.4	0.86	12.1
SZ11-8000/35	8000				9.8	42.6	0.66	7.5	4.5	17.8	0.9	15.4
SZ11-10000/35	10000				11.6	50.5	0.63	7.5	4.6	19.3	1.0	17.2
SZ11-12500/35	12500				12.8	59.9	0.63	8	5.9	24.7	1.2	18.7
SZ11-16000/35	16000	35± 3×2.5% 38.5± 3×2.5%	10.5 6.3	Yd11	13.8	68	0.8	8	7.9	32.5	2.0	27.1
SZ11-20000/35	20000				17.8	84.6	0.72	8	78.9	36.7	2.1	30.9
SZ11-25000/35	25000				18.6	99.6	0.72	8	8.1	40.3	2.2	35.4
SZ11-31500/35	31500				20.4	123.8	0.64	10	8.2	42.3	2.3	36.2

注：提供的外形尺寸和重量仅供设计选型时参考，最终尺寸和重量以我公司产品图纸为准。

Note: The dimensions and weight provided are only for reference in the design and selection, and the final dimensions and weight are subject to our company's product drawings.

构建智慧电力系统

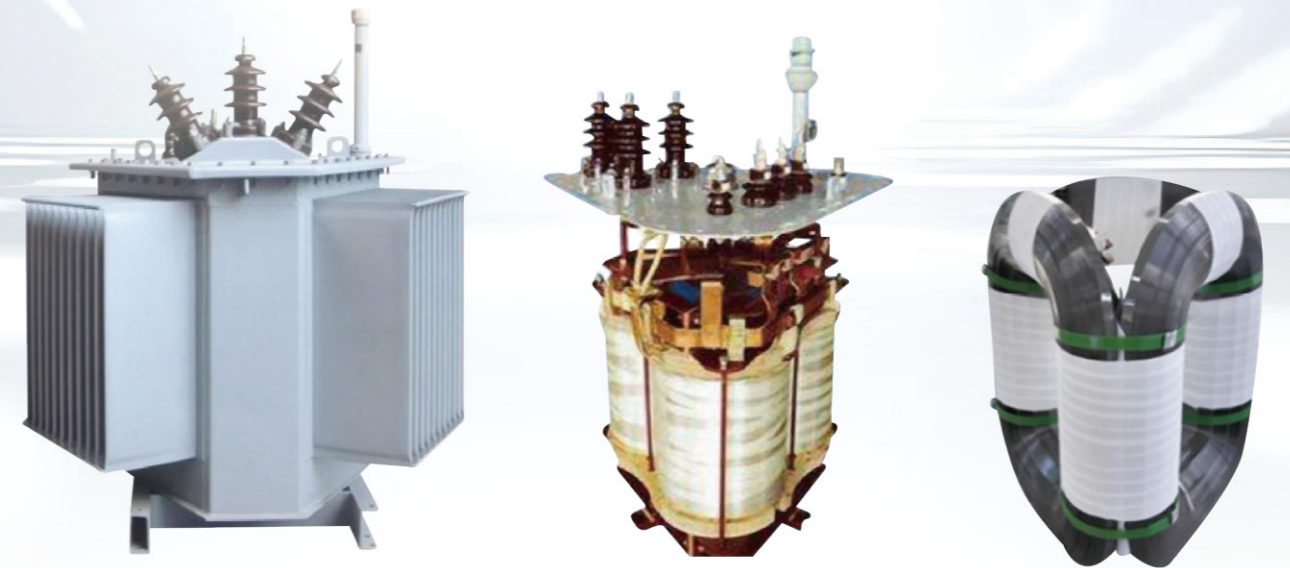
Build a smart power system

LBAJI 利百加
Build a smart power system

利“百”年品牌·加持智能电气

S □ -M-L 立体三角形变压器 THREE-DIMENSIONAL DELTA TRANSFORMER

www.jxlbaji.com



S □ -M-L 立体三角形变压器

THREE-DIMENSIONAL
DELTA TRANSFORMER

LBAJI 利百加
Build a smart power system

概述 / Overview

立体铁芯油浸式变压器，是一种结构要合理、性能更优良、制造成本更低的新型高可靠性变压器产品。

产品突破了传统的平面式结构，采用三相对称立体式结构。且由于其磁路中无空气隙，硅钢带的导磁方向与磁路方向完全一致，三个心柱呈等边三角形立体排列，三个磁路长度一致，且都最短，加工套裁无废料等特点；因此是一种使用传统材料，但运行噪音更低，结构更为紧凑的高效节能型变压器。其在降低损耗，节约材料上的出色表现，完全符合我国的节能方针。

The solid core oil-immersed transformer is a new type of high reliability transformer with reasonable structure, better performance and lower manufacturing cost.

The product breaks through the traditional flat structure and adopts three-phase symmetrical three-dimensional structure. And because there is no air gap in the magnetic circuit, the magnetic direction of the silicon steel strip is completely consistent with the direction of the magnetic circuit, the three core columns are arranged in an equilateral triangle three-dimensional, the three magnetic circuits are the same length, and are the shortest, and the processing kit is free of waste. Therefore, it is an efficient and energy-saving transformer using traditional materials, but the operation noise is lower and the structure is more compact. Its excellent performance in reducing loss and saving materials is fully in line with China's energy-saving policy.

型号含义 / Model Meaning



产品特点 / Product Characteristics

节能降耗，降低噪音特点；

节省材料，降低成本；

三相平衡，抗短路能力增强；

质量稳定，生产效率提高；

防盗，占地面积小，外型美观；

经济性好，性价比高。

Energy saving and consumption reduction and noise reduction;

Save materials and reduce costs;

Three-phase balance, enhanced short-circuit resistance;

Stable quality and improved production efficiency;

Anti-theft, small area and beautiful appearance;

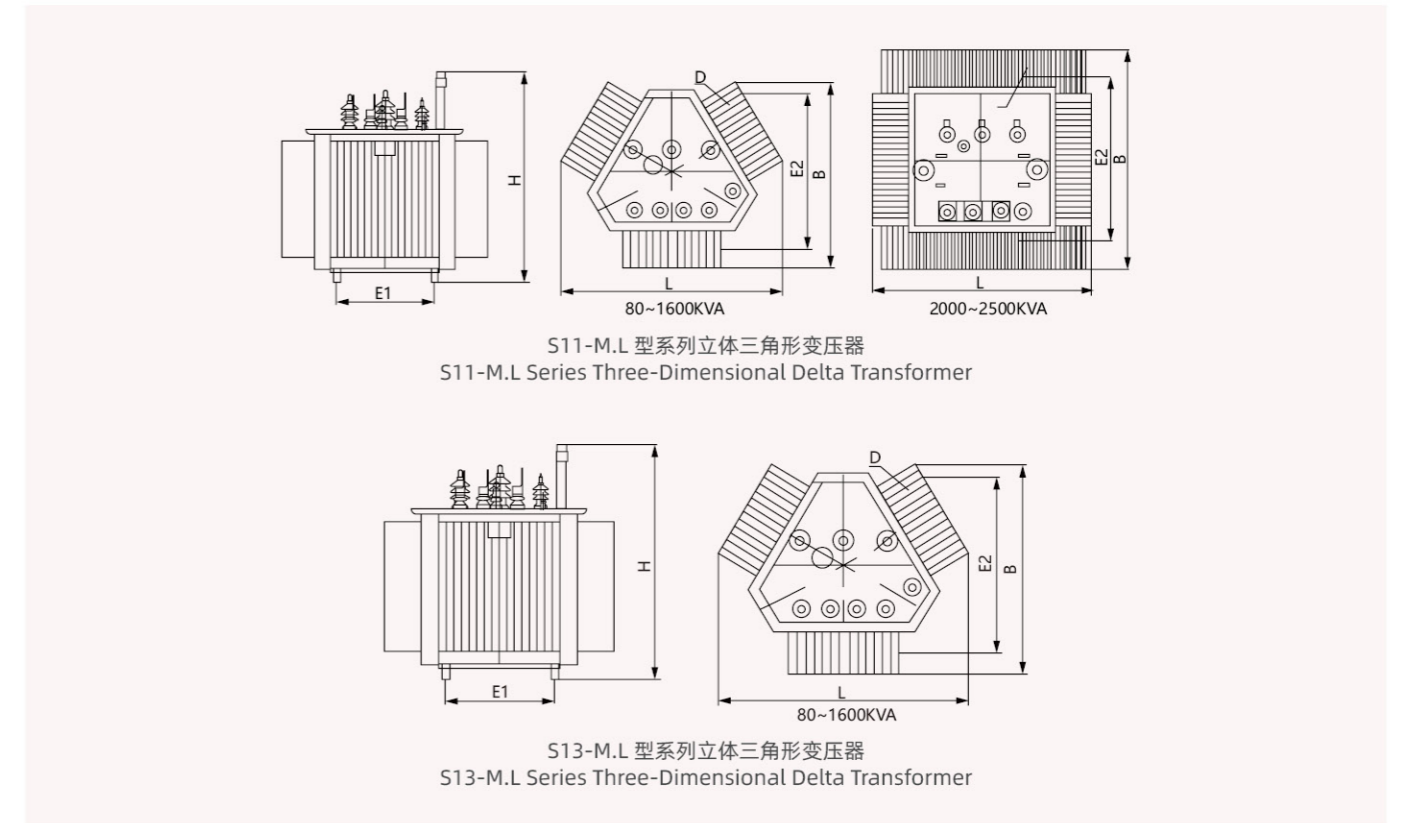
Good economy and high cost performance.

S □ -M-L 立体三角形变压器

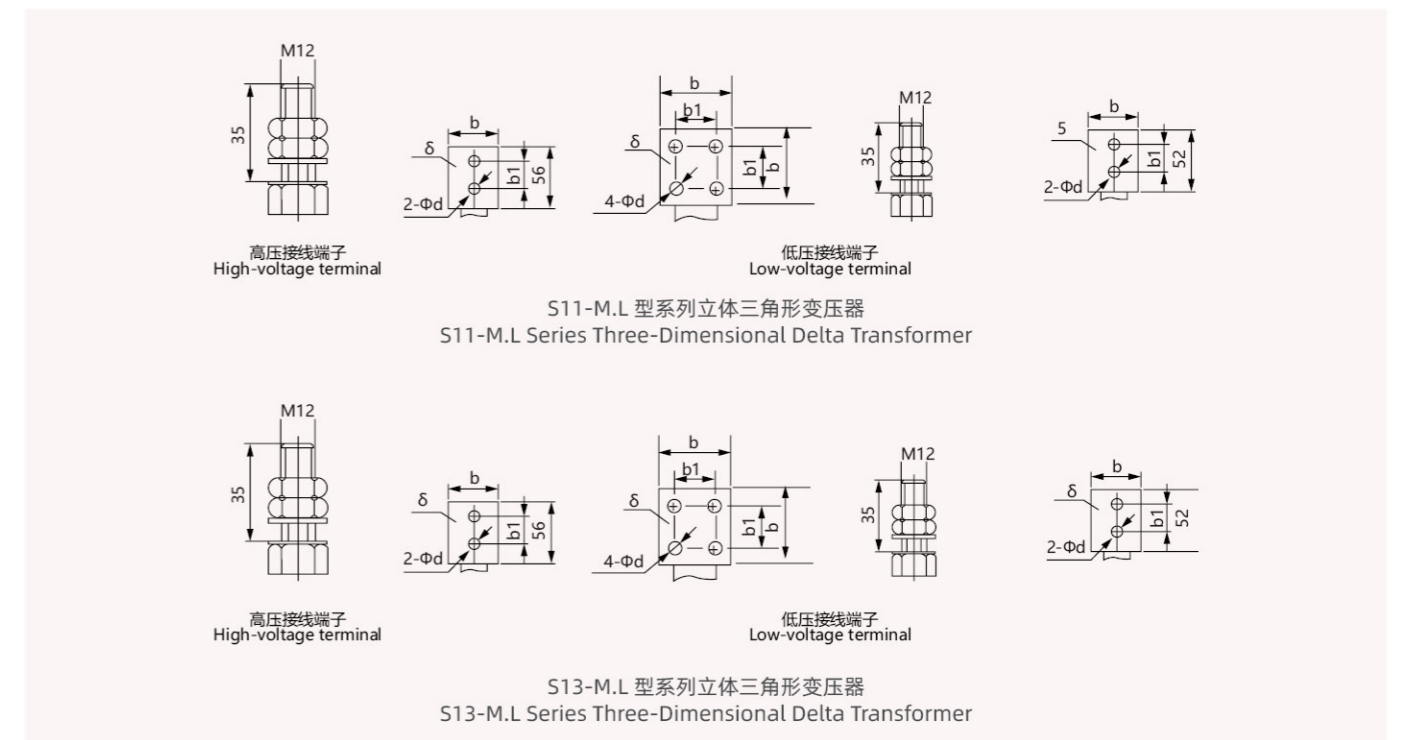
THREE-DIMENSIONAL
DELTA TRANSFORMER

LBAJI 利百加
Build a smart power system

外形及安装尺寸 / Appearance and installation dimensions



接线端子外形尺寸 / Overall Size Of Terminal



S11-M-L 立体三角形变压器

THREE-DIMENSIONAL
DELTA TRANSFORMER



S11-M.L 型系列立体三角形变压器技术参数

Technical Parameters Of S11-M.L Series Three-Dimensional Delta Transformers

额定容量 Rated Capacity (KVA)	额定电压 (kV) Rated Voltage		联结组别 connection groups	损耗 /Loss (W)		空载 电流 no-load current (%)	阻抗 电压 impedance voltage (%)	重量 /weight (kg)			外形尺寸 /Overall Size			
	高压 high pressure (kV)	低压 low pressure (kV)		空载 no load	负载 load			器身油重 Heavy oil in the body	油重 oil weight	总重 total weight	长 Length (L)	宽 width (B)	高 height (H)	
30			Dyn11 Yzn11 Yyn0	0.4	100	630/600	0.33	4	167	107	358	358	677	1159
50					130	910/870	0.30	4	222	113	423	423	683	1224
80					180	1310/1250	0.27	4	278	153	525	525	727	1314
100					200	1580/1500	0.26	4	278	149	554	554	995	1314
160					280	2310/2200	0.24	4	439	168	746	746	905	1376
200					340	2730/2600	0.23	4	509	197	856	856	944	1394
250	10				400	3200/3050	0.22	4	591	228	986	986	965	1397
315	±5%				480	3830/3650	0.21	4	679	252	1124	1124	1031	1422
400					570	4520/4300	0.21	4	818	303	1340	1340	1060	1477
500	10				680	5410/5100	0.20	4	964	375	1618	1618	1207	1562
630	±2x2.5%				810	6200	0.20	4.5	1128	417	1939	1939	1270	1594
800					980	7500	0.19	4.5	1424	526	2417	2417	1360	1636
1000					1150	10300	0.18	4.5	1660	645	2955	2955	1510	1656
1250					1360	12000	0.17	4.5	1802	630	3135	3135	1525	1768
1600					1640	14500	0.16	4.5	2255	781	3784	3784	1510	1928
2000					2250	18500	0.15	4.5	3166	1239	5637	5637	1699	1863
2500			2400	24000	0.15	5.5	3158	1541	6089	6089	1762	2088		

注：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。

注：提供的外形尺寸和重量仅供设计选型时参考，最终尺寸和重量以我公司产品图纸为准。

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

Note: The overall size and weight provided are only for reference during design and selection. The final size and weight shall be subject to our company's product drawings.

S11-M.L 型系列立体三角形变压器外形尺寸

Outline Size Of S11-M.L Series Three-Dimensional Delta Transformer

额定容量 Rated Capacity (KVA)	安装尺寸 /Installation size			低压相线端子 /Low voltage phase terminal				低压 0 线端子 /Low voltage 0 wire terminal					
	E1	E2	D	图形 /Graphics	b	b1	d	f	图形 /Graphics	b	b1	d	f
30	380	550	550	19	35	26	12.5	8	2	35	26	12.5	8
50	380	550	550	19	35	26	12.5	8	2	35	26	12.5	8
80	380	550	550	19	35	26	12.5	8	2	35	26	12.5	8
100	380	550	550	19	35	26	12.5	8	2	35	26	12.5	8
160	400	660	660	19	35	26	12.5	8	2	35	26	12.5	8
200	400	660	660	19	35	26	12.5	8	2	35	26	12.5	8
250	400	660	660	19	46	26	12.5	10	3	46	26	12.5	10
315	550	820	820	19	46	26	12.5	10	3	46	26	12.5	10
400	550	820	820	19	46	26	12.5	10	3	46	26	12.5	10
500	550	820	820	19	80	45	14.5	13	4	80	45	14.5	13
630	550	820	820	19	80	45	14.5	13	4	80	45	14.5	13
800	550	820	820	19	80	45	14.5	13	4	80	45	14.5	13
1000	550	1070	1070	19	90	45	18	17	4	80	45	18	17
1250	550	1070	1070	19	100	45	18	17	4	80	45	18	17
1600	550	1070	1070	19	100	45	18	17	4	100	45	18	17
2000	600	1300	1300	19	100	45	18	17	4	100	45	18	17
2500	600	1300	1300	19	125	50	19	15	4	100	45	18	17

S13-M-L 立体三角形变压器

THREE-DIMENSIONAL
DELTA TRANSFORMER



S13-M.L 型系列立体三角形变压器技术参数

Technical Parameters Of S13-M.L Series Three-Dimensional Delta Transformers

额定容量 Rated Capacity (KVA)	额定电压 (kV) Rated Voltage		联结组别 connection groups	损耗 /Loss (W)		空载 电流 no-load current (%)	阻抗 电压 impedance voltage (%)	重量 /weight (kg)			外形尺寸 /Overall Size				
	高压 high pressure (kV)	低压 low pressure (kV)		空载 no load	负载 load			器身油重 Heavy oil in the body	油重 oil weight	总重 total weight	长 Length (L)	宽 width (B)	高 height (H)		
30			Dyn11 Yzn11 Yyn0	0.4	80	630/600	0.30	4	178	113	377	1028	682	1199	
50					100	910/870	0.24	4	236	111	435	435	1025	683	1224
80					130	1310/1250	0.22	4	313	146	553	553	1096	722	1314
100					150	1580/1500	0.21	4	356	148	607	607	1096	722	1334
160					200	2310/2200	0.19	4	484	185	797	797	1080	935	1441
200	10				240	2730/2600	0.18	4	556	228	937	937	1109	960	1444
250	±5%				290	3200/3050	0.17	4	655	263	1091	1091	1196	1036	1457
315					340	3830/3650	0.16	4	769	274	1269	1269	1276	1105	1467
400	10				410	4520/4300	0.16	4	896	323	1437	1437	1306	1131	1542
500	±2x2.5%				480	5410/5100	0.16	4	1044	433	1872	1872	1483	1284	1592
630					570	6200	0.15	4.5	1352	414	2085	2085	1395	1210	1649
800					700	7500	0.15	4.5	1613	496	2481	2481	1526	1321	1711
1000					830	10300	0.14	4.5	1703	656	3000	3000	1717	1487	1726
1250					970	12000	0.13	4.5	2065	702	3449	3449	1711	1482	1829
1600					1170	14500	0.12	4.5	2592	1045	4459	4459	1880	1628	1938

注：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。

注：提供的外形尺寸和重量仅供设计选型时参考，最终尺寸和重量以我公司产品图纸为准。

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

Note: The overall size and weight provided are only for reference during design and selection. The final size and weight shall be subject to our company's product drawings.

S13-M.L 型系列立体三角形变压器外形尺寸

Outline Size Of S13-M.L Series Three-Dimensional Delta Transformer

额定容量 Rated Capacity (KVA)	安装尺寸 /Installation size			低压相线端子 /Low voltage phase terminal				低压 0 线端子 /Low voltage 0 wire terminal					
	E1	E2	D	图形 /Graphics	b	b1	d	f	图形 /Graphics	b	b1	d	f
30	380	550	550	19	35	26	12.5	8	2	35	26	12.5	8
50	380	550	550	19	35	26	12.5	8	2	35	26	12.5	8
80	380	550	550	19	35	26	12.5	8	2	35	26	12.5	8
100	380	550	550	19	35	26	12.5	8	2	35	26	12.5	8
160	400	660	660	19	35	26	12.5	8	2	35	26	12.5	8
200	400	660	660	19	35	26	12.5	8	3	35	26	12.5	8
250	400	660	660	19	46	26	12.5	10	3	46	26	12.5	10
315	550	820	820	19	46	26	12.5	10	3	46	26	12.5	10
400	550	820	820	19	46	26	12.5	10	3	46	26	12.5	10
500	550	820	820	19	80	45	14.5	13	4	80	45	14.5	13
630	550	820	820	19	80	45	14.5	13	4	80	45	14.5	13
800	550	820	820	19	80	45	14.5	13	4	80	45	14.5	13
1000	550	1070	1070	19	90	45	18	17	4	80	45	18	17
1250	550	1070	1070	19	100	45	18	17	4	80	45	18	17
1600	550	1070	1070	19	100	45	18	17	4	100	45	18	17

LBAJI 利百加

Build a smart power system

利“百”年品牌·加持智能电气

35kV 新能源箱式（华式）变电站

35KV NEW ENERGY BOX-TYPE (CHINESE-STYLE) SUBSTATION

www.jlba.com



35kV 新能源箱式（华式）变电站

35KV NEW ENERGY BOX-TYPE (CHINESE-STYLE) SUBSTATION

LBAJI 利百加

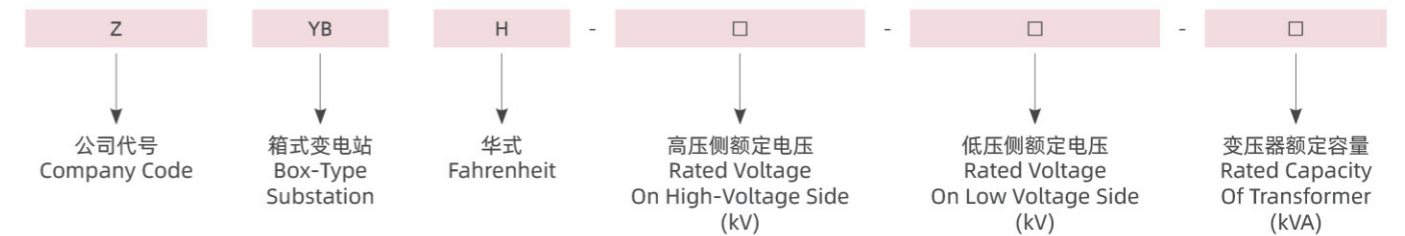
Build a smart power system

概述 / Overview

35KV 紧凑型预装式变电站，俗称华式箱变，是一种新型箱式变电站，产品大量使用于风电场和光伏发电场。主要由变压器本体、高压电器部分、低压电器部分、箱体等组成。变压器为三相双绕组油浸自冷无励磁调压电力变压器；华式箱变的高压电器部分主要由 35kV 高压断路器、35kV 隔离开关、35kV 电流互感器、35kV 电压互感器、35kV 避雷器、35kV 带电显示器等组成；华式箱变低压电器部分主要由低压框架断路器，自用电力系统（自用变压器、馈线开关等）、浪涌保护器等组成。

The 35KV compact pre-installed substation, commonly known as the Chinese box-type substation, is a new type of box-type substation, and its products are widely used in wind farms and photovoltaic power plants. It mainly consists of the transformer body, high-voltage electrical part, low-voltage electrical part, box, etc. The transformer is a three-phase double-winding oil-immersed self-cooled non-exciting voltage-regulating power transformer; the high-voltage electrical part of the Huashi Box Transformer is mainly composed of 35kV high-voltage circuit breakers, 35kV isolating switches, 35kV current transformers, 35kV voltage transformers, 35kV lightning arresters, 35kV live displays, etc.; the low-voltage electrical part of the Huashi Box Transformer is mainly composed of low-voltage frame circuit breakers, self-use systems (self-use transformers, feeder switches, etc.), surge protectors, etc.

型号含义 / Model Meaning



产品特点 / Product features

- 结构紧凑、体积小、安装方便、灵活；
- 全绝缘、全密封结构、安全可靠、免维护，可靠保护人身安全；
- 高压侧采用双熔断器保护，其中插入式熔断器熔丝为双敏熔丝（温度、电流）、后备熔断器为限流熔断器，降低了运行成本；
- 高压进线采用电缆接插件结构，全绝缘、安全可靠、操作方便；
- 既可用于环网，又可用于终端，转换十分方便，提高了供电的可靠性
- 变压器为三相三柱或三相五柱等结构，铁芯采用阶梯接缝工艺或卷铁芯工艺，噪声低、损耗低、抗短路和过载能力强。
- 采用真空干燥和真空注油的特殊工艺，我公司将用在 110kV 产品的此工艺延伸到 10kV 产品，为提高产品质量提供有力保障。
- 箱体可根据运行环境的要求采用防腐设计和特殊喷漆处理，具有“三防”功能，即防凝露、防盐雾、防霉菌的功能并能满足高温、高湿环境下的防腐要求。
- Compact structure, small size, easy and flexible installation;
- Fully insulated, fully sealed structure, safe and reliable, maintenance-free, and reliably protect personal safety;
- The high-voltage side is protected by dual fuses. The plug-in fuse is a dual sensitive fuse (temperature, current), and the backup fuse is a current-limiting fuse, which reduces operating costs;
- High-voltage incoming lines adopt cable connector structure, which is fully insulated, safe and reliable, and easy to operate;
- It can be used for both ring networks and terminals. The conversion is very convenient and improves the reliability of power supply.
- The transformer is of three-phase three-pillar or three-phase five-pillar structure. The iron core adopts stepped joint process or rolled core process, which has low noise, low loss, and strong resistance to short circuit and overload.
- Using a special process of vacuum drying and vacuum oiling, our company will extend this process used in 110kV products to 10kV products, providing a strong guarantee for improving product quality.
- The box can be designed with anti-corrosion and special painting treatment according to the requirements of the operating environment. It has "three prevention" functions, namely anti-condensation, anti-salt fog, and anti-mold functions, and can meet the anti-corrosion requirements in high temperature and high humidity environments.

相关标准 & 参数 / Related standards & parameters

- | | |
|----------------------------------|--|
| ● GB 1094.1-2013 电力变压器 第 1 部分：总则 | ● GB 1094.1-2013 Power transformers Part 1: General principles |
| ● GB/T 15164-2022 油浸式电力变压器负载导则 | ● GB/T 15164-2022 Load Guidelines for Oil-immersed Power Transformer |
| ● DL/T 572-2010 电力变压器运行规程 | ● DL/T 572-2010 Power Transformer Operation Regulations |
| ● IEC 60076 系列 电力变压器国际标准 | ● IEC 60076 series international standard for power transformers |
| ● GB 2536-2011 变压器油标准 | ● GB 2536-2011 Transformer Oil Standard |

35kV 新能源箱式（华式）变电站

35KV NEW ENERGY BOX-TYPE
(CHINESE-STYLE) SUBSTATION



华式变电站技术要求 / Technical Requirements For Chinese Substation

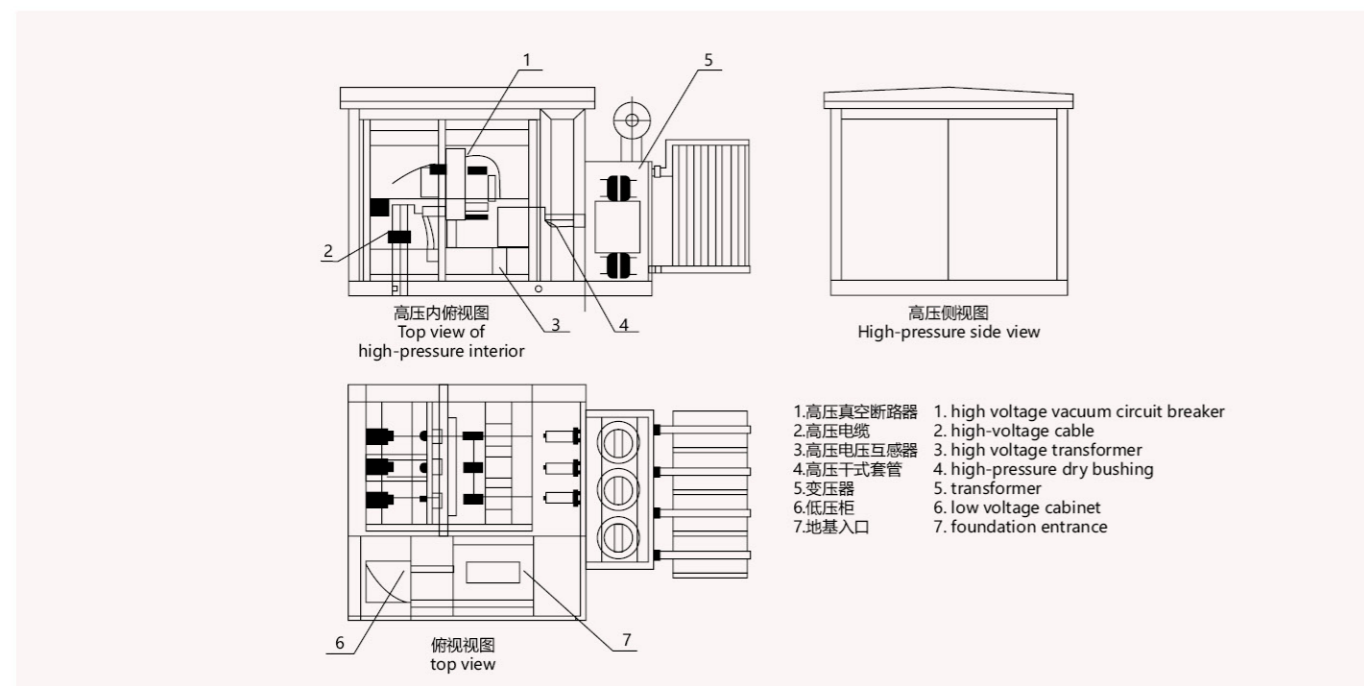
华式箱变由高压室、变压器、低压室三部分结构组成，各室间用隔板隔离成独立的间隔，并在箱体内存有下人孔，方便安装及维护。其内部布置结构按标准设计图纸要求设定。箱变采用自然冷却方式，通过柜内冷却装置将低压室温度控制在 60°C 以下，保障二次设备运行环境良好。变压器柜体上需安装通信柜（安装交换机、光纤盒等设备）、UPS 蓄电池柜在 1.1 倍连续长期过负荷运行（油温在项目环境下不超过 85°C）、1.2 倍连续 3 小时过负荷运行（油温在项目环境下不超过 85°C），1.5 倍短时过负荷运行状态下的温升，应符合《国家电网公司输变电工程通用设备》（66kV 及以下变电站典型规范）规定及表 3-2 相关值。

箱变内部应采取除湿、防爆和防凝露措施，高低压室电缆孔洞在防火泥封堵的基础上使用高分子柔性封堵材料 TS-68 进行防潮密封处理。箱变柜门加装密封条。密封条采用三元乙丙橡胶，具有良好的耐热、耐候、耐臭氧、耐腐蚀、耐老化性能优异。高压电缆头、母排、接线端子等带电部位使用阻燃导热型硅橡胶绝缘材料 TS-10 进行全绝缘处理，35kV 的高电压部位在绝缘处理后应能够承受 40.5kV 电压耐压 1min 的要求；低压母排在进行绝缘处理后应能够承受 2.5kV 电压耐压 1min 的要求。高压套管瓷瓶、绝缘拉杆、绝缘子等绝缘器件刷涂高自洁防污闪涂料 SRTV，涂层厚度 0.4±0.1mm。卖方负责对增加的冷却风扇进行改造，采用外循环通风冷却。（删除）箱变设计使用寿命不应小于 30 年。箱变每个隔室应设置低功率常投加热器与除湿器组合配置的方案，根据柜体容积合理设置通风孔，箱变温湿度信号应具备远传功能，通过通信接口上传至箱变测控装置。

The Huashi box transformer consists of three parts: a high-voltage chamber, a transformer, and a low-voltage chamber. Each chamber is separated into independent compartments by separators, and a manhole is provided in the box for convenient installation and maintenance. Its internal layout is set in accordance with the requirements of standard design drawings. The box transformer adopts natural cooling method, and the temperature of the low pressure chamber is controlled below 60 °C through the cooling device in the cabinet to ensure a good operating environment for secondary equipment. A communication cabinet needs to be installed on the transformer cabinet (Install switches, optical fiber boxes and other equipment), UPS battery cabinets operate under continuous long-term overload at 1.1 times (the oil temperature shall not exceed 85°C in the project environment), 1.2 times (the oil temperature shall not exceed 85 °C in the project environment), and the temperature rise under short-term overload operation at 1.5 times shall comply with the provisions of "General Equipment for Power Transmission and Transformation Projects of State Grid Corporation of China"(Typical Specifications for Power Transformation and Distribution Stations of 66kV and Below) and Table 3-2 relevant values.

Dehumidification, explosion prevention and condensation prevention measures should be taken inside the box transformer. Cable holes in high and low pressure rooms should be sealed with polymer flexible sealing material TS-68 on the basis of sealing with fireproof mud. Install sealing strips on the cabinet door of the box transformer. The sealing strip is made of ethylene propylene diene monomer rubber, which has good heat resistance, weather resistance, ozone resistance, corrosion resistance and aging resistance. Live parts such as high-voltage cable heads, busbars, and terminal terminals are fully insulated with flame retardant and thermally conductive silicone rubber insulating material TS-10. After insulation treatment, the high-voltage parts of 35kV shall be able to withstand the voltage withstand voltage of 40.5kV for 1 minute; After insulation treatment, the low-voltage busbars shall be able to withstand the voltage withstand voltage of 2.5kV for 1 minute. High-voltage bushing porcelain bottles, insulating rods, insulators and other insulating devices are brushed with high self-cleaning anti-pollution flash coating SRTV, with a coating thickness of 0.4±0.1mm. The seller is responsible for modifying the added cooling fan and adopting external circulation ventilation for cooling. (Delete) The design service life of the box transformer should not be less than 30 years. Each compartment of the box transformer should be equipped with a combination configuration of low-power normally-powered heater and dehumidifier. Ventilation holes should be reasonably set according to the volume of the cabinet. The box transformer temperature and humidity signal should have remote transmission function and be uploaded to the box transformer through the communication interface. Measurement and control device.

外形及安装尺寸 / Appearance and installation dimensions



35kV 新能源箱式（华式）变电站

35KV NEW ENERGY BOX-TYPE
(CHINESE-STYLE) SUBSTATION



技术参数 / Technical Parameters

项目 Item	单位 unit	高压开关 High-Voltage Switch		变压器 Transformer		低压电器 Low-Voltage Apparatus
额定电压 / Rated Voltage	kV	12	40.5	10.5/0.8	35/0.8	0.8
额定容量 / Rated Capacity	KVA	1000-3300				
额定频率 / Rated Frequency	HZ	50				50
额定电流 / Rated Current	A	200	63			
1min 工频耐压 1min Power Frequency Withstand Voltage	相间及对地 / Interphase And Ground kV	42	95	35	85	5
雷电冲击耐压 Lightning Impulse Withstand Voltage	相间及对地 / Interphase And Ground kV	75	185	75	220	12
额定短路开断电流（有效值） Rated Short Circuit Breaking Current (Effective Value)	kA	31.5		50		
额定短时耐受电流（有效值） Rated Short-Time Withstand Current (Effective Value)	kA	20(4s)	20(4S)	40(1S)		
额定短路关合电流（峰值） Rated Short-Circuit Closing Current (Peak)	kA	50	50			
额定峰值耐受电流 / Rated Peak Withstand Current	kA	50	50			
防护等级 / Protection Grade						IP33
噪声水平 / Noise Level						≤ 55dB

元器件选型表 / Component Selection Table

额定容量 Rated Capacity (KVA)	高压开关 High Voltage Switch		高压熔断器 High Voltage Fuse		高压避雷器 High Voltage Lightning Arrester		低压开关 Low Voltage Switch	辅助变压器 Auxiliary Transformer
	12	40.5	12	40.5	12	40.5		
1000			XRNT-12/100	XRNT-40.5/30				
1600			XRNT-12/160	XRNT-40.5/50				
2000	FZRN25-12 VTK-12	FT16-40.5	XRNT-12/200	XRNT-40.5/60	HY-5WZ-17/45	HY-5WZ-51/134	RDW1 断路器	SG-5/0.8-0.4
2500			XRNT-40.5/80	KFW2 断路器			容量可根据	
3150			XRNT-40.5/100A	RDW1 断路器			需要确定	
3300			XRNT-40.5/100A				KFW2 断路器	Capacity can be determined on demand

LBAJI 利百加

Build a smart power system

利“百”年品牌·加持智能电气

SC (B) □ 树脂绝缘干式变压器

RESIN INSULATION

DRY TRANSFORMER SERIES

www.jxlbaji.com



SC (B) □树脂绝缘干式变压器

RESIN INSULATION

DRY TRANSFORMER SERIES

LBAJI 利百加

Build a smart power system

概述 / Overview

树脂绝缘干式变压器是我公司引进国外先进技术，自主开发了 SC9、SCB9 系列以及 SC10、SCB10 系列带填料薄绝缘干式变压器，由于线圈被破坏氧树脂封装，所以难燃、防火、防爆，免维护，无污染，体积小，可直接安装在负荷中心。同时科学合理的设计和浇注工艺，使产品局部放电更小，噪声低，散热能力强，在强迫风冷条件下可以在 140% 额定负载下长期运行，并配有智能温控仪，具有故障报警，超温报警，超温跳闸以及黑闸子功能，并通过 RS485 串行接口与计算机相连，可以集中监视和控制。

由于我公司干式变压器具有以上特点，因此广泛用于输变电系统，如宾馆饭店，机场，高层建筑，商业中心，住宅小区等重要场所，以及地铁，冶炼电厂、轮船、海洋钻井平台等环境恶劣场所。

Resin insulated dry-type transformers are our company's introduction of advanced foreign technology and independent development of SC9, SCB9 series, as well as SC10, SCB10 series with filler thin insulated dry-type transformers. Due to the damaged coil being encapsulated with oxygen resin, they are flame retardant, fireproof, explosion-proof, maintenance free, pollution-free, small in size, and can be directly installed in load centers. At the same time, the scientific and reasonable design and pouring process result in smaller partial discharge, low noise, and strong heat dissipation capacity of the product. It can operate for a long time under 140% rated load under forced air cooling conditions, and is equipped with an intelligent temperature controller with fault alarm, overtemperature alarm, overtemperature trip, and black gate functions. It is connected to the computer through RS485 serial interface for centralized monitoring and control.

Due to the above characteristics of our dry-type transformers, they are widely used in power transmission and transformation systems, such as hotels, restaurants, airports, high-rise buildings, commercial centers, residential areas and other important places, as well as in harsh environments such as subways, smelting power plants, ships, and offshore drilling platforms.

高压绕组 / High voltage winding

高压绕组用带填料环氧树脂真空浇注，极大地减小了局放量，提高了线圈电气强度，绕组内外壁用玻璃纤维网格板填充，增强了线圈的机械强度，提高了产品抗突发短路的能力，线圈永不开裂。

The high-voltage winding is vacuum cast with epoxy resin with fillers, greatly reducing the local discharge and improving the electrical strength of the coil. The inner and outer walls of the winding are filled with glass fiber mesh plates, enhancing the mechanical strength of the coil and improving the product's ability to resist sudden short circuits. The coil never cracks.

制造工艺 / Manufacturing process

线圈在高精度绕线机上绕制，低压绕组采用箔式绕制结构。变压器容量较大时有通风道。绕制完后进行真空干燥，整个浇注及固化过程完全按照工艺要求进行操作，所有过程都需有严格的监视，并视情况进行调整。浇注的精密制造过程使线圈无气泡、空穴，使制成的变压器达到优质运行效果。

The coil is wound on a high-precision winding machine, and the low-voltage winding adopts a foil winding structure. When the transformer capacity is large, there is a ventilation duct. After the winding is completed, vacuum drying is carried out, and the entire pouring and curing process is completely operated according to the process requirements. All processes need to be strictly monitored and adjusted according to the situation. The precision manufacturing process of pouring ensures that the coil has no bubbles or voids, resulting in high-quality operation of the transformer.

温控系统和风冷系统 / Temperature control system and air cooling system

采用横流顶吹式冷却风机，该冷却风机具有噪声小，风压高，外形美观等特点，增强了变压器的过载能力。温度控制采用智能温控仪，提高了变压器运行安全可靠。

The cross flow top blowing cooling fan is adopted, which has the characteristics of low noise, high air pressure, and beautiful appearance, enhancing the overload capacity of the transformer. The temperature control adopts an intelligent temperature controller, which improves the safety and reliability of transformer operation.

SC (B) □树脂绝缘干式变压器

RESIN INSULATION
DRY TRANSFORMER SERIES

LBAJI 利百加
Build a smart power system

保护外壳和出线母排 / Protect the casing and output busbar

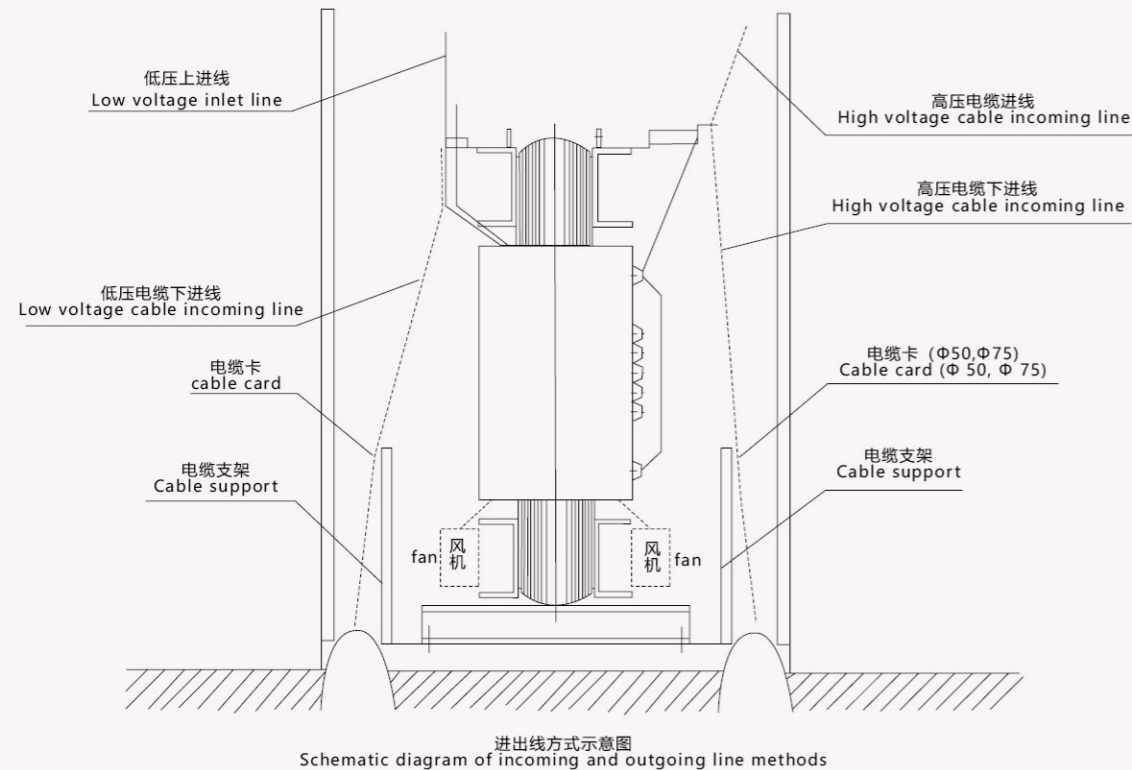
保护外壳对变压器作进一步的安全保护，防护等级有 IP20、IP23 等，外壳材料有冷轧钢板，不锈钢板等供用户选择。低压出线用标准母线排出线，侧出线和顶出线均可，也可为用户设计特殊出线方式。

The protective shell provides further safety protection for the transformer, with protection levels of IP20, IP23, etc. The shell material includes cold-rolled steel plate, stainless steel plate, etc. for users to choose from. Low voltage outgoing lines use standard bus bars, both side and top outgoing lines can be used, and special outgoing methods can also be designed for users.

变压器出线方式 / Transformer outgoing line method

可根据不同的接口形式制造常规的出线、标准封闭母线和标准侧出线，也可以根据用户要求设计特殊出线方式。

Conventional outgoing lines, standard enclosed busbars, and standard side outgoing lines can be manufactured according to different interface forms, and special outgoing methods can also be designed according to user requirements.

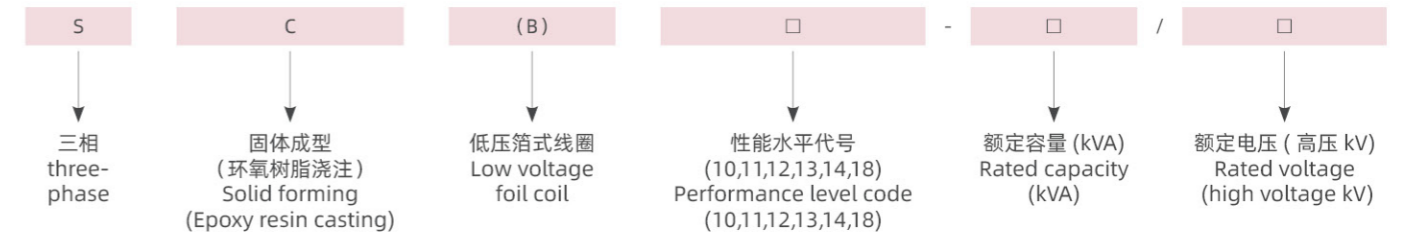


SC (B) □树脂绝缘干式变压器

RESIN INSULATION
DRY TRANSFORMER SERIES

LBAJI 利百加
Build a smart power system

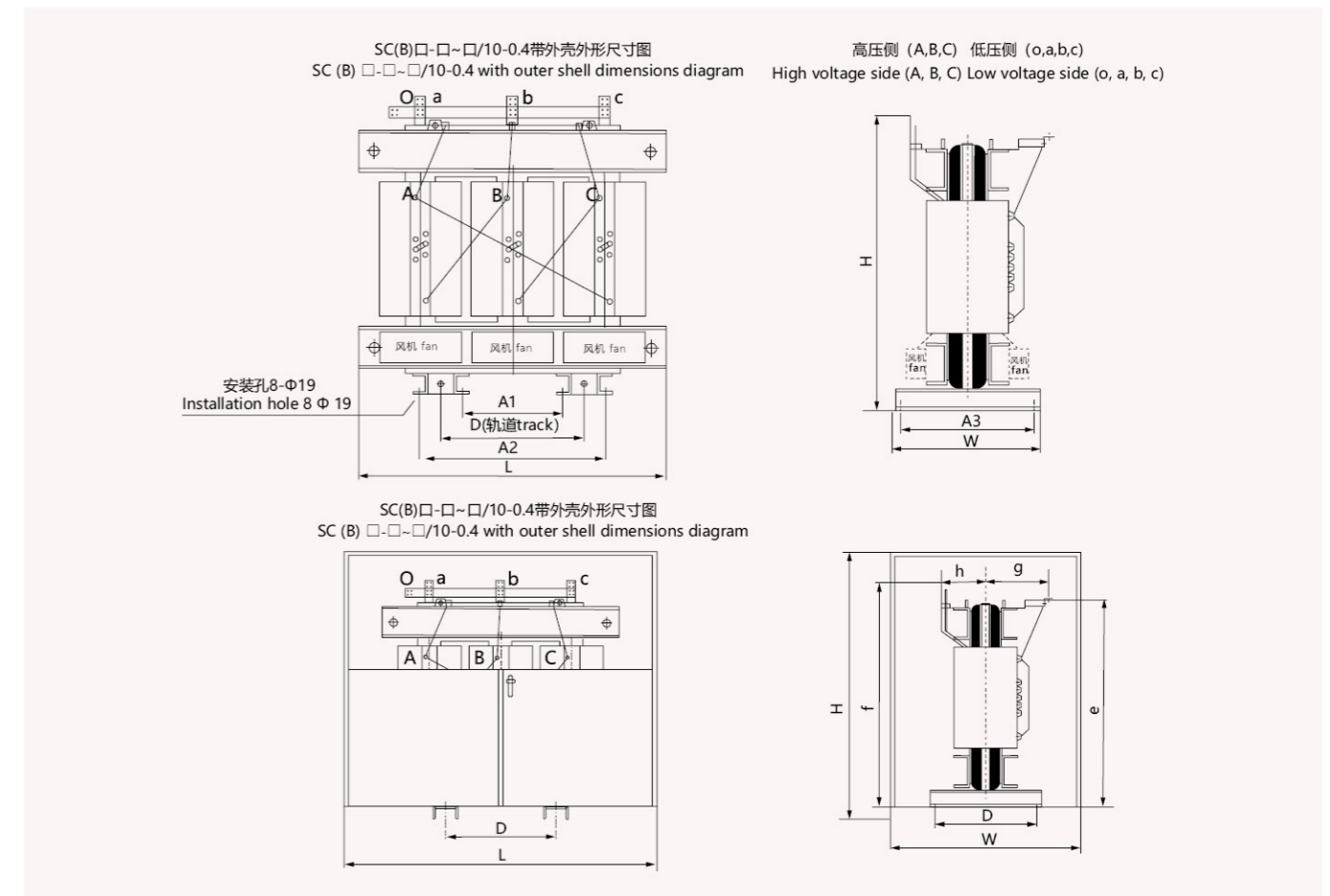
型号含义 / Model Meaning



相关标准 & 参数 / Related standards & parameters

- GBT10228-2015、GB1094.11-2007、GB 20052-2020、JBT10088-2004、GB4208-1993
- 额定高压：10(11,10.5,6.6,6.3,6)KV
- 额定低压：0.4KV
- 联结组别：Dyn11 或 Yyn0
- 高压分接范围：±5 或 ±2X2.5%
- 绝缘水平：LI75AC35/LI0AC5
- 频率：50Hz
- GBT10228-2015、GB1094.11-2007、GB 20052-2020、JBT10088-2004、GB4208-1993
- Rated high voltage: 10 (11,10.5,6.6,6.3,6) KV
- Rated low voltage: 0.4KV
- Connection group: Dyn11 or Yyn0
- High voltage tap range: ±5 or ±2X2.5%
- Insulation level: LI75AC35/LI0AC5
- Frequency: 50Hz

外形及安装尺寸 / Appearance and installation dimensions

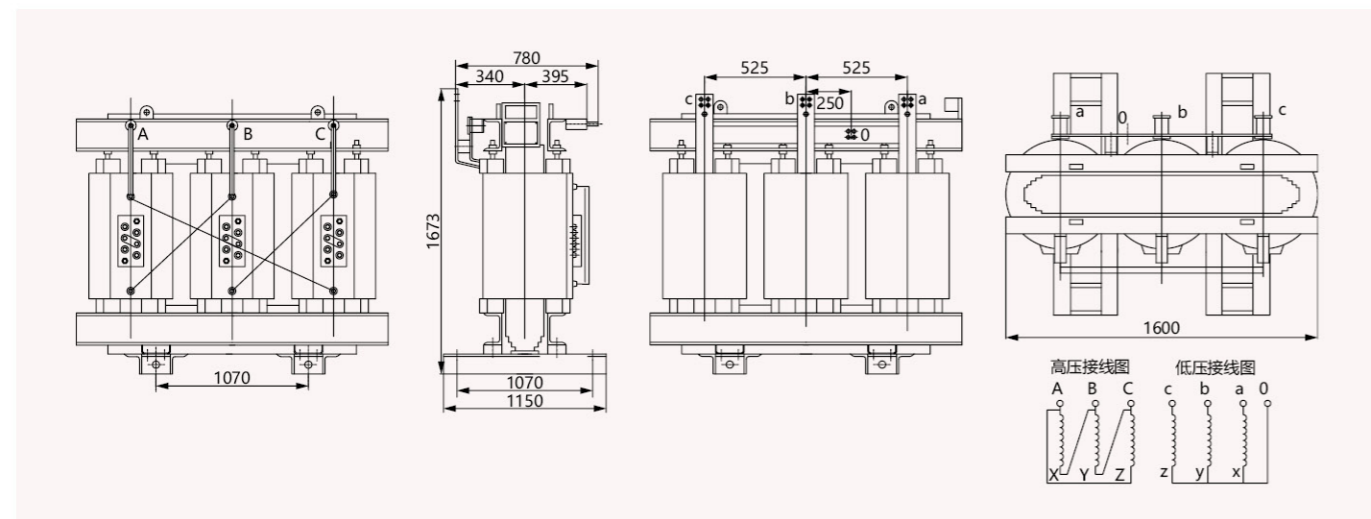


10KV 级 SC(B)11 树脂绝缘干式变压器

RESIN INSULATION
DRY TRANSFORMER SERIES

LBAJI 利百加
Build a smart power system

外形及安装尺寸 / Appearance and installation dimensions



注：提供的外形尺寸和重量仅供设计选型时参考，最终尺寸和重量以我公司产品图纸为准。

Note: The dimensions and weight provided are only for reference in the design and selection, and the final dimensions and weight are subject to our company's product drawings.

10KV 级 SC(B)11 系列树脂绝缘干式变压器技术参数

Technical parameters of 10KV SC(B)11 series resin insulated dry-type transformers

6kV、10kV 级 30kV·A~2500kV·A 无励磁调压配电变压器

6kV, 10kV class 30kV·A~2500kV·A non-excitation voltage regulating distribution transformer

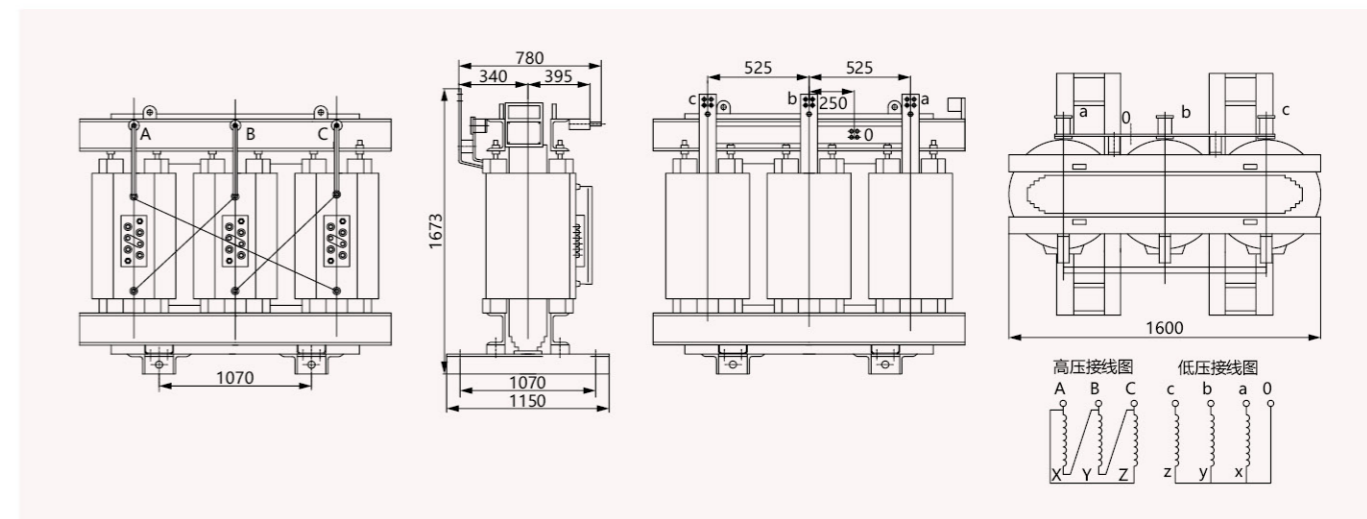
额定容量 Rated capacity (KVA)	电压组合及分接范围 Voltage combination and tap range (kV)			联结 组标号 connection symbol	不同绝缘系统温度下的负载损耗 Load loss at different insulation system temperatures (KW)			空载 电流 No load current (%)	短路 阻抗 Short circuit impedance (%)	重量 Weight (kg)	外形尺寸 (mm) (长 L×宽 B×高 H) Dimensions (mm) (L in length, B in width, and H in height)	安装尺寸 Installation size	带外壳尺寸 (长×宽×高) With shell size (L×W×H)					
	高压 High Pressure (kV)	高压分接范围 High voltage division Range of acceptance %	低压 Low Pressure (kV)		130°C (B) (100°C)	155°C (B) (120°C)	180°C (B) (145°C)											
30	6	±2.5 ±5	0.4	Dyn11 Yyn0	0.17	0.67	0.71	0.76	2	4	270	590×500×640	400/400	1000×900×2200				
50					0.24	0.94	1	1.07	2		360	620×550×670	400/400	1000×900×2200				
80					0.33	1.29	1.38	1.48	1.5		510	680×580×710	400/450	1050×950×2200				
100					0.36	1.48	1.57	1.69	1.5		570	720×600×720	400/450	1100×950×2200				
125					0.42	1.74	1.85	1.98	1.3		600	860×650×850	550/550	1250×1000×2200				
160					0.48	2	2.13	2.28	1.3		730	900×710×890	550/550	1300×1050×2200				
200					0.56	2.37	2.53	2.71	1.1		850	940×750×980	550/660	1300×1100×2200				
250					0.65	2.59	2.76	2.96	1.1		960	960×770×1030	660/660	1300×1100×2200				
315					6.3	±2×2.5 ±5	0.4	Dyn11 Yyn0	0.79		3.27	3.47	3.73	1	1130	1020×790×1060	660/660	1400×1150×2200
400					6.6				0.88		3.75	3.99	4.28	1	1330	1060×880×1100	660/820	1450×1200×2200
500	10	1.04	4.59	4.88	5.23				1	1480	1080×900×1160	660/820	1450×1200×2200					
630	10.5	1.17	5.61	5.96	6.4				0.85	1580	1200×920×1150	820/820	1550×1200×2200					
800	11	1.37	6.55	6.96	7.46				0.85	1910	1260×920×1260	820/820	1600×1200×2200					
1000	±2×2.5 ±5	±5	0.4	Dyn11 Yyn0	1.59				7.65	8.13	8.76	0.85	2260	1320×940×1300	820/820	1700×1250×2200		
1250					1.88				9.1	9.69	10.3	0.85	2660	1380×950×1380	820/820	1750×1250×2200		
1600					2.2				11	11.7	12.5	0.85	3180	1460×1120×1490	1070/1070	1850×1400×2200		
2000					2.75				13.6	14.4	15.5	0.7	3600	1490×1120×1620	1070/1070	1900×1450×2200		
2500					3.24				16.1	17.1	18.4	0.7	4220	1520×1120×1760	1070/1070	1950×1500×2200		
3150					4.62	/	22.5	/	0.6	5000	1600×1120×1860	1070/1070	2000×1550×2200					
4000					5.36	1	27	/	0.6	6300	1680×1120×2150	1070/1070	2100×1600×2200					

10KV 级 SC(B)13 树脂绝缘干式变压器

RESIN INSULATION
DRY TRANSFORMER SERIES

LBAJI 利百加
Build a smart power system

外形及安装尺寸 / Appearance and installation dimensions



注：提供的外形尺寸和重量仅供设计选型时参考，最终尺寸和重量以我公司产品图纸为准。

Note: The dimensions and weight provided are only for reference in the design and selection, and the final dimensions and weight are subject to our company's product drawings.

10KV 级 SC(B)13 系列树脂绝缘干式变压器技术参数

Technical parameters of 10KV SC (B) 13 series resin insulated dry-type transformer

6kV、10kV 级 30kV·A~2500kV·A 无励磁调压配电变压器

6kV, 10kV level 30kV·A~2500kV·A non excited voltage regulating distribution transformer

额定容量 Rated capacity (KVA)	电压组合及分接范围 Voltage combination and tap range (kV)			联结 组标号 connection symbol	不同绝缘系统温度下的负载损耗 Load loss at different insulation system temperatures (KW)		空载 电流 No load current (%)	短路 阻抗 Short circuit impedance (%)	重量 Weight (kg)	外形尺寸 (mm) (长 L×宽 B×高 H) Dimensions (mm) (L in length, B in width, and H in height)	安装尺寸 Installation size	带外壳尺寸 (长×宽×高) With shell size (L×W×H)				
	高压 High Pressure (kV)	高压分接范围 High voltage division Range of acceptance %	低压 Low Pressure (kV)		155°C (B) (120°C)	180°C (B) (145°C)										
30	6	±2.5 ±5	0.4	Dyn11 Yyn0	0.14	0.71	2	4	270	590×500×640	400/400	1000×900×2200				
50					0.19	1	2		360	620×550×670	400/400	1000×900×2200				
80					0.26	1.38	1.5		510	680×580×710	400/450	1050×950×2200				
100					0.29	1.57	1.5		570	720×600×720	400/450	1100×950×2200				
125					0.34	1.85	1.3		600	860×650×850	550/550	1250×1000×2200				
160					0.38	2.13	1.3		730	900×710×890	550/550	1300×1050×2200				
200					0.45	2.53	1.1		850	940×750×980	550/660	1300×1100×2200				
250					0.52	2.76	1.1		980	960×770×1030	660/660	1300×1100×2200				
315					6.3	±2×2.5 ±5	0.4		Dyn11 Yyn0	0.63	3.47	1	1130	1020×790×1060	660/660	1400×1150×2200
400					6.6					0.7	3.99	1	1330	1060×880×1100	660/820	1450×1200×2200
500	10	0.83	4.88	1	1480			1080×900×1160		660/820	1450×1200×2200					
630	10.5	0.94	5.96	0.85	1580			1200×920×1150		820/820	1550×1200×2200					
800	11	1.1	6.96	0.85	1910			1260×920×1260		820/820	1600×1200×2200					
1000	±2×2.5 ±5	±5	0.4	Dyn11 Yyn0	1.27			8.13		0.85	2260	1320×940×1300	820/820	1700×1250×2200		
1250					1.5			9.69		0.85	2660	1380×950×1380	820/820	1750×1250×2200		
1600					1.76			11.7		0.85	3180	1460×1120×1490	1070/1070	1850×1400×2200		
2000					2.2			14.4		0.7	3600	1490×1120×1620	1070/1070	1900×1450×2200		
2500					2.6			17.1		0.7	4220	1520×1120×1760	1070/1070	1950×1500×2200		
3150					3.7	22.5	0.6	5000	1600×1120×1860	1070/1070	2000×1550×2200					
4000					4.3	27	0.6	6300	1680×1120×2150	1070/1070	2100×1600×2200					

SC (B) □树脂绝缘干式变压器

RESIN INSULATION
DRY TRANSFORMER SERIES



Build a smart power system

10kV 干式三相双绕组无励磁调压配电变压器能效等级 10kV dry three-phase double winding no excitation Energy efficiency rating of regulating distribution transformers

额定容量 rated capacity kVA	1级 /level 1									2级 /level 2									3级 /Level 3									短路阻抗 short circuit impedance %
	电工钢带 SC18 Electrical steel strip SC18			非晶合金 SCH19 Amorphous alloy SCH19			电工钢带 SC14 Electrical steel strip SC14			非晶合金 SCH17 Amorphous alloy SCH17			电工钢带 SC12 Electrical steel strip SC12			非晶合金 SCH15 Amorphous alloy SCH15												
	负载损耗 Load loss W			负载损耗 Load loss W			负载损耗 Load loss W			负载损耗 Load loss W			负载损耗 Load loss W			负载损耗 Load loss W												
	空载损耗 Empty load loss W	B (100°C)	F (120°C)	H (145°C)	空载损耗 Empty load loss W	B (100°C)	F (120°C)	H (145°C)	空载损耗 Empty load loss W	B (100°C)	F (120°C)	H (145°C)	空载损耗 Empty load loss W	B (100°C)	F (120°C)	H (145°C)	空载损耗 Empty load loss W	B (100°C)	F (120°C)	H (145°C)								
30	105	605	640	685	50	605	640	685	130	605	640	685	60	605	640	685	150	670	710	760	70	670	710	760	4.0			
50	155	845	900	965	60	845	900	965	185	345	900	965	75	845	900	965	215	940	1000	1070	90	940	1000	1070				
80	210	1160	1240	1330	85	1160	1240	1330	250	1160	1240	1330	100	1160	1240	1330	295	1290	1380	1480	120	1290	1380	1480				
100	230	1330	1415	1520	90	1330	1415	1520	270	1330	1415	1520	110	1330	1415	1520	320	1480	1570	1690	130	1480	1570	1690				
125	270	1565	1665	1780	105	1565	1665	1780	320	1565	1665	1780	130	1565	1665	1780	375	1740	1850	1930	150	1740	1850	1930				
160	310	1800	1915	2050	120	1800	1915	2050	365	1800	1915	2050	145	1800	1915	2050	430	2000	2130	2280	170	2000	2130	2280				
200	360	2135	2275	2440	140	2135	2275	2440	420	2135	2275	2440	170	2135	2275	2440	495	2370	2530	2710	200	2370	2530	2710				
250	415	2330	2485	2665	160	2330	2485	2665	490	2330	2485	2665	195	2330	2485	2665	575	2590	2760	2960	230	2590	2760	2960				
315	510	2945	3125	3355	195	2945	3125	3355	600	2945	3125	3355	235	2945	3125	3355	705	3270	3470	3730	280	3270	3470	3730				
400	570	3375	3590	3850	215	3375	3590	3850	665	3375	3590	3850	265	3375	3590	3850	785	3750	3990	4280	310	3750	3990	4280				
500	670	4130	4390	4705	250	4130	4390	4705	790	4130	4390	4705	305	4130	4390	4705	930	4590	4880	5230	360	4590	4880	5230				
630	775	4975	52%	5660	295	4975	5200	5660	910	4975	5290	5660	360	4975	5290	5660	1070	5530	5880	6290	420	5530	5880	6290				
630	750	5050	5365	5760	290	5050	5365	5760	885	5050	5365	5760	350	5050	5365	5760	1040	5610	5960	6400	410	5610	5960	6400				
800	875	5895	6265	6715	335	5895	6265	6715	1035	5895	6265	6715	410	5895	6265	6715	1215	6550	6960	7460	480	6550	6960	7460				
1000	1020	6885	7315	7885	385	6885	7315	7885	1205	6885	7315	7885	470	6885	7315	7885	1415	7650	8130	8760	550	7650	8130	8760				
1250	1205	8190	8720	\$335	455	8190	8720	9335	1420	8190	8720	9335	550	8190	8720	9335	1670	&100	9690	10370	650	9100	\$690	10370				
1600	1415	9945	10555	11320	530	9945	10555	11320	1665	9945	10555	11320	645	9945	10555	11320	1960	11050	11730	12580	760	11050	11730	12580				
2000	1760	12240	13005	14005	700	12240	13005	14005	2075	12240	13005	14005	850	12240	13005	14005	2440	13600	14450	15560	1000	13600	14450	15560				
2500	2080	14535	15445	16605	840	14535	15445	16605	2450	14535	15445	16605	1020	14535	15445	16605	2880	16150	17170	18450	1200	16150	17170	18450				

35KV 级 SC(B)10 树脂绝缘干式变压器

RESIN INSULATION
DRY TRANSFORMER SERIES



Build a smart power system

35KV 级 SC(B)10 系列树脂绝缘干式变压器技术参数 Technical parameters of 35KV SC (B) 10 series resin insulated dry-type transformer

35kV 级 50kV·A~2500kV·A 无励磁调压配电变压器

35kV level 50kV · A~2500kV · A non excited voltage regulating distribution transformer

额定容量 Rated Capacity (KVA)	电压组合及分接范围 Voltage combination and tap range(kV)			联结 组标号 Coupling Group Number	空载 损耗 Empty load loss (KW)	不同绝缘系统温度下 的负载损耗 Temperature of different insulation systems Load loss below(KW)		空载 电流 Empty load Current (%)	短路 阻抗 short circuit impe dance (%)	重量 weight (kg)	外形尺寸 (mm) (长×宽×高 H) Dimensions (mm) (L in length, B in width, and H in height)	安装尺寸 Insta llation size	带外壳尺寸 (长×宽×高) With shell size (L x W x H)
	高压 High Pressure (kV)	高压分接范围 High Voltage Division Range Of Acceptance %	低压 Low Pressure (kV)			155°C (B) (120°C)							
50					0.45	1.42	2.3			600	1000×870×1150	550/550	1700×1400×2200
100		±2.5 ±5			0.63	2.09	2			900	1080×870×1330	550/550	1800×1400×1550
160					0.79	2.81	1.5			1180	1480×870×1360	820/820	2200×1500×2200
200					0.88	3.32	1.5			1360	1500×870×1400	820/820	2250×1500×2200
250					0.99	3.8	1.3			1560	1530×870×1430	820/820	2300×1500×2200
315					1.17	4.51	1.3			1750	1560×870×1520	820/820	2300×1600×2200
400					1.37	5.41	1.1			2150	1700×870×1680	820/820	2450×1600×2200
500	35 36 37 38.5		0.4	Dyn11 Yyn0	1.62	6.65	1.1	6		2450	1740×870×1860	820/820	2450×1600×2200
630					1.86	7.69	1			2840	1840×1120×1960	1070/1070	2550×1700×2200
800		±2×2.5 ±5			2.16	9.12	1			3420	1860×1120×2150	1070/1070	2550×1700×2200
1000					2.43	10.4	0.75			4130	1900×1120×2220	1070/1070	2600×1800×2200
1250					2.83	12.7	0.75			4820	1940×1120×2260	1070/1070	2650×1800×2200
1600					3.24	15.4	0.75			5700	1960×1120×2340	1070/1070	2700×1800×2200
2000					3.82	18.2	0.75			6480	2080×1120×2450	1070/1070	2800×1900×2200
2500					4.45	21.8	0.75			7350	2160×1120×2500	1070/1070	2900×1900×2200

注：表中所述的负载损耗为不同绝缘系统在括号内参考温度（见 GB1094.11 的规定）下的值，表中未包括的其他绝缘系统温度下的负载损耗根据各自的参考温度，以“155°C (F)”绝缘系统温度的数据作参考进行相应的折算。

Note: The load losses listed in the table are the values of different insulation systems at the reference temperature in parentheses (as specified in GB1094.11). The load losses at other insulation system temperatures not included in the table need to be converted based on their respective reference temperatures, using the data of the "155 °C (F)" insulation system temperature as a reference.

LBAJI 利百加

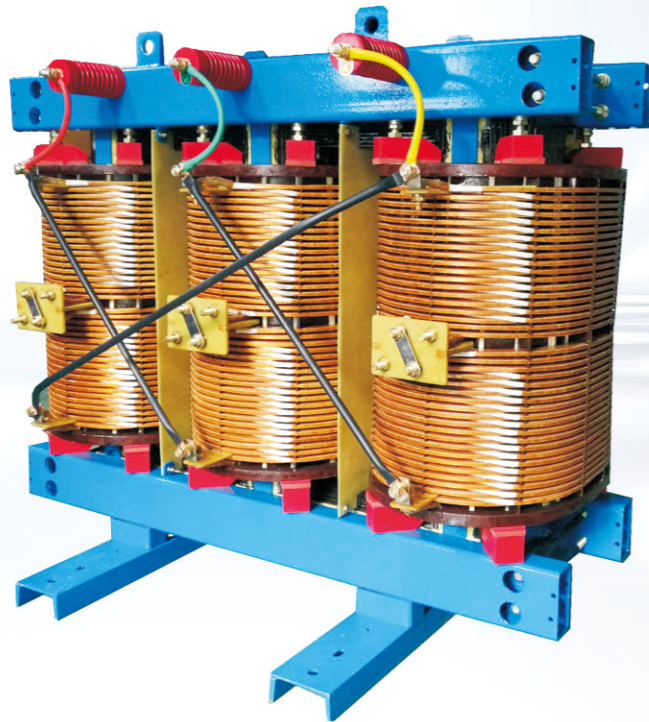
Build a smart power system

利“百”年品牌·加持智能电气

SG (B) □ 环保型干式变压器

ENVIRONMENT-FRIENDLY
DRY-TYPE TRANSFORMER

www.jxlbaji.com



SG (B) □环保型干式变压器

ENVIRONMENT-FRIENDLY
DRY-TYPE TRANSFORMER**LBAJI** 利百加

Build a smart power system

概述 / Overview

SG(B)10 型 H 级绝缘干式电力变压器承受热冲击能力强, 过载能力大、难燃、防火性能高、低损耗、局部放电小、噪声低不产生有害气体、不污染环境、对湿度、灰尘不敏感、体积小、不开裂、维护简便。因此, 最适宜用于防火要求高, 负荷波动大以及污秽潮湿的恶劣环境中。如: 机场、发电厂、冶金作业、医院、高层建筑、购物中心、居民密集区以及石油化工、核电站、核潜艇等特殊环境中。

SG (B) 10 H-class insulated dry-type power transformer has strong thermal shock resistance, high overload capacity, flame retardancy, high fire resistance, low loss, small partial discharge, low noise, no harmful gas production, no environmental pollution, insensitivity to humidity and dust, small size, no cracking, and easy maintenance. Therefore, it is most suitable for use in harsh environments with high fire prevention requirements, large load fluctuations, and dirty and humid conditions. Such as airports, power plants, metallurgical operations, hospitals, high-rise buildings, shopping centers, densely populated residential areas, as well as special environments such as petrochemicals, nuclear power plants, and nuclear submarines.

铁芯 / Iron core

铁心采用进口晶粒取向优质高导磁性硅钢片叠装而成。45°全斜接缝结构, 绕组与铁心间采用弹性固定装置, 使变压器具有较低的空载损耗和噪声。铁心表面经特殊的工艺处理, 既降低变压器噪声又使变压器在运行过程中铁心不会锈蚀。铁心由拉螺杆适度夹紧, 上、下夹件由拉板连接并与底座固定为一体, 绕组通过弹性垫块固定, 缓冲结构可减轻绕组的震动程度和降低噪声。

The iron core is made of imported grain oriented high-quality high magnetic conductivity silicon steel sheets stacked together. The 45° fully inclined joint structure adopts an elastic fixing device between the winding and the iron core, which enables the transformer to have low no-load loss and noise.

The surface of the iron core is treated with special technology, which not only reduces the noise of the transformer but also prevents the iron core from rusting during operation.

The iron core is moderately clamped by a pull screw, and the upper and lower clamping parts are connected by a pull plate and fixed to the base as a whole. The winding is fixed by elastic pads, and the buffering structure can reduce the vibration level and noise of the winding.

高、低压线圈 / High and low voltage coils

高、低压线圈选用 Nomex 绝缘材料, 并经 VPI 真空加压设备多次浸渍无溶剂浸渍漆, 并多次高温烘焙固化。高压线圈采用机械强度高, 散热条件好的连续式结构, 避免了多层圆筒式线圈层间电压高, 散热能力差、容易热击穿, 以及机械强度低的缺点, 从而提高了产品运行的可靠性; 低压线圈采用箔式或纵向气道大电流螺旋式结构。浸渍后的线圈防潮性能极佳, 更能承受冲击, 永无龟裂, 无局部放电, 寿命期后易于分解回收, 保护环境。

The high and low voltage coils are made of Nomex insulation material and are repeatedly impregnated with solvent-free impregnating paint using VPI vacuum pressurization equipment, and then baked and cured at high temperatures multiple times. The high-voltage coil adopts a continuous structure with high mechanical strength and good heat dissipation conditions, avoiding the disadvantages of high interlayer voltage, poor heat dissipation ability, easy thermal breakdown, and low mechanical strength of multi-layer cylindrical coils, thereby improving the reliability of product operation; The low-voltage coil adopts a foil or longitudinal airway high current spiral structure. The impregnated coil has excellent moisture resistance and can withstand impacts more effectively. It has no cracks or partial discharge, and is easy to dry, decompose, and recycle after its service life, protecting the environment.

外壳 / Casing

如用户需要, 我公司可提供防护等级为 IP20 和 IP23 的外壳。
外壳防护等级 IP20 的含义为: 不容许直径 12mm 的固体异物进入。
为保证冷却空气流通, 外壳的底板与顶部由网孔板制成。
外壳防护等级 IP23 的含义除同 IP20 外, 还可防止与垂线成 60°角以内的水淋入。

If required by the user, our company can provide enclosures with protection levels of IP20 and IP23.

The meaning of the enclosure protection level IP20 is that solid foreign objects with a diameter of 12mm are not allowed to enter.

To ensure the circulation of cooling air, the bottom and top of the shell are made of mesh plates.

The meaning of the enclosure protection level IP23 is not only the same as IP20, but also to prevent water from entering within 60 degrees of the vertical line.

过热保护 / Overheat protection

为对线圈过热采取保护措施, 315KVA 及以上 SG(B)10 干式变压器装有一套温度显示保护装置。本装置利用埋入低压绕组内的感温元件作为数显仪的信号源当低压绕组内温度发生变化时, 感温数显仪显示出一个新的温度值, 并根据此温度值执行控制及报警功能, 以起到保护变压器的作用。

To take protective measures against coil overheating, SG (B) 10 dry-type transformers of 315KVA and above are equipped with a temperature display protection device. This device uses temperature sensing elements embedded in the low-voltage winding as the signal source for the digital display instrument. When the temperature inside the low-voltage winding changes, the temperature sensing digital display instrument displays a new temperature value and performs control and alarm functions based on this temperature value to protect the transformer.

SG (B) □环保型干式变压器

ENVIRONMENT-FRIENDLY
DRY-TYPE TRANSFORMER

LBAJI 利百加
Build a smart power system

过载能力 / Overload capacity

SG(B)10 型干式电力变压器采用新结构、新材料、新工艺散热条件好、热寿命长、过负荷能力极强，在 120% 过负荷下可长期安全可靠工作。在旧 23 环境下无需风机冷却，仍可长期满负荷运行。

The SG (B) 10 dry-type power transformer adopts a new structure, new materials, and new processes, with good heat dissipation conditions, long thermal life, and extremely strong overload capacity. It can work safely and reliably for a long time under 120% overload. In the old 23 environment, there is no need for fan cooling and it can still operate at full load for a long time.

安全 / Secure

SG(B)10 型新产品为当今最高安全性能的干式变压器。所有绝缘材料均不助燃、自熄、无毒，可燃物质不到环氧浇注式产品的 10%，在 800°C 高温下长时间燃烧无有毒烟雾产生，从而克服了环氧浇注式变压器燃烧时产生有毒气体的缺陷。SG(B)10 型新产品在电力、地铁、船舶、化工、冶金等对安全要求高、湿热、通风不良的场合更显优越性。

The SG (B) 10 new product is the highest safety performance dry-type transformer available today. All insulation materials are non combustible, self extinguishing, non-toxic, and contain less than 10% of flammable substances compared to epoxy cast products. They burn for a long time at a high temperature of 800 °C without producing toxic smoke, thus overcoming the defect of toxic gases produced during the combustion of epoxy cast transformers. The SG (B) 10 new product demonstrates superior performance in applications with high safety requirements, humid and hot conditions, and poor ventilation, such as power, subway, ship, chemical, and metallurgical industries.

可靠 / Reliable

SG(B)10 型新产品的特殊线圈设计、工艺及材料，使产品三防性能极佳（防潮、防霉、防盐雾），更能承受热冲击，永无龟裂、无局部放电产生以 Nomex，为基础的绝缘系统，在变压器的整个使用寿命期都保持极佳的电性能和机械性能。Nomex 材料不易老化，耐收缩及抗压缩，加上弹力特强，因此可以确保变压器即使在使用数年之后线圈仍保持结构紧密，并且能够承受短路的压力。

The special coil design, process, and materials of the SG (B) 10 new product provide excellent three proof performance (moisture-proof, mold proof, salt spray proof), better resistance to thermal shock, no cracking, and no partial discharge. The insulation system based on Nomex maintains excellent electrical and mechanical performance throughout the entire service life of the transformer. Nomex material is not prone to aging, resistant to shrinkage and compression, and has strong elasticity, which ensures that the coil of the transformer remains tightly structured even after years of use and can withstand the pressure of short circuits.

保护外壳和出线母排 / Protect the casing and output busbar

Nomex® 绝缘系统干式变压器足以抵挡水份的侵入。

采用先进的 VPI 设备和真空浸渍技术。

U 认可的高品质浸渍漆，在 180°C 及以下的温度可长期连续运行。

Nomex® 纸完全由浸渍漆渗透浸渍。

The Nomex® insulation system dry-type transformer is capable of withstanding the invasion of moisture.

Adopting advanced VPI equipment and vacuum impregnation technology.

The high-quality impregnating paint recognized by U can operate continuously for a long time at temperatures of 180 °C and above.

Nomex® paper is completely impregnated with impregnating varnish.

体积更小、重量更轻 / Smaller volume and lighter weight

SG(B)10 型新产品采用了杜邦 Nomex® 纸为主绝缘材料，并将其作为变压器最热点处的混合绝缘系统，使该产品与同等容量的环氧树脂浇注式变压器产品相比，减小了尺寸和重量。

The SG (B) 10 new product uses DuPont Nomex® paper as the main insulation material and uses it as a hybrid insulation system at the hottest point of the transformer, reducing its size and weight compared to epoxy resin cast in transformers of the same capacity.

环保 / Environmental Protection

SG(B)10 型新产品寿命期后可以分解回收，克服了环氧树脂浇注干式变压器由于树脂、玻璃丝固化融合成整体，导致寿命期后不可分解，污染环境的缺陷。

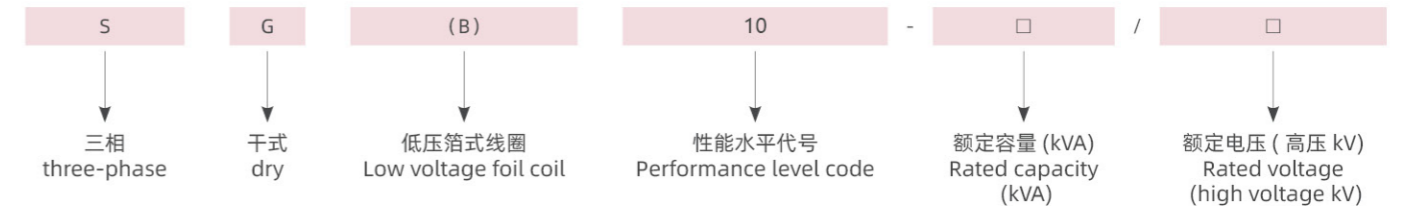
The SG (B) 10 new product can be decomposed and recycled after its service life, overcoming the defect of epoxy resin cast dry-type transformers that cannot be decomposed and pollute the environment due to the solidification and fusion of resin and glass fiber into a whole after its service life.

SG (B) □环保型干式变压器

ENVIRONMENT-FRIENDLY
DRY-TYPE TRANSFORMER

LBAJI 利百加
Build a smart power system

型号含义 / Model Meaning



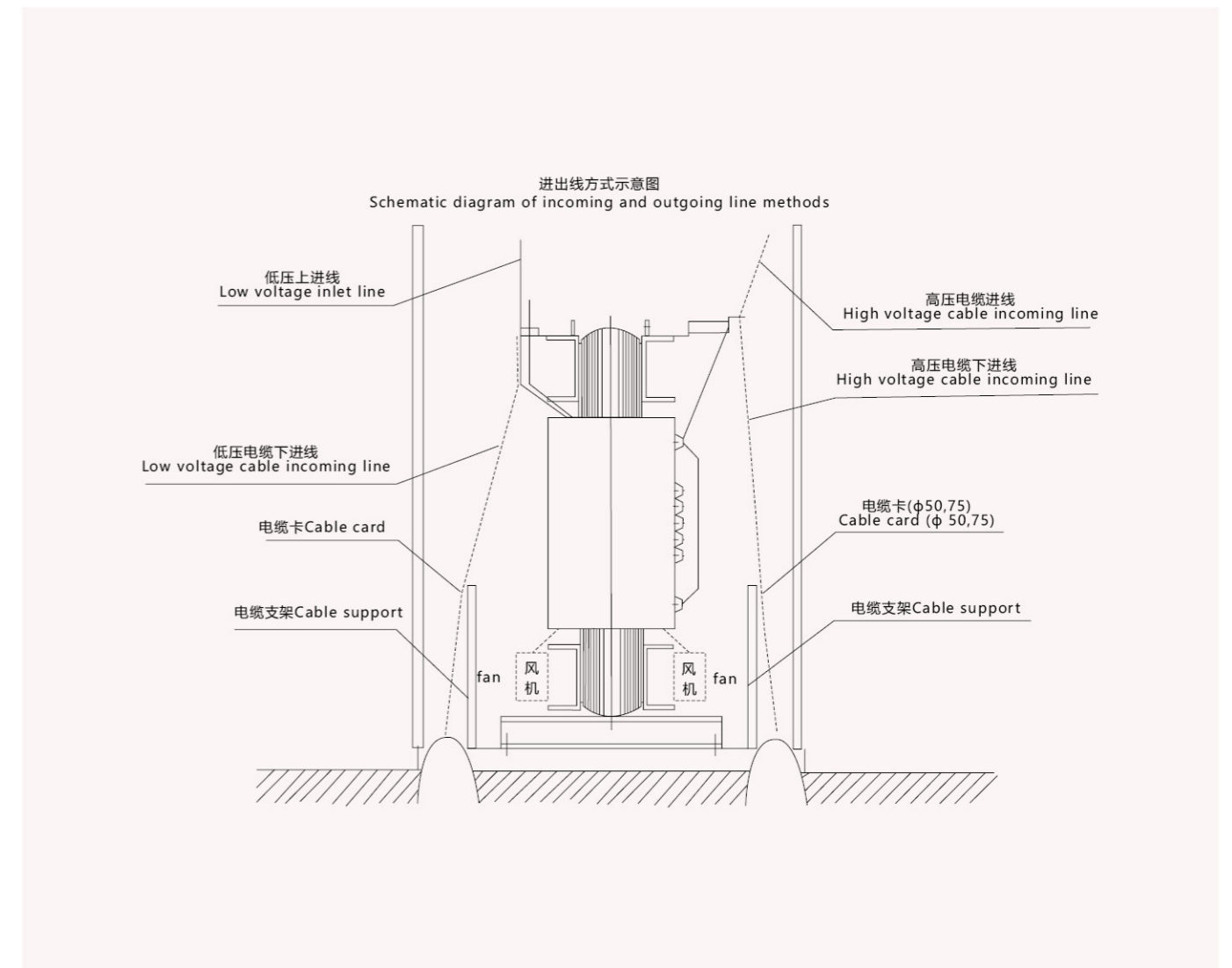
引出线 / Lead wire

高压出线端子固定在绕组上部，分接头在绕组中部，在断电的情况下通过联接片变换抽头，从而调节输出电压。

低压出线端子为板式导电排，通过螺栓与引出排可靠连接。

The high-voltage output terminal is fixed on the upper part of the winding, and the tap is located in the middle of the winding. In the event of a power outage, the tap is changed through a connecting piece to adjust the output voltage.

The low-voltage outgoing terminal is a plate type conductive strip, which is reliably connected to the outgoing strip through bolts.



SG (B) □环保型干式变压器

ENVIRONMENT-FRIENDLY
DRY-TYPE TRANSFORMER

LBAJI 利百加

Build a smart power system

正常使用条件 / Normal condition

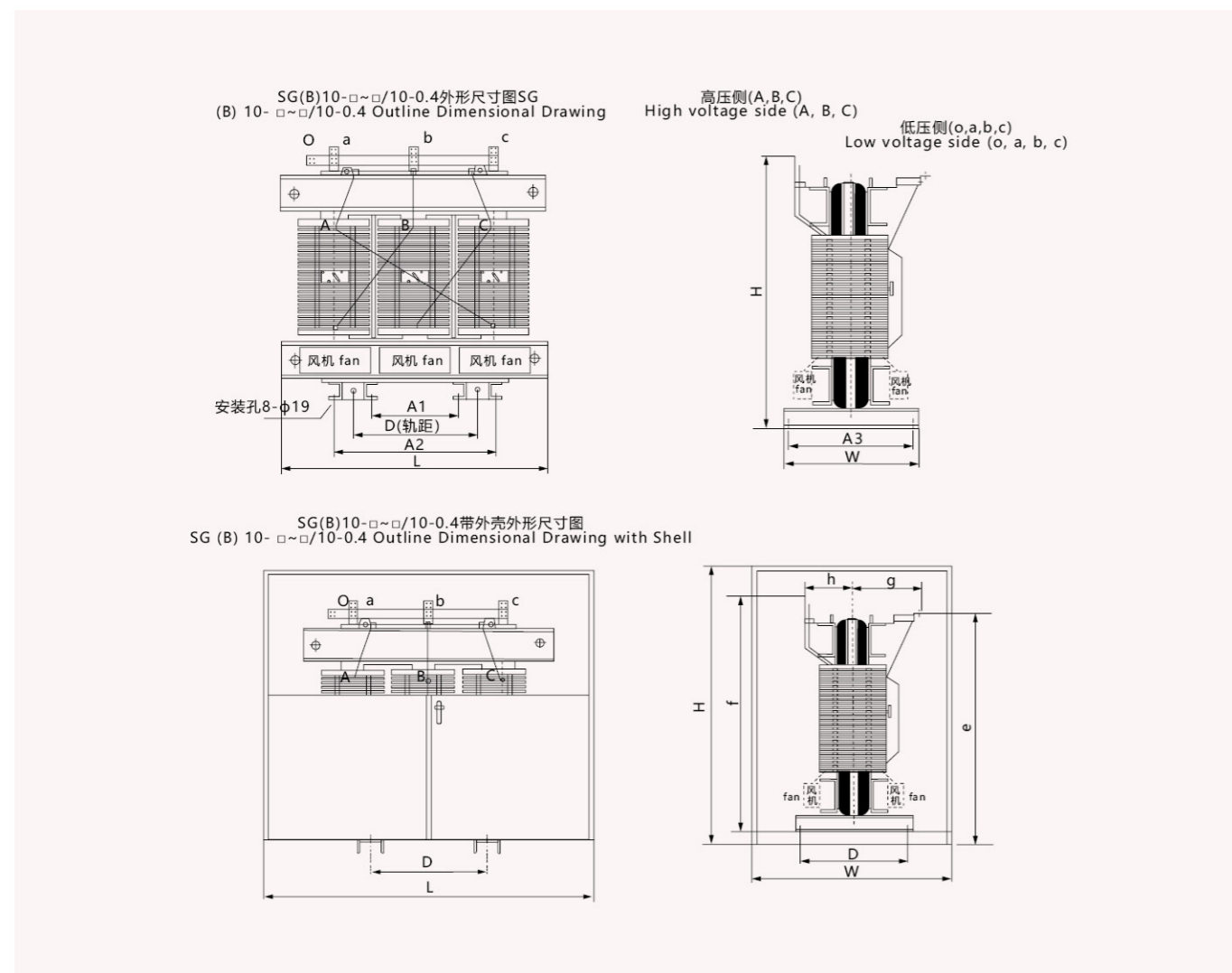
根据 GB6450-1986《干式变压器》1.2条。当环境最高温度 >40°C，海拔高度，1000m 时，按照国标有关规定进行修正。要求用户定货时提出。

According to Article 1.2 of GB6450-1986 "Dry type Transformers". When the maximum temperature of the environment is greater than 40 °C and the altitude is 1000m, it shall be corrected according to the relevant provisions of the national standard. Request the user to specify when placing an order.

相关标准 & 参数 / Related standards & parameters

- GB1094.11-2007《干式变压器》
- GB/T10228-1997《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》
- JB/T10088-2004《6-220kV级电力变压器声级》
- GB4208-1993《外壳防护等级 (IP 代码)》
- GB1094.11-2007 "Dry type Transformers"
- GB/T10228-1997 "Technical Parameters and Requirements for Dry type Power Transformers"
- GB/T17211-1998 "Load Guide for Dry type Power Transformers"
- JB/T10088-2004 "Sound Level of 6-220kV Power Transformers"
- GB4208-1993 "Degrees of Protection Provided by Enclosures (IP Code)"

外形及安装尺寸 / Appearance and installation dimensions



SG (B) □环保型干式变压器

ENVIRONMENT-FRIENDLY
DRY-TYPE TRANSFORMER

LBAJI 利百加

Build a smart power system

10KV 级 SG(B)11H 级环保型干式变压器技术参数

Technical parameters of 10KV SG (B) 11H environmentally friendly dry-type transformer

额定容量 Rated capacity (KVA)	电压组合及分接范围 Voltage combination and tap range (kV)			联结 组标号 connection symbol	空载 损耗 No load loss (KW)	不同绝缘系统温度下的负载损耗 Temperature of different insulation systems Load loss below(KW)			空载 电流 No load current (%)	短路 阻抗 Short circuit impedance (%)	重量 weight (kg)	外形尺寸 (mm) (长 L × 宽 B × 高 H) Dimensions (mm) (L in length, B in width, and H in height)	安装尺寸 Installation size	带外壳尺寸 (长 × 宽 × 高) With shell size (L × W × H)
	高压 high pressure (kV)	高压分接范围 High voltage division Range of acceptance %	低压 low pressure (kV)			130°C (B) (100°C)	155°C (B) (120°C)	180°C (B) (145°C)						
100		±2.5		0.4 Dyn11 Yyn0	0.36			1.69	4		590	850×600×830	400/450	1250×1000×2200
125		±5			0.42			1.98			650	870×650×890	550/550	1300×1000×2200
160					0.48			2.28			800	900×710×930	550/550	1300×1100×2200
200					0.56			2.71			880	940×750×980	550/660	1350×1100×2200
250					0.65			2.96			1050	990×770×1030	660/660	1400×1150×2200
315	6				0.79			3.73			1260	1020×790×1080	660/660	1450×1150×2200
400	6.3				0.88			4.28			1570	1060×880×1180	660/820	1450×1200×2200
500	6.6				1.04			5.23			1780	1090×900×1220	660/820	1500×1200×2200
630	10	±2×2.5			1.17			6.4			1860	1200×920×1150	820/820	1600×1200×2200
800	10.5	±5			1.37			7.46			2180	1260×920×1200	820/820	1650×1200×2200
1000	11				1.59			8.76			2590	1320×950×1250	820/820	1750×1300×2200
1250				1.88			10.3	2980	1350×980×1320	820/820	1750×1350×2200			
1600				2.2			12.5	3580	1400×1120×1400	1070/1070	1800×1400×2200			
2000				2.75			15.5	4070	1440×1120×1520	1070/1070	1850×1450×2200			
2500				3.24			18.4	4820	1500×1120×1640	1070/1070	1900×1500×2200			

10KV 级 SG(B)13H 级环保型干式变压器技术参数

Technical parameters of 10KV SG (B) 13H environmentally friendly dry-type transformer

额定容量 Rated capacity (KVA)	电压组合及分接范围 Voltage combination and tap range (kV)			联结 组标号 connection symbol	空载 损耗 No load loss (KW)	不同绝缘系统温度下的负载损耗 Temperature of different insulation systems Load loss below(KW)			空载 电流 No load current (%)	短路 阻抗 Short circuit impedance (%)	重量 weight (kg)	外形尺寸 (mm) (长 L × 宽 B × 高 H) Dimensions (mm) (L in length, B in width, and H in height)	安装尺寸 Installation size	带外壳尺寸 (长 × 宽 × 高) With shell size (L × W × H)	
	高压 high pressure (kV)	高压分接范围 High voltage division Range of acceptance %	低压 low pressure (kV)			130°C (B) (100°C)	155°C (B) (120°C)	180°C (B) (145°C)							
100		±2.5		0.4 Dyn11 Yyn0	0.29			1.69	1.5	4		590	850×600×830	400/450	1250×1000×2200
125		±5			0.34			1.98	1.3			650	870×650×890	550/550	1300×1000×2200
160					0.38			2.28	13			800	900×710×930	550/550	1300×1100×2200
200					0.45			2.71	1.1			880	940×750×980	550/660	1350×1100×2200
250					0.52			2.96	11			1050	990×770×1030	660/660	1400×1150×2200
315	6				0.64			3.73	1			1260	1020×790×1080	660/660	1450×1150×2200
400	6.3				0.7			4.28	1			1570	1060×880×1180	660/820	1450×1200×2200
500	6.6				0.83			5.23	1			1780	1090×900×1220	660/820	1500×1200×2200
630	10	±2×2.5			0.94			6.4	0.85			1860	1200×920×1150	820/820	1600×1200×2200
800	10.5	±5			1.1			7.46	0.85			2180	1260×920×1200	820/820	1650×1200×2200
1000	11				1.27			8.76	0.85			2590	1320×950×1250	820/820	1750×1300×2200
1250				1.5			10.3	0.85	2980	1350×980×1320	820/820	1750×1350×2200			
1600				1.76			12.5	0.85	3580	1400×1120×1400	1070/1070	1800×1400×2200			
2000				2.2			15.5	0.7	4070	1440×1120×1520	1070/1070	1850×1450×2200			
2500				2.6			18.4	0.7	4820	1500×1120×1640	1070/1070	1900×1500×2200			