



江西赣电电气有限公司

JIANGXI GANDIAN ELECTRIC CO.,LTD



GANDIAN ELECTRIC

高压互感器册

High voltage transformer list

公司简介

江西赣电电气有限公司(江西赣电互感器有限责任公司)是原国家机械部、电力部在江西省定点生产干式变压器、油浸式变压器、高压互感器、组合互感器、箱式变电站的骨干企业,被江西省科技厅授予科技型企业,是国家城乡电网建设与改造所需设备推荐企业,江西省分行业十强企业。

公司占地面积6万平方米,建筑面积2万多平方米,主要设备496台套,浇注设备采用德国Hedrich真空浇注处理系统,剪切设备采用比利时SOENEN公司全自动数控控制剪切线,绕线设备采用BZR-1型自动绕线机,并建立了国内一流的试验站,其中包括瑞士哈佛莱561局放仪、变压器微机测控系统、500KV高压工频耐压设备、色谱分析仪等。公司技术力量雄厚,引进并消化了国外先进的干式变压器制造技术,拥有自己的知识产权,是《电流互感器》、《组合互感器》国家标准主要起草单位,拥有全国互感器标准化技术委员会委员,是江西省变压器和互感器最大的制造厂家之一。

我公司管理体系完善、工艺先进、生产实力雄厚、检测设备齐全,通过ISO9001:2008质量管理体系认证(中国质量认证中心)和ISO10012计量保证体系认证。

公司主要生产220KV及以下各种电流、电压互感器,干式变压器,油浸式变压器,预装式变电站,组合式变压器,6~35KV高压计量箱(组合互感器),放电线圈,真空断路器。其中国家专利产品(专利号ZL90102403.1)JSXN6-35、JSZG6-35(10)和JSXNG-10(6)抗铁磁谐振电压互感器获华中电管局科技进步一等奖;JSZG(F)6-35户内干式三相抗铁磁谐振电压互感器填补国内空白;JDC6-110、LB7-110高压互感器、LVQB-110、SC10系列干式变压器和ZGS11系列组合变压器被江西省科技厅列为“江西省重点新产品”,组合式变电站达到国内先进水平,深受广大供电部门的青睐,SCB10型系列干式变压器具有安全性能高、耐冲击力强、损耗低、噪声小,外表美观等特点,空载损耗、负载损耗、噪声、局放等主要技术指标优于同类企业产品水平。

公司始终坚持以“以质量求生存、以科技求发展”的经营思想;始终坚持“科技领先、精心制造、诚心服务、持续改正”的质量方针。并以此同新老顾客携手拼进,共创辉煌。

Company introduction

Jiangxi Gandian Electric Co., Ltd. (Jiangxi Gandian Current Transformer Co., Ltd.) is the enterprise designated by former State Department of Machinery and Electricity to produce dry-type transformers, oil-immersed transformers, high voltage transformers, combined transformers, box-type substation in Jiangxi Province, awarded the scientific and technological enterprises by Jiangxi Science and Technology Department, is the recommended company for the required equipments used in national urban and rural power grid construction and transformation, one of the top ten enterprises in Jiangxi Province by industry.

We covers 60,000 square meters, over 20,000 square meters of construction area, 496 sets of major equipment, casting equipment with Germany Hedrich vacuum processing system, cutting equipment with Belgian SOENEN automatic numerical control shear line, winding equipment with BZR-1 automatic winding machine, and established domestic first-class test stations, including the Swiss Hafucai 561 PD meter, transformer computer monitoring system, 500KV high frequency voltage equipment, chromatographic analyzer. Company has strong technical force, introduced and digested foreign advanced manufacturing technology of dry-type transformers, has our own intellectual property rights, is the main drafter of national standards for "current transformer", "combined transformer," one of the members of the National Standardization Technical Committee CT, and the largest manufacturer of transformers and Current Transformer in Jiangxi Province.

We have good management system, advanced technology, strong manufacturing strength, complete testing equipments, passed the ISO9001: 2008 quality management system certification (China Quality Certification Center), and ISO10012 measurement assurance system certification.

We mainly produces all kinds of 220KV and below the current, voltage transformer, dry type transformers, transformer oil invasion, prefabricated substations, combined transformer, 6 ~ 35KV high voltage metering box (combined transformer), discharge coil, vacuum circuit breakers. Among, the national patent products (patent No. ZL90102403.1) JSXN6-35, JSZG6-35 (10) and JSXNG-10 (6) anti-ferromagnetic resonance voltage transformer were awarded the technology progress prize by the Central OFTA; JSZG (F) 6-35 dry indoor third proposition ferroresonance voltage transformer filled domestic gaps; JDC6-110, LB7-110 high-voltage transformer, LVQB-110,

SC10 series of dry-type transformer and ZGS11 series combination transformer are listed as "Jiangxi Provincial key new products" by Jiangxi Science and Technology Department. Combined substation had reached the advanced level, is popular used in majority of the electricity sector, SCB10 series dry-type transformers features with high safety, impact resistance, low loss, low noise and beautiful appearance. Other major technical indicators, like open circuit losses, load loss, noise and PD, are superior to the similar products in the industry.

We always adhere to the "quality of survival, technology development," the business thinking; always adhere to the "advanced technology, careful manufacture, sincere service, continuing to correct" the quality policy. Hand in hand with our old and new customers, we fight forward and create brilliance.



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L B 7 132(110、66) (W1、W2、W3、GY、GYW2)

用于高原地区 Applying to highland area
防污秽等级 Pollution level
额定电压 kV Rated voltage(kV)
设计序号 Design No.
带保护级 With protective class
电流互感器 Current transformer



■ 产品用途

本产品是供132(110、66)kV、50或60Hz电力系统作电流、电能测量和继电保护用的户外单相油浸正立式电流互感器。

■ 遵循的主要标准

国际电工委员会标准：IEC60044-1《电流互感器》
国家标准：GB1208《电流互感器》
GB311.1《高压输变电设备的绝缘配合》

■ 使用环境条件

环境温度：-40~+40℃
海拔高度：LB7-132(110、66)(W1、W2、W3)型不超过1000m
LB7-132(110、66)GY(W2)型不超过3000m
环境污秽等级：Ⅱ、Ⅲ、Ⅳ级污秽地区

■ 系统概况

系统额定电压：132kV 110kV 66kV
系统最高电压：145kV 126kV 72.5kV
系统额定频率：50Hz或60Hz
系统中性点接地方式：有效接地

■ 结构特点

- 本型产品为油纸绝缘结构，其主绝缘采用高压电缆纸绕包而成，为改善电场分布和提高绝缘材料利用率，在主绝缘中设置若干个均压电容屏，经真空干燥后浸于变压器油中，绝缘性能稳定、可靠，运行经验丰富，使用寿命长，维护便利。
- 变压器油的流动性好，利于产品散热，对于因气泡、灰尘等引起的局部放电故障具有自熄能力。
- 通过改变外部连接片的接线方式可以很方便地实现串并联连接，从而改变电流比。
- 产品顶部装有不锈钢金属膨胀器，使产品处于全密封状态，防止变压器油及绝缘纸受潮，延长了产品使用寿命，并且在金属膨胀器上设置有油位视察窗，可以很方便地观察到油位的变化。
- 产品底部装有多功能放油阀，使得取油样、放油更为便利。
- 在二次端子盒内设置有独立的地屏引出端子。
- 如果您对我们的产品有特殊要求，请注意添加备注。

■ Purpose

It is outdoor, single phase and oil immersed hair-pin type current transformer, which is used for metering and relay protection of 132 (110、66)kV 50 or 60Hz system.

■ Standards

IEC Standard: IEC60044-1《Current Transformer》
National Standard: GB1208《Current Transformer》
GB311.1《Insulation co-ordination for high voltage transmission and distribution equipment》

■ Service condition

Ambient temperature: -40~+40℃
Altitude: LB7-132(110、66)(W1、W2、W3) less than 1000m
LB7-132(110、66)GY(W2) less than 3000m
Environment pollution level: II、III、IV

■ System condition

System Rated Voltage: 132kV 110kV 66kV
System Highest Voltage: 145kV 126kV 72.5kV
System Rated frequency: 50Hz or 60Hz
System neutral earthing method: effectively earthed

■ Structure feature

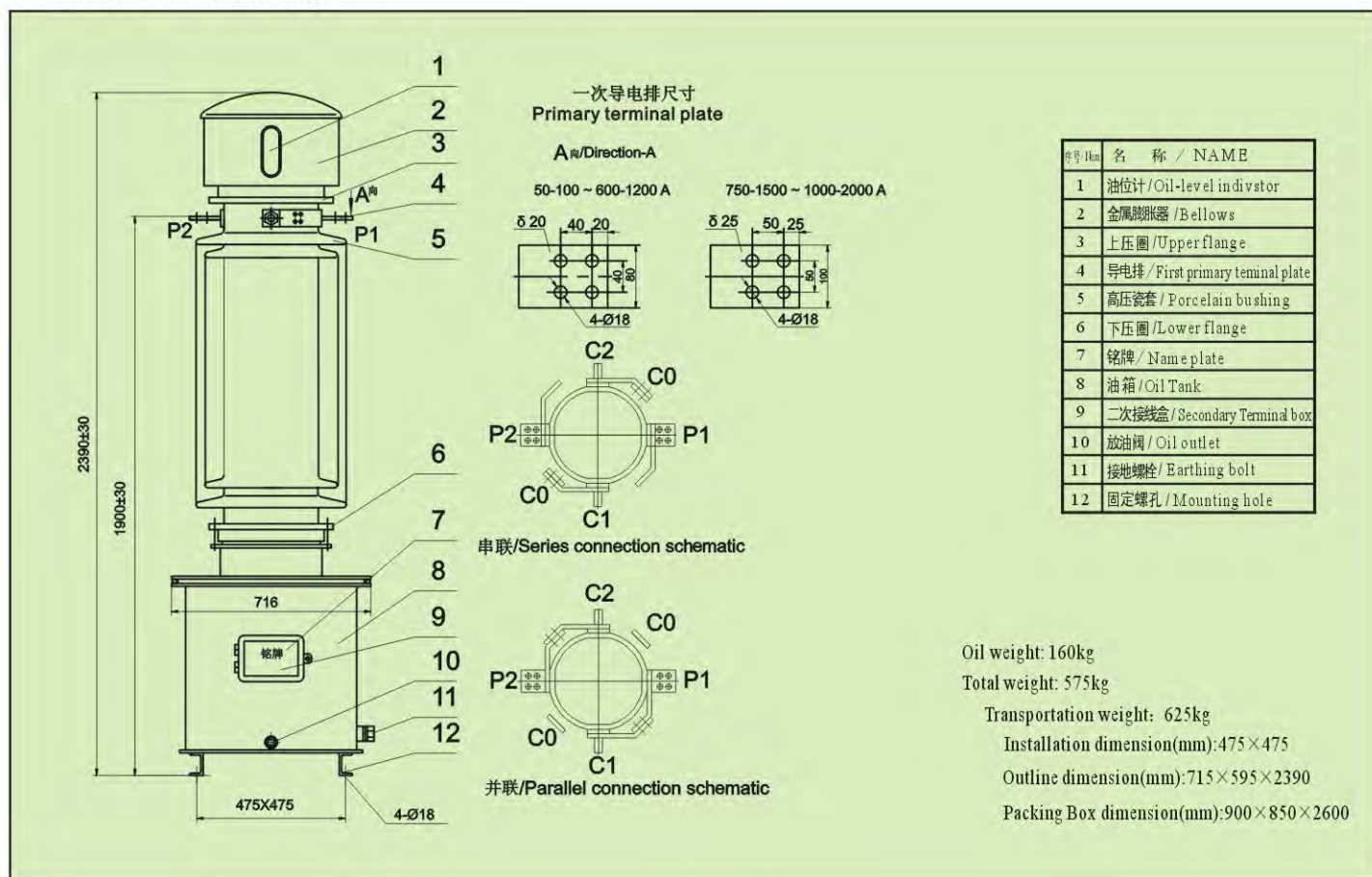
- It is oil/paper insulation system, the primary insulation is wound from high voltage cable paper, and is placed several capacitor screen of voltage division in the primary insulation, which can improve electric field distributing and decrease the consumption of insulation material. It will be immersed with transformer oil after desiccating under vacuum. It has advantages of stable and reliable performance of insulation, rich successful experience, a long life time and convenient maintenance.
- Perfect fluidity performance of transformer oil is good for heat dissipation, it also has self recover ability for the failure of partial discharge caused by air bubble and dust.
- The current ratio can be changed easily by change the connection method of connecting plate on series or parallel connection.
- Hermetically sealed stainless steel metallic bellows is installed on the top, which protects the transformer oil from moisture and extend the life time, also there is a oil level gauge on the bellows for observing the changing of oil volume.
- There is a multi function oil drain valve on the base, which makes it more convenient for sampling and draining.
- There is a individual terminal of earth screen in the terminal box.
- If you have special requirement for our product, please add note Explanation

■ 技术参数 Technical data

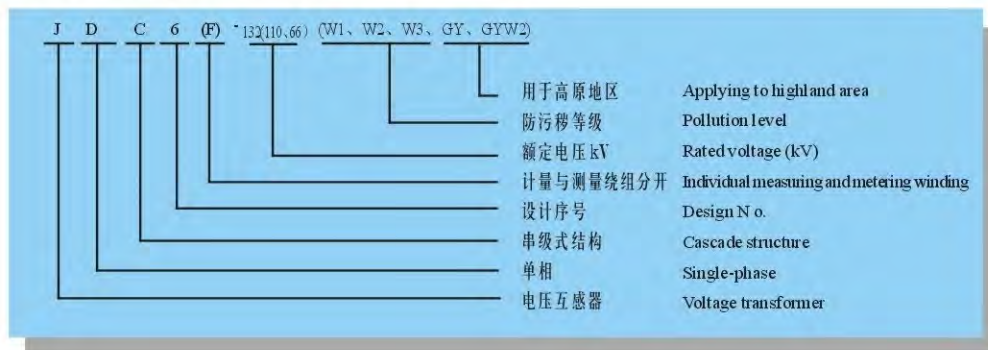
额定一次电压 Rated primary voltage	132(110、66)kV
设备最高电压 Highest voltage for equipment	145(126、72.5)kV
额定频率 Rated frequency	50或60Hz
额定电流比 Rated current ratio	2 x 30~2 x 1000/5 或 or 1A
二次绕组个数 Number of secondary windings	1~6
测量绕组准确级 Accuracy of measuring winding	0.2, 0.2S, 0.5, 0.5S
保护绕组准确级 Accuracy of protection winding	5P 或 or 10P
额定二次输出 Rated secondary output	20-50VA
准确限值系数 Accuracy limit factors	15, 20, 25, 30
仪表保安系数 Instrument security factor	≤5 或 or 10
局部放电水平 在1.2Um/√3kV下 Partial discharge under 1.2Um/√3kV	<5pC
介质损耗因数tgδ 在10kV~Um/√3kV下 Dielectric dissipation factor tgδ under 10kV~Um/√3kV	<0.005, 增量(variation) <0.001
额定工频耐受电压 Power frequency withstand voltage on primary windings	230(275)kV 200(230)kV 140kV(方均根值) rms
额定雷电冲击耐受电压 Rated lightning impulse withstand voltage	550(650)kV 450(550)kV 325kV(峰值) peak
一次绕组段间额定工频耐受电压 Power frequency withstand voltage between primary sections	3kV(方均根值) rms
地屏对地额定工频耐受电压 Power frequency withstand voltage on earth screen to earth	5kV(方均根值) rms
二次绕组对地及二次绕组间额定工频耐受电压 Power frequency withstand voltage on secondary windings and Secondary windings to earth	3kV(方均根值) rms
二次绕组匝间耐受电压 Secondary winding inter-turn withstand voltage	4.5kV(峰值) peak
机械强度(三个方向) Mechanical strength(three direction)	2000N

额定一次电流 Rated primary current	额定短时热电流 Rated short-time thermal current	额定动稳定电流 Rated dynamic current
(A)	(KA)	(KA)
30-60	3.15-6.3	7.9-15.8
50-100	5.3-10.6	13-26
75-150	7.9-15.8	20-40
100-200	10.5-21	27-54
150-300	15.8-31.5	40-80
200-400	21-42	54-108
300-600	31.5-45(3s)	80-115
400-800	31.5-45(3s)	80-115
500-1000	31.5-45(3s)	80-115
600-1200	31.5-45(3s)	80-115
750-1500	31.5-45(3s)	80-115
800-1600	31.5-45(3s)	80-115
1000-2000	31.5-45(3s)	80-115

■ 外形图 Outline drawing



■ 型号含义 Type description



■ 产品用途

本产品是供132(110、66)kV、50或60Hz电力系统作电压、电能测量和继电保护用的户外单相油浸电磁式电压互感器。

■ 遵循的主要标准

国际电工委员会标准：IEC60044-2《电磁式电压互感器》

国家标准：GB1207《电压互感器》

GB311.1《高压输变电设备的绝缘配合》

■ 使用环境条件

环境温度：-40~+40℃

海拔高度：JDC6(F)-132(110、66)(W1、W2、W3)型不超过1000m

JDC6(F)-132(110、66)GY(W2)型不超过3000m

环境污秽等级：Ⅱ、Ⅲ、Ⅳ级污秽地区

■ 系统概况

系统额定电压：132kV 110kV 66kV

系统最高电压：145kV 126kV 72.5kV

系统额定频率：50Hz或60Hz

系统中性点接地方式：有效接地

■ 结构特点

本型产品为串级式绝缘结构，一次绕组分为四级，分别套装在单相双柱式铁心的两个芯柱上。其绝缘主要由高压电缆纸、电话纸、纸板等材料构成，经真空干燥后浸于变压器油中。绝缘性能稳定、可靠、运行经验丰富，使用寿命长，维护便利。

- 变压器油的流动性好，利于产品散热，对于因气泡、灰尘等引起的局部放电故障具有自熄能力。
- 本型产品具有二或三个二次绕组，其中测量绕组和计量绕组分开。
- 产品顶部装有不锈钢金属膨胀器，使产品处于全密封状态，防止变压器油及绝缘纸受潮，延长了产品使用寿命，并且在金属膨胀器上设置有油位视察窗，可以很方便地观察到油位的变化。
- 产品底部装有多功能放油阀，使得取油样、放油更为便利。
- 二次接线板采用环氧树脂浇注结构，密封性能更加可靠。
- 如果您对我们的产品有特殊要求，请注意添加备注。

■ Purpose

It is outdoor, single phase and oil immersed inductive voltage transformer, which is used for metering and relay protection of 132(110、66)kV, 50 or 60Hz system.

■ Standards

IEC Standard: IEC60044-2 《Inductive Voltage Transformer》

National Standard: GB1207 《Voltage Transformer》

GB311.1 《Insulation co-ordination for high voltage transmission and distribution equipment》

■ Service condition

Ambient temperature: -40~+40℃

Altitude: JDC6(F)-132(110、66)(W1、W2、W3) less than 1000m

JDC6(F)-132(110、66)GY(W2) less than 3000m

Environment pollution level: Ⅱ、Ⅲ、Ⅳ

■ System condition

System Rated Voltage: 132kV 110kV 66kV

System Highest Voltage: 145kV 126kV 72.5kV

System Rated frequency: 50Hz or 60Hz

System neutral earthing method: effectively earthed

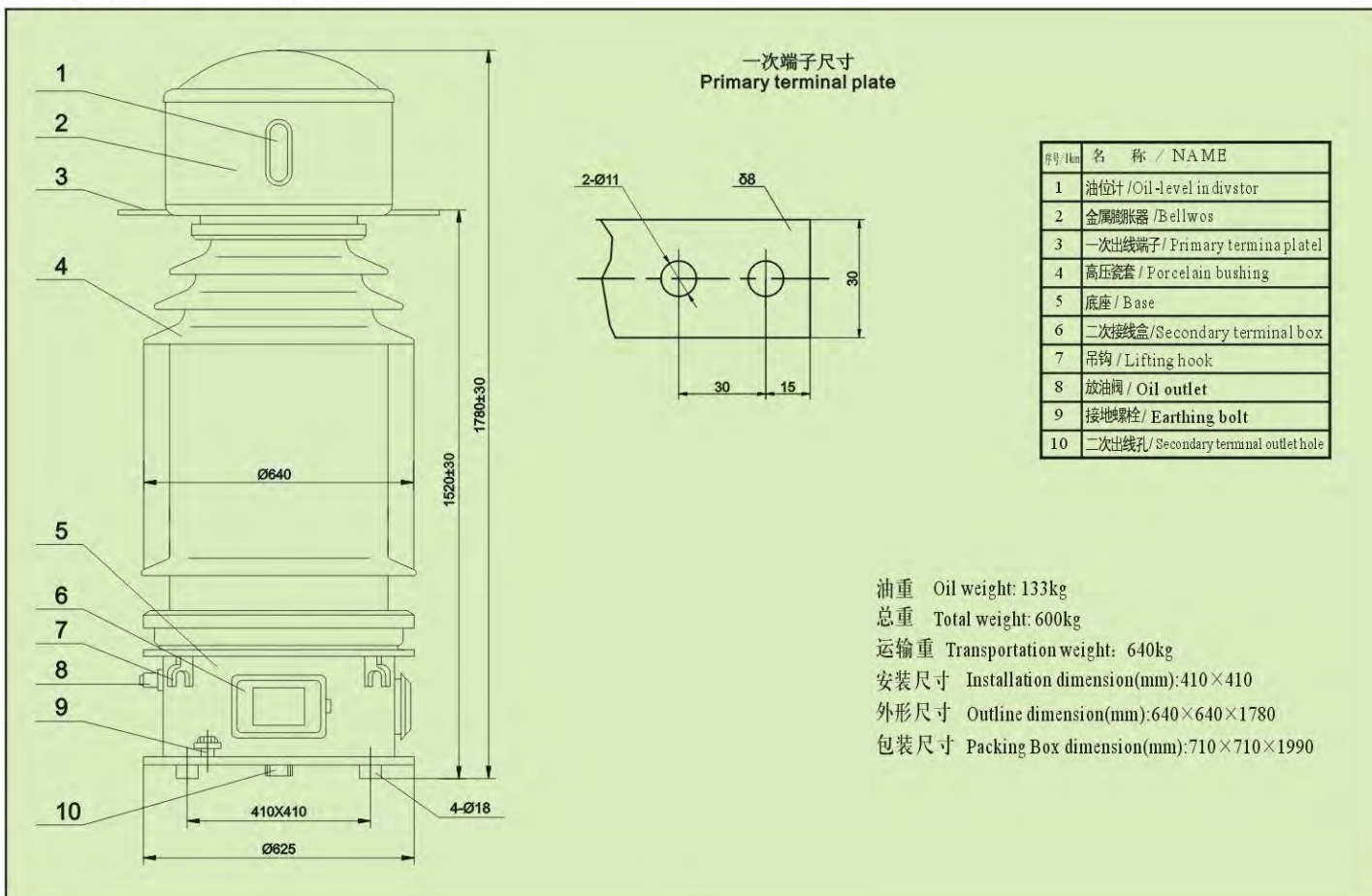
■ Structure feature

- It is cascade structure, which the primary winding has four grade windings surrounded on each limbs of one single phase two-limb core. The insulation consists of high voltage cable paper, phone paper and cardboard etc, which will be immersed with transformer oil after desiccating under vacuum. It has advantages of stable and reliable performance of insulation, rich successful experience, a long life time and convenient maintenance
- Perfect fluidity performance of transformer oil is good for heat dissipation, it also has self recover ability for the failure of partial discharge caused by air bubble and dust.
- It has two or three secondary windings, which has individual measuring and metering winding.
- Hermetically sealed stainless steel metallic bellows is installed on the top, which protects the transformer oil from moisture and extend the life time, also there is a oil level gauge on the bellows for observing the changing of oil volume.
- There is a multi function oil drain valve on the base, which makes it more convenient for sampling and draining.
- The secondary terminal board is made of epoxy casting, the seal performance is more reliable.
- If you have special requirement for our product, please add note explanation

■ 技术参数 Technical data

额定一次电压 Rated primary voltage	132(110,66)/ $\sqrt{3}$ kV				
设备最高电压 Highest voltage for equipment	145(126,72.5)/ $\sqrt{3}$ kV				
额定频率 Rated frequency	50或60Hz				
额定电压比 Rated voltage ratio	$\frac{132(110,66)}{\sqrt{3}} / \frac{0.1}{\sqrt{3}} / 0.1\text{kV}; \frac{132(110,66)}{\sqrt{3}} / \frac{0.1}{\sqrt{3}} / \frac{0.1}{\sqrt{3}} / 0.1\text{kV}$				
准确级及额定输出 Accuracy and rated output	二次端子标志 Secondary terminal marking	1a-1n		2a-2n	da-dn
	准确级 Accuracy	0.2	0.5	0.5	3P
	额定输出(VA) Rated output	100	150	150	300
热极限输出 Thermal limiting output	2000VA				
额定电压因数 Rated voltage factor	1.2倍连续; 1.5倍30s; 1.2, times continuous; 1.5 times 30s				
局部放电水平 在1.2Um/√3kV下 Partial discharge under 1.2Um/√3kV	≤5pC				
介电损耗因数tgδ 在10kV下 Dielectric dissipation factor tgδ under 10kV	整体tgδ ≤0.02; 支架tgδ ≤0.05 Product tgδ ≤0.02; frame tgδ ≤0.05				
额定工频耐受电压 Power frequency withstand voltage on primary windings	230(275)kV 200(230)kV 140kV (方均根值) rms				
额定雷电冲击耐受电压 Rated lightning impulse withstand voltage	325kV 450(550)kV 550(650)kV (峰值) peak				
一次绕组“N”端对地工频耐受电压 Power frequency withstand voltage on primary windings “N” terminal to earth	5kV (方均根值) rms				
二次绕组间及对地工频耐受电压 Power frequency withstand voltage between secondary windings and to earth	3kV (方均根值) rms				
机械强度 (三个方向) Mechanical strength (three direction)	2000N				

■ 外形图 Outline drawing



■ 型号含义 Type description



■ 产品用途

本产品是供220kV、50或60Hz电力系统作电流、电能测量和继电保护用的户外单相油浸正立式电流互感器。

■ 遵循的主要标准

国际电工委员会标准：IEC60044-1《电流互感器》
 国家标准：GB1208《电流互感器》
 GB311.1《高压输变电设备的绝缘配合》

■ 使用环境条件

环境温度：-40~+40℃
 海拔高度：LB7-220(W1, W2, W3)型不超过1000m
 LB7-220GY(W2)型不超过3000m
 环境污秽等级：Ⅱ、Ⅲ、Ⅳ级污秽地区

■ 系统概况

系统额定电压：220kV
 系统最高电压：252kV
 系统额定频率：50Hz或60Hz
 系统中性点接地方式：有效接地

■ 结构特点

- 本型产品为油纸绝缘结构，其主绝缘采用高压电缆纸绕包而成，为改善电场分布和提高绝缘材料利用率，在主绝缘中设置若干个均压电容屏，经真空干燥后浸于变压器油中，绝缘性能稳定、可靠，运行经验丰富，使用寿命长，维护便利。
- 变压器油的流动性好，利于产品散热，对于因气泡、灰尘等引起的局部放电故障具有自熄能力。
- 通过改变外部连接片的接线方式可以很方便地实现串并联连接，从而改变电流比。
- 产品顶部装有不锈金属膨胀器，使产品处于全密封状态，防止变压器油及绝缘纸受潮，延长了产品使用寿命，并且在金属膨胀器上设置有油位视窗，可以很方便地观察到油位的变化。
- 产品底部装有多功能放油阀，使得取油样、放油更为便利。
- 在二次端子盒内设置有独立的地屏引出端子。
- 如果您对我们的产品有特殊要求，请注意添加备注。

■ Purpose

It is outdoor, single phase and oil immersed hair-pin type current transformer, which is used for metering and relay protection of 220kv, 50 or 60Hz system.

■ Standards

IEC Standard: IEC60044-1 《Current Transformer》
 National Standard: GB1208 《Current Transformer》
 GB311.1 《Insulation co-ordination for high voltage transmission and distribution equipment》

■ Service condition

Ambient temperature: -40~+40℃
 Altitude: LB7-220(W1, W2, W3) less than 1000m
 LB7-220GY(W2) less than 3000m
 Environment pollution level: Ⅱ、Ⅲ、Ⅳ

■ System condition

System Rated Voltage: 220kV
 System Highest Voltage: 252kV
 System Rated frequency: 50Hz or 60Hz
 System neutral earthing method: effectively earthed

■ Structure feature

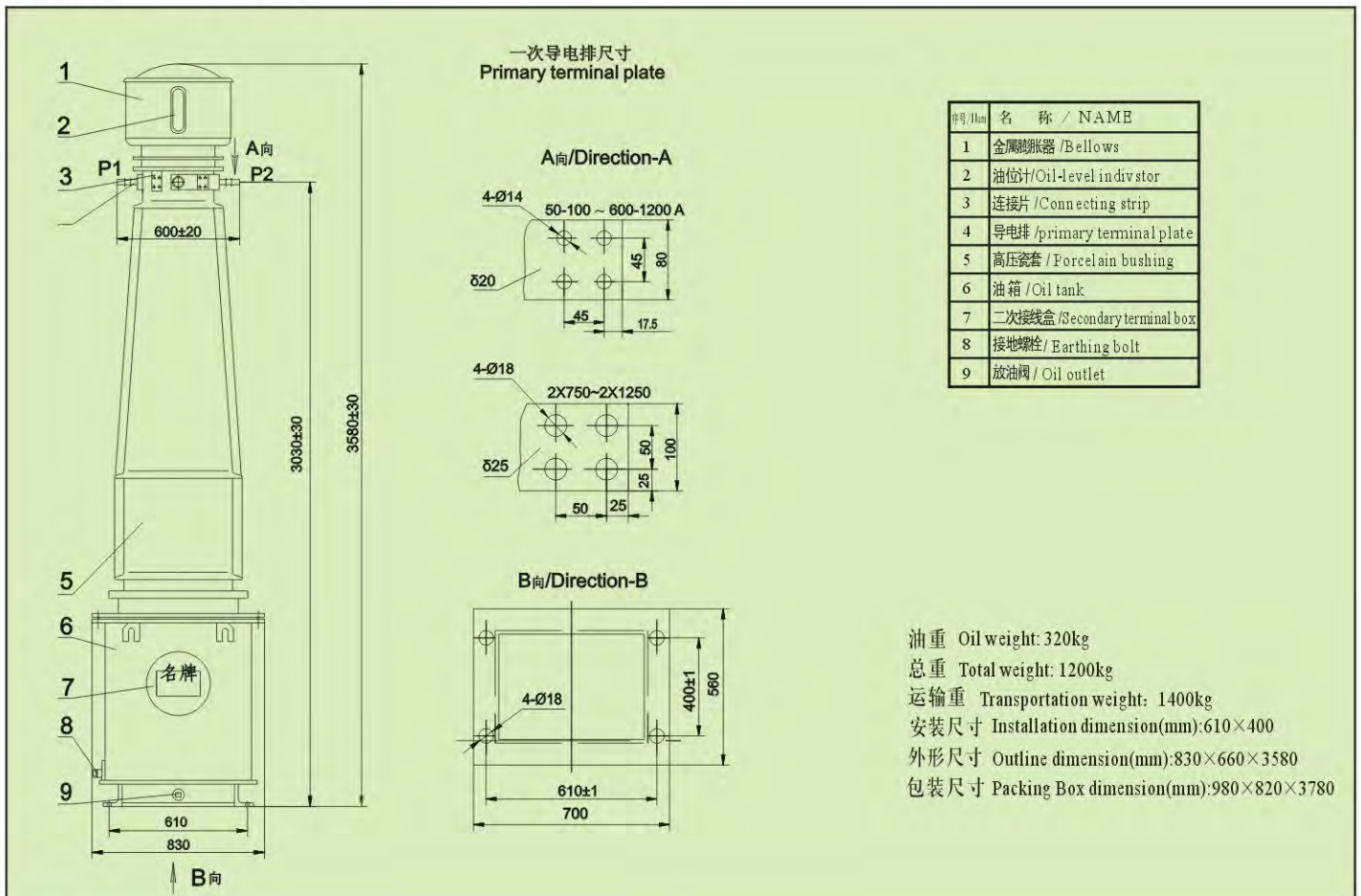
- It is oil/paper insulation system, the primary insulation is wound from high voltage cable paper, and is placed several capacitor screen of voltage division in the primary insulation, which can improve electric field distributing and decrease the consumption of insulation material. It will be immersed with transformer oil after desiccating under vacuum. It has advantages of stable and reliable performance of insulation, rich successful experience, a long life time and convenient maintenance.
- Perfect fluidity performance of transformer oil is good for heat dissipation, it also has self recover ability for the failure of partial discharge caused by air bubble and dust.
- The current ratio can be changed easily by change the connection method of connecting plate on series or parallel connection.
- Hermetically sealed stainless steel metallic bellows is installed on the top, which protects the transformer oil from moisture and extend the life time, also there is a oil level gauge on the bellows for observing the changing of oil volume.
- There is a multi function oil drain valve on the base, which makes it more convenient for sampling and draining.
- There is a individual terminal of earth screen in the terminal box.
- If you have special requirement for our product, please add note explanation

■ 技术参数 Technical data

额定一次电压	Rated primary voltage	220kV
设备最高电压	Highest voltage for equipment	252kV
额定频率	Rated frequency	50或60Hz
额定电流比	Rated transformation ratio	2 x 300~2 x 1000/5 或 or 1A
二次绕组个数	Number of secondary windings	1~8
测量绕组准确级	Accuracy of measuring winding	0.2, 0.2S, 0.5, 0.5S
保护绕组准确级	Accuracy of protection winding	5P 或 or 10P
额定二次输出	Rated secondary output	20-50VA
准确限值系数ALF	Accuracy limit factors	15, 20, 25, 30
仪表保安系数FS	Instrument security factor	≤5 或 or 10
局部放电水平	在1.2Um/√3kV下 Partial discharge under 1.2Um/√3kV	≤5pC
介质损耗因数tgδ	在10kV~Um/√3kV下 Dielectric dissipation factor tgδ under 10kV~Um/√3kV	≤0.005, 增量(variation) ≤0.001
额定工频耐受电压	Power frequency withstand voltage on primary windings	395 kV (方均根值) rms
额定雷电冲击耐受电压	Rated lightning impulse withstand voltage	950 kV (峰值) peak
一次绕组段间额定工频耐受电压	Power frequency withstand voltage between primary sections	3kV (方均根值) rms
地屏对地额定工频耐受电压	Power frequency withstand voltage on earth screen to earth	5kV (方均根值) rms
二次绕组对地及二次绕组之间额定工频耐受电压	Power frequency withstand voltage on secondary windings and Secondary windings to earth	3kV (方均根值) rms
二次绕组匝间耐受电压	Secondary winding inter-tum withstand voltage	4.5kV (峰值) peak
机械强度 (三个方向)	Mechanical strength (three direction)	2500N

额定一次电流 Rated primary current	额定短时热电流 Rated short-time thermal current	额定动稳定电流 Rated dynamic current
(A)	(kA)	(kA)
300-600	25-50	62.5-125
400-800	25-50	62.5-125
500-1000	25-50	62.5-125
600-1200	31.5-50(3s)	80-125
750-1500	31.5-50(3s)	80-125
800-1600	31.5-50(3s)	80-125

■ 外形图 Outline drawing



■ 型号含义 Type description



■ 产品用途

本产品是供220kV、50或60Hz电力系统作电压、电能测量和继电保护用的户外单相油浸电磁式电压互感器。

■ 遵循的主要标准

国际电工委员会标准：IEC60044-2《电磁式电压互感器》

国家标准：GB1207《电压互感器》

GB311.1《高压输变电设备的绝缘配合》

■ 使用环境条件

环境温度：-40~+40℃

海拔高度：不超过2000m

环境污秽等级：II、III、IV级污秽地区

■ 系统概况

系统额定电压：220kV

系统最高电压：252kV

系统额定频率：50Hz或60Hz

系统中性点接地方式：有效接地

■ 结构特点

本型产品为串级式绝缘结构。一次绕组分为四级，分别套装在单相双柱式铁心的两个芯柱上。其绝缘主要由高压电缆纸、电话纸、纸板等材料构成，经真空干燥后浸于变压器油中。绝缘性能稳定、可靠、运行经验丰富、使用寿命长、维护便利。

- 变压器油的流动性好，利于产品散热，对于因气泡、灰尘等引起的局部放电故障具有自熄能力。
- 本型产品具有二或三个二次绕组，其中测量绕组和计量绕组分开。
- 产品顶部装有不锈金属膨胀器，使产品处于全密封状态，防止变压器油及绝缘纸受潮，延长了产品使用寿命，并且在金属膨胀器上设置有油位视察窗，可以很方便地观察到油位的变化。
- 产品底部装有多功能放油阀，使得取油样、放油更为便利。
- 二次接线板采用环氧树脂浇注结构，密封性能更加可靠。
- 如果您对我们的产品有特殊要求，请注意添加备注。

■ Purpose

It is outdoor, single phase and oil immersed inductive voltage transformer, which is used for metering and relay protection of 220kV, 50 or 60Hz system.

■ Standards

IEC Standard: IEC60044-2《Inductive Voltage Transformer》

National Standard: GB1207《Voltage Transformer》

GB311.1《Insulation co-ordination for high voltage transmission and distribution equipment》

■ Service condition

Ambient temperature: -40~+40℃

Altitude: less than 2000m

Environment pollution level: II、III、IV

■ System condition

System Rated Voltage: 220kV

System Highest Voltage: 252kV

System Rated frequency: 50Hz or 60Hz

System neutral earthing method: effectively earthed

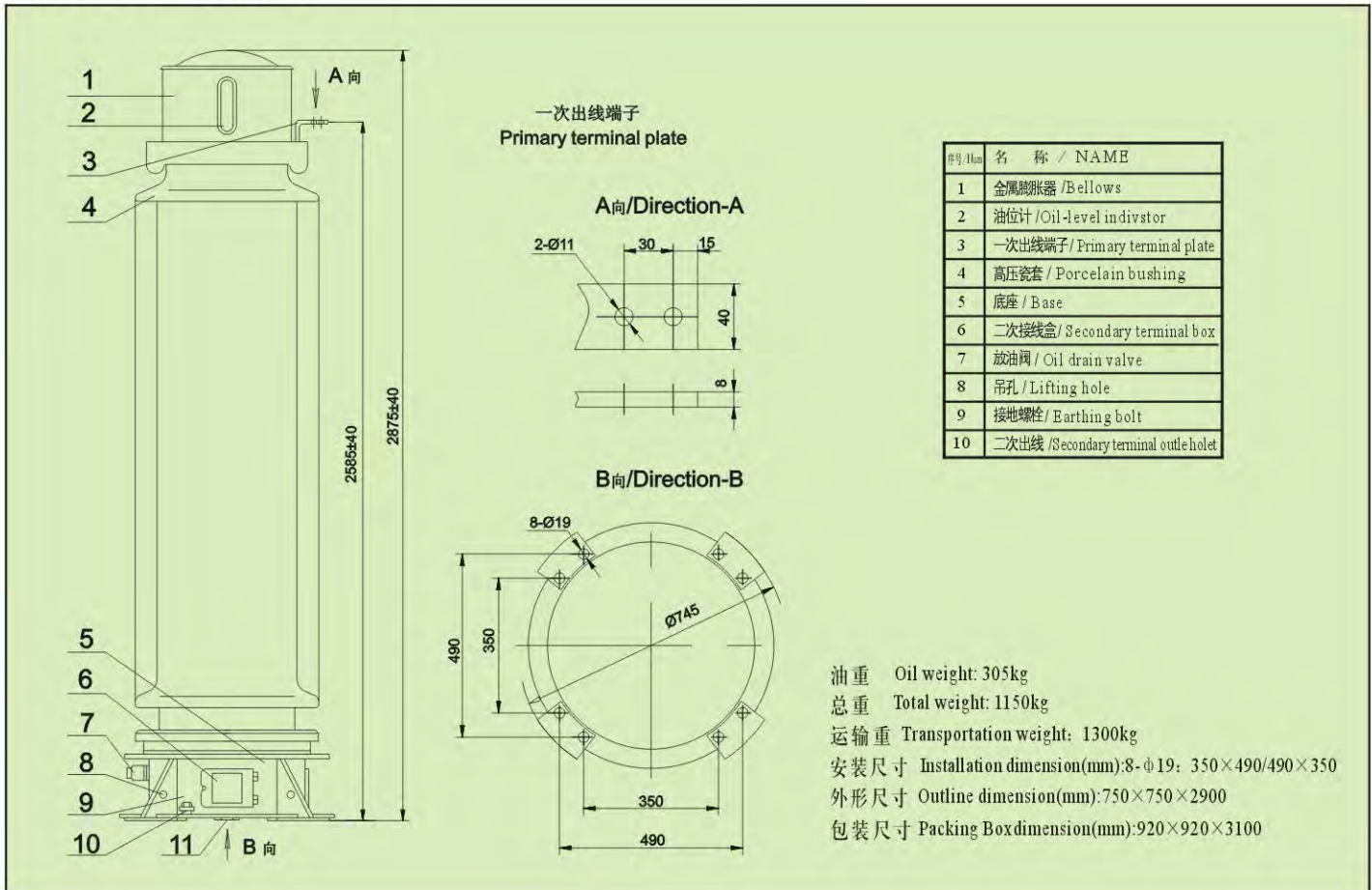
■ Structure feature

- It is cascade structure, which the primary winding has four polarities windings surrounded on each limbs of one single phase two-limb core. The insulation consists of high voltage cable paper, phone paper and cardboard etc, which will be immersed with transformer oil after desiccating under vacuum. It has advantages of stable and reliable performance of insulation, rich successful experience, a long life time and convenient maintenance
- Perfect fluidity performance of transformer oil is good for heat dissipation, it also has self recover ability for the failure of partial discharge caused by air bubble and dust.
- It has two or three secondary windings, which has individual measuring and metering winding.
- Hermetically sealed stainless steel metallic bellows is installed on the top, which protects the transformer oil from moisture and extend the life time, also there is a oil level gauge on the bellows for observing the changing of oil volume.
- There is a multi function oil drain valve on the base, which makes it more convenient for sampling and draining.
- The secondary terminal board is made of epoxy casting, the seal performance is more reliable.
- If you have special requirement for our product, please add note explanation

■ 技术参数 Technical data

额定一次电压 Rated primary voltage	220/√3kV				
设备最高电压 Highest voltage for equipment	252/√3kV				
额定频率 Rated frequency	50或60Hz				
额定电压比 Rated voltage ratio	$\frac{220}{\sqrt{3}} / \frac{0.1}{\sqrt{3}} / 0.1\text{kV}; \frac{220}{\sqrt{3}} / \frac{0.1}{\sqrt{3}} / \frac{0.1}{\sqrt{3}} / 0.1\text{kV}$				
准确级及额定输出 Accuracy and rated output	二次端子标志 Secondary terminal marking	1a-1n		2a-2n	da-dn
	准确级 Accuracy	0.2	0.5	0.5	3P
	额定输出 (VA) Rated output	100	150	150	300
热极限输出 Thermal limiting output	2000VA				
额定电压因数 Rated voltage factor	1.2倍连续; 1.5倍30s 1.2 tims continuous; 1.5tims 30s				
局部放电水平 在1.2Um/√3kV下 Partial discharge under 1.2Um/√3kv	≤5pc				
介质损耗因数tgδ 在10kV下 Dielectric dissipation factor tgδ under 10kV	整体tgδ ≤0.02 支架tgδ ≤0.05 Product tgδ ≤0.02 frame tgδ ≤0.05				
额定工频耐受电压 Power frequency withstand voltage on primary windings	395(460) kV(方均根值) rms				
额定雷电冲击耐受电压 Rated lightning impulse withstand voltage	950(1050) kV(峰值) peak				
一次绕组“N”端对地工频耐受电压 Power frequency withstand voltage on primary windings “N” terminal to earth	5 kV(方均峰值) rms				
二次绕组间及对地工频耐受电压 Power frequency withstand voltage between secondary windings and to earth	3 kV(方均根值) rms				
机械强度 (三个方向) Mechanical strength (three direction)	2500N				

■ 外形图 Outline drawing



■ 型号含义 Type description



■ 产品用途

本产品是供132(110、66)kV、50或60Hz电力系统作电流、电能测量和继电保护用的户外单相SF6气体绝缘电流互感器。

■ 遵循的主要标准

国际电工委员会标准：IEC60044-1《电流互感器》
国家标准：GB1208《电流互感器》
GB311.1《高压输变电设备的绝缘配合》

■ 使用环境条件

环境温度：-30~+40℃（特殊要求不低于-40℃）
海拔高度：LVQB-132(110、66)kV (GY、GYW2) 型不超过2000m

环境污秽等级：Ⅱ、Ⅲ、Ⅳ级污秽地区

■ 系统概况

系统额定电压：132kV、110kV、66kV
系统最高电压：145kV、126kV、72.5kV
系统额定频率：50Hz或60Hz
系统中性点接地方式：有效接地

■ 结构特点

- 本型产品为SF6气体绝缘倒立式结构，一次绕组为贯穿式导电杆结构，最大热稳定电流值达63kA/3s(一次绕组串联时)
- 一次绕组从中心穿过，无漏磁影响，测量精度达到0.1级和0.2S级。
- 上部壳体为铝合金焊接后加工而成，顶部装有金属防爆片，如果内部发生火花放电，在内部压力增长到0.85Mpa后，爆破片迅速释放压力，提高了产品的安全性，无爆炸的危险。
- 二次绕组用有机材料浇注于铝制屏蔽罩内，二次回路不会因绝缘击穿而受到电袭击，电极结构经优化设计，改善了产品内、外电场分布，绝缘性能优异。
- 外绝缘套管有两种形式供用户选择：
外护套为硅橡胶伞裙的玻璃纤维护套管
高强度瓷套。
- 密封圈采用进口氟橡胶材料，适用于高温变化及环境温度严酷地区，年泄漏率小于0.5%。
- 底座防腐为双层防护，接地螺栓，铭牌为不锈钢材质
- 底座上装有密度表，可显示互感器内部的气体压力（显示值自动转化为20℃时的内部气体压力）及密度，当互感器内部压力降到报警压力时提供信号，要求补气。
- 如果您对我们的产品有特殊要求，请注意添加备注。

■ Purpose

It is outdoor, single phase and SF6 insulated top-head type current transformer, which is used for metering and relay protection of 132(110、66)kV 50 or 60Hz system.

■ Standards

IEC Standard: IEC60044-1《Current Transformer》
National Standard: GB1208《Current Transformer》
GB311.1《Insulation to-ordination for high voltage transmission and distribution equipment》

■ Service condition

Ambient temperature: -30~+40℃ (Special requirement above +40℃)
Altitude: LVQB-132(110、66)(GY、GYW2) less than 2000m

Environment pollution level: Ⅱ、Ⅲ、Ⅳ

■ System condition

System Rated Voltage: 132kV、110kV、66kV
System Highest voltage: 145kV、126kV、72.5kV
System Rated frequency: 50Hz or 60Hz
System neutral earthing method: be earthed effectively

■ Structure feature

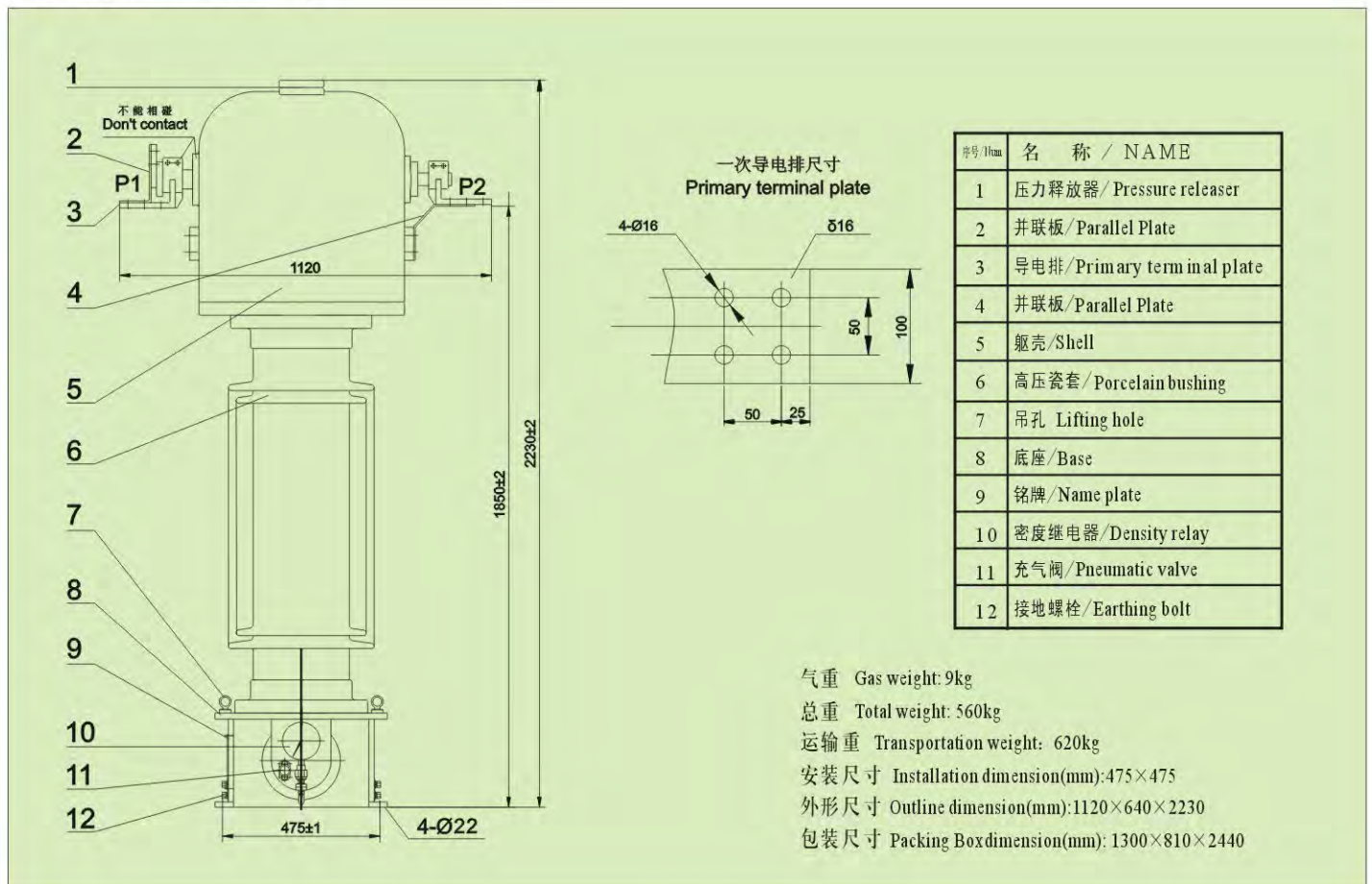
- This product is of SF6 gas insulation inverted structure. Primary winding is of penetrating type conducting rod structure; maximum short time withstand current reaches 63kA/3s(in case of series connection of primary winding)
- Primary winding runs through the center, free of the influence of leakage flux, with measuring accuracy reaching class 0.1 and Class 0.2S
- The upper enclosure is processed from welded aluminum alloy, with metal bursting disc installed at the top. If spark discharge happens inside, the bursting disc will rapidly release pressure after internal pressure rises to 0.85Mpa, hence improve the product safety and prevent the danger of explosion.
- Secondary winding is cast in aluminum shielding case by use of organic materials, hence the secondary circuit will not suffer electric shock caused by insulation breakdown. The electrode structure of optimal design improves the distribution of internal and external electric fields, achieving excellent insulating properly.
- There are two types of external insulating bushings available for user choice: Fiber glass bushing with silicon rubber umbrella skirt: High-strength porcelain bushing.
- Seal ring, made from imported fluorine rubber, is applicable to the regions with change in high/low temperature or rigorous ambient temperature, its annual leakage rate is less than 0.5%.
- Pedestal is of double-layer anticorrosion protection; stainless steel fasteners, nameplate and all other parts are guaranteed be rust-free all the time. The pedestal is equipped with density meter which can display internal gas pressure (displayed value automatically converts to internal gas pressure at 20℃) and density and send out signal when internal pressure of transformer reduces to alarm pressure requesting gas supply.
- If you have special requirement for our product, please add note explanation

■ 技术参数 Technical data

额定一次电压 Rated Primary voltage	132(110、66)kV
设备最高电压 High voltage for equipment	145(126、72.5)kV
额定频率 Rated frequency	50或60Hz
额定电流比 Rated current ratio	2 x 200~2x3000/5或 or 1A
二次绕组个数 Number of secondary windings	1~6
测量绕组准确级 Accuracy of measuring winding	0.2, 0.2S, 0.5, 0.5S
保护绕组准确级 Accuracy of protection winding	5P 或 or 10P
额定二次输出 Rated secondary output	20-50VA
准确限值系数ALF Accuracy limit factors	15, 20, 25, 30
仪表保安系数FS Instrument security factor	<5 或 or 10
局部放电水平 在1.2Um/√3kV下 Partial discharge under 1.2Um/√3kV	≤5pC
SF6额定气体压力 (20℃) Rated gas pressure	0.4MPa
补气压力 (20℃) Gas-supply pressure	0.35MPa
额定工频耐受电压 Power frequency withstand voltage on primary windings	230(275)kV 200(230)kV 140kV (方均根值) rms
额定雷电冲击耐受电压 Rated lightning impulse withstand voltage	550(650)kV 450(550)kV 325kV (峰值) peak
一次绕组段间额定工频耐受电压 Power frequency withstand voltage between primary sections	3kV (方均根值) rms
地屏对地额定工频耐受电压 Power frequency withstand voltage on earth screen to earth	5kV (方均根值) rms
二次绕组对地及二次绕组间额定工频耐受电压 Power frequency withstand voltage on secondary windings and Secondary windings to earth	3kV (方均根值) rms
二次绕组区间接电压 Secondary winding inter-turn withstand voltage	4.5kV (峰值) peak
机械强度 (三个方向) Mechanical strength (three direction)	2500N

额定一次电流 Rated primary current	额定短时热电流 Rated short-time thermal current	额定动稳定电流 Rated dynamic current
(A)	(KA)	(KA)
200-400	50(3s)	125
300-600	50(3s)	125
400-800	50(3s)	125
600-1200	50(3s)	125
750-1500	63(3s)	160
800-1600	63(3s)	160
1000-2000	63(3s)	160
2000-4000	63(3s)	160
3000-6000	63(3s)	160

■ 外形图 Outline drawing



■ 型号含义 Type description



■ 产品用途

本产品是供132(110,66)kV、50或60Hz电力系统作电压、电能测量和继电保护用的户外单相SF6气体绝缘电磁式电压互感器。

■ 遵循的主要标准

国际电工委员会标准：IEC60044-2《电磁式电压互感器》

国家标准：GB1207《电压互感器》

GB311.1《高压输变电设备的绝缘配合》

■ 使用环境条件

环境温度：-30~+40℃（特殊要求不低于-40℃）

海拔高度：不超过2000m

环境污秽等级：Ⅱ、Ⅲ、Ⅳ级污秽地区

■ 系统概况

系统额定电压：132kV、110kV、66kV

系统最高电压：145kV、145kV、72.5kV

系统额定频率：50Hz或60Hz

系统中性点接地方式：有效接地

■ 结构特点

- 产品采用箱式结构，内装有器身，中部是硅橡胶复合绝缘套管或高强度瓷套管，产品顶部设有一次接线端子。
- 产品箱体上装有SF6密度控制器，SF6气体密度控制器具有温度补偿功能并具有1组可提供报警信号用的接口。
- 产品箱体侧装有压力释放装置，其爆破（释放压力）为1.0MPa，无油，无爆炸危险，无维护。
- 器身置于箱体内部，菱格聚酯薄膜和SF6气体组成的复合绝缘作为层间绝缘，绝缘强度高，SF6气体的绝缘性能稳定可靠，无老化之忧，具有绝缘自恢复功能。
- 产品箱体进行喷塑处理，不锈钢紧固件，铭牌等部件，长期户外运行无锈蚀。
- 一次接线板采用合金铝，能承受大于3000N的静态试验载荷。
- 密封胶圈采用氟橡胶材料，适用于高低温变化及环境温度严酷的地区，年泄露率小于0.5%。
- 本产品采用饱和磁密较高的导磁材料，先进的工艺及精良的绝缘设计使产品在一定电压下呈容性。
- 如果您对我们的产品有特殊要求，请注意添加备注。

■ Purpose

It is outdoor, single phase and Gas insulation inductive voltage transformer, which is used for metering and relay protection of 132(110,66)kV, 50 or 60Hz system.

■ Standards

IEC Standard: IEC60044-2《Inductive voltage Transformer》

National standard: GB1207《Voltage Transformer》

GB311.1《Insulation co-ordination for high voltage transmission and distribution equipment》

■ Service condition

Ambient temperature: -30~+40℃(Special requirement above -40℃)

Altitude: less than 2000m

Environment pollution level: Ⅱ、Ⅲ、Ⅳ

■ System condition

System Rated Voltage: 132kV、110kV、66kV

System Highest Voltage: 145kV、145kV、72.5kV

System Rated frequency: 50Hz or 60Hz

System neutral earthing method: effectively earthed

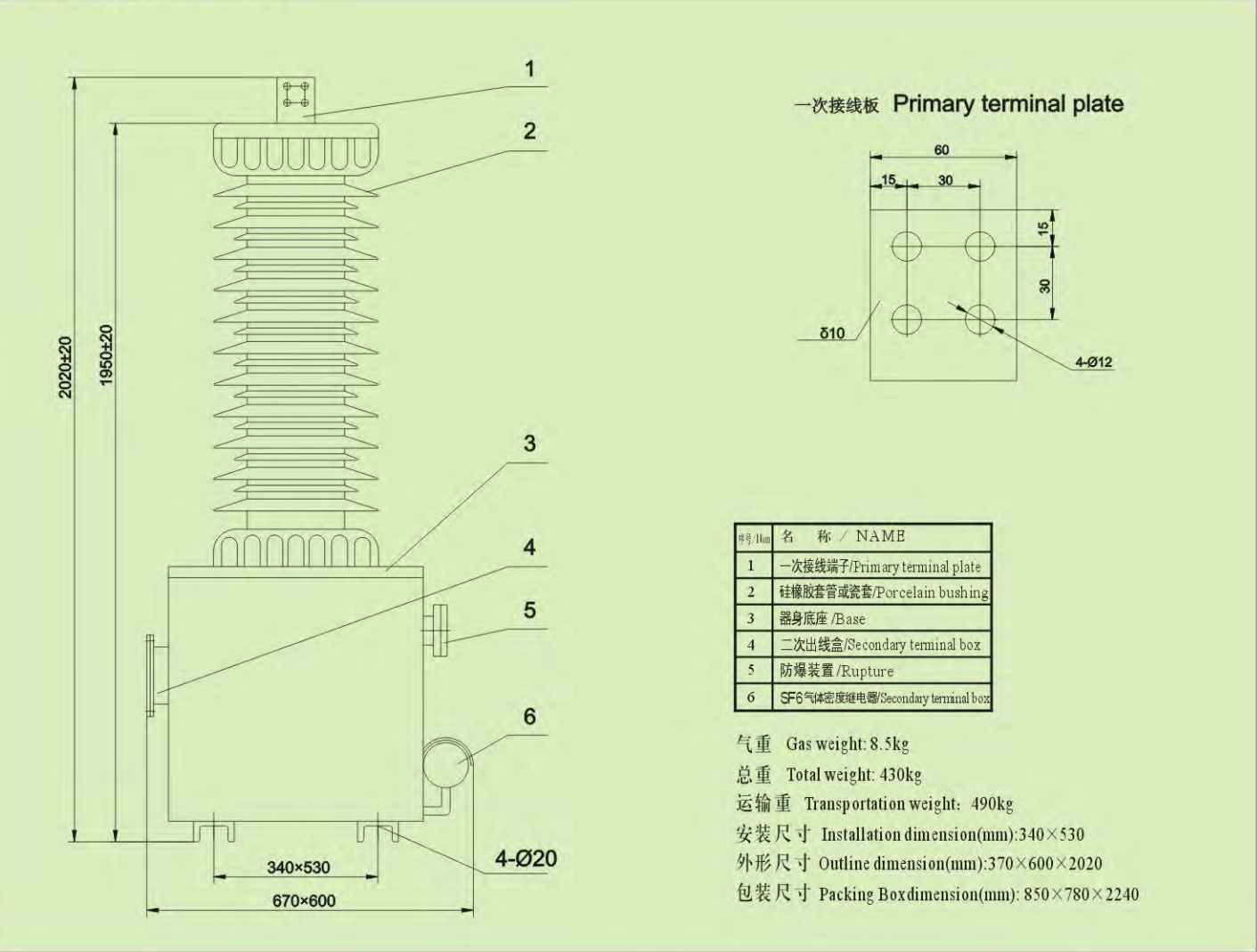
■ Structure feature

- The product adopts case-type structure. Its central part adopts Silicone Rubber Composite Insulating Bushing or High Strength Porcelain Bushing and top part is settled with primary Terminals
- Case body is equipped with SF6 Density Controller which has a function of temperature compensation and a group of junctions for providing alarm signal.
- Case body lateral parts are installed pressure relief devices with a pressure relief of 1.0Mpa and advantages of no oil, no risk of explosion and no maintenance
- The equipment body is placed in the case. The layer insulation is high strength composite insulation of - polyester Film and gas SF6-Gas SF6 has a reliable insulation performance, no worry of aging and function of insulation restoration.
- Case body has been Plastic spray treated. All Parts, such as stainless bolts, name plate are rust-free all the time.
- The primary connection adopted Aluminum Alloy can support >3000N static testing load
- Seal Rings adopted material of 1 Fluorinated Rubber is suitable for areas of great temperature changes and harsh environment temperature, with annual leakage rate <0.5%.
- It makes the product capacitive under a certain voltage to adopt higher saturation flux density Magnetic Material, advanced technology and excellent insulation design.
- If you have special requirement for our product, please add note explanation

■ 技术参数 Technical data

额定一次电压 Rated Primary voltage	132(110.66)/√3kV				
设备最高电压 Highest voltage for equipment	145(126.72.5)/√3kV				
额定频率 Rated frequency	50或 or 60Hz				
额定电流比 Rated transformation ratio	$\frac{132(110.66)}{\sqrt{3}} / \frac{0.1}{\sqrt{3}} / 0.1kV; \frac{132(110.66)}{\sqrt{3}} / \frac{0.1}{\sqrt{3}} / \frac{0.1}{\sqrt{3}} / 0.1kV$				
准确级及额定输出 Accuracy and output	二次端子标志Secondary terminal marking	1a-1n		2a-2n	da-an
	准确级 Accuracy	0.2	0.5	0.5 或 or 3P	3p
	额定输出 VARated output	100	100		300
		150			
			200		
热极限输出 Thermal limiting output	2000VA				
额定电压因数 Rated voltage factor	1.2 倍连续 1.5倍 30s 1.2 times continuous: 1.5 times 30s				
局部放电水平 在1.2Um/√3kV下 Partial discharge under 1.2Um/√3kV	≤5pC				
SF6额定气体压力(20℃) Rated gas pressure	0.5MPa				
SF6补气压力(20℃) Gas-supply pressure	0.4Mpa				
SF6年泄露率 Annual leakage ratio	<0.5%				
外绝缘爬电距离 External insulation creepage distance(mm)	3150mm: 3906mm				
额定工频耐受电压 Power frequency withstand voltage on primary windings	230(275)kV 200(230)kV 140kV (方均根值) rms				
额定雷电冲击全波耐受电压 lightning impulse withstand voltage on primary windings	550(650)kV 450(550)kV 325kV (峰值) peak				
SF6重/总重 Gas weight/Product weight	8.5/430kg				

■ 外形图 Outline drawing



■ 型号含义 Type description

L	G	B	J	132(110、66)	(W1、W2、W3)	(GY、GYW2)	
							用于高原地区
							防污秽等级
							额定电压 kV
							绝缘加强
							带保护级
							干式
							电流互感器
							Applying to highland area
							Pollution level
							Rated voltage (kV)
							Reinforced insulated
							With protective class
							Dry-type
							Current transformer



■ 产品用途

本产品是供132(110、66)kV、50或60Hz电力系统作电流、电能测量和继电保护用的户外单相有机复合绝缘干式电流互感器。

■ 遵循的主要标准

国际电工委员会标准：IEC60044-1《电流互感器》

国家标准：GB1208《电流互感器》

GB311.1《高压输变电设备的绝缘配合》

■ 使用环境条件

环境温度：-40~+40℃

海拔高度：不超过2000m（超过2000m时，技术条件由供需方另议）

环境污秽等级：Ⅱ、Ⅲ、Ⅳ级污秽地区

■ 系统概况

系统额定电压：132kV、110kV、66kV

系统最高电压：145kV、126kV、72.5kV

系统额定频率：50Hz或60Hz

系统中性点接地方式：有效接地

■ 结构特点

- 本型产品为有机复合绝缘。硅橡胶伞裙外绝缘。
- 电场分布均匀。局部放电电量小且稳定。介质损耗小。
- 通过改变产品上部屏蔽罩内接线方式。可以方便地实现串并联切换，从而改变电流比。
- 不锈钢紧固件、铭牌等所有部件永不生锈。
- 产品无油、无瓷、无气。
- 产品不需要维护。每2~3年测量一次主体的电容量和介质损耗因数即可。
- 如果您对我们的产品有特殊要求，请注意添加备注。

■ Purpose

It is outdoor, single phase and organic Insulation dry-type current transformer, which is used for metering and relay protection of 132(110、66)kV 50 or 60Hz system.

■ Standards

IEC Standard: IEC 60044-1 《Current Transformer》

National Standard: GB1208 《Current Transformer》

GB311.1 《Insulation co-ordination for high voltage transmission and distribution equipment》

■ Service condition

Ambient temperature: -40~+40℃

Altitude: no less than 2000m(more than 2000m,technical conditions should be separately negotiated by both sides)

Environment pollution level: Ⅱ、Ⅲ、Ⅳ

■ System condition

System Rated Voltage: 132kV、110kV、66kV

System Highest Voltage: 145kV、126kV、72.5kV

System Rated frequency: 50Hz or 60Hz

System neutral earthing method: be earthed effectively

■ Structure feature

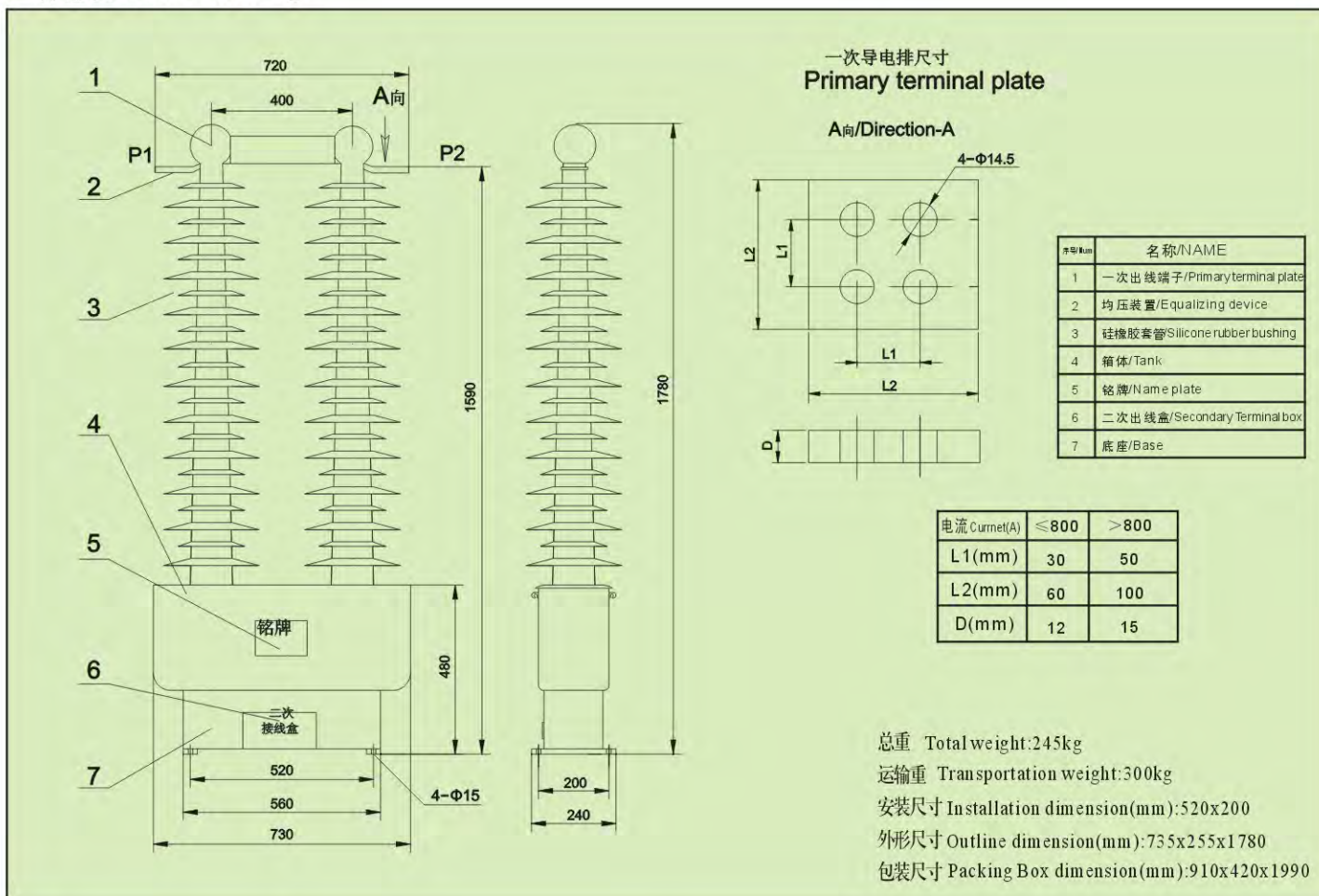
- It is organic insulation type product. The external insulation is silicone rubber petticoat.
- Electric field evenly distributed, partial discharge small amount and stable, small dielectric loss.
- The current ratio can be changed easily by changing the connection method in shielding enclosure to facilitate the realization to series or parallel connection.
- All parts, such as stainless bolts, name plate are rust-free all the time.
- The product has no oil, no ceramic, no gas.
- Barely need for maintenance. Measurements of the capacitance and dielectric loss factor at primary side are needed every 2~3 years.
- If you have special requirement for our product, please add note explanation

■ 技术参数 Technical data

额定一次电压 Rated Primary voltage	132(110、66)kV
设备最高电压 Highest voltage for equipment	145(126、72.5)kV
额定频率 Rated frequency	50或60Hz
额定电流比 Rated current ratio	2x50-2x1000/s 或 or 1A
二次绕组个数 Number of secondary windings	1~6
测量绕组准确级 Accuracy of measuring winding	0.2, 0.2S, 0.5, 0.5S
保护绕组准确级 Accuracy of protection winding	5P 或 or 10P
额定二次输出 Rated secondary output	20-50VA
准确限值系数ALF Accuracy limit factors	15, 20, 25, 30
仪表保安系数FS Instrument security factor	<5 或 or 10
局部放电水平 在1.2Um/√3kV下 Partial discharge under 1.2Um/√3kV	≤5pC
介质损耗因数tgδ 在10kV~Um/√3kV下 Dielectric dissipation factor tgδ under 10kV~Um/√3kV	<0.002
额定工频耐受电压 Power frequency withstand voltage on primary windings	230(275)kV 200(230)kV 140kV (方均根值) rms
额定雷电冲击耐受电压 Rated lightning impulse withstand voltage	550(650)kV 450(550)kV 325kV (峰值) peak
一次绕组段间额定工频耐受电压 Power frequency withstand voltage between primary sections	3kV (方均根值) rms
地屏对地额定工频耐受电压 Power frequency withstand voltage on earth screen to earth	5kV (方均根值) rms
二次绕组对地及二次绕组间额定工频耐受电压 Power frequency withstand voltage on secondary windings and Secondary windings to earth	3kV (方均根值) rms
二次绕组匝间耐受电压 Secondary winding inter-turn withstand voltage	4.5kV (峰值) peak
机械强度 (三个方向) Mechanical strength (three direction)	2500N

额定一次电流 Rated primary current	额定短时热电流 Rated short-time thermal current	额定动稳定电流 Rated dynamic current
(A)	(KA)	(KA)
50-100	5.3-10.5	13.5-27
75-150	7.9-15.8	20-40
100-200	10.5-21	27-54
150-300	15.8-31.5	40-80
200-400	20-40	50-100
300-600	31.5-45	80-115
400-800	31.5-45	80-115
600-1200	50(3s)	125
750-1500	50(3s)	125
800-1600	50(3s)	125
1000-2000	50(3s)	125
1250-2500	50(3s)	125

■ 外形图 Outline drawing



■ 型号含义 Type description



■ 产品用途

本产品是供110kV、50或60Hz电力系统作电压、电能测量和继电保护的户外单相电容式电压互感器。

■ 遵循的主要标准

国际电工委员会标准: IEC186 IEC358

国家标准: GB/T4703

GB/T4705

■ 使用环境条件

环境温度: -40~+40℃

海拔高度: TYD 132(110、66)- $\sqrt{3}$ -0.02(0.01)H不超过2000m

■ 系统概况

系统额定电压: 132kV、110kV、66kV

系统最高电压: 140kV、126kV、72.5kV

系统额定频率: 50Hz或60Hz

系统中性点接地方式: 有效接地

■ 结构特点

- 电容式电压互感器(以下简称CVT)包括一电容分压器-电磁单元。

● 电容分压器

电容分压器由高压电容和中压电容组成,置于瓷套内并充满绝缘油。

● 电磁单元

电磁单元由中间变压器、补偿电抗器、电抗器和避雷器组成位于油箱内,二次绕组端子、CVD低压端接地端及保护间隙等位于端子箱内。

● 油密封

电容分压器电容元件密封于瓷套内,经加热、抽真空干燥后注以脱气、脱水的绝缘油并保持真空。由温度变化而引起的油量变化可通过位于瓷套上部的外置金属膨胀器进行调节,使瓷套内部油压始终保持在0.0005~0.05kg/cm²的正压。

- 如果您对我们的产品有特殊要求,请注意添加备注。

■ Purpose

It is outdoor, single phase and capacitor type voltage transformer, which is used for metering and relay protection of 110kV, 50 or 60Hz system.

■ Standards

IEC Standard: IEC186 IEC358

National Standard: GB/T4703

GB/T4705

■ Service condition

Ambient temperature: -40~+40℃

Altitude: TYD 132(110、66)- $\sqrt{3}$ -0.02(0.01)H less than 2000m

■ System condition

System Rated Voltage: 132kV、110kV、66kV

System Highest Voltage: 145kV、126kV、72.5kV

System Rated frequency: 50Hz or 60Hz

System neutral earthing method: effectively earthed

■ Product structure

- Capacitor voltage Transformer(abbreviate:CVT))is composed of a Shunt of a composed capacitor device and a electromagnetic unit.

● Capacitor shunt device

CTV is composed of high voltage capacitor and medium voltage capacitor, which is sited inner ceramic conduit and the conduit is filled with insulation oil

● Electromagnetic Unit

The electromagnetic unit is composed of midway transformer reactor compensator damper and lightning arrester inside the oil tank the terminals of second oil CVD low voltage terminals grounding terminals and protective clearances are inside the terminal box.

● Oil sealing

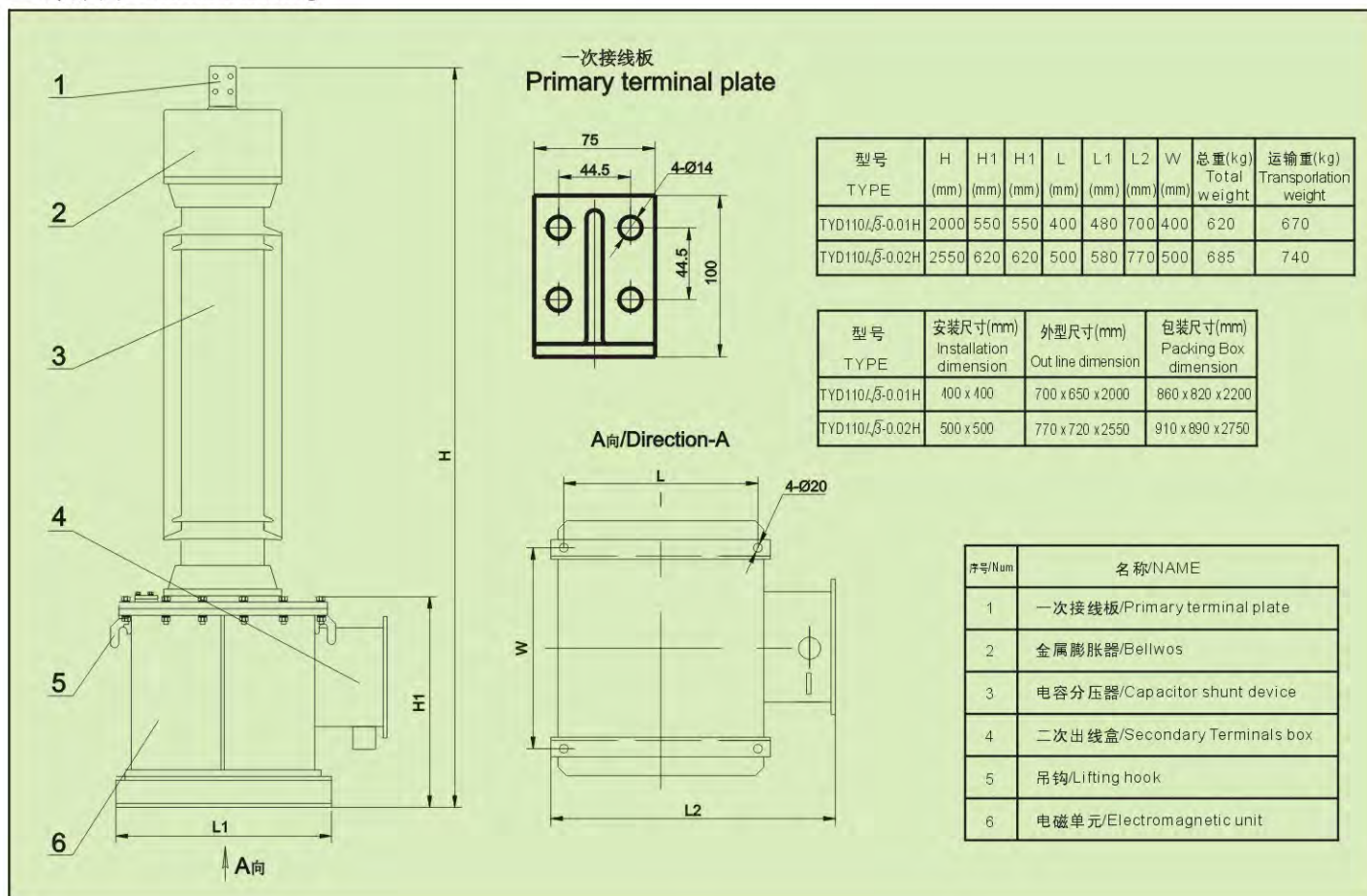
The capacitor elements of CVD are sealed inner ceramic conduit which is processed with procedures of heating, vacuum dried and filling with de-hydraulic and air-free insulation oil and keep the vacuum then The oil volume variation out of temperature changing shall be adjusted through the expansion box outside the upper side of the ceramic conduit, so as to keep the positive oil pressure inside stable at 0.0005~0.05/cm²

- If you have special requirement for our product, please add note explanation

■ 技术参数 Technical data

额定一次电压 Rated primary voltage	132(110.66)/ $\sqrt{3}$ kV			
设备最高电压 Highest voltage for equipment	145(126.725)/ $\sqrt{3}$ kV			
额定频率 Rated frequency	50或60Hz			
额定电压比 Rated voltage ratio	$\frac{132(110.66)}{\sqrt{3}} / \frac{0.1}{\sqrt{3}} / 0.1\text{kV}; \frac{132(110.66)}{\sqrt{3}} / \frac{0.1}{\sqrt{3}} / \frac{0.1}{\sqrt{3}} / 0.1\text{kV}$			
准确级及额定输出 Accuracy and rated output	二次端子标志 Secondary terminal marking	1a-1n	2a-2n	da-dn
	准确级 Accuracy	0.2	0.5	3P或0.5
	额定输出(VA) Rated output	150	250	300
热极限输出 Thermal limiting output	2000VA			
额定电压因数 Rated voltage factor	1.2倍连续: 1.5倍30s 1.2,times continuous;1.5 times 30s			
局部放电水平 在1.2Um/ $\sqrt{3}$ kV下 Partial discharge under 1.2Um/ $\sqrt{3}$ kV	$\leq 10\text{PC}$			
介电损耗因数tg δ 在10kV下 Dielectric dissipation factor tg δ under 10kV	Tg $\delta \leq 0.0015$			
额定工频耐受电压 Power frequency withstand voltage on primary windings	230(275)/kV 200(230)/kV 140kV (方均根值) rms			
额定雷电冲击耐受电压 Rated lightning impulse withstand voltage	550(650)/kV 450(550)/kV 325kV (峰值) peak			
一次绕组“N”端对地工频耐受电压 Power frequency withstand voltage on primary windings “N” terminal to earth	5kV (方均根值) rms			
二次绕组间及对地工频耐受电压 Power frequency withstand voltage between secondary windings and to earth	3kV (方均根值) rms			
机械强度 (三个方向) Mechanical strength (three direction)	2000N			

■ 外形图 Outline drawing





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