

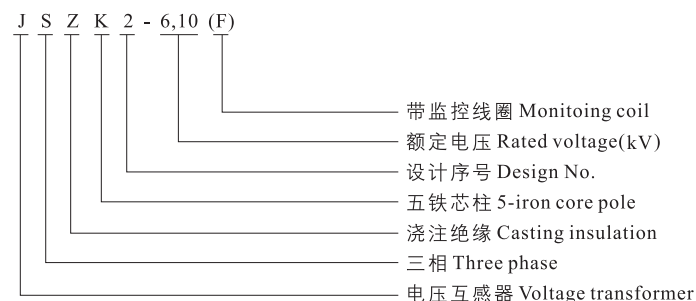
JSZK2-6, 10(F) 抗铁磁谐振三相电压互感器**JSZK2-6, 10(F) Anti-ferroresonance three-phase voltage transformer****概述 Summary**

JSZK2-6, 10(F)型电压互感器供额定频率50Hz, 额定电压为6-10kV及以下线路中, 特别是无人值守的小型变电站中作电能计量及继电保护之用, 该产品是油浸互感器JSJW-6, 10的替代产品, 与老产品相比具有如下特点:

1. 输出容量大, 适用小型化变电站, 回路多, 负荷大;
2. 改户外油浸式为户外干式, 解决了渗漏油的问题, 减少了维护工作;
3. 在中性点采取了消谐措施, 使产品不需另加消谐器或阻尼接地等保护方式, 即可以安全的在电网上运行, 并可长期运行在单相接地的故障线路中。
4. 多一组二次监控绕组, 成为计量器(0.2级)、监控(0.5级)、保护(6P开口三角)分开的多用途电压互感器。

JSZK2-6, 10(F) type voltage transformer is used for measurement of electric energy as well as relay protection in the circuit of rated frequency 50Hz and rated voltage 6-10KV or below, especially in the small-scaled transformer station with no one on watch. This product is a substitute for oil-immersed transformers JSJW-6 and -10. Compared with old products, this kind of product has the following characteristics:

1. Large output capacity, applicable for small-scaled transformer station, multiple loops and large load;
2. It adopts outdoor dry instead of outdoor oil-immersed type, which solved the problem of oil leakage and reduced the maintenance work.
3. It adopts against-resonance measure at neutral point to enable the product to operate safely on electrified wire netting without against-resonance or damping earthing or other protection modes and also to operate in single-phase earthing faulty line for long time.
4. Add a set of secondary monitor winding, the product will become a multi-function voltage transformer with separate measure(Class 0.2), monitor (Class 0.5) and protection(6P open triangle).

型号含义 Type designation

额定输出及相应准确级

型号 Type	额定电压比(V) Rated voltage ratio(V)	额定输出(VA) Rated burden(VA)			热极限输出(VA) ultimate output(VA)
		0.2	0.5	6P	
JSZV18-10R	10/0.1/0.22	20	50	80	500

正常工作条件 Normal operating conditions

- 1、安装场所为户外，运行时二次不得短路；
 - 2、环境温度：-25℃~+40℃，日平均气温不超过35；
 - 3、海拔高度不超过1000m，风压不超过700Pa；
 - 4、日照辐射小于1000瓦每平方米（晴天中午）；
 - 5、无严重影响互感器绝缘的气体，尘埃及其它爆炸性或浸蚀性介质。
 - 6、安装场所无剧烈震动和颠簸。
- 1、Outdoor Installation , during working . secondary circuit cannot open;
 - 2、Environmental temperature: -25℃~+40℃, The daily average temperature is not more than 35 degrees;
 - 3、meters above sea level: Not more than 1000 . Wind pressure is not more than 700Pa;
 - 4、Sunshine radiation is not more than 1000 watts per square meter(sunny noon);
 - 5、No serious effects of transformer gas, dust, and other explosive, etching medium;
 - 6、Installation attempt without violent vibration and burmps.

外形及安装尺寸图 Outline and installation dimension

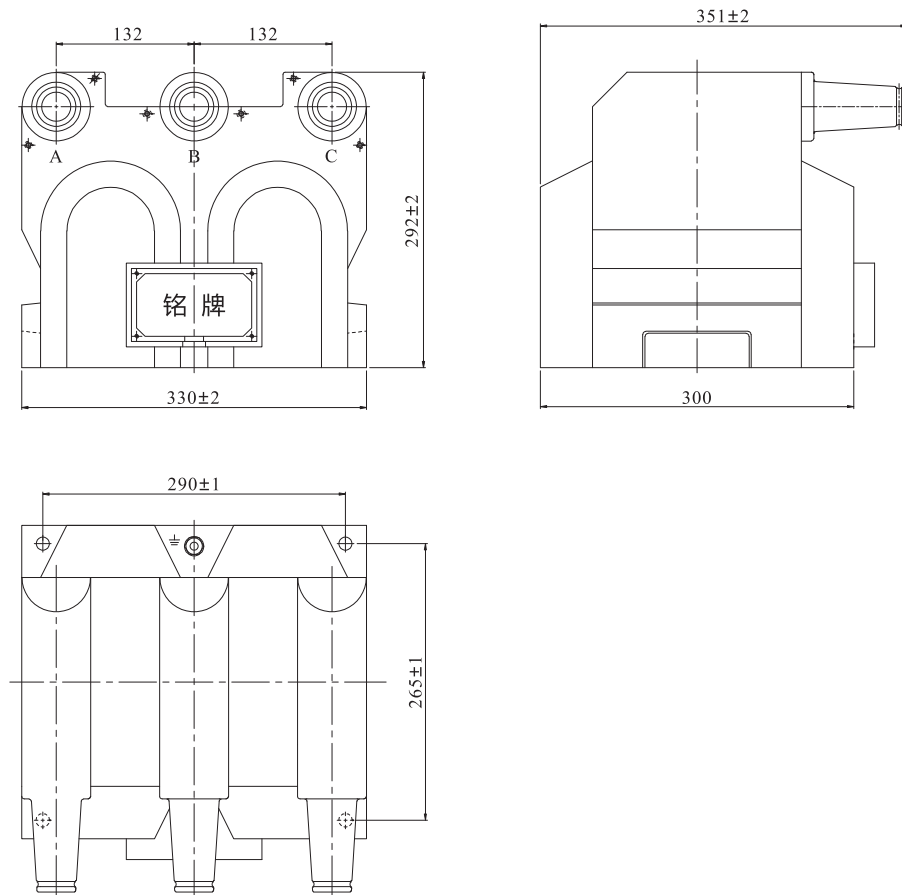


图1：JSZV1-10R外形安装尺寸图



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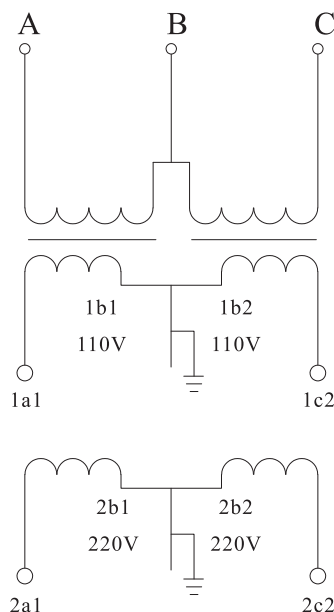
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接线图 Wiring diagram



售后服务 Service

凡本公司生产的互感器，若因生产质量问题可凭购买时的发票及合格证等有效证明在有效期内到本公司（或经销商）处进行更换或是保修。

Our company produced transformers, if the quality of production has problems, You can take the purchase contract, certificates or other valid proof to our company (or Distribution Department) for Replace or repairing in the validity period.

订货须知 Ordering Information

订货时请提供下列技术参数

- 1、额定工作电压kV；
- 2、额定电压；
- 3、准确级及期准确级组合；
- 4、额定输出及相应准确级（VA）。

Need technical data following if arrange an order

- 1.Rated voltage kV;
- 2.Rated voltage ratio;
- 3.Accracy class;
- 4.Rated burden.

装箱单 Package

- 1、本机一台；
- 2、使用说明书一份；
- 3、合格证一份。

- 1.Product i:1pc;
- 2.instruction manual :1pc;
- 3.Certificate of qualification: 1pc.

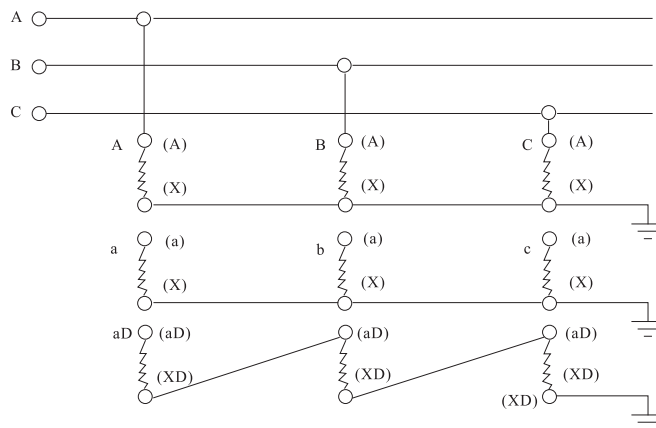


JS(W)-3, 6, 10 电压互感器(户内型)

JS(W)-3, 6, 10 Voltage transformer(indoor type)



接线图 Wiring diagram



连接组别为: YN,Yn,D11 其接线图见图1
Connection group: YN, Yn, D11 wiring diagram(see Figure1).

技术参数 Technical parameter

型号 Type		JSZW-3	JSZW-6	JSZW-10
额定电压(V) 一次 基本二次 辅助二次	Rated voltage(V) Primary Basic secondary Auxiliary secondary	3000/ $\sqrt{3}$ 100/ $\sqrt{3}$ 100/3	6000/ $\sqrt{3}$ 100/ $\sqrt{3}$ 100/3	10000/ $\sqrt{3}$ 100/ $\sqrt{3}$ 100/3
额定输出(VA) 0.5级 1级 3级	Rated output(VA) Class 0.5 Class 1 Class 3	90 150 300	120 240 480	150 240 480
最大输出(VA)	Max. Output(VA)	600	960	960
耐压试验(kA) 一次 二次	Voltage-withstand test(kA) Primary Secondary	23 3	32 3	42 3
频率(Hz)	Frequency(Hz)	50	50	50



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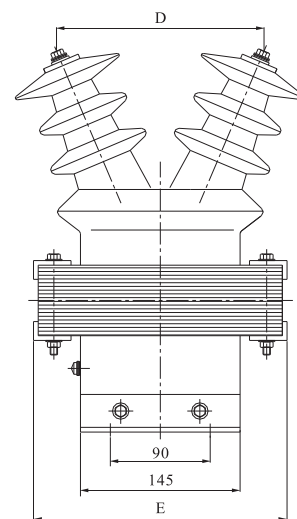
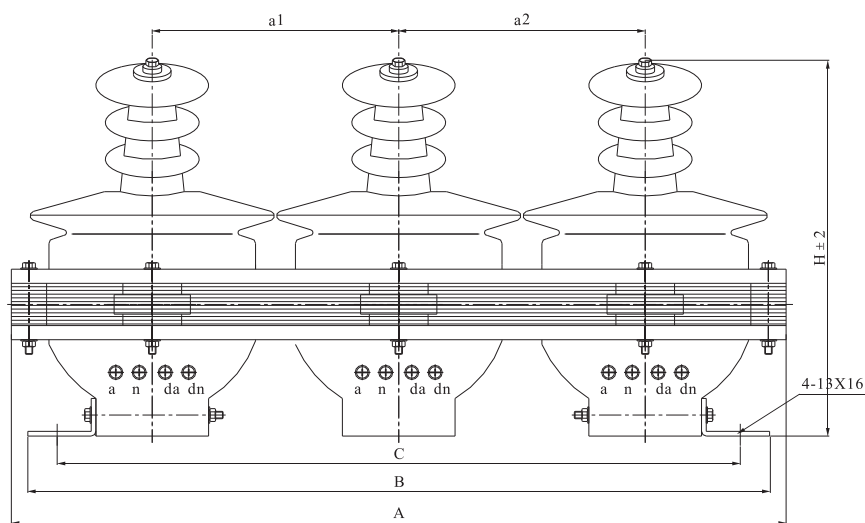
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外形及安装尺寸图 Outline and installation dimension



型号 Type	外形及安装尺寸 Outline and installation size							
	A	B	C	D	E	H	a1	a2
JSZW-3.6(Q)	600	580	560	156	195	295	195	195
JSZW-10(Q)	660	640	620	185	210	325	205	205



JSZW3-3, 6, 10A, B 型半封闭三相电压互感器**JSZW3-3, 6, 10A, B Type semi-enclosed three phase voltage transformer****概述 Summary**

JSZW3-3、6、10电压互感器为户内环氧树脂浇注半封闭结构，适用于交流50Hz额定电压为3、6、10kV中性点非有效接地电力系统中作电压、电能测量及继电保护用，根据安装方式不同，该产品又分为A型和B型两种。

JSZW3-3, 6, 10 type voltage transformer is semi-closure casting with epoxy resin, which mainly used for measuring voltage or electric energy and protecting relay in power system with frequency 50Hz and rated voltage 3KV, or 6KV or 10KV and the neural point is not effectively grounded. These products have two different types according to installation method: type A and type B.

型号含义 Type designation**结构 Structure**

本型电压互感器为半浇注式，体积小，气候适应性强，互感器铁芯采用带有旁铁轭的芯式结构，采用优质冷轧硅钢片叠装成长方形，露在空气中，其一次、二次及剩余电压绕组同心地绕在一起，用环氧树脂浇注成型，三相浇注体固定在一起，一次绕组，A端为全绝缘，另N端为非全绝缘。其接线图见图1：根据安装方式本产品分为A型和B型。A型产品为侧面安装，安装孔在铁芯夹件上，B型产品有安装底座，靠底座来紧固产品。

This model voltage transformer semi-casting type, with small size and good climate adaptability. The iron-core of the transformer applies core type side-iron structure, and made of high quality silicon steel plate by cold rolling and exposing in the air, the primary winding, secondary winding and residual voltage winding wound onto the iron-core concentrically and cast with epoxy resin, the three phases cast and fixed together, the primary winding and terminal A are fully insulated and terminal N is not fully insulated. The wiring please refers to Diagram 1. It has two types: type A and type B according to installation, type A is installed on the side and the installation hole is on the iron-core clamp, type B has a base for installation.

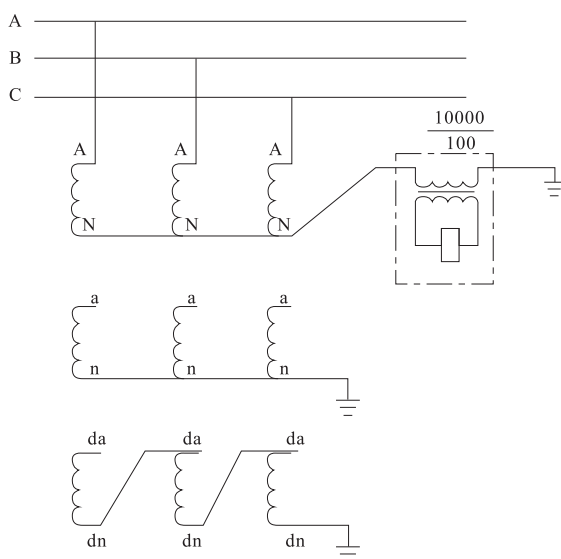


技术参数 Technical parameter

1. 产品标准：GB20840.3-2013《电压互感器》；
2. 技术参数表；
3. 产品表面爬电比距满足Ⅱ级污秽等级；
4. 其它技术参数见下表：
1. Standard: GB20840.3-2013 Voltage Transformer
2. Technical parameter form
3. The creepage of product surface comply with Grade II of pollution.
4. Other technical parameters please refer to table below :

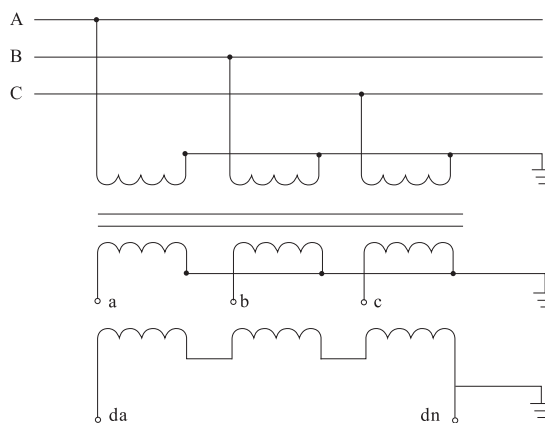
型号 Type	额定电压比 Rated voltage ratio(V)	级次组合 Accuracy class combination	额定输出 Rated output (VA)					极限输出 Ultimate output (VA)	耐压试验 Voltage withstand test (KV)	
			0.2	0.5	1	3	6P		一次绕组感应耐压 Inductive voltage withstand of primary winding	二次绕组工频耐压 voltage withstand for power frequency of secondary winding.
JSZW3-3	3000/√3/100/√3/100/3	0.5/6P 1/6P 3/6P		90	150	300	75	600	18	2
JSZW3-6	6000/√3/100/√3/100/3								23	2
JSZW3-10	10000/√3/100/√3/100/3			150	240	600	100	1000	32	2

接线图 Wiring diagram



JSZW3-3、6、10抗谐振三相线路接线图

Wiring diagram for model JSZW3-3, 6, 10 anti-resonance three-phase circuit

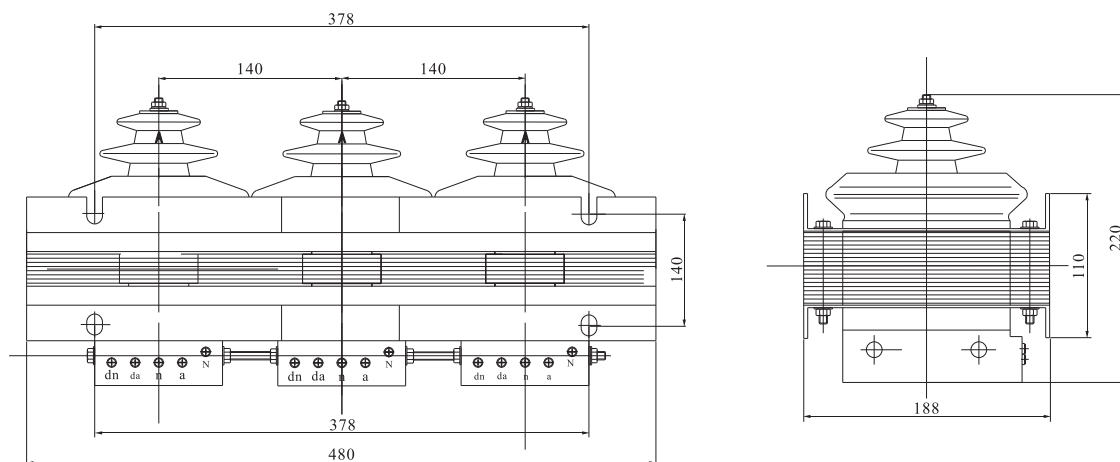


JSZW3-3、6、10常规接线图

Regular wiring diagram for model JSZW3-3, 6, 10



外形及安装尺寸图 Outline and installation dimension



JDJ-3, 6, 10, 户外电压互感器 JDJ-3, 6, 10, Outdoor voltage transformer



概述 Summary

DJ型产品为油浸式不接地电压互感器，供额定频率为50Hz的电力系统中作电压，电能测量及继电保护用。本型电压互感器共有JDJ-6、JDJ-10两种。

DJ products for the oil-immersed unearthened voltage transformer for rated frequency 50Hz power system's operating voltage, power measurement and relay protection. This type of voltage transformer total JDJ-6, JDJ-10 two kinds.

型号含义 Type designation



使用条件 Conditions of Use

1. 安装地点的海拔不超过4000m;
2. 环境温度为-5℃~+40℃;
3. 空气相对湿度不大于85%(20℃);
4. 本产品已通过直接振动试验，能承受相当于里氏九级裂度的速度为0.4g正弦三波的耐振试验。
1. The installation site altitude does not exceed 4000m;
2. Ambient temperature is -5℃~+40℃;
3. Air relative humidity less than 85% (20℃);
4. This product has passed the direct vibration test, can withstand the equivalent of nine on the Richter degree of crack resistance to vibration test speed of 0.4g 3 sine wave.



技术参数 Technical parameter

型号 Type	额定电压比 Rated voltage ratio (V)	额定输出 Rated output(V)				最大容量 Max. capacity (VA)	
		0.2级 Class	0.5级 Class	1级 Class	3级 Class		
JDJ-6	3000/100 6000/100	20 30	30 50	50 80	200	240 400	24 32
JDJ-10	10000/100	30	80	150	320	640	42

外形及安装尺寸图 Outline and installation dimension

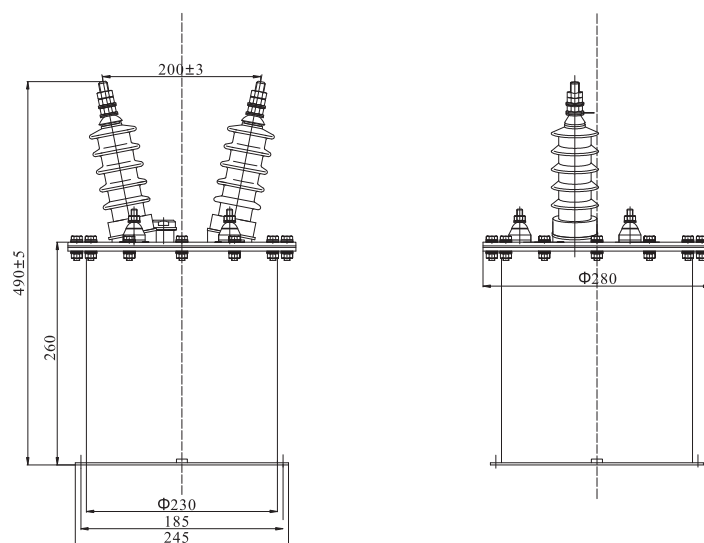


图1 JDJ-6、10外型及安装尺寸
Fig3 Overall and installation dimension of JDJ-6,10



JDJ(J)2-35, JD(X)N2-35 电压互感器 JDJ(J)2-35, JD(X)N2-35 Voltage transformer



概述 Summary

本系列电压互感器为单相油浸产品，适用于额定频率50Hz或60Hz、额定电压35kV及以下的电力系统中，作电能计量、电压监控和继电保护用。

The voltage transformer of the type JDJ(J)2-35 is single phase and oil-immersed product. It is used for electric energy metering, voltage control and relay protection in the electric system of rated frequency 50Hz or 60Hz and rated voltage 35kV.

型号含义 Type designation



结构 Structure

本系列电压互感器的铁心由条形硅钢片叠成，为三柱芯式，器身用铁夹件固定在箱盖上，在箱盖上装有一次及二次套管等，油箱用钢板焊成，油箱壁下部装有接地螺栓及放油塞，箱底有四个安装孔。

This voltage transformer has three poles and the iron core is made of silicon steel sheet. The body is fixed on the box cover by clamps. There have the primary and secondary bushing also on the box cover. The oil box is made of steel sheet by welding, there are earth studs and oil drain plug on lower part of box wall, and four mounting holes in the bottom.



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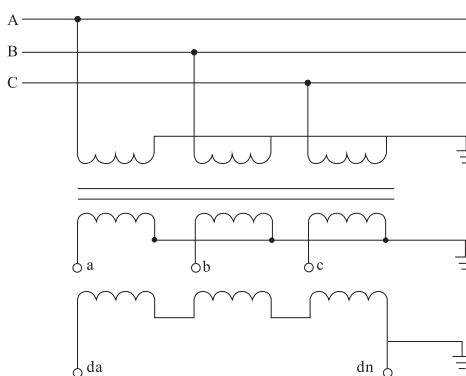
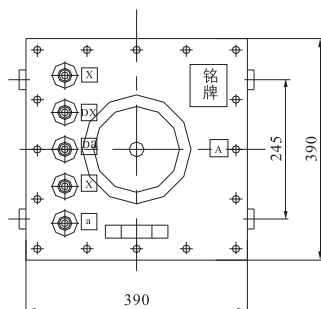
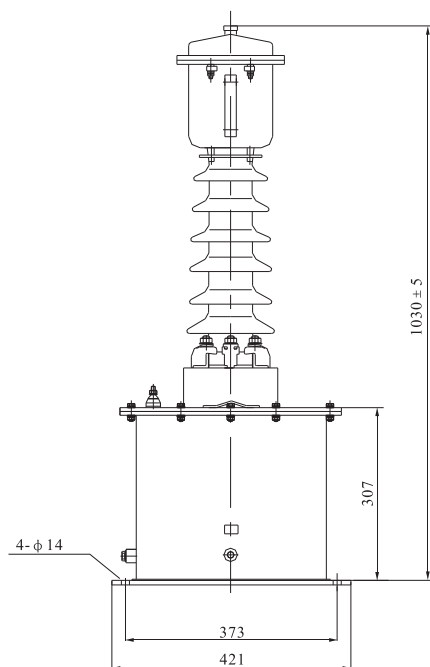
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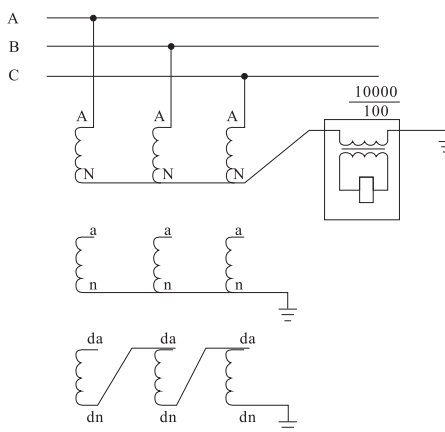
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外形及安装尺寸图 Outline and installation dimension



JDJJ2-35常规接线图
Regular wiring diagram for JDJJ2-35



JDJJ2-35抗谐振三相线路接线图
Wiring diagram for JDJJ2-35 anti-resonance three-phase circuit.



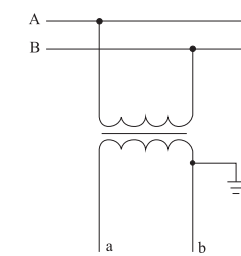
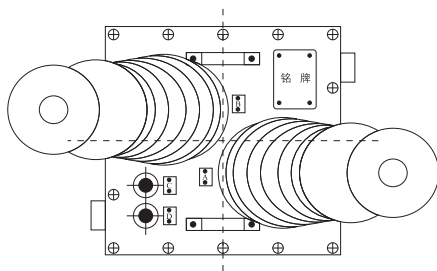
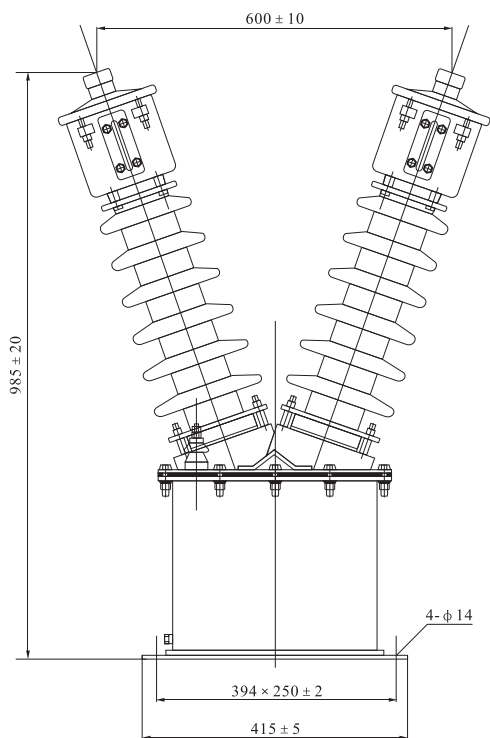
技术参数 Technical parameter

1. 额定绝缘水平 Rated insulation level: 40.5/95/200kV

2. 技术参数表 Technical data form

型号 Type	额定电压比 Rated voltage ratio(V)	额定输出 Rated output (VA)				极限输出 Ultimate output(VA)
		0.2	0.5	1	6P	
JDJ2-35	35000/100	75	150	250		1000
JDJJ2-35	35000/√3/100/√3/100/3	75	150	250	100	
	35000/√3/100/√3/100/√3/100/3	30	60		100	2 × 500

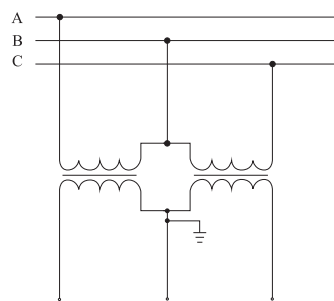
外形及安装尺寸图 Outline and installation dimension



JDJ2-35

单相线路接线图

Wiring diagram for single-phase circuit



JDJ2-35

三相线路接线图

Wiring diagram for three-phase circuit

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JSJW-3, 6, 10 户内型电压互感器 JSJW-3, 6, 10 Indoor type voltage transformer



概述 Summary

本型电压互感器为三相三绕组油浸式五铁芯柱的户内型产品，适用于交流50Hz、10kV及以下线路，供测量电压、电能和功率以及继电保护用。

This type of voltage mutual inductors is three-phase three-winding oil-immersed Product with five iron-core poles, it is suitable for power system with AC 50Hz and rated voltage 10KV or below to measure voltage, electric energy and protect relay.

结构 Structure

本型电压互感器的铁芯采用带有旁铁轭的芯式结构，由条形硅钢片叠成，每相有三个绕组即剩余电压绕组、二次绕组及一次绕组，其接线见图3-1-22。剩余电压绕组绕在绝缘纸筒上，外面包以绝缘纸板。再在绝缘纸板的外面绕制二次绕组。最后，将一次绕组分段绕在二次绕组外面的角环上，一次绕组的最外层均放有静电屏，并用纸板和直纹布带扎紧。三个绕组构成一体，ABC三相共有三组绕组分别套在铁芯中间三个铁芯柱上。

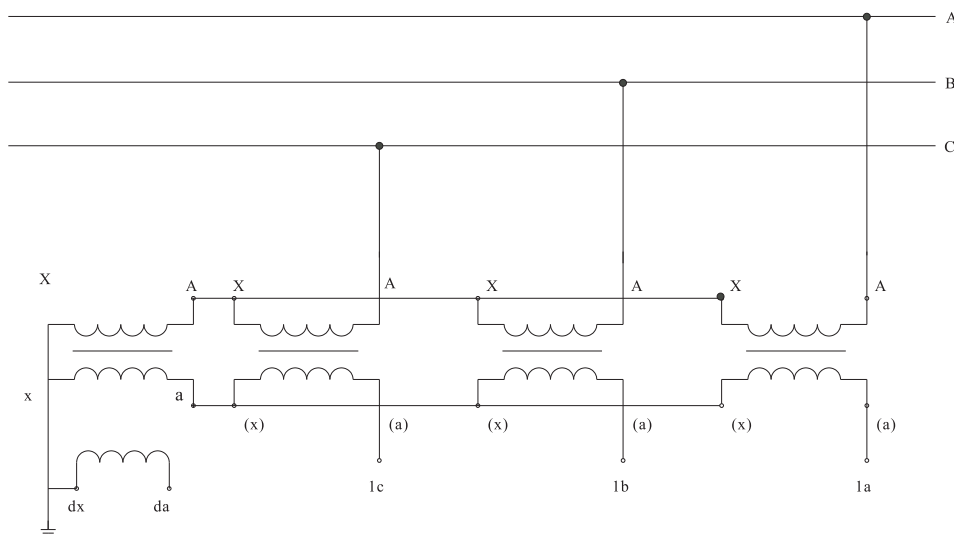
器身用铁芯夹件固定在箱盖上，箱盖上装有高低压出线瓷套、铭牌、吊攀及带有呼吸孔的注油塞。油箱用钢板焊成，呈圆筒形，箱壁上部焊有吊起整个互感器的吊攀，下部装有接地螺栓和放油塞。箱底由钢板剪成八角形，其上备有4个安装孔。

The iron-core of this voltage transformer employs side-iron structure, made of stripe silicon steel plate. Every phase has three windings: residual voltage winding, secondary winding and primary winding. The wiring diagram, please refer to Diagram 3-1-22. The residual voltage winding is wound onto an insulated paper sleeve and wrapped with insulated paper board, the secondary winding is wound onto the paperboard, then wound the primary winding onto the square ring outside of the secondary winding. The outer of the primary winding has electrostatic shield respectively and wrapped with paperboard and cloth. The three phases of A, B and C totally have three winding, wound onto three iron poles of the iron-core.

The transformer is fixed on the cover of tank by clamp, the cover of tank has high- and low-voltage output porcelain sheathes, nameplate, hanger and oil-feed plug with inhale hole. The circular barrel shaped oil tank is welded with steel plate and has a hanger on the upper wall of the tank for lifting up the transformer, the lower wall of the tank has grounding bolt and oil-discharge plug. The octagonal bottom of tank is made of steel plate and has four installment holes.

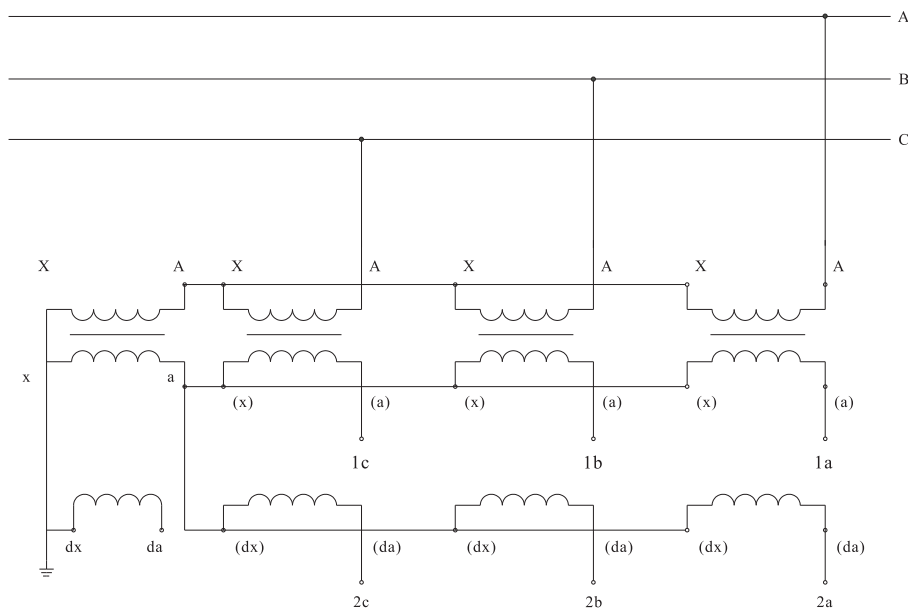


接线图 Wiring diagram



JSZK2-10(F)电压互感器接线图 图中: 1a、1b、1c 为0.5级 150VA da、dn为6P级50VA

Wiring diagram of JSZK2-10(F) voltage transformer In the diagram: 1a,1b,1c: Accuracy class 0.5, 150VA da, dn: Accuracy class 6P, 50VA.



JSZK2-10(F)电压互感器接线图图中: 1a、1b、1c为0.2级 75VA 2a、2b、2c为0.5级 150VA da、dn为6P级50VA.

Wiring diagram of JSZK2-10(F) voltage transformer in the diagram: 1a,1b,1c: Accuracy class 0.2, 75VA 2a,2b,2c: Accuracy class 0.5, 150VA da, dn: Accuracy class 6P, 50VA.



技术参数 Technical parameter

型号 Type	额定电压 Rated voltage(V)		计量a.b.c Measurement		监控a.b.c Monitoring		辅助aD. xD Auxiliary		极限输出 Ultimate output (VA)
	一次 Primary	二次 Secondary	容量(VA) Capacity	精度等级 Class	容量(VA) Capacity	精度等级 Class	容量(VA) Capacity	精度等级 Class	
JSZK2-6	6000/3	100/3	120	0.5			100	6P	1000
			60	0.2					
JSZK2-10	10000/3	100/3	75	0.2			100	6P	1500
			150	0.5					
JSZK2-6F	6000/3	100/3	50	0.2	80	0.5	100	6P	1000
			90	0.5	90	0.5			
JSZK2-10F	10000/3	100/3	75	0.2	120	0.5	100	6P	1500
			120	0.5	120	0.5			

外形及安装尺寸图 Outline and installation dimension

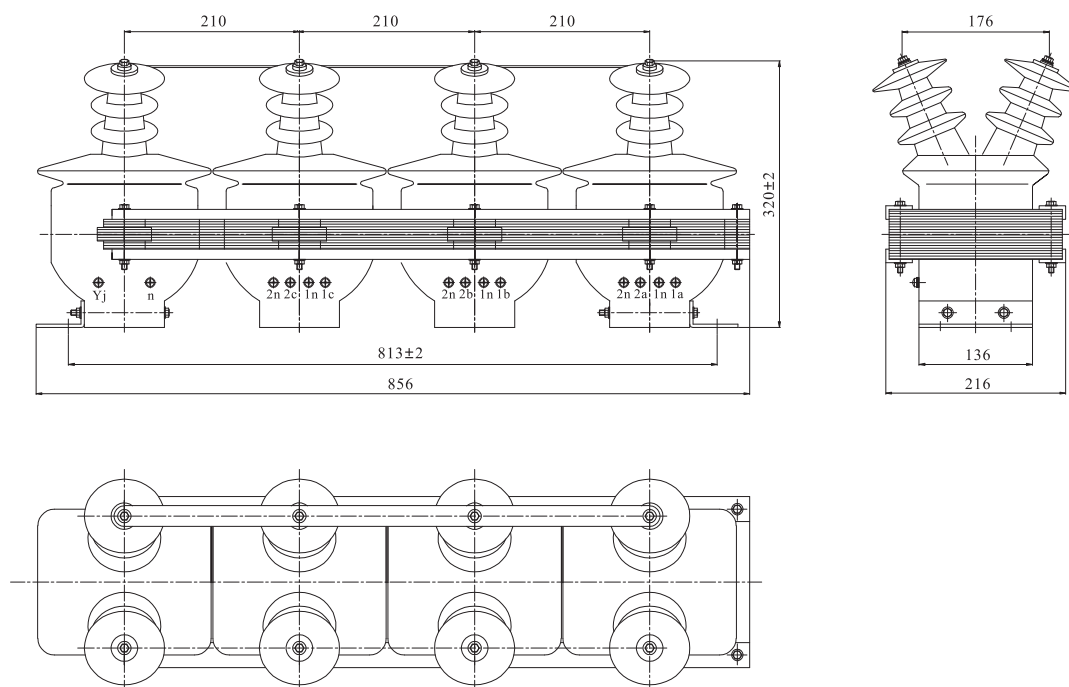


图1 JSZKF-10外形及安装尺寸图
Fig.1 Outline and installation dimension of JSZKF-10



外形及安装尺寸图 Outline and installation dimension

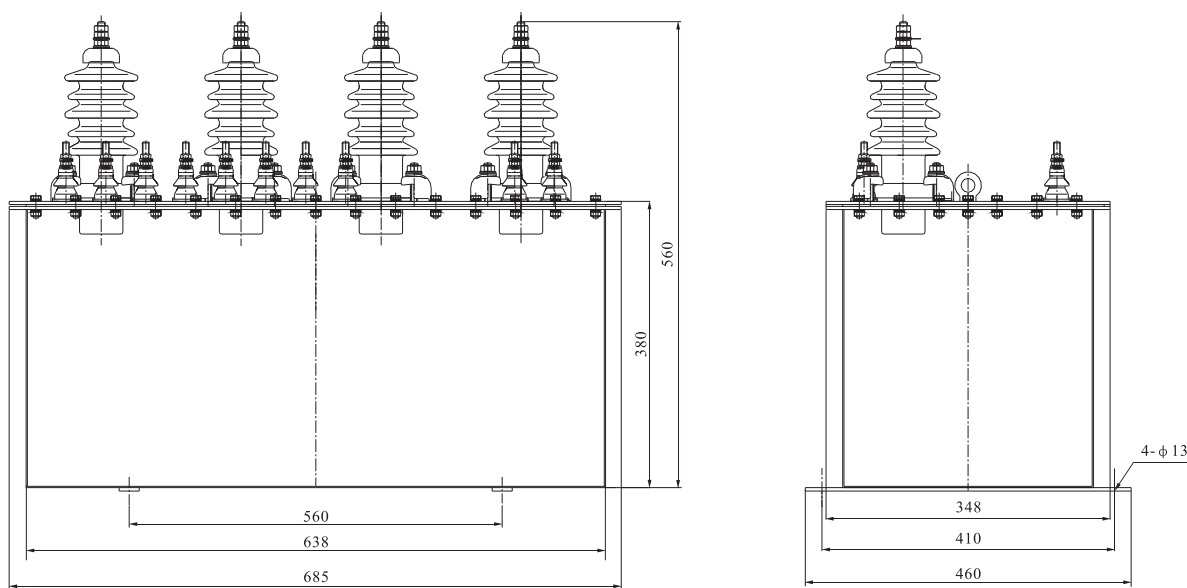


图2 JSZK2-6(F)外形及安装尺寸图
Fig.1 Outline and installation dimension of JSZK2-6(F)

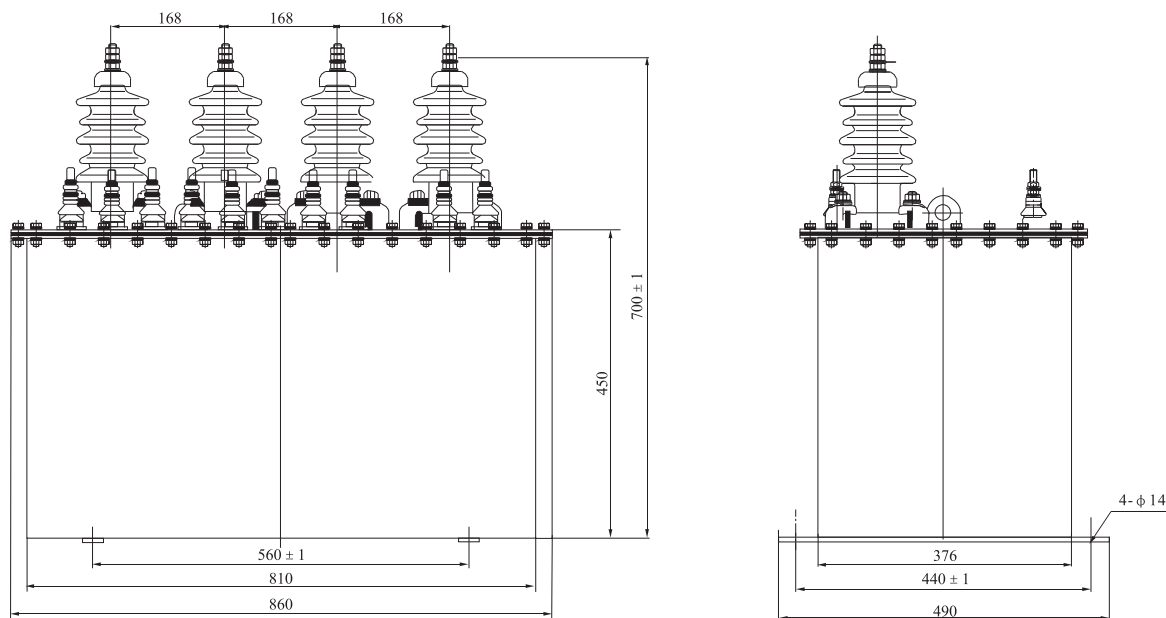


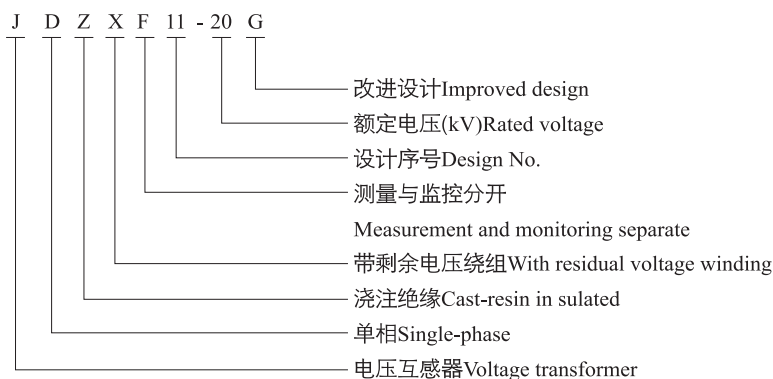
图3 JSZK2-10(F)外形及安装尺寸图
Fig.1 Outline and installation dimension of JSZK2-10(F)



JDZXF11-20G 电压互感器 JDZXF11-20G Voltage transformer



型号含义 Type designation



概述 Summary

本系列电压互感器为单相环氧树脂浇注全封闭结构，适用于额定频率50Hz或60Hz，额定电压15kV、20kV及以下的电力系统中，作电能计量、电压监控和继电保护用，本产品符合IEC60044-2、GB20840.1-2010、GB20840.3-2013《电压互感器》标准。

本型电压互感器可用于单相及三相线路，用于三相线路中，可用三只电压互感器接成星型接线方式。

This series of voltage transformer is single-phase fully enclosed structure with epoxy resin casting, it is suitable for power system with rated frequency of 50Hz or 60Hz and rated voltage of 15kV, 20kV and below, in which it is used for power measurement, voltage monitoring and relay protection, this product is compliance with standards of IEC60044-2, GB20840.1-2010 and GB20840.3-2013 Voltage transformer.

The voltage transformer can be used for single-phase and three-phase lines, when it is used in three-phase line, three voltage transformers can be connected in a star wiring mode.

结构简介 Structural introduction

本系列电压互感器为环氧树脂绝缘全封闭结构，耐污移及潮湿，也适用于热带地区使用，该互感器体积小，重量轻，局部放电小、抗过电压能力强，适宜于任何位置、任何方向安装。

采用先进真空浇注工艺进行浇注保证了产品的优良的绝缘性能，产品的爬电比距较大，符合国家2级污移水平，底部设有支架，支架上有四个安装孔方便安装固定。

This series of voltage transformer is single-phase fully enclosed structure with epoxy resin casting. It can resist pollution and humid, is suitable for tropical regions, has features of small size, light weight, low partial discharge, strong capability to over-voltage, so it is suitable for installation at any position and in any orientation.

The use of advanced vacuum casting technology ensures excellent insulation properties of the product, the creepage distance is large, and it is in line with national level 2 of pollution shift, the bottom has brackets and there are four mounting holes to facilitate the installation.

正常工作条件 Normal working conditions

1. 安装场所为户内，运行时二次不得短路；
2. 环境温度：-5℃~+40℃，日平均气温不超过35℃；
3. 海拔高度不超过1000m；
4. 平均相对湿度不超过80%；
5. 无严重影响互感器绝缘的气体、尘埃及其它爆炸性或侵蚀性介质；
6. 安装场所无剧烈震动和颠簸。

1. The installation site is indoor, two times shall not be short run in operation.
2. The environment temperature: -5℃~+40℃, the daily average temperature is no more than 35℃;
3. The altitude is not more than 1000m;
4. The average relative humidity is not more than 80%;
5. No serious impact on the insulation of the transformer gas, dust and other explosive or corrosive media in;
6. The installation site without severe vibration and bumps.

技术参数 Technical parameter

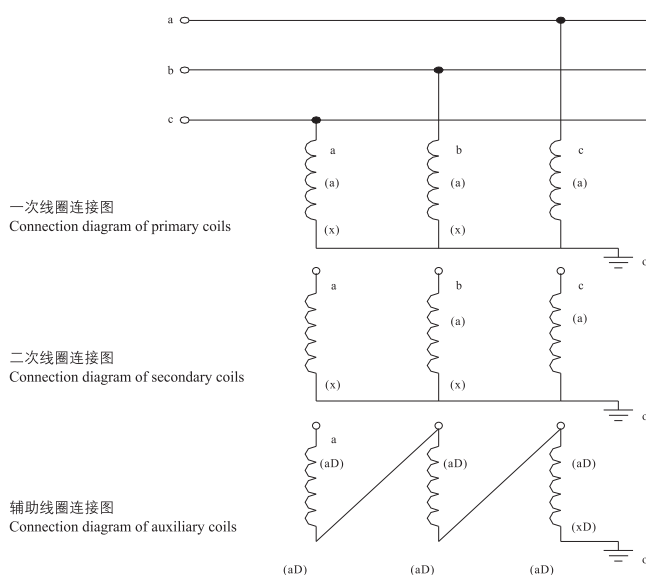
1. 技术参数表；
2. 局部放电水平符合GB20840.1-2010、GB20840.3-2013《电压互感器》标准；
3. 污移等级：II级。

1. Technical data form
2. Partial discharge is in line with GB20840.1-2010, GB20840.3-2013 Voltage Transformer.
3. Anti-pollution class: II class.

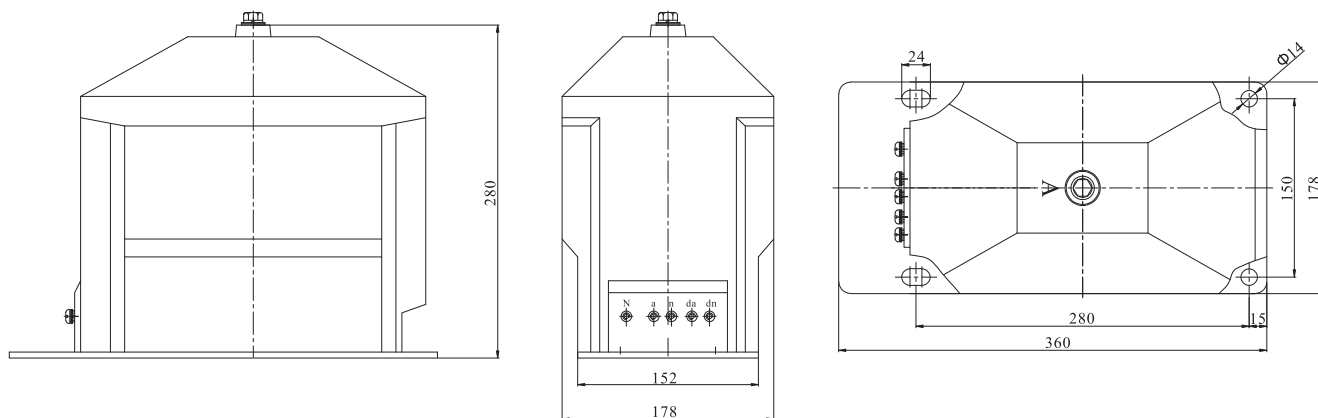


型号 Type	额定电压比 Rated voltage ratio(V)	准确级组合 Accuracy class combination	额定输出 Rated output(VA)	极限输出 Ultimate output(VA)	额定绝缘水平 Rated insulation level (kV)
VB-24	13.8/√3/0.1/√3/0.1/√3/0.1/3	0.2/0.2/6P(3P) 0.2/0.5/6P(3P) 0.5/0.5/6P(3P)	20/20/100	300	18/55/105
	15/√3/0.1/√3/0.1/√3/0.1/3				
	15.7/√3/0.1/√3/0.1/√3/0.1/3				
	20/√3/0.1/√3/0.1/√3/0.1/3				24/65/125

接线原理图 Wiring principle diagram



外形及安装尺寸图 Outline and installation dimension



SANAI
transformer
三爱互感器

LONG YOU
transformer
三友互感器



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JDZ(X)F6-35 户内电压互感器 JDZ(X)F6-35 Outdoor voltage transformer

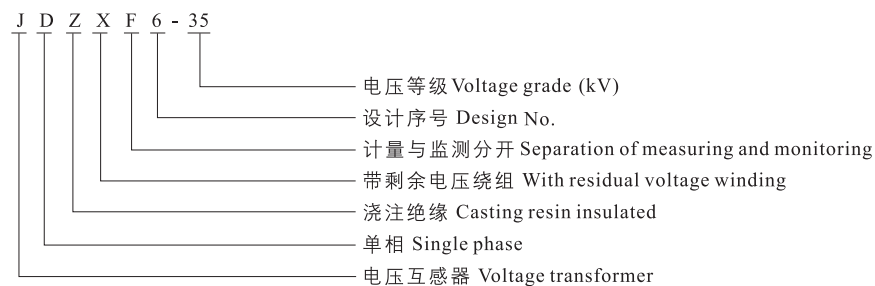


概述 Summary

本系列电压互感器为全封闭环氧树脂浇注结构，适用于额定频率50Hz或60Hz，额定电压35KV及以下的电力系统中，作电能计量、电压监控和继电保护之用。本产品符合IEC60044及GB20840.3-2013《电压互感器》标准。

This series voltage transformers are of full enclosed and casting resin insulated products. They are used for electric energy metering, voltage control and relay protection in the electric system of rated frequency 50Hz or 60Hz and rated voltage 35kV. The transformers can be executed according to IEC60044 and GB20840.3-2013 voltage transformer.

型号含义 Type designation



技术参数 Technical parameter

1. 技术参数表
2. 局部放电水平符合GB20840.3-2013《电流互感器》标准。
3. 污秽等级：Ⅱ级。
1. Technical data form
2. Partial discharge is in line with GB20840.3-2013 Current Transformer.
3. Autipollution class : II class.



技术参数 Technical parameter

型号 Model	额定电压比 Rated voltage Ratio (V)	额定输出 Rated output(VA)			极限输出 Ultimate output(VA)	额定绝缘水平 Rated insulation level (kV)
		0.2	0.5	6P		
JDZ6-35	35000/100	60	150		1000	40.5/80/200
JDZF6-35	35000/100/100	40	40		2 × 500	
JDZX6-35	35000/√3/100/√3/100/3	50	90	100	1000	
JDZXF6-35	35000/√3/100/√3/100/√3/100/3	30	30	100	2 × 500	

外形及安装尺寸图 Outline and installation dimension

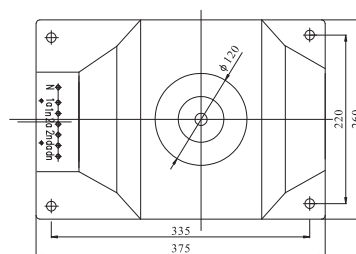
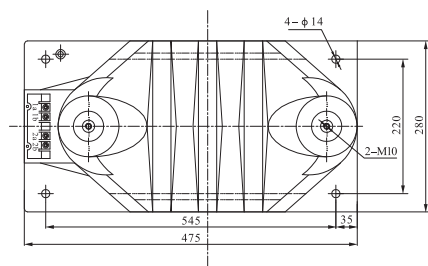
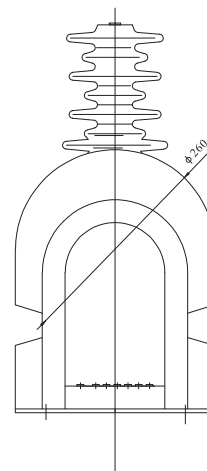
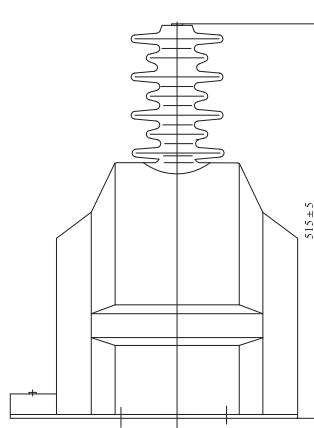
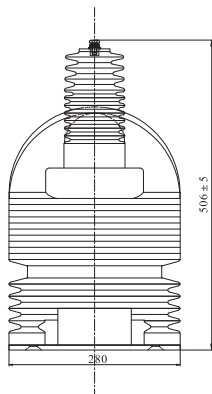
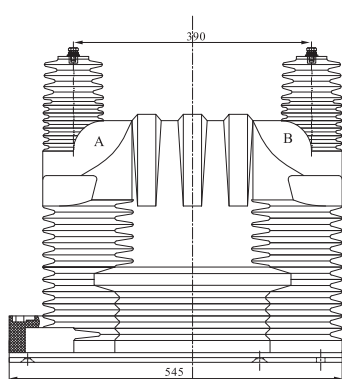


图1 JDZ(F)6-35 外形及安装尺寸图

Diagram1 Outline and installation size of JDZ(F)6-35

图2 JDZX(F)6-35外形及安装尺寸图

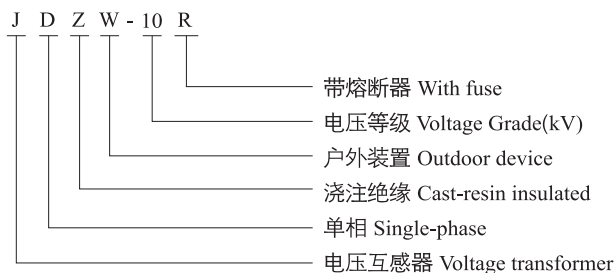
Diagram2 Outline and installation size of JDZX(F)6-35



JDZW-10(6)R 电压互感器 JDZW-10(6)R Voltage transformer



型号含义 Type designation



概述 Summary

适用于JDZW-10R全封闭绝缘型电压互感器（以下简称互感器）。互感器为户外装置，内置熔断器，供额定频率50Hz、60Hz，10kV以下电力系统中作电气测量、电气保护、电源提供之用。

It is suitable for JDZW-10R fully enclosed in sulated voltage transformer(hereinafter referred to as transform er). Transformer is outdoor device, it is built-in with fuseto be used in power system with rated frequency of 50Hz/60Hz and rated voltage of 10kV for electrical measurements, protection and power supply.

工作条件 Working conditions

1.1 设计主要标准 Standard

序号No.	名称Name	单位Unit	参数Parameter
1	周围空气温度（户外） Ambient air temperature (outdoor)	最高气温Maximum temperature	℃
		最低气温Minimum temperature	℃
		最大日温差Maximum daily temperature difference	K
2	海拔Altitude	m	≥ 1500
3	太阳辐射强度Solar radiation intensity	W/cm ²	0.1
4	覆冰厚度Ice thickness	mm	10
5	风速/风压Wind speed and wind pressure	m/s/Pa	34/700
6	最大风速（离地面高10M处,维持10min的平均最大值） Maximum wind speed (from the ground height 10M,to maintain the average maximum of 10min)	m/s	35
7	湿度Humi dity	日相对湿度平均值Average relative humidity	≤ 95
		月相对湿度平均值Average monthly relative humidty	≤ 90
8	耐地震能力 Earthquake resistant capacity	水平加速度Horizontal acceleration	g
		地面垂直加速度Ground vertical acceleration	0.15
		安全系数Safety factor	/



1.2系统接地方式System grounding method

中性点非有效接地系统Neutral point non-effective grounding system

技术参数 Technical parameter

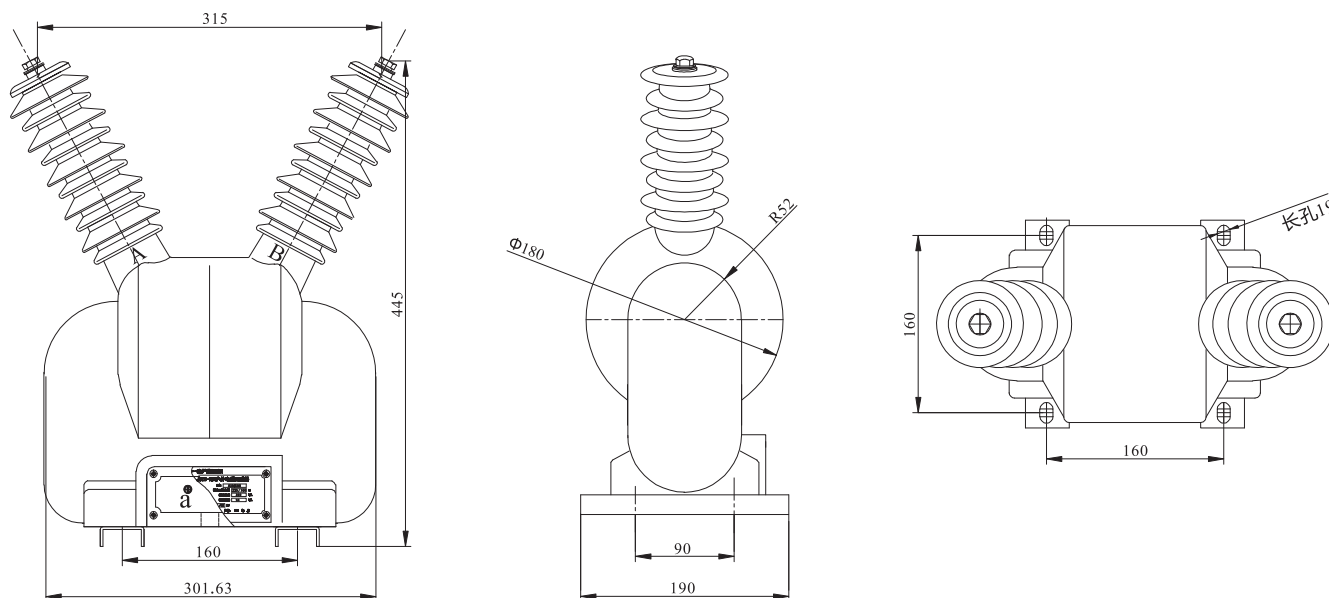
1.1互感器的额定值及基本参数见表

型号 Type	额定频率 Rated frequency (Hz)	额定电压比 Rated voltage ratio(V)	准确级 Accuracy class	额定输出 Rated output(VA)	极限输出 Ultimate output(VA)	额定绝缘水平 Rated insulation level(kV)
JDZW-6R	50~60	6000/220	3	500	1000	7.2/32/60
JDZW-10R	50~60	10000/220	3	500	1000	12/42/75
JDZW-6R	50~60	600/100/220	0.5/3	30/500	1000	7.2/32/60
JDZW-10R	50~60	10000/100/220	0.5/3	30/500	1000	12/42/75

1.2相应准确级（负荷的功率因数0.8滞后）Corresponding accuracy level(load power factor 0.8is lagging)

准确级级别 Accuracy class	电压误差(±%)Voltage error					相位差(±')Phase difference				
	额定电压百分数Rated voltage percent					额定电压百分数Rated voltage percent				
	-	20	80	100	120	-	20	80	100	120
0.2		0.2	0.2	0.2	0.2		10	10	10	10
0.5		0.2	0.5	0.5	0.5		20	20	20	20
1.0		10	10	10	1.0		40	40	40	40
3			3	3	3		不规定Not specified			

外形及安装尺寸图 Outline and installation dimension





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JDZX(F)71-10 户外电压互感器 JDZX(F)71-10 Outdoor voltage transformer



概述 Summary

JDZX(F)71-10型电压互感器为单相多绕组全封闭环氧树脂浇注式互感器，并带剩作绕组，供额定频率50Hz，额定电压为10kV及以下的电力系统中作电压、电能测量和继电保护之用。

JDZX(F)71-10 outdoor voltage transformer is a type of single-phase multi-winding and whole sealing epoxy resin casting product. It is equipped with residual winding used for measurement of voltage and electric energy as well as relay protection in the electric system of rated frequency 50Hz and rated voltage 10kV or below.

型号含义 Type designation



结构 Structure

本系列电压互感器为环氧树脂全封闭浇注绝缘结构，铁芯采用优质冷轧硅钢片绕制，并经退火处理，铁芯与一次绕组和二次绕组一起用环氧树脂浇注成型。本系列互感器耐污秽、耐潮性能良好。二次接线端子处有接线保护端子盒，端子盒有三个不同出线方向，接线方便，并能实现防尘、防窃电措施。

This series of voltage transformer is of epoxy resin casting and whole sealing insulation structure. Encircled by cold rolled silicon steel strap and through annealing process, the iron core, together with primary winding and secondary winding, is formed by casting epoxy. This series of transformer owns excellent dirt-proof and moisture resistant performances. Secondary connecting terminal is equipped with connecting protective terminal box, which has 3 different outlet directions. It is convenient for wiring, dirt-proof and thief-proof.



技术参数 Technical parameter

额定一次电压 Rated primary voltage: 10000/√3V

额定二次电压 Rated secondary voltage: 100/√3V

额定频率 Rated frequency: 50Hz

额定二次输出及其相应准确级(负荷功率因素为0.8滞后)见表1

Refer to Table for rated secondary output and corresponding class of accuracy (load power factor is 0.8 lag)

型号 Type	额定电压比 Rated voltage ratio(V)	准确级次组合 Accurate class combination	额定输出(VA) Rated output	极限输出 Ultimate output (VA)	额定绝缘水平 Rated insulation level(kA)
JDZX71-10	10000/√3/100/√3/100/3	0.2/3P	20/120	600	12/42/75
		0.5/3P	40/120		12/42/75
JDZXF71-10	10000/√3/100/√3/100/√3/100/3	0.2/0.2/3P	20/20/120	600	12/42/75
		0.5/0.5/3P	40/40/120		12/42/75
		0.2/0.5/3P	20/30/120		12/42/75

外形及安装尺寸图 Outline and installation dimension

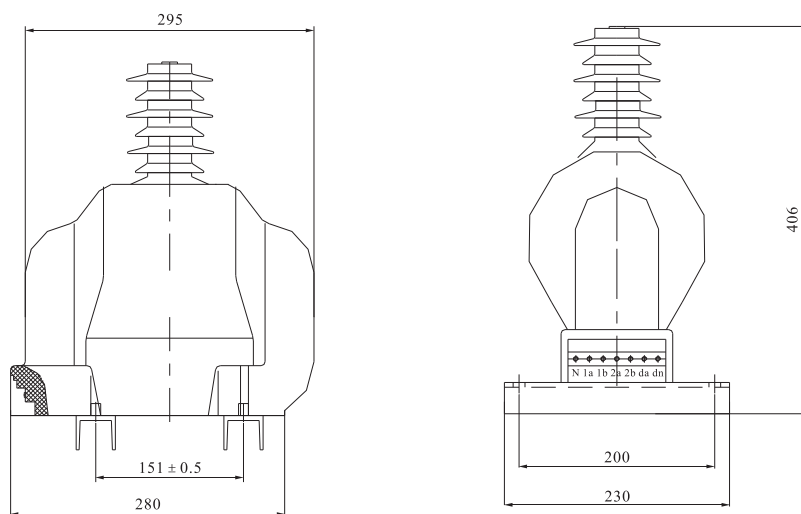


图1、JDZX(F)71-10外形及安装尺寸图

Diagram 1 JDZX(F)71-10 outline and installation dimension

接线图 Wiring diagram

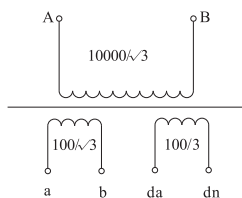


图2、JDZX71-10接线图

Diagram 2 JDZX71-10 Wiring diagram

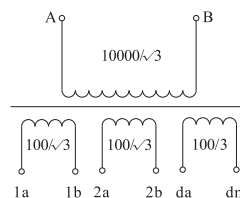


图3、JDZXF71-10接线图

Diagram 3 JDZXF71-10 Wiring diagram



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transformer
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JDZ(J)-10GY 电压互感器 JDZ(J)-10GY Voltage transformer



概述 Summary

JDZJ-10GY型电压互感器为单相多绕组全封闭环氧树脂浇注式互感器，本产品系户内外装置供额定频率50Hz,额定电压为10kV及以下的电力系统中作电压、电能测量和继电保护之用。

JDZJ-10GY voltage transformer is the single-phase multi-winding whole sealing epoxy pouring product. It is used indoor for measurement of voltage and electric energy as well as relay protection in the electric system of rated frequency 50Hz and rated voltage 10kV or below.

型号含义 Type designation



结构 Structure

本系列电压互感器为环氧树脂全封闭浇注绝缘结构，铁芯采用优质冷轧硅钢片绕制，并经退火处理，铁芯与一次绕组和二次绕组一起用环氧树脂浇注成型。本系列互感器耐污秽、耐潮性能良好。二次接线端子处有接线保护端子盒，端子盒有三个不同出线方向，接线方便，并能实现防尘、防窃电措施。

This series of voltage transformers is of epoxy pouring whole sealing insulation structure. Encircled by cold rolled silicon steel strap and through annealing process, the iron core, together with primary winding and secondary winding, is formed by pouring epoxy. This transformer owns excellent dirt-proof and moisture resistant performances. Secondary connecting terminal is equipped with connecting protective terminal box, which has 3 different outlet directions. It is convenient in wiring, dirt-proof and thief-proof.

技术参数 Technical parameter

额定绝缘水平 Rated insulation level: 12/42/75kV

额定电压 Rated voltage: 10kV

额定频率 Rated frequency: 50Hz

额定负荷功率因素 Rated load power factor: 0.8(滞后Lag)



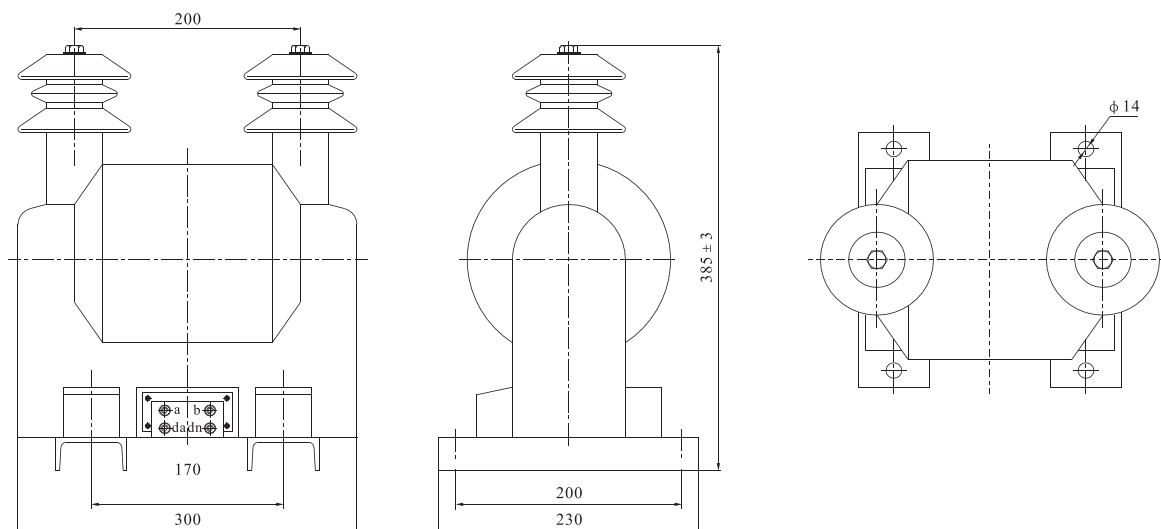
额定二次输出及其相应准确级见表1 Refer to Table 1 for rated secondary output and corresponding class of accuracy

型号 Type	额定电压比(V) Rated voltage ratio(V)	准确级额定输出(VA) Accurate class and rated output			极限输出 ultimate output(VA)
		0.2	0.5	1	
JDZ-10GY	10000/100	40	80	240	600
JDZJ-10GY	10000/√3/100/√3/100/3	20	40	180	1000

JDZJ-10GY 感应耐压见表2 Refer to Table 2 for induced withstand voltage

型号 Type	额定电压比(V) Rated voltage ratio(V)	感应耐受电压kV(有效值) Induced withstand voltage kV(r.ms)	试验频率 Test frequency (Hz)	试验时间 Test time (S)
JDZJ-10GY	10000/√3/100/√3/100/3	28	150	40

外形及安装尺寸图 Outline and installation dimension



SANAI
transformer
三爱互感器

LONG YOU
transformer
三友互感器



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JDZ(X)(F)8-35W 户外电压互感器 JDZ(X)(F)8-35W Outdoor voltage transformer

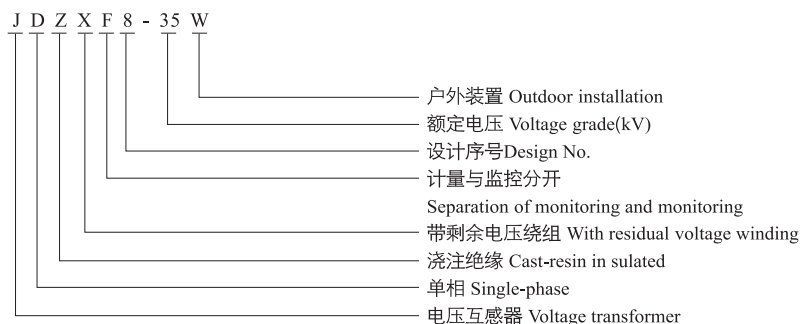


概述 Summary

本系列户外电压互感器为户外环氧树脂浇注绝缘全封闭结构，适用于额定频率50Hz或60Hz，额定电压35kV的电力系统中，作电能计量、电压监测和继电保护用。本产品符合IEC60044及GB20840.3-2013《电压互感器》标准。

This series outdoor voltage transformers are of full cast-resin insulated used outdoors. They are used for electric energy metering ; voltage control and relay protection in the electric system rated frequency 50Hz or 60Hz and rated voltage 35kV. The transformers can be executed according to the standards IEC60044 and GB20840.3-2013 .

型号含义 Type designation



使用条件 Operating conditions

1. 环境温度过: -25℃~+40℃
2. 污秽等级: IV 级。
- 1.Ambient temperature: -25℃~+40℃
- 2.Antipollution class: IV Class

技术参数 Technical parameter

1. 技术参数表
2. 局部放电水平符合GB20840.3-2013《电压互感器》标准。
1. Technical data form
2. Partial discharge is in line with GB20840.3-2013 Voltage Transformer.



技术参数 Technical parameter

型号 Model	额定电压比 Rated voltage Ratio (V)	额定输出 Rated output (VA)			极限输出 Ultimate output (VA)	额定绝缘水平 Rated insulation level (KV)
		0.2	0.5	6P		
JDZ8-35W	35000/100	60	150		1000	40.5/80/200
JDZF8-35W	35000/100/100	40	40		2 × 500	
JDZX8-35W	35000/√3/100/√3/100/3	50	90	100	1000	
JDZXF8-35W	35000/√3/100/√3/100/3√3/100/3	30	30	100	2 × 500	

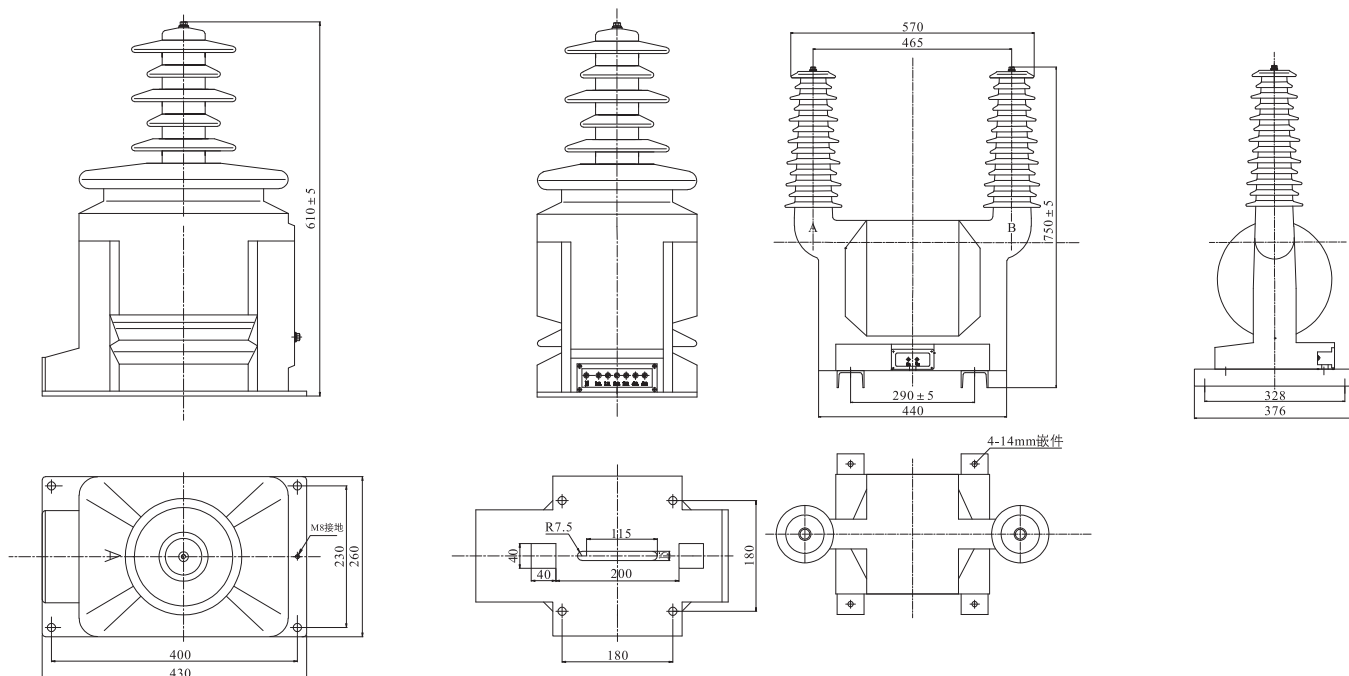
注意事项:

1. 使用时二次绕组不许短路及超负荷运行。
2. JDZX8-35W、JDZXF8-35W 为半绝缘结构，只能进行感应耐压试验；开关柜进行工频试验时，应将互感器与开关柜断开。

Notice:

1. During operating, the secondary winding can't be short-circuited or over loaded.
2. The voltage transformers of type JDZX8-35W and JDZXF8-35W are semi insulated. Only induction voltage test to this product is allowed; When the switch cabinet goes on working-frequency voltage test. The transformer must be cut off from the switch cabinet.

外形及安装尺寸图 Outline and installation dimension

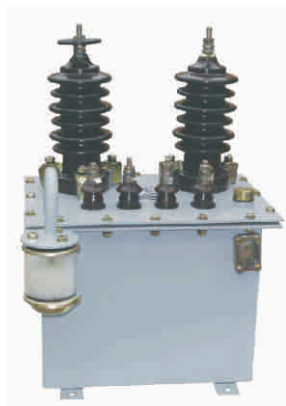


High oil-immersed transformer

➤ 高压油浸式互感器



LJW, LJWD-10, 35 电流互感器 LJW, LJWD-10, 35 Current transformer



概述 Summary

本产品系单相油浸户外式电流互感器，用于交流系统50Hz、35kV网络上，作测量及保护之用。

This product is a single-phase oil-immersed outdoor type current transformers for AC system 50Hz, 35kV network, for measurement and protection purposes.

工作条件 Operating conditions

本型互感器允许在额定电流120%的情况下长期运行。适用于海拔高度不超过4000米，周围气温最大变化不超过-25℃~+40℃的地区。

This type of transformer allows long-term operation at 120% rated current conditions. Does not apply to more than 4000 meters above sea level, the largest changes in the surrounding temperature does not exceed -25℃~+ 40℃ in the region.

技术参数 Technical parameter

型号 Type	电压等级 Voltage class (kV)	额定电流比 Rated current ratio(A)	计量0.2级、容量 $\cos \phi = 0.8$ Measurement Class 0.2, capacity(VA)	继保1级容量 Capacity for Class 1 relay protection	重量 Weight (kg)
LJW-10	10	5~400/5	10~15	无继保无监控 without relay protection or monitoing	21
LJW-35	35	5~600/5	30~50	无继保无监控 without relay protection or monitoing	64
LJWD-10	10	5~400/5	10~15	15~(30)	28
LJWD-35	35	5~600/5	30~50	30~(50)	83



外形及安装尺寸图 Outline and installation dimension

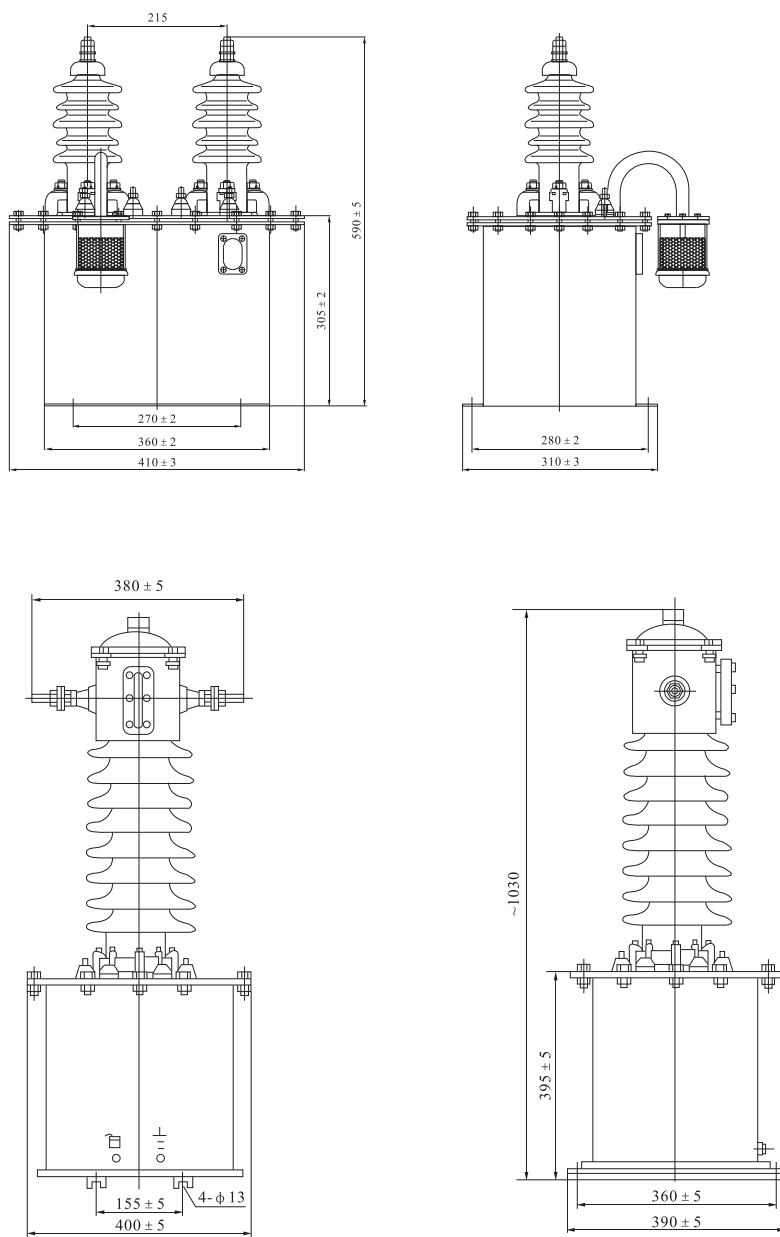


图4 LJW(D)-35外型及安装尺寸图
Fig4 Overall and installation dimension of LJW(D)-35



LB6-35 电流互感器 LB6-35 Current transformer

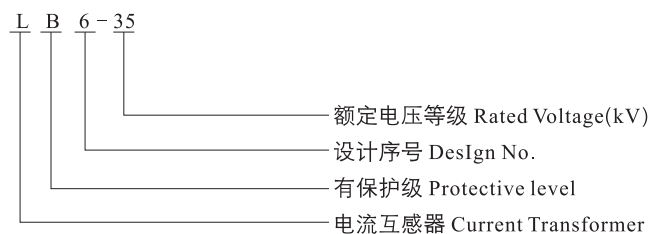


概述 Summary

LB6-35型电流互感器为油纸绝缘、户外用、全密封型电流互感器，供35kV，额定频率为50Hz的交流电力系统中作电流、电能测量及继电保护之用。

LB6-35 current transformer is oil-paper insulation, outdoor, sealed-type current transformer for 35 kV, rated frequency 50 Hz AC power system for current, energy measurement and relay protection purposes.

型号含义 Type designation



使用条件 Conditions of Use

1. 环境温度（周围气温自然变化值） Ambient temperature (ambient temperature changes in natural value)

最高气温：+40℃(Maximum temperature:+40℃)

最高日平均温度过：+30℃ (It had the highest average daily temperature:+30℃)

最低气温：-30℃(Minimum temperature:-30℃)

2. 海拔高度 Altitude

互感器安装地点的海拔高度不超过4000米。 Transformer installation site altitude of not more than 4000 meters.

3. 环境介质 Environmental Media

互感器安装场所应无严重影响互感器绝缘的气体、蒸气、化学沉积、灰尘、污垢及其它爆炸性和侵蚀性介质。

Transformer installation site should not seriously affect the transformer insulation gas, steam, chemical deposition, dust, dirt and other explosive and etching medium.



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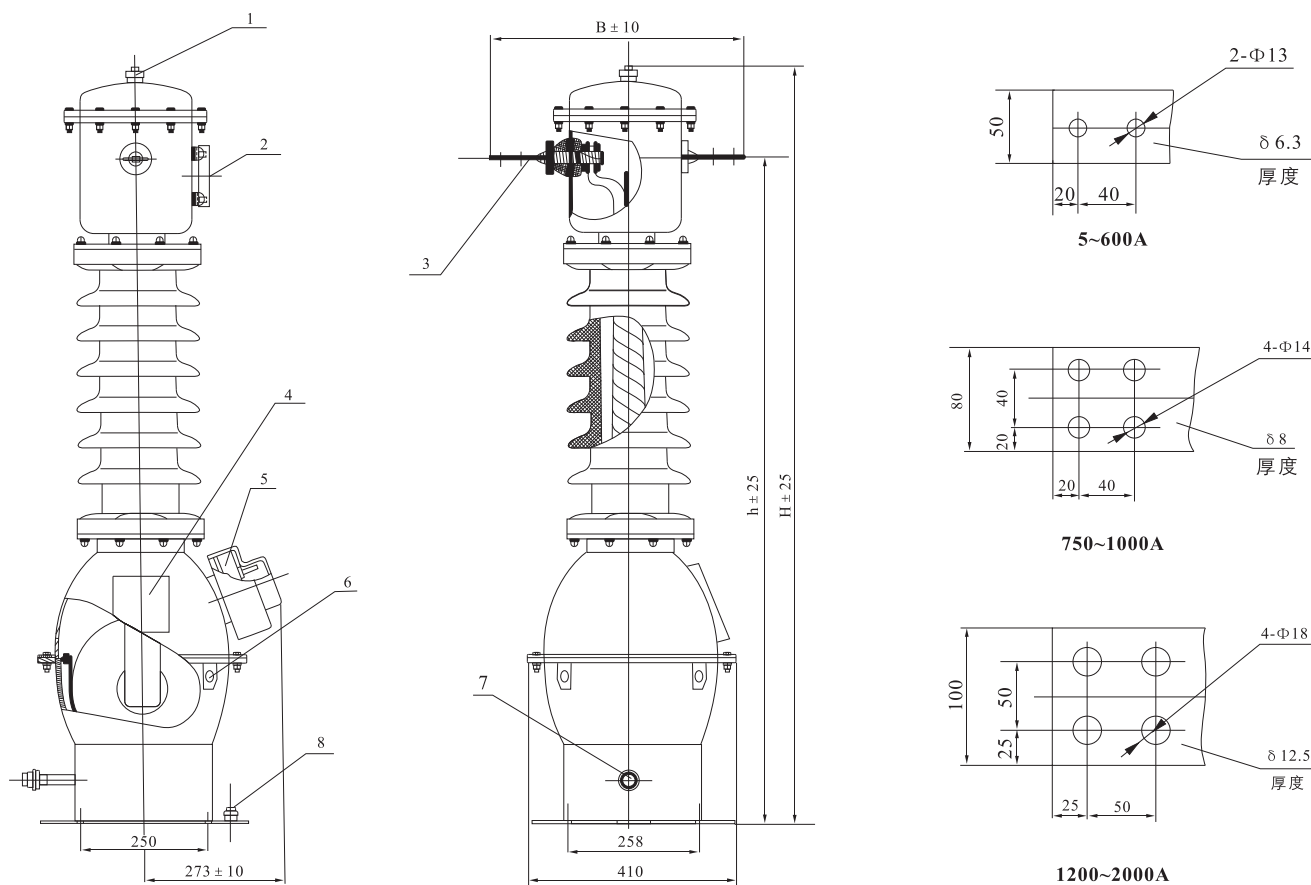
LONG YOU
transformer
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外形及安装尺寸图 Outline and installation dimension



1. 注油塞 Oil filler plug
2. 油位计 Oil-level gauge
3. 出线端子 Outlet terminal
4. 铭牌 Nameplate

5. 二次接线盒 Secondary terminal box
6. 吊攀 Hanger
7. 油样活门 Oil sample valve
8. 接地螺栓 Earth stud

额定一次电流 Rated primary current(A)	5-75A	100-600A	750-1000A	120-1500A	120-1500A
B	508		548	588	658
h	1315				1335
H	1475				1495





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技术参数 Technical parameter

表1 LB6-35型电流互感器的额定二次负载、10P级准确限值系数、最大二次电流倍数及二次绕组阻抗

Table 1 Rated secondary load, Class 10P accuracy limit factor, multiple of maximum secondary current and impedance of secondary winding for LB6-35 current transformer

额定一次电流 Rated primary current (A)	准确级次 Accuracy grade	额定二次 负载(Ω) Rated secondary load in $\cos \phi = 0.8$	10P级准确限值系数 Class 10P accuracy limit factor
5,10,15,30, 50,75,150,750	0.2S 0.2 0.5 10P10 10P20	1.6 1.6 1.2	20 20
20,40,100, 200,400,800	0.2S 0.2 0.5 10P10 10P20	1.6 1.6 1.2	20 20
1000	0.2S 0.2 0.5 10P10 10P20	1.6 1.6 1.2	20 20
300,600,1200	0.2S 0.2 0.5 10P10 10P20	1.6 1.6 1.2	20 20
1500	0.2S 0.2 0.5 10P10 10P20	1.6 1.6 1.2	20 20
2000	0.2S 0.2 0.5 10P10 10P20	1.6 1.6 1.2	20 20



表2 LB6-35型电流互感器的短路稳定电流

Table 2 Short circuit standing current of LB6-35 current transformer

额定一次电流 Rated primary current (A)	1S 热稳定电流(有效值) Thermal stability current for 1s (Effective value)(kA)	动稳定电流(峰值) Dynamic stability current(Peak value) (kA)	额定一次电流 Rated primary current (A)	1S 热稳定电流(有效值) Thermal stability current for 1s (Effective value)	动稳定电流(峰值) Dynamic stability current(Peak value) (kA)
5	0.5	1.28	75	7.5	19.13
10	1.0	2.55	100	10	25.5
15	1.5	3.83	150	15	38.25
20	2.0	5.1	200	20	51.0
30	3.0	7.65	300	30	75.5
40	4.0	10.2	400, 600, 750, 800, 1000, 1200, 1500, 2000	400	102.0
50	5.0	12.75			

表3 LB6-35型电流互感器允许的温升

Table 3 Temperature rise allowed for LB6-35 voltage transformer

部位 Parts	温升限值 Temperature rise limit	测量方法 Measuring method
绕组 Winding	55	电阻法和温度计法 Resistance and thermometer method
铁芯及其他结构零件表面 Surfaces of iron core and other constructed parts	55	热电偶法和温度计法 Thermocouple and thermometer method
绕组出头或接触连接处 Winding tap or contact joint	50	热电偶法和温度计法 Thermocouple and thermometer method
油顶层 Top of oil	50	温度计法 Thermometer method



LCWD, LCWD1, LCWQ, LCWQD-35 电流互感器 LCWD, LCWD1, LCWQ, LCWQD-35 Current transformer



概述 Summary

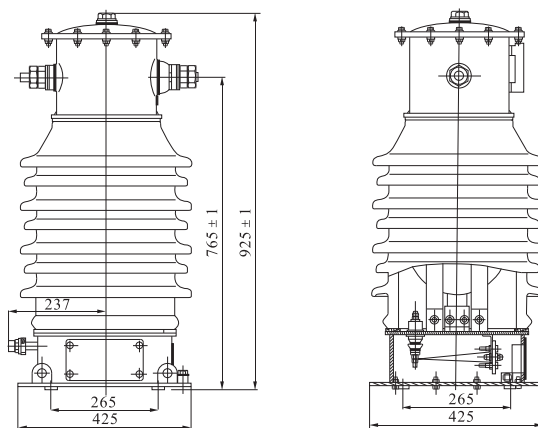
LCWB-35型电流互感器适用于50Hz的电力系统中作测量及继电保护之用，系统的线电压为35kV。

产品的安装场所为户外，安装高度海拔1000m以下，周围气温的最大变化范围为-30℃~+40℃，但不适宜安装在带有腐蚀性气体反导电尘埃的场合中。

LCWB-35 with current transformer for measurement and protection, the system is applicable to 50Hz power system line voltage is 35kV.

Product installation site for outdoor installation height of 1000m above sea level, the maximum variation range of ambient air temperature of -30℃~+40℃, but not suitable for installation in the case of conductive dust with an anti-corrosive gas in.

外形及安装尺寸图 Outline and installation dimension



11n	M(mm)	a(mm)
15~400	M22 × 1.5	40
600	M27 × 1.5	50
800~1000	M30 × 1.5	60
1200~1500	出线排 outlet bank	



技术参数 Technical parameter

表1 LCW-35、LCWD-35、LCWQ-35及LCWQD-35型电流互感器的10P级准确限值系数、最大二次电流倍数及二次绕组阻抗。

Table2 Grade 10P accurate limiting value factor, max. Multiple of secondary current and secondary winding impedance for LCW-35, LCWD-35, LCWQ-35, LCWQD-35 current transformer.

型号及级次组合 Type and accuracy gradecombination	额定一次电流 Rated primary current (A)	准确级次 Accuracy grade	额定二次负载 $\cos \phi = 0.8$ Rated secondary load (Ω)	10P 级准确 限值系数 Grade 10P accurate limit factor	最大二次电流倍数 (在额定二次负载时) Max. Secondary current multiple (at rated secondary load)	二次绕组阻抗 Secondary winding imped- ance (Ω)
LCW-35	15~1000	0.2S 0.5 10P	1 2 2	28 5	35 12	0.7 0.5
LCWD-35 LCWQD-35	15~750,1000	0.2S 0.5 10P	1.0 1.2 1.2	15 15	25 28	0.5 0.8
LCW-35	15~600	0.2S 0.5 10P	1.0 1.2 1.2	15 30	25 35	0.5 0.56
LCWD-35 LCWQD-35	15~600	0.2S 0.2 0.5 10P	0.8	35	45	0.56
	750		0.8	35	50	0.67
	1000		0.8	50	55	0.94

表2 LCW-35、LCWD-35、LCWQ-35及LCWQD-35型电流互感器的短路稳定电流。

Table3 Short circuit standing current of LCW-35, LCWD-35, LCWQ-35, LCQD-35 Current transformer .

型号 Type	额定一次电流比 Rated primary current ratio (A)	1S热稳定电流 (有效值 kA) 1S thermal standing current (kA effective value)	动稳定电流 (峰值 kA) Dynamic standing current (Peak value) (倍数) (Multiple)
LCW-35	15~1000	90In	150In
LCWD-35	15~750	65In	100In
LCWD-35	1000	65In	150In
LCWD-35 LCWQD-35	15~600	65In	100In

质量: 总质量270kg, 油质量40kg。

Mass: Total 270kg, Oil 40kg.



JDX-10 型电压互感器

JDX-10 Voltage transformer

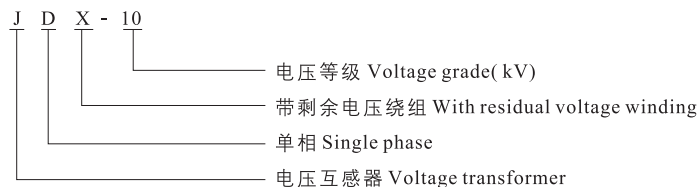


概述 Summary

本型电压互感器为单相户内油浸产品。具有容量大、精度高、绝缘可靠等特点，二次绕组有三个，分别作为计量、监控、零序保护作用。计量、监控分开，互不干扰，充分发挥各自性能。

This voltage transformer is single phase, oil-immersed product for indoors. It has many merits, such as big capability, high precision, etc. There are three secondary windings, they are used as measurement, monitoring, zero-sequence protection. The measuring and monitoring windings are separated. Fully exert their functions. Not interfere each other.

型号含义 Type designation



结构 Structure

本型电压互感器为单相油浸式结构，铁心经热处理的冷轧取向硅钢片迭装而成，并利用铁心夹件将器身固定在箱盖下。四个线圈均绕成同心式，高压两端绝缘水平不同，A端为高压绝缘，由高压瓷套管引出，N端由小瓷套引出接地。

The voltage transformer is single phase and oil immersed structure. The iron core is piled up of the silicon steel sheet. The body is fixed below the cover of the box with the core clip. The winding is reeled with concentric type. There are different insulated levels of two high voltage ends. The terminal of "A", high voltage insulation, is led out from porcelain bushing. The terminal of "N", being earthed, is led out from small porcelain sheath.

技术参数 Technical parameter

额定电压比 Rated voltage ratio (V)	准确级及额定输出 Accuracy class and rated output(VA)			极限输出 Ultimate output (VA)	额定绝缘水平 Rated insulated level(kV)
	0.2	0.5	3P		
10000/√3/100/√3/100/√3/100/3	20	25	50	500	12/42/75



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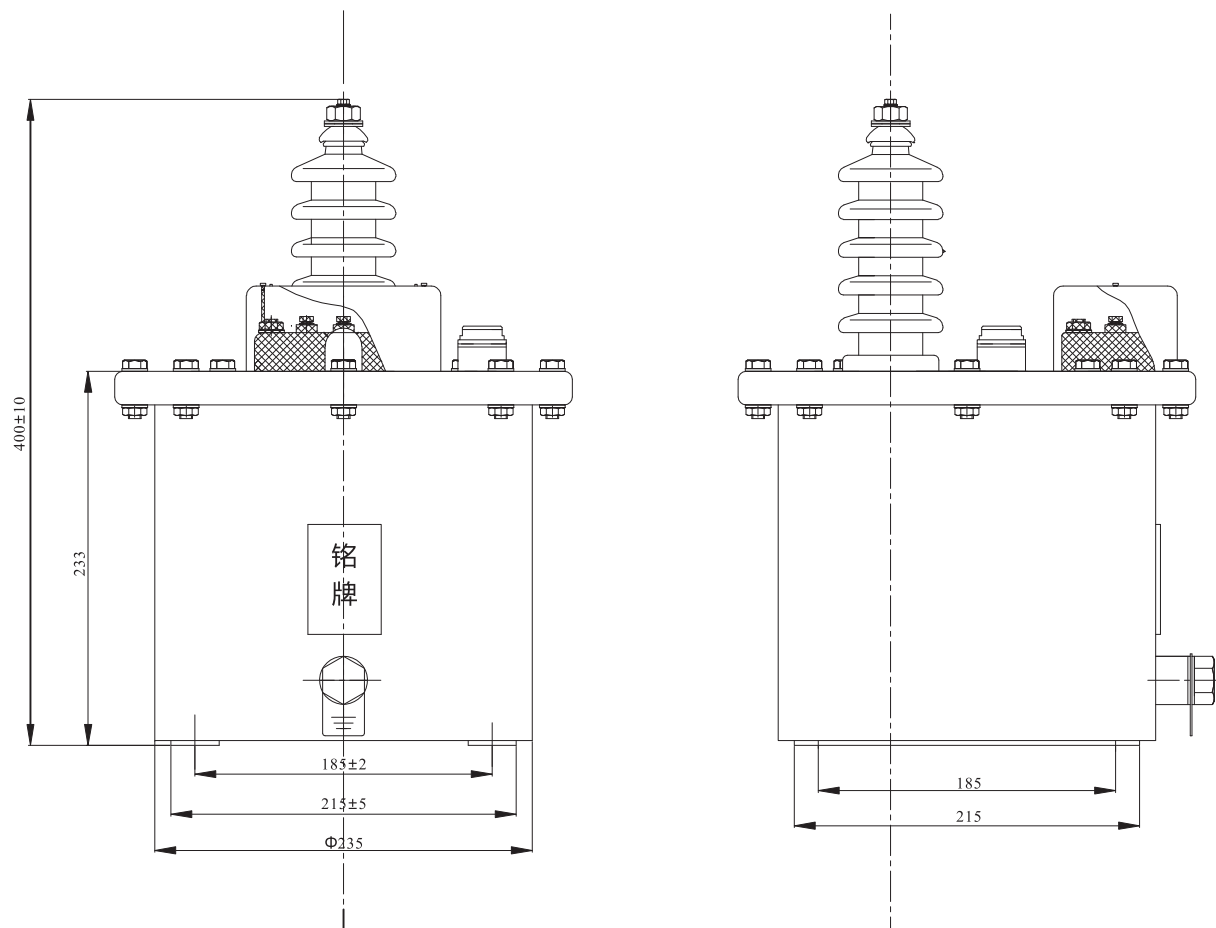
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外形及安装尺寸图 Outline and installation dimension



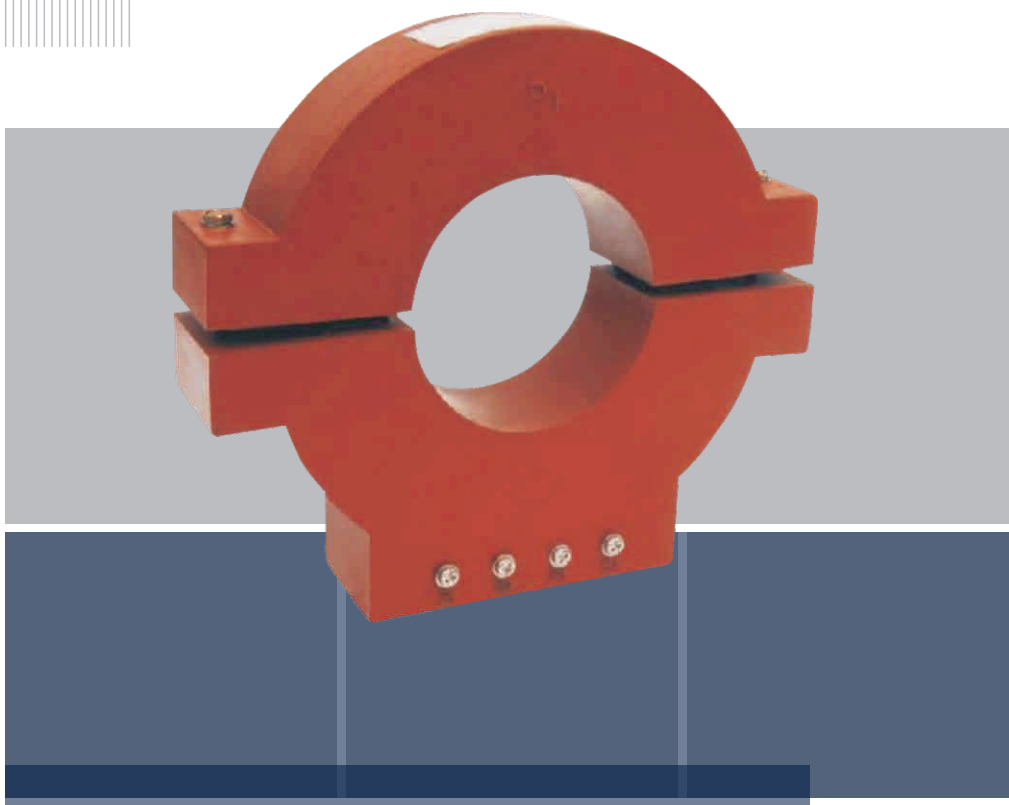
JDX-6、10外形及安装尺寸图
Overall and installation dimension drawing of JDX-6、10



Zero sequence current transformer



零序电流互感器



技术参数 Technical parameter

型号 Type	额定电压比 Rated voltage ratio (V)	额定输出 Rated output(V)			电压线圈的最大输出 Max.outpout of voltage coil (VA)	工频耐压 Power frequency withstand voltage (KV)
		0.5级 Class	1级 Class	3级 Class		
JSJW-3	3000/√3 100/√3 100/√3	50	80	150	320	24
JSJW-6	6000/√3 100/√3 100/√3	80	150	320	640	32
JSJW-10	100/3/√3 100/√3 100/√3	120	240	480	960	42

注：1.在一次绕组施加三相平衡的额定电压，剩余电压绕组开口三角形接有200VA($\cos\phi=0.8$)负载的情况下，当一次绕组任何一相在接线端和中点短接时，则开口三角形端电压应为：

(1) 二次绕组接有0.5级额定负载时为 $100 \pm 10V$ 。

(2) 二次绕组空载时为 $100 \pm 3V$ 。

2.互感器能在115%倍额定电压下长期运行。

Note:

1. Under condition of primary winding applied three-phase balance rated voltage and residual voltage winding under open " Δ " connecting with 200VA ($\cos=0.8$) load, when the wiring terminal of any phase of primary winding is short-circuit with neutral point, the terminal voltage of open " Δ " should be:

(1) $100 \pm 10V$ when the secondary winding is connected with grade 0.5 rated load;

(2) $100 \pm 3V$ when the secondary winding is empty load.

2. The transformer can work with long-term under condition of 115% of rated voltage.

外形及安装尺寸图 Outline and installation dimension

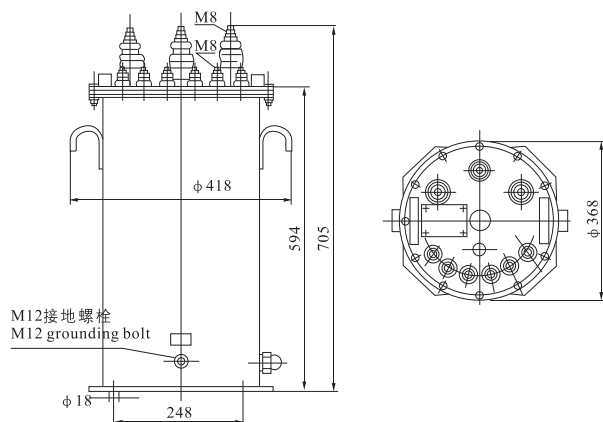


图1 JSJW-6外型及安装尺寸图
Fig1 Overall and installation dimension of JSJW-6

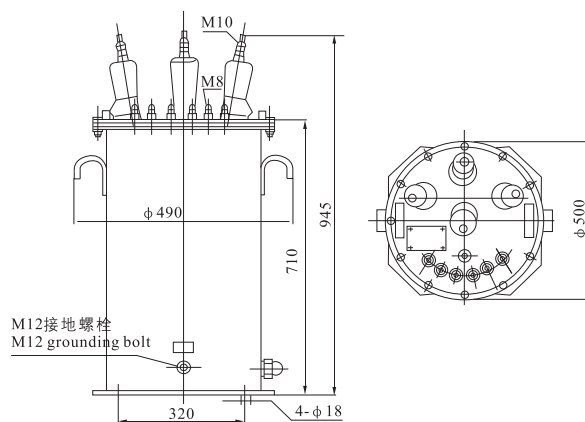


图2 JSJW-10外型及安装尺寸图
Fig2 Overall and installation dimension of JSJW-10



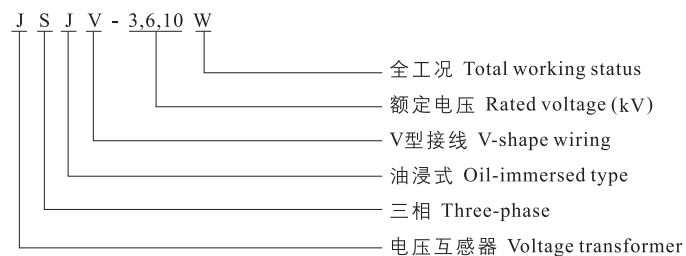
JSJV-3, 6, 10(W) 型油浸式三相电压互感器**JSJV-3, 6, 10(W) Type oil-immersed three-phase voltage transformer****概述 Summary**

本型互感器是将两台单相电压互感器按V接线方式合成一体的三相油浸式电压互感器，二次输出a、b、c端子供仪器仪表做测量使用，并设有供CT8操动机构、作电源用的绕组，二次110V、220V即为向操动机构电机供电输出端子，油箱为扁桶式，体积小，安装方便。

本型电压互感器主绕组可替代JDJ型单相电压互感器用两台V型接线方式的电气测量和电能计量，其辅助绕组极限输出为1100VA。单纯使用主绕组的电气测量和电能计量使用时，辅助绕组开路即可。

This type transformer is combined with two single-phase voltage transformers in "V"-shape and form a three-phase oil-immersed voltage transformer, the secondary output terminals a, b and c are used for measurement, also has CT8 operating mechanism and winding used for power supply, the secondary terminals 110V and 220V are output terminals for operating mechanism motor, the oil tank is oblate barrel type, so with small bulk and easy to install.

The main winding of this voltage transformer can substitute model JDJ single-phase voltage transformer to measure electric energy, the Ultimate output of subsidiary winding reaches 1100VA. The subsidiary winding should be open-circuit state if only use main winding to measure electric energy.

型号含义 Type designation**结构 Structure**

本型电压互感器为内铁型铁芯，用冷轧高导磁硅钢片叠装成三柱式铁芯框，两边柱套有两个单相电压互感器绕组，接线方式为V/V-12，供GT8型弹簧操作机构的电压绕组在两边柱上，其一边柱为110V绕组，另一边柱为220V绕组。油箱为扁椭圆桶式，体积小，安装方便，本型电压互感器的出线标记为：一次绕组出线A、B、C，二次绕组出线为a、b、c，辅助绕组出线为0、110、220，当一次绕组加有电压时，二次绕组不得短路，否则互感器将被烧毁。

This model voltage transformer applies inner iron-core, the three-pole iron-core is made of cold rolling silicon steel plate with high magnetic inductivity, the two side-poles have two single-phase winding for voltage inductor, the wiring mode is V/V-12, the voltage winding used for model GT8 spring operating mechanism are on the two side-poles, the one side-pole is 110V winding and the other is 220V winding, the oil tank is oblate barrel type, so with small bulk and easy to install. The wiring mark for this voltage inductor list as below: A, B and C for primary winding output; a, b and c for secondary winding output; "0, 110 and 220" for subsidiary winding output. The secondary winding should not short-circuit when the primary winding has voltage applied on it, or the transformer will burn out.



技术参数 Technical parameter

1、产品标准: GB20840.3-2013《电压互感器》;

2、负载功率因数: $\cos\phi=0.8$ (滞后);

3、产品表面爬电比距满足 II 级污秽等级;

4、其它技术参数见下表:

1. Standard: GB20840.3-2013 Voltage Transformer

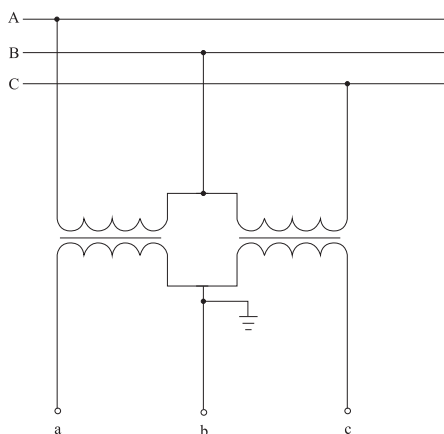
2. Power factor of load: $\cos\phi=0.8$ lagged

3. The creepage age of product surface comply with grade II pollution.

4. Other technical parameters please refer to table below .

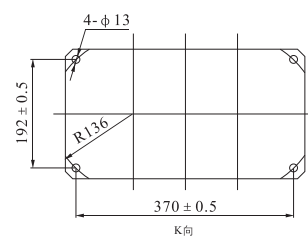
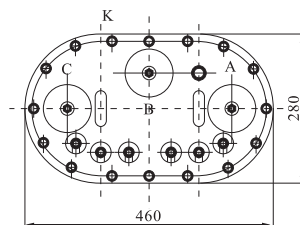
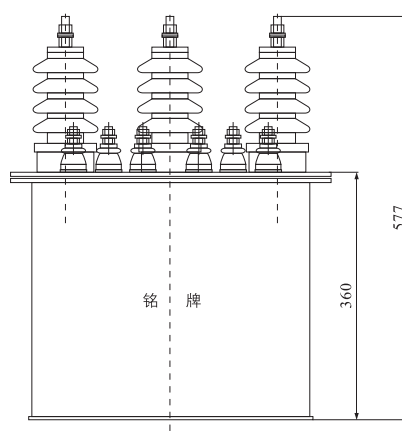
型号 Type	额定电压(V) Rated voltage	准确级组合 Accurate grade combination	额定输出(VA) Rated output				极限输出 (VA) ultimate output	额定绝缘水平 Rated insulation level
			0.2	0.5	1	3		
JSJV-3(W)	2000/100 3000/100	0.5或1或3 0.5or1or3		140	250	500	1000	3.6/25/40
JSJV-6(W)	6000/100	0.2或0.5 1或3 0.2or0.5 1or3		140	250	500	1000	7.2/32/60
			80				500	
JSJV-10(W)	1000/100	0.2或0.5 1或3 0.2or0.5 1or3		140	250	500	1000	12/42/75
			80				500	

外形及安装尺寸图 Outline and installation dimension



JSJV-10三相线路接线图

Wiring diagram for model JSJV-10 three-phase circuit



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JSJB-3, 6, 10 电压互感器 JSJB-3, 6, 10 Voltage transformer



概述 Summary

本型电压互感器为三相双绕组油浸式户内型产品，适用于交流50Hz、10kV及以下线路，供测量电压、电能和功率以及继电保护用。

This voltage transformer is of three-phase double-winding oil-immersed indoor type, suitable for power system with AC 50Hz, rated voltage 10KV or below to measure voltage, electric energy and protect relay.

结构 Structure

本型电压互感器为三相双绕组油浸式，铁芯为内铁式，由三个柱组成，由三个柱组成。电压互感器的三相绕组分别装设在三个柱上，油箱为圆筒形，瓷套均在箱盖上引出，器身固定在箱盖上，油面距离箱盖内面10~15mm。

本型电压互感器接线见图3-1-19。一次绕组接成Z形，即以每相绕组与匝数较少的另一相补偿绕组连接，这样接法是为了提高互感器的准确级次，从而减少互感器的误差，二次绕组接成Y型，并将中线引出。

This voltage transformer is three-phase double-winding oil-immersed type, its inner iron-core consists of three poles, the three windings are separately mouted on these three poles, the oil tank is circular barrel type, the porcelain sheath is led out from the tank cover, the transformer is fixed on the cover. the oil level is about 10-15mm inner of cover of tank.

Please refers to Diagram 3-1-19 for wiring. The primary winding is connected with Z-shape, i.e. Every winding connecting to other subsidiary winding with less number of turns. This connecting method can improve the accuracy class and decrease error of transformer, the secondary winding is connected with Y-shape and the neutral wire should be led out.

技术参数 Technical parameter

型号 Type	额定电压(V) Rated voltage		二次绕组额定容量 Rated capacity for secondary winding (VA) (COSΦ=0.8),			二次绕组极限容量 Ultimate capacity for secondary winding (VA)	绕组连接组标号 mark of wising connection group	重量 weight (kg)
	一次绕组 Primary winding	二次绕组 Secondary winding	0.5级Grade	1级Grade	3级Grade			
JSJB-6	6000	100	80	150	320	640	Y/Y0-12	48
JSJB-10	10000	100	120	200	480	960		105

注：1.高低压的相序应为A-B-C，a-b-c，否则准确级次有异。

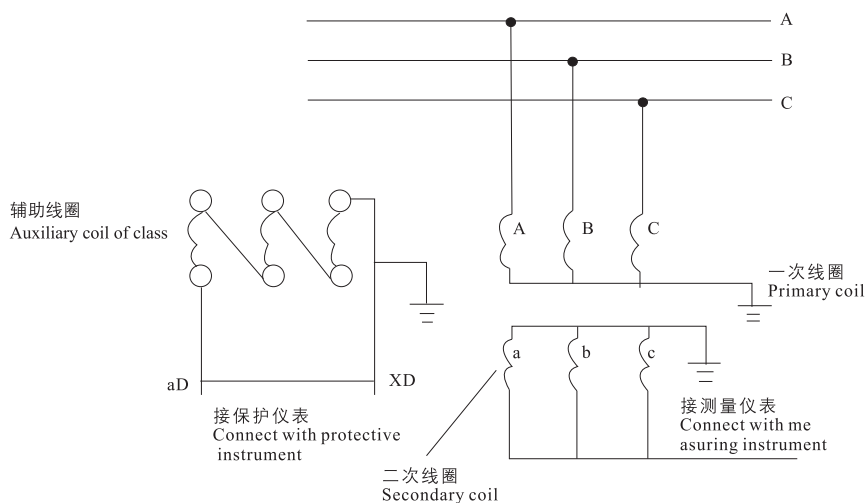
2.本型电压互感器能在115%额定电压下长期运行。

Note: 1. The phase sequence for high- or low-voltage is A-B-C and a-b-c, or the accuracy should be different.

2. This type of voltage transformers can work with long-term under condition of 115% of rated voltage.



接线图 Wiring diagram



外形及安装尺寸图 Outline and installation dimension

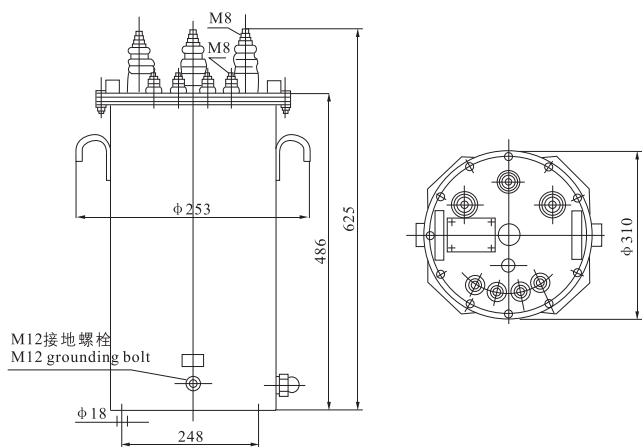


图1 JSJB-6 外形及安装尺寸图
Fig1 Overall and installation dimension of JSJB-6

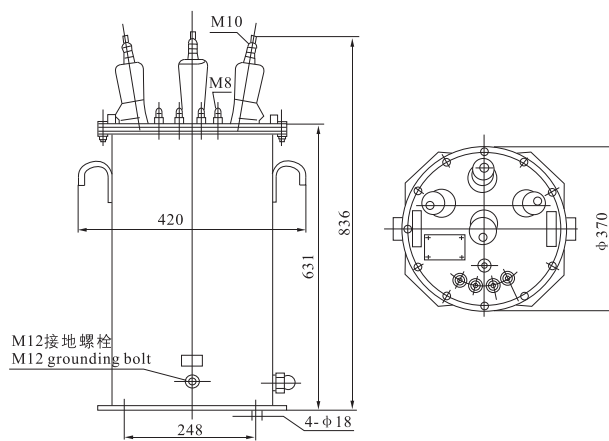


图2 JSJB-10 外形及安装尺寸图
Fig2 Overall and installation dimension of JSJB-10

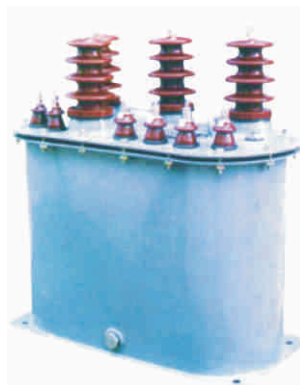


SANAI
transformer
三爱互感器LONG YOU
transformer
三友互感器

ISO9001国际体系认证企业

中国人民保险公司质量承保

JSZW-10 户外型电压互感器 JSZW-10 Outdoor voltage transformer

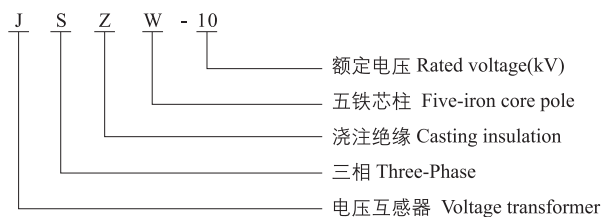


概述 Summary

JSZW-10型电压互感器供额定频率50Hz，额定电压为10kV及以下的中性点非有效接地电力系统中作电压、电能测量和继电保护之用。

JSZW-10 three-phase five-pole type voltage transformer is used for measurement of voltage and electric energy as well as relay protection in neutral ineffective earthing electric system of rated frequency 50Hz and rated voltage 10KV or below.

型号含义 Type designation



结构 Structure

本型互感器的为三相五柱式，由条形冷轧硅钢片迭装而成。其中间三柱分别套入A、B、C三相线圈，另二柱铁芯相地间短路时产生零序磁通，每相的线均由一次线圈，二次线圈及零序电压线圈构成，一次线圈分为两段，段间由绝缘纸圈隔开，一次线圈与二次线圈均按Y0接线，零序电压线圈，接在成开口三角形。

This transformer is of three-phase five-pole type, laminated with cold rolled silicon steel strap. Respectively insert three-phase coils A,B and C into its central three mandrils. Zero-sequence magnetic flux will be caused due to the earthing short circuit of other two iron mandrils. The wire in each phase wire consists of primary coil, secondary coil and zero-sequence voltage coil. Primary coil is divided into 2 sections and separated by isolation washer in the middle. Connect the wires of primary coil and secondary coil according to Y0. Connect the zero-sequence voltage coil to open triangle.



1、互感器的零序电压线圈性能如下:

在一次线圈施加三相平衡的额定电压，零序电压线圈开口三角接有200VA($\cos \phi = 0.8$)负荷的情况下，当一次线圈任何一相线端和中点短接，则开口三角形为：

- (1)二次线圈接在0.5级额定负荷时为 $100 \pm 10\text{V}$;
- (2)二次线圈接在110%倍额定电压下长期运行。

1、The zero-sequence voltage coil performances of transformer are as follows:

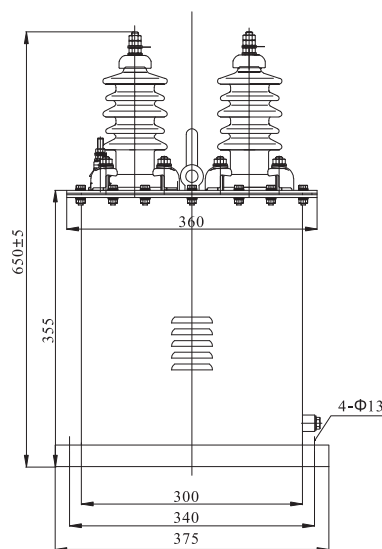
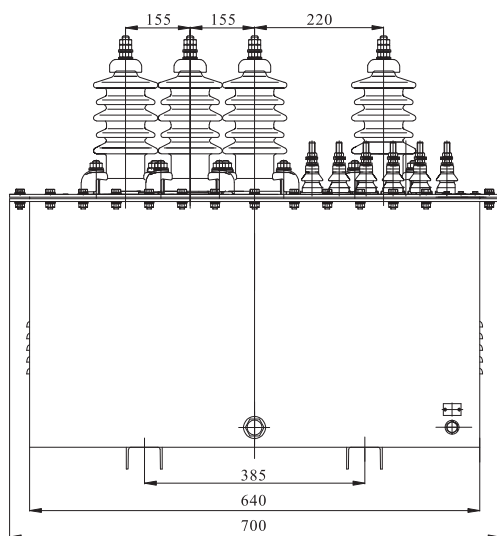
Apply three-phase balance rated voltage to primary coil. When zero-sequence voltage coil open triangle is connected with 200VA load ($\cos \phi = 0.8$) and short circuit of any phase wire end and midpoint of primary coil occurs, then the open triangle will be:

- (1) $100 \pm 10V$ when secondary coil is connected with class 0.5 rated load;
- (2) Secondary coil can operated for long time under 110% of rated voltage.

技术参数 Technical parameter

型号 Type	额定电压比 Rated voltage ratio (V)	额定输出 Rated output(V)			电压线圈的最大输出 Max.outpout of voltage coil (VA)	工频耐压 Power frequency withstand voltage (KV)
		0.5级 Class	1级 Class	3级 Class		
JSJW-3(Q)	3000/√3/100/√3/100/√3	50	80	150	320	24
JSJW-6(Q)	6000/√3/100/√3/100/√3	80	150	320	640	32
JSJW-10(Q)	10000/3/√3/100/√3/100/√3	120	240	480	960	42

外形及安装尺寸图 Outline and installation dimension



JSJW-10户外型 Outdoor

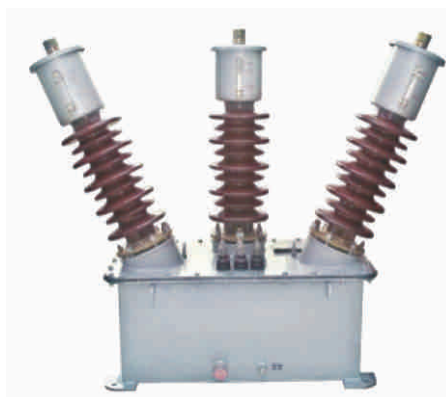


SANAI
transformer
三爱互感器LONG YOU
transformer
三友互感器

ISO9001国际体系认证企业

中国人民保险公司质量承保

JSJV-35GYW1 型电压互感器 JSJV-35GYW1 Voltage transformer

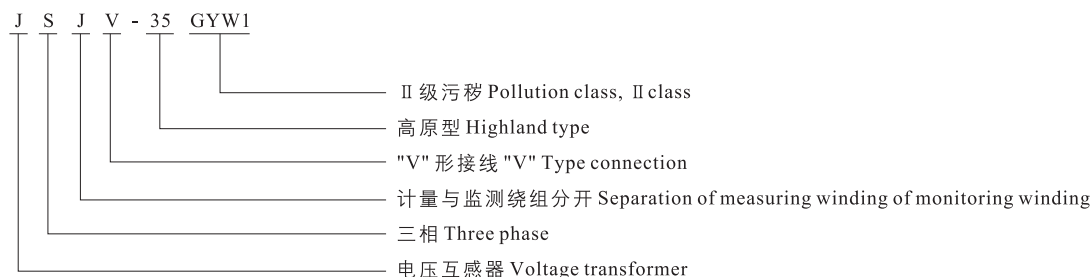


概述 Summary

本系列电压互感器为三相油浸全绝缘产品，适用于额定频率50Hz或60Hz、额定电压35kV的电力系统中，作电能计量、电压监测和继电保护用。

The voltage transformer is three phase and oil-immersed product. It is used for metering energy, voltage control protection in the electric system of rated frequency 50Hz or 60Hz and rated voltage 35kV.

型号含义 Type designation



结构 Structure

本系列电压互感器由两台单相电压互感器接成“V”型，且置于一个箱体内，器身用夹件固定在箱盖上，箱盖上装有一次及二次套管等，油箱用钢板焊成，油箱壁下部装有接地螺栓及放油塞，箱底有四个安装孔。

This voltage transformer is made of two single-phase voltage transformer connected "V" type, and placed in same box. The body is fixed on the box's cover with clamp, primary and secondary bushings are mounted on box cover, the oil tank is welded with steel plate, there is a grounding bolt and oil-drain plug mounted at the lower part of oil tank, and there are four mounting holes at the bottom of oil tank.

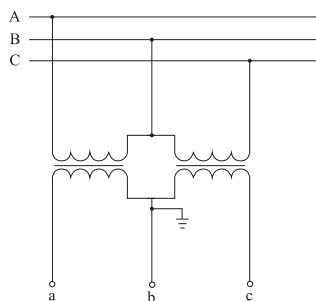
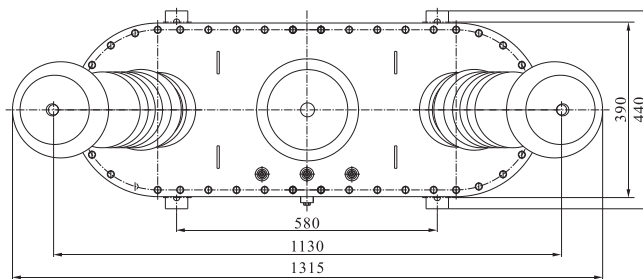
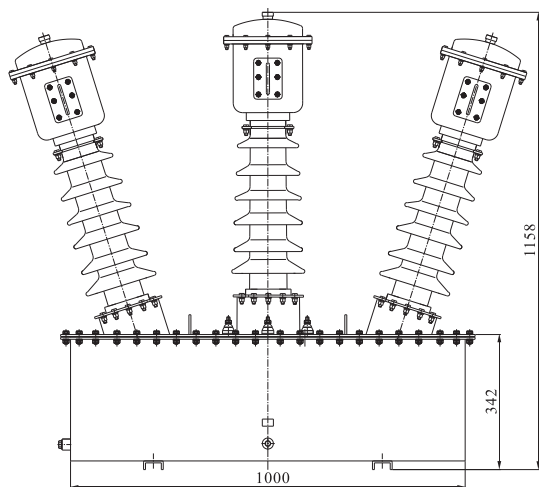


技术参数 Technical parameter

1. 额定绝缘水平 Rated insulated level: 40.5/85/185kV
2. 技术参数表 Technical data form
3. 污秽等级: II 级 Antipollution class: II class

额定电压比 Rated voltage(V)	准确级及相应的额定输出 Accuracy class and corresponding rated output(VA)		极限输出 ultimate output(VA)
	0.2	0.5	
35000/100	50	80	200
35000/100/100	25	30	500

外形及安装尺寸图 Outline and installation dimension



JSJV-35三相线路接线图
Wiring diagram of JSJV-35 three-phase circuit

