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Transformer



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- Loadbreak Switch
- Switchgear
- Fuse Cutout
- Cable Accessories
- Vacuum interrupter



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XIKAI

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Transformer

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LJWD-10 户外电流互感器 Outdoor current transformers

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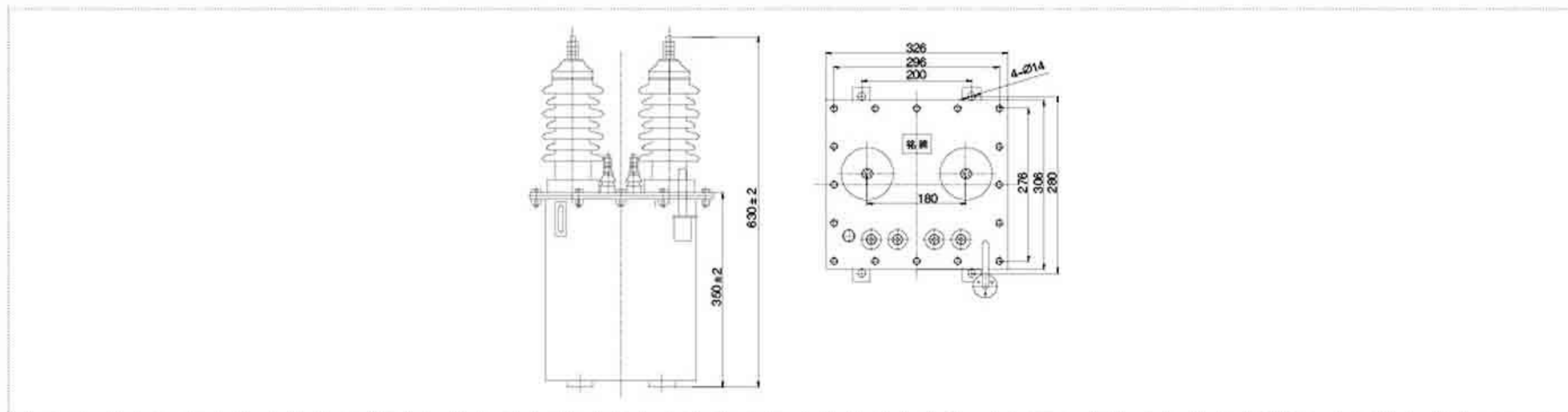
型号含义 / Type description



技术参数 / Technical data

准确级次 Accuracy Class	额定频率 Frequency(Hz)	额定电流比 Rated current Ratio(A)	额定次级容量 (VA) Rated secondary capacity	额定初级电压 (kV) Rated primary Voltage
0.2 0.5 3 D	50	5/5 15/5 15/5 20/5 30/5 40/5 50/5 75/5 100/5 150/5 200/5 300/5 400/5	15	10

外形及安装示意图 / Outline dimension



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LVQB(T)-35/66/110/220 型六氟化硫气体绝缘电流互感器 type SF6 gas insulated current transformer



产品简介 / Introduction

LVQB(T)-35/66/110/220 型电流互感器是我厂在参考国内外同类产品的基础上自主研制开发的一种 SF6 气体绝缘独立式倒置结构电流互感器, 该产品具有油浸式互感器无法具有的优越性: 采用高耐电强度 SF6 气体作为绝缘介质、绝缘性能好、使用寿命长、生产周期短、工艺简化、无油、免维护、运行更加安全可靠, 能满足现代电网对输变电设备提出的高可靠性要求。

LVQB(T)-35/66/110/220 type current transformer is a kind of SF6 gas insulated independent current transformer with inverted structure researched and developed by our factory on the basis of similar products at home and abroad, it adopts SF6 gas of high electric-strength as the insulating medium, when comparing with oil-immersed transformer, this product has advantages of good insulating performance, long service life, short production cycle, simplified processes, oil free, maintenance free, safe and reliable running, it meets the modern power grid's high reliability requirements to the power transmission and transformation equipment.

结构特点 / Characteristic of structure

产品采用倒置式结构, 由壳体、防爆片、器身、套管、底座、密度继电器等部件组成。产品内部带有改善电场的屏蔽件, 二次引线接在密闭的接线盒内, 壳体有三通式壳体和钟罩式壳体两种。

主绝缘采用同轴圆柱形均匀电场结构。一次导杆、二次屏蔽相互构成同轴圆柱形均匀电场。改变电流比, 可采用一次串并联方式; 也可采用一次并联, 所有变比从二次抽头获得。

壳体上部加装了防爆片。SF6 气体绝缘互感器的内绝缘具有很高的可靠性, 一般情况下是不可能产生内部绝缘故障电弧的, 但考虑到不可预见的意外因素可能引起的内部电弧, 作为设备的一种安全措施, 特加装了防爆片。

外绝缘套管: 220kV 及以下产品采用高强度瓷套或高温硫化硅橡胶复合空心绝缘套管, 可承受 1.6MPa 的额定压力 (破坏压力 >4.0MPa)。

产品底座内安装了 SF6 气体密度继电器, 产品额定压力为 0.4MPa, 当产品内部压力为 0.35MPa 时, 密度继电器发出报警信号; 在 0.30MPa 时, 密度继电器会再一次发出报警信号。六氟化硫 (SF6) 密度继电器具有自动温度补偿功能, 在 -40°C ~ +60°C 范围内指示的压力值是室温 (20°C 下的压力值 (密度))。密度继电器配有专用单向自封阀, 压力表拆除后, 阀门自动关闭。

产品密封性能是 SF6 电器产品最关键的问题, 产品采用了成熟的密封结构设计, 严格的限位密封, 采用优质的密封材料, 同时为保证密封性能的长期性, 采用了密封胶和防水胶, 保证产品年泄露率 ≤ 0.5%, 确保产品长期安全运行。

一次接线端子采用整体压铸成型, 机械强度高。

The product adopts inverted structure, is composed of shell, explosion-proof sheet, machine body, bushing, base, density relay and other parts; there is shielding part inside the product that is used to improve the electric field, the secondary lead wire is connected in an airtight junction box, the shell can be divided into tee type and bell-jar type two types.

Main insulation part adopts structure of coaxial columned uniform electric field. Primary guide rod and secondary shielding part form the coaxial columned uniform electric field mutually. Adopt primary series and parallel connection mode to change the current ratio, also could adopt primary parallel connection, all transformation ratios are got from the secondary tap.

Upper part of the shell is equipped with explosion-proof sheet. Internal insulation of SF6 gas insulated transformer boasts of high reliability, generally, it is impossible to have internal insulating fault arc, but considering internal arc may be caused by unpredictable accidental factors, we equip it with a

explosion-proof sheet as a kind of safety measures.

External insulating bushing: products up to and including 220kV adopt high-strength porcelain bushing or HTV rubber composite hollow insulating bushing, it is able to withstand rated pressure of 1.6MPa (breaking pressure >4.0MPa)

LVQB(T)-35/66/110/220 型六氟化硫气体绝缘电流互感器 type SF6 gas insulated current transformer

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Base of the product is equipped with SF6 gas density relay, rated pressure is 0.4MPa, when the internal pressure of product is 0.35MPa, density relay will give an alarm; when the pressure is 0.30MPa, density relay will give another alarm. SF6 density relay has automatic temperature compensation function, the indicated pressure value at -40°C ~+60°C equals to the pressure value (density) at room temperature (20°C). Density relay is equipped with special nonreturn self-sealing valve, when the pressure gauge is removed, the valve will close automatically.

Sealing performance is the most important problem of SF6 electrical apparatuses, the product adopts mature sealing structure design and strict position-limit sealing, employs high quality sealing materials. meanwhile, it adopts sealant and waterproof adhesive to ensure long-term sealing performance, guarantee annual leakage rate of product is $\leq 0.5\%$, make sure long-term safety running of product.

Primary connection terminal adopts integral die-casting forming, has high mechanical strength.

技术参数 /Technical data

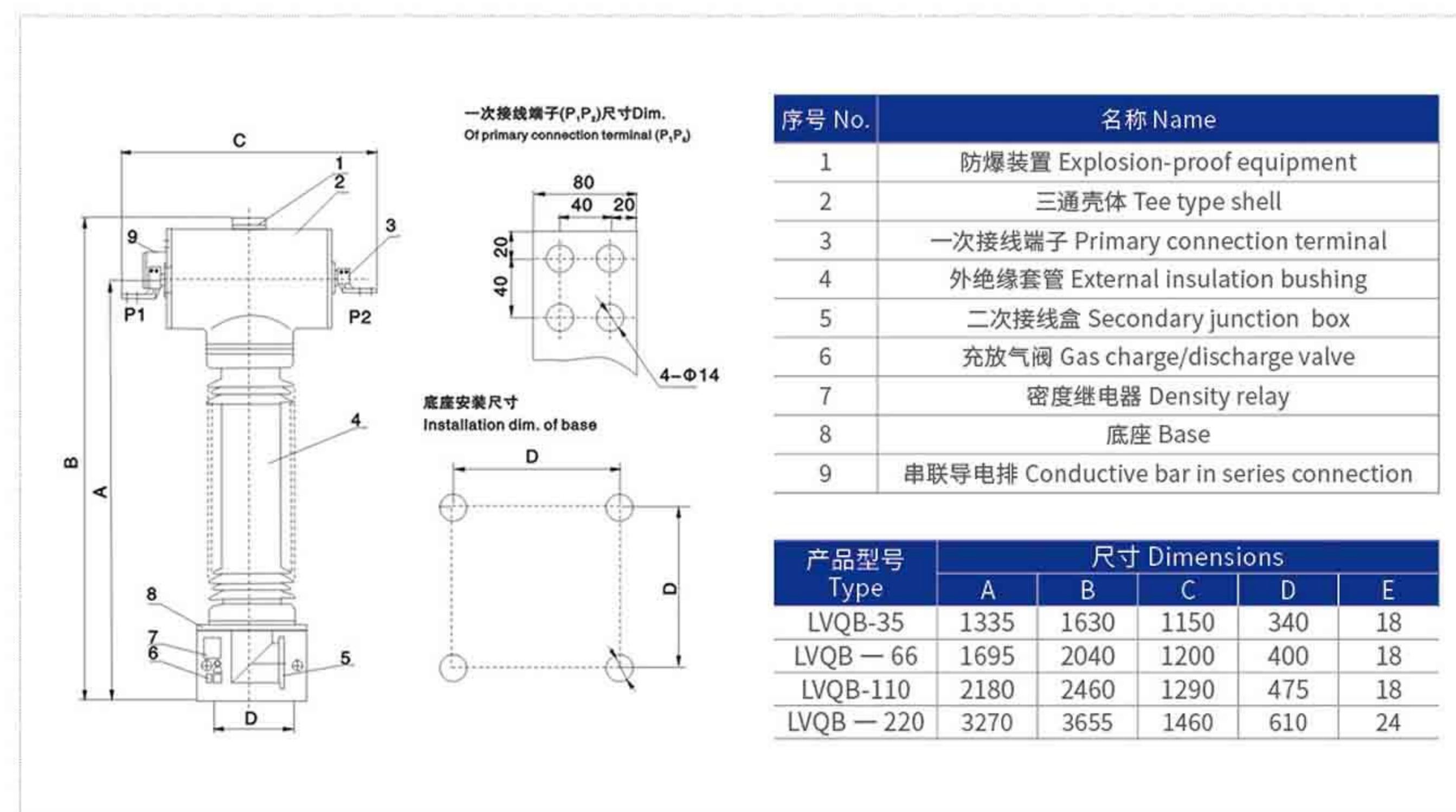
- (1) 海拔: 不超过 2000m(超过 2000m 的产品另行设计)
- (2) 环境温度: 最高 +50/ 最低 -40°C日平均温度不超过 30°C
- (3) 最大月平均相对湿度 :90%
- (4) 10min 平均最大风速 :35m/s
- (5) 最大覆冰厚度 :10mm
- (6) 污秽等级: III、IV级
- 2、设备最高电压 :40.5/72.5/126/252kV
- 3、额定频率 :50Hz
- 4、额定一次电流 :300~4000A
- 5、额定二次电流 :1A 或 5A
- 6、二次组合 :0.2、0.2S、0.5、0.5S、5P、TPY、TPS 等级次任意组合
- 7、额定输出 :0.2 级、0.2S 级、0.5 级、0.5S 级、5 P 级 :20~60VA
TPY 级 :10~20Ω
- 8、准确限值系数 :20~40
- 9、仪表保安系数 : ≤ 5
- 10、TPY 级准确限值条件 :
a、一次时间常数 $T_p=100\text{ms}$ 或 60ms
b、短路电流直流分量 100%(即全偏移)
c、规定的工作循环 :C-0.1s-0-0.5S(或 0.4S)-C-0.1s-0
(保证准确级时间均为 0.4s)
d、对称短路电流倍数 :10、15、20
- 11、额定绝缘水平 :35kV 电流互感器 :40.5/95/185kV
66kV 电流互感器 :72.5/140/325kV
110kV 电流互感器 :126/200/480kV
220kV 电流互感器 :252/395/950kV
- 12、短时热电流 :50-63kA、3S
- 13、额定动稳定电流 :125-160kA(峰值)
- 14、零表压水平 :1.3 倍设备最高工作电压
- 15、局部放电水平 :1.2 倍设备最高工作电压下 $\leq 5\text{pC}$
- 16、年漏气率 : $\leq 0.5\%$
- 17、SF6 气体含水量 : $\leq 150 \times 10^{-6}(\text{V/V})$
- 18、无线电干扰水平 :1.1 倍设备最高工作电压下, 无线电干扰电压 $\leq 500\mu\text{V}$
- 19、外绝缘爬电比距 :25mm/kV 或 31mm/kV
- 20、一次端子静态承受载荷 :2000N-6000N
- 21、产品最大总质量 :35kV 电流互感器 :450kg(其中 SF6 气体质量 4kg)
66kV 电流互感器 :500kg(其中 SF6 气体质量 5kg)
110kV 电流互感器 :60kg(其中 SF6 气体质量 7kg)
220kV 电流互感器 :1400kg(其中 SF6 气体质量 23kg)

- (1)Altitude: not exceed 2000m
(the ones exceed 2000m shall be designed separately)
- (2)Ambient temperature: -40°C ~+50°C , daily mean temperature not exceeds 30°C
- (3)Max monthly mean relative humidity:90%
- (4)10min max average wind velocity: 35m/s
- (5)Max ice coating thickness: 10mm
- (6)Class of pollution: III、IV Class
- 2.Max voltage of equipment: 40.5/72.5/126/252kV
3. Rated frequency: 50Hz
4. Rated primary current: 300 ~4000A
5. Rated secondary current: 1A or 5A
- 6.Secondary combination: 0.2、0.2S、0.5、0.5S、5P、TPY、TPS
Class combination at random
- 7.Rated output:0.2 class、0.2S class、0.5 class、0.5S class、
5P class: 20-60VA TPY class: 10~20Ω
8. Accuracy limit factor:20 ~40
9. Instrument security factor: ≤ 5
10. Accuracy limit condition of class TPY:
a.primary time constant $T_p=100\text{ms}$ or 60ms
b.short-circuit current direct component 100%(i.e. full migration)
c.specified working cycle: C-0.1 s-0-0.5S(or 0.4S)-C-0.1s-0
(guarantee all accuracy class times are 0.4s)
d.symmetrical short-circuit current multiple: 10、15、20
11. Rated insulating level: current transformer of 35kV;
Current transformer of 66kV: 72.5/140/325kV
Current transformer of 110kV: 126/200/480kV
Current transformer of 220kV: 252/395/950kV
- 12.Short-time thermal current: 50-63kA、3S
13. Rated peak withstand current: 125-160kA (peak)
14. Withstand voltage level under zero gauge pressure: 1.3 times
of max working voltage of equipment
- 15 Partial discharge level: 1.2 times of max working voltage
of equipment $\leq 5\text{pC}$
- 16.Annual gas leakage rate: $\leq 0.5\%$
- 17.Water content of SF6 gas:150x10⁻⁶(V/V)
18. Radio interference level: 1.1 times of max working voltage
of equipment, radio interference voltage $\leq 500\mu\text{V}$
- 19.Specific creepage distance of external insulation: 25mm/kV or 31mm/kV
- 20.Static bearing load of primary terminal: 2000N-6000N
21. Max total mass of product: current transformer of 35kV: 450kg
(thereinto mass of SF6 gas is 4kg)
Current transformer of 66kV: 500kg (thereinto mass of SF6 gas is 5kg)
Current transformer of 110kV: 60kg (thereinto mass of SF6 gas is 7kg)
Current transformer of 220kV: 1400kg (thereinto mass of SF6 gas is 23kg)

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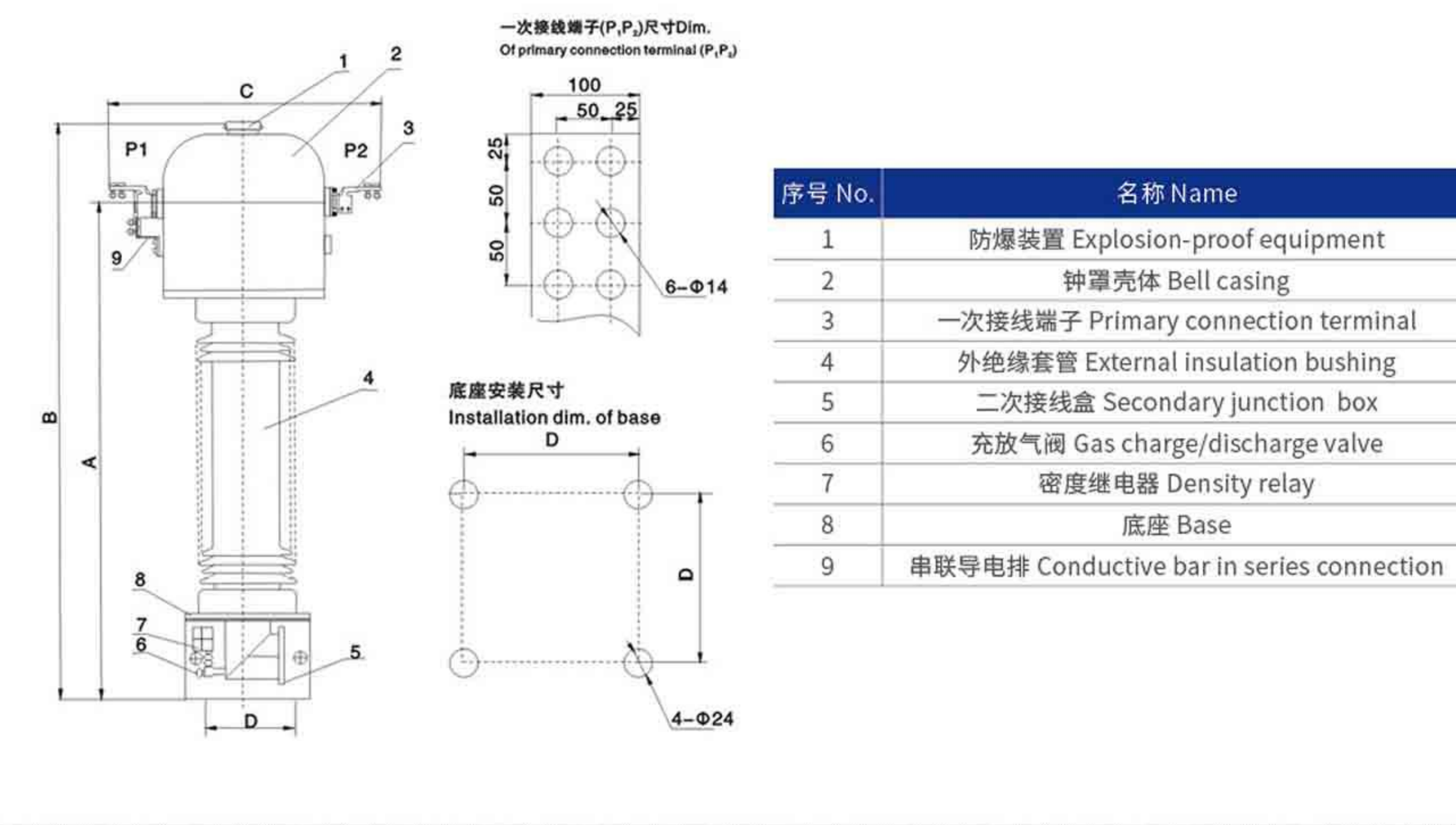
LVQB(T)-35/66/110/220 型六氟化硫气体绝缘电流互感器 type SF6 gas insulated current transformer

外形及安装示意图 /Outline dimension



LVQB-35~220 型气体绝缘电流互感器

LVQB-35~220 type gas insulated current transformer



LRGBJ-35/66/110/220 干式绝缘电流互感器
Dry type insulated current transformer



▶ 使用环境条件 /Working environment

户内外均可使用

环境温度：最高温度 +40℃，最低温度 -40℃

海拔高度: $\leq 1000\text{m}$ (超过 1000m 时, 供需双方约定) 污秽等级: II、III、IV级

Applicable for both indoor and outdoor

Ambient temperature: max temperature +40°C , min temperature -40°C

Altitude: <1000m (when the altitude exceeds 1000m, the two parties shall negotiate to reach an agreement)

Class of pollution: class II , III , IV

▶ 技术参数 / Technical data

额定电压:35~220KV

额定频率:50Hz

额定一次电流:15~2x2000A

额定二次电流:1A, 5A

额定输出:20VA~50VA

准确级:0.2S、0.2、0.5S、0.5或5P、10P级

准确限值系数:10、15、20、25、30

仪表保安系数:5、10

绕组个数:1~6

Rated voltage: 35-220KV

Rated frequency: 50Hz

Rated primary current: 15~ 2x 2000A

Rated secondary current: 1A, 5A

Rated output: 20VA~ 50VA

Accuracy class:0.2S、0.2、0.5S、0.5or5P、10Pclass

Accuracy limit factor: 10, 15, 20, 25, 30

Instrument security factor: 5、10

Winding number:1~6

LRGBJ-35/66/110/220 干式绝缘电流互感器
Dry type insulated current transformer

▶ 技术参数 / Technical data

表 1(table1)

型号 Type	额定一次电流 (A) Rated primary current	额定二次电流 (A) Rated secondary current	测量级 Measurement class			保护级 Protection level			额定短时热电流 (KA) Rated short-time thermal current	额定动稳定电流 (kA) Rated dynamic Current	绕组温升限值 (K) Temperature-rise limit of winding	机械强度 (N) Mechanical strength	总重 (kg) Total weight	外形图 Outline drawing
			组数 / 准确级 Group number/accuracy class	仪表保安系数 (FS) Instrument security factor	额定输出 (VA) Rated output 满匝 Full turn	组数 / 准确级 Group number/accuracy class	准确限值系数 (ALF) Accuracy limit factor	额定输出 (VA) Rated output 满匝 Full turn						
LRGBJ-220	2x300	5 或 (or) (1)	二组 (Two-group) /0.5 或 (or)0.5S 0.2 或 (or)0.2s	≤ 5 或 (or) ≤ 10	50(30)	四组 (Four-group)/5P 或 (or)10P	10-30	50(30)	50	125	≤ 85	4000 60S	640	图 1 (drawing1)
	2x600								50	125				
	2x750								63	160				
	2x2000													
LRGBJ-110	2x50	5 或 (or) (1)	二组 (Two-group) /0.5 或 (or)0.5S 0.2 或 (or)0.2s	≤ 5 或 (or) ≤ 10	50(30)	四组 (Four-group)/5P 或 (or)10P	10-30	50(30)	12.5	31.5	≤ 85	2000 60S	240	图 2 (drawing2)
	2X75								15.8	40				
	2X100								21	54				
	2X200								31.5	80				
	2X300								31.5	80				
	2X600								50	125				
	2X1500								50	125				
LRGBJ-66	2x50	5 或 (or) (1)	二组 (Two-group) /0.5 或 (or)0.5S 0.2 或 (or)0.2s	≤ 5 或 (or) ≤ 10	50(30)	三组 (Three-group)/5P 或 (or)10P	10-30	50(30)	12.5	31.5	≤ 85	2000 60S	200	图 3 (drawing3)
	2x75								15.8	40				
	2x100								21	54				
	2x200								31.5	80				
	2x300								31.5	80				
	2x600								50	125				
	2x1500								50	125				
LRGBJ-35	5~2x50	5 或 (or) (1)	二组 (Two-group) /0.5 或 (or)0.5S 0.2 或 (or)0.2s	≤ 5 或 (or) ≤ 10	40 (20)	二组 (Two-group)/5P 或 (or)10P	10-30	40 (20)	100 1In	250 1In	≤ 85	2000 60S	90	图 4 (drawing4)
	15、250								125 1In	315 1In				
	2x300								31.5	80				
	600、1250								40	100				
	2x750-2x1500								50	125				

注:表中额定输出栏中()内数字为1A时的额定输出

Note: digits in () of the output column in the table represents the rated output at 1A

表 2(table2)

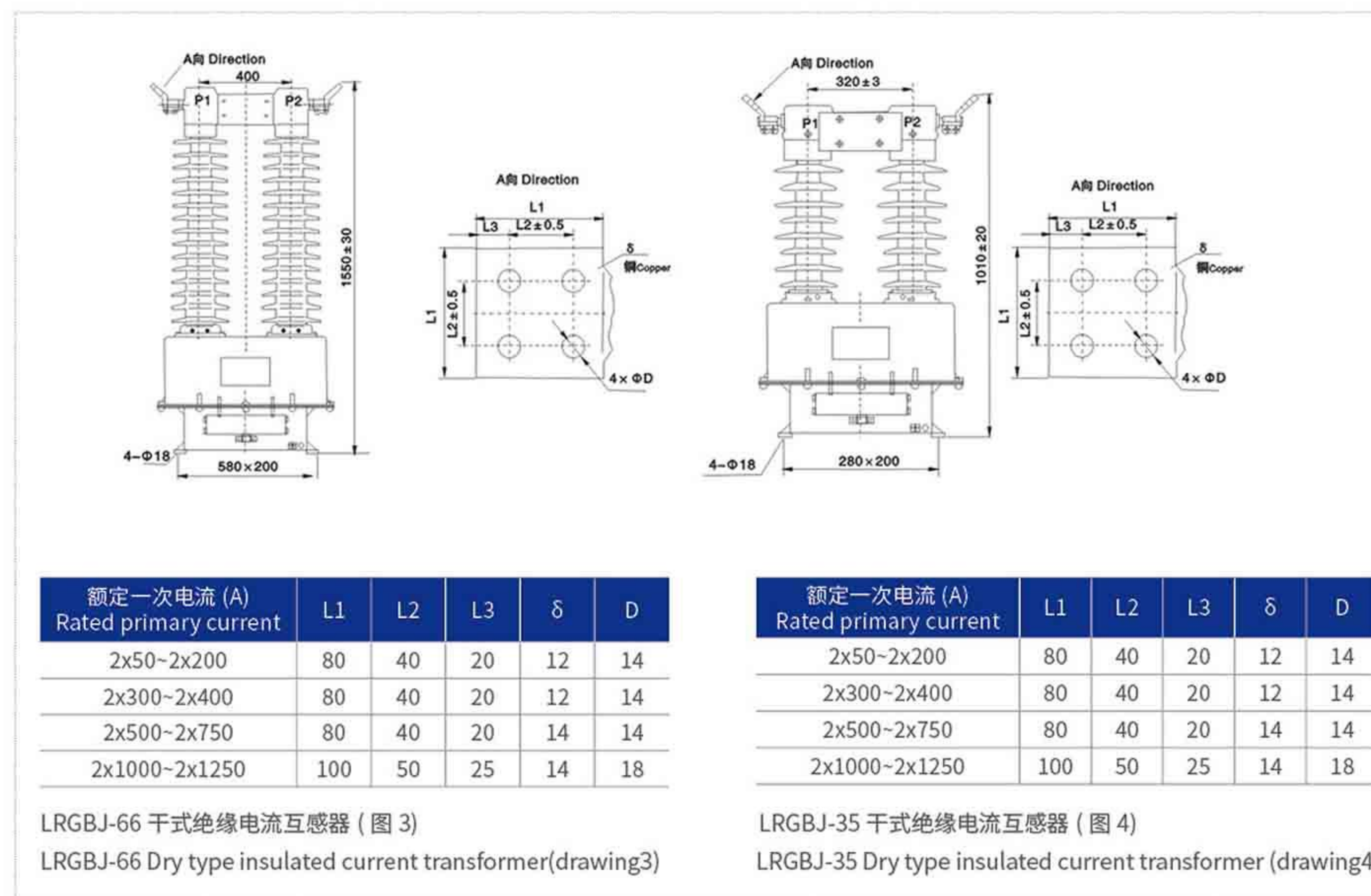
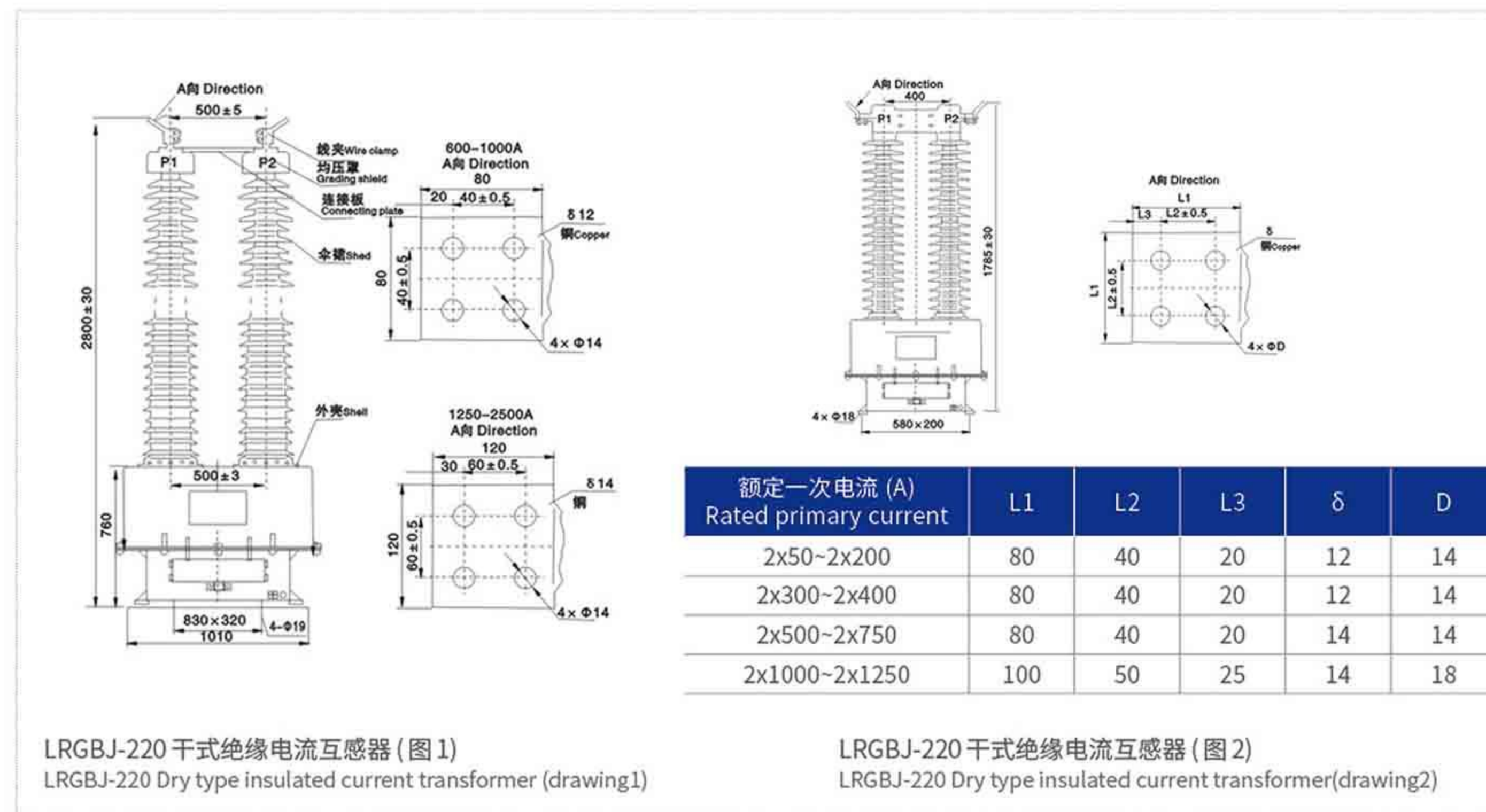
型号 Type	设备最高电压 (KV) Max voltage of equipment	工频耐受电压 (KV) Power frequency withstand voltage	雷电冲击耐受电压 (KV) Lightning impulse withstand voltage	雷电截波试验电压 (KV) Lightning chopped wave test voltage	局部放电量 (pc) Partial discharge quality	介质损耗因数 (tan δ)Dielectric dissipation factor
LRGBJ-220	252	460	1050	1207	≤ 10	≤ 0.002
LRGBJ-110	126	230	550	632	≤ 10	
LRGBJ-66	72.5	160	325	-	≤ 10	
LRGBJ-35	40.5	95	185	-	≤ 10	

LRGBJ-35/66/110/220 干式绝缘电流互感器

Dry type insulated current transformer

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外形及安装示意图 /Outline dimension



TYD35~500kV 电容式电压互感器

Capacitor voltage transformer

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产品简介 /Introduction

电容式电压互感器被广泛应用在交流电力系统中, 供测量、控制、保护及高频载波通讯之用。
Capacitor voltage transformers are widely applied to AC power systems. used for measurement, control, protection and high-frequency carrier communication.

产品结构 /Product mix

电容式电压互感器由电容单元和电磁单元组成。电容单元由电容分压器和耦合电容器组成, 电容分压器和耦合电容器均为高压电瓷外壳, 外壳内装电容心子, 心子由若干元件串联组成, 采用外油内置式金属膨胀器, 作温度补偿用。电容器的液体介质为电容器油。电磁单元由油箱、中间变压器、补偿电抗器、阻尼器等组成。二次端子通过接线板引至油箱外壁的端子盒内。
A capacitive voltage transformer consists of a capacitor unit and an electromagnetic unit. The capacitor unit is composed of a capacitor voltage divider and a coupling capacitor. The capacitor voltage divider and coupling capacitor are both high-voltage ceramic shells, with a capacitor core installed inside the shell. The core is composed of several components in series, and an external oil built-in metal expander is used for temperature compensation. The liquid medium of capacitors is capacitor oil. The electromagnetic unit is composed of oil tank, intermediate transformer, compensation reactor, damper, etc. The secondary terminal is led to the terminal box on the outer wall of the fuel tank through a wiring board.

产品特点 /Product features

适用范围从 35kV~800kV。
产品绝缘性能好, 有充足的绝缘裕度, 保证产品安全使用。
产品损耗低, 温升小。
产品的暂态响应快, 能为保护设备提供更快动作信号。
产品局部放电水平优异, 保证产品的安全使用。
产品具备载波通讯功能。
不会与电网断路器的断口电容发生铁磁谐振。

The scope of application ranges from 35kV to 800kV.
The product has good insulation performance and sufficient insulation margin to ensure safe use of the product.
Low product loss and low temperature rise.
The product has fast transient response and can provide faster action signals for protection equipment.
The product has excellent partial discharge level, ensuring the safe use of the product.
The product has carrier communication function.
There will be no ferroresonance with the capacitor of the circuit breaker in the power grid.

使用环境条件 /Working environment

海拔高度: ≤ 2000m; (也可提供海拔超过 2000m 的产品)
最大风速: 42m/s;
环境温度: -40℃ ~ +45℃;
覆冰厚度: 10mm;
污秽等级: 外绝缘爬电比距 ≥ 25mm/kV 或 ≥ 31mm/kV;
地震烈度: 不超过 8 度;
系统额定频率: 50Hz 或 60Hz;
中性点有效接地系统或中性点非有效接地系统;

Altitude: ≤ 2000m (products that are applicable to altitude exceeding 2000m also are available)
Max wind velocity: 42m/s;
Ambient temperature: -40℃ ~ +45℃;
Ice coating thickness: 10mm;
Class of pollution:
Specific creepage distance of external insulation ≥ 25mm/kV or ≥ 31mm/kV;
Seismic intensity: not exceed Ms8;
Rated frequency of system: 50Hz or 60Hz;
Effective earthing system or ineffective earthing system of neutral point;

TYD35~500kV 电容式电压互感器 Capacitor voltage transformer

Key of Power
Electric Professional
>

技术参数 / Technical data

型号 Type	设备最高电压 (kV) Maximum voltage of equipment (kV)	额定电容量 (pF) Rated capacitance (pF)	额定频率 (Hz) Rated frequency (Hz)	额定工频耐受电压 (方均根值) kV Rated power frequency withstand voltage (root mean square value) kV	额定雷电冲击耐受电压 (全波) (峰值) kV Rated lightning impulse withstand voltage (full wave) (peak) kV	额定负荷 (VA) Rated load (VA)
TYD35/√3-0.01FH	40.5	10000	50/60	95	200	GB/IEC: 10/25/50/75/100/ 120/150/200/3000 IEEE: 0.15Y/0.3WXYZ/ 0.6WXYZ/0.6ZZ/ 1.2ZZ
TYD35/√3-0.02FH	40.5	20000	50/60	95	200	
TYD66/√3-0.01FH	72.5	10000	50/60	160	350	
TYD66/√3-0.02FH	72.5	20000	50/60	160	350	
TYD110/√3-0.01H	126	10000	50/60	230	550	
TYD110/√3-0.02H	126	20000	50/60	230	550	
TYD132/√3-0.01H	145	10000	50/60	275	650	
TYD150/√3-0.0075H	170	75000	50/60	325	750	
TYD220/√3-0.005H	252	5000	50/60	460	1050	
TYD220/√3-0.01H	252	10000	50/60	460	1050	
TYD330/√3-0.005H	363	5000	50/60	510	1175	
TYD400/√3-0.005H	420	5000	50/60	570	1300	
TYD500/√3-0.005H	550	5000	50/60	740	1675	

订货须知 / Order notice

合同中应提供以下内容

产品名称、型号、规格：

系统的接地方式：

一次和二次额定电压

二次绕组的准确级和负荷：

外绝缘的爬电比距：

如无要求则按工厂常规参数供货。

The contract shall include the following contents

Product name, model, specification

Earthing mode of system;

Rated voltage of the primary and secondary

Accuracy class and load of secondary winding

Specific creepage distance of external insulation

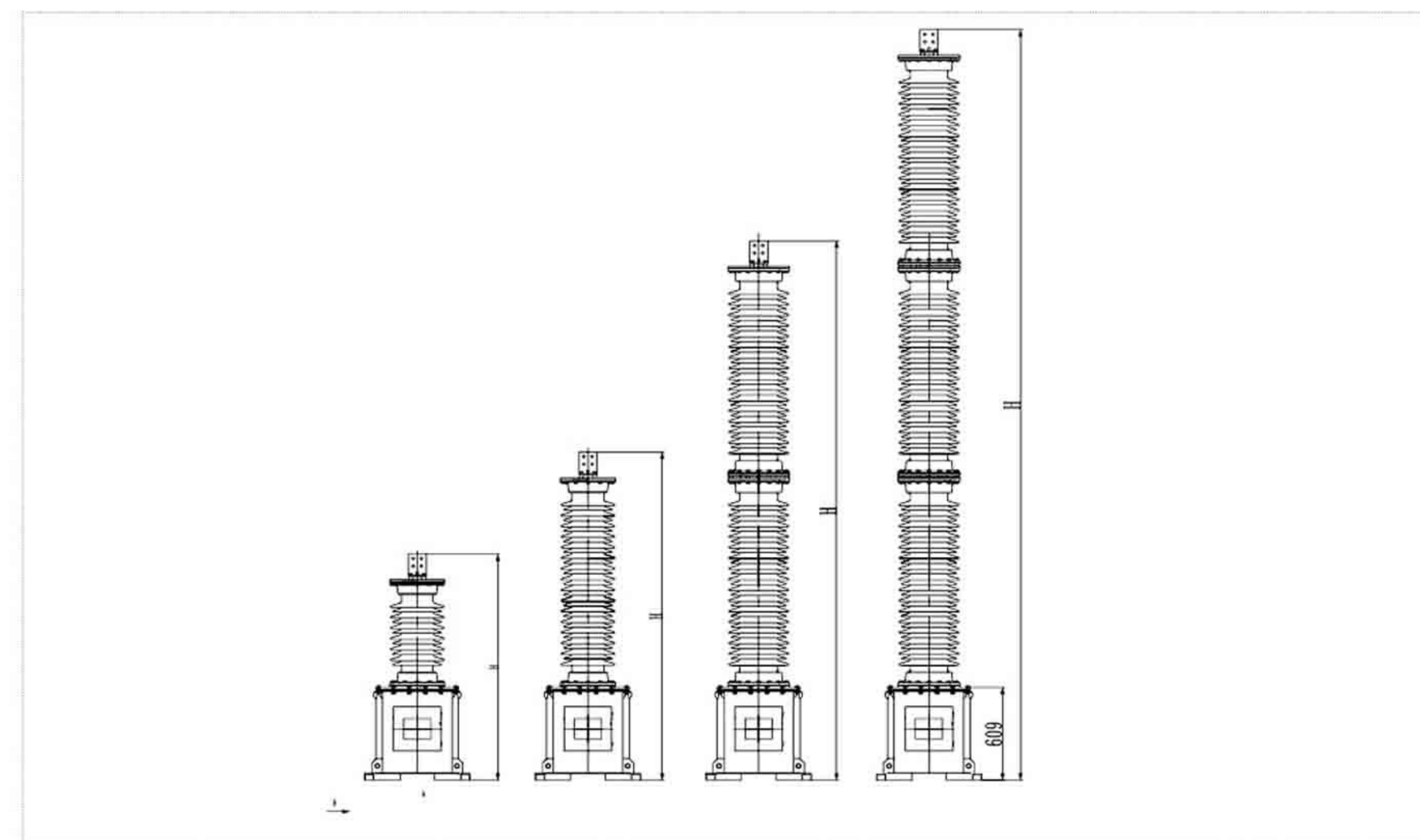
We will supply goods according to our conventional parameters if we found no requirement.

Key of Power
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TYD35~500kV 电容式电压互感器 Capacitor voltage transformer

外形图及安装尺寸 / Outline drawing and installation dimensions

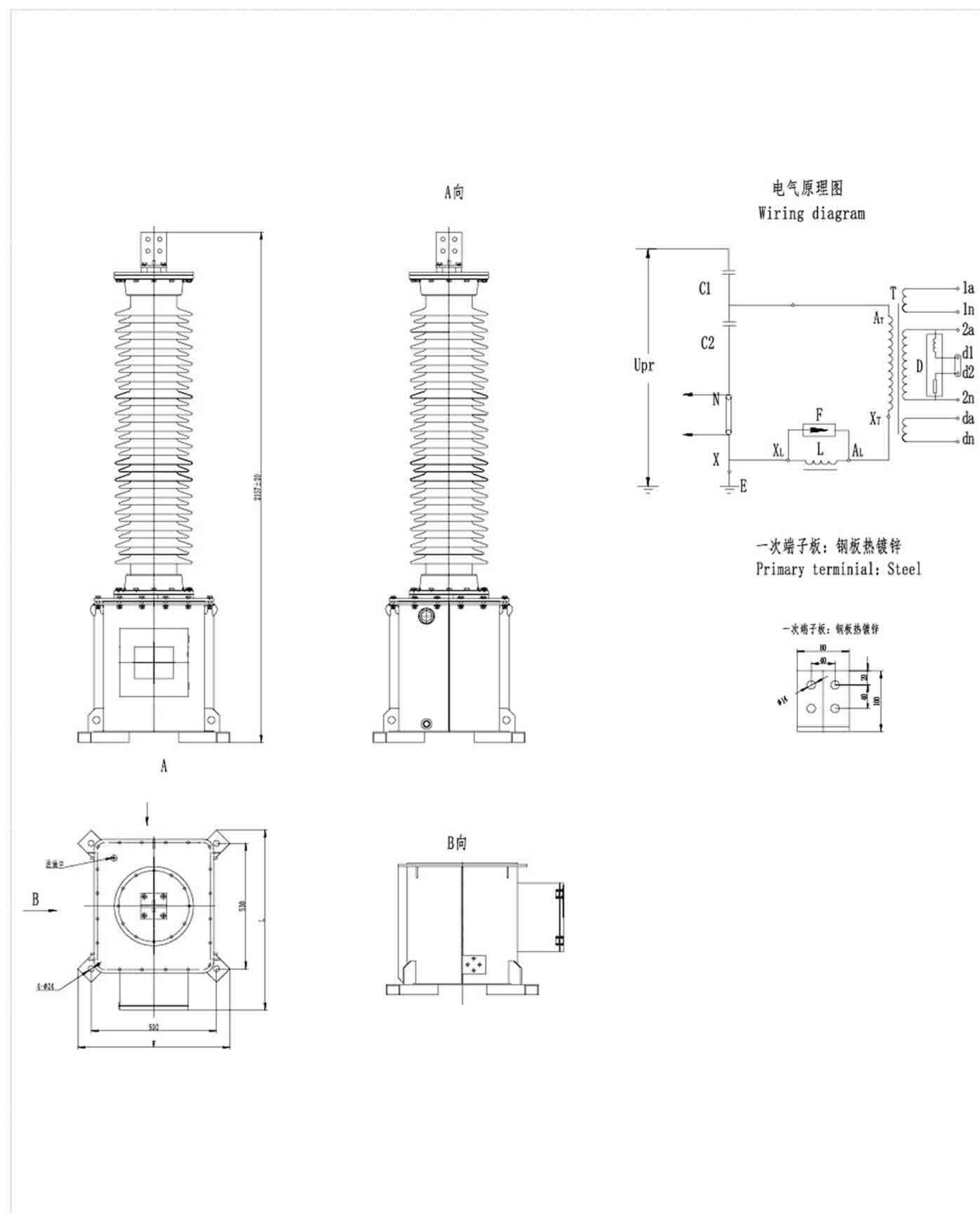
型号 Type	爬电距离 (mm) Creepage distance (mm)	干弧距离 (mm) Dry arc distance (mm)	重量 (kg) Weight (kg)	组装后的产品外形尺寸 Overall dimensions of the assembled product		
				长 (L mm)	宽 (W mm)	高 (H mm)
TYD35/√3-0.01FH	1750	510	320	760	644	1490
TYD35/√3-0.02FH	1750	510	320	760	644	1490
TYD66/√3-0.01FH	2500	830	340	760	644	1790
TYD66/√3-0.02FH	2500	830	340	760	644	1790
TYD110/√3-0.01H	4300	1135	390	760	644	2150
TYD110/√3-0.02H	4300	1135	450	760	644	2150
TYD132/√3-0.01H	5000	1390	410	760	644	2360
TYD150/√3-0.0075H	5300	1510	430	760	644	2480
TYD220/√3-0.005H	8600	2270	540	760	644	3520
TYD220/√3-0.01H	8600	2270	660	760	644	3520
TYD330/√3-0.005H	12900	3400	870	760	644	4900
TYD400/√3-0.005H	14400	4030	990	760	644	5530
TYD500/√3-0.005H	18760	4700	1140	760	644	6190



TYD35~500kV 电容式电压互感器 Capacitor voltage transformer

Key of Power
Electric Professional

外形及安装示意图 /Outline dimension



JDQXF-35/66/110/220 六氟化硫气体绝缘电压互感器 SF6 gas insulated voltage transformer

Key of Power
Electric Professional



产品简介 /Introduction

本系列产品为单相、户外型,用于额定电压分别为 35、66、110 和 220kV,额定频率为 50Hz 的交流电力系统中作电压测量、继电保护和自动监控等。35、66kV 等级的互感器其运行系统的接地方式为中性点非有效接地系统;110、220kV 等级的互感器其运行系统的接地方式为中性点有效接地系统。

This series of Product is of single phase and outdoor type, is applicable to AC power systems of rated voltage of 35, 66, 110 and 220kV and rated frequency is 50Hz, used for voltage measuring, relaying protection and automatic monitoring. Earthing mode of running system of transformers of 35 and 66kV is neutral point ineffective earthing system; earthing mode of running system of transformers of 110 and 220kV is neutral point effective earthing system.

结构特点 /Characteristic of structure

产品设计合理,具有防爆功能。
密封性能好。
局放水平低。
产品呈容性,低磁密抗谐振。
个质损耗因数小,抗气候能力强。
抗地震能力强。

The product has advantages of reasonable design and explosion-proof function.
Good sealing performance.
Low partial discharge level.
The product shows capacitance, low magnetic flux density and antiresonance.
Low dielectric dissipation factor, strong weatherproof capability.
Strong seismic intensity.

结构 /Characteristic

产品采用箱式结构,由一次接线板、引线管、高压绝缘套管、壳体、器身、接线盒和密度继电器等几部分组成(外形安装尺寸见表2)。互感器绕组采用单级式结构,由 SF6 气体和菱格点胶聚脂薄膜组成的复合绝缘可使产品耐受很高的电压。器身固定在壳体内,二次绕组引出线经二次接线板引入接线盒内,接线盒内有供用户接线的端子。壳体除放置器身、安装固定作用外,还设置有 SF6 密度继电器和 SF6 充气阀。高压绝缘套管采用高强度瓷套管或硅橡胶复合套管,能承受很大的压力而不损坏,通过套管的上下法兰将壳体与一次接线板牢固连接。壳体上还设有接地板。

The product adopts box type structure, is composed of primary terminal board, wire leading pipe, high-voltage insulated bushing, shell, machine body, junction box and density relay and so on (see table 2 for outline installation dimension).

Transformer winding adopts single-stage structure, the composite insulation layer combined with SF6 gas and diamond dotted glue polyester film enables the product to withstand high voltage. Machine body is fixed in the shell, lead-out wire of secondary winding is led in the junction box through Secondary terminal board, there are terminals in the junction box for user connection. The shell not only can be used for placing machine body, has functions of installation and fixing, but also can be used for setting the SF6 density relay and SF6 gas charge valve. The high-voltage insulated bushing adopts high-strength porcelain bushing or silicon rubber composite bushing, it is able to withstand large pressure without be damaged, it connects the shell with primary terminal board firmly through the upper and lower flanges of bushing. The shell also is equipped with earth plate.

JDQXF-35/66/110/220 六氟化硫气体绝缘电压互感器
SF6 gas insulated voltage transformer

▶ 技术参数 / Technical data

表 1(table1)

产品型号 Type	JDQX-35W2	JDQXF-66W2	JDQXF-110W2	JDQXF-220W2
额定一次电压 (kV) Rated primary voltage	35/√3	66/√3	110/√3	220/√3
额定频率 (Hz) Rated frequency	50	50	50	50
最高工作电压 (kV) Max working voltage	40.5	72.5	126	252
额定二次电压 (V) Rated secondary voltage	100/√3	100/√3	100/√3	100/√3
剩余电压绕组额定电压 (V) Rated voltage of residual voltage winding	100/3	100/3	100	100
准确度级 (组合) Accuracy class (combination)	0.2/3P	0.2/0.5/3P	0.2/0.5/3P	0.2/0.5/3P
额定输出 (对应) (VA) Rated output (corresponding to)	50/100	100/100/100	150/150/300	100/150/300
额定电压因数 / 时间 Rated voltage factor/time	1.9/8h	1.9/8h	1.5/30s	1.5/30s
一次绕组接地端耐压 (kV) Earth terminal withstand voltage of primary winding	5	5	5	5
一次绕组感应耐压 (kV) Inductive withstand voltage of primary winding	95	160	230	460
雷电全波冲击耐受电压 (峰值) (kV) Lightning full-wave impulse withstand voltage (peak)	200	350	480	950
雷电截波冲击耐受电压 (峰值) (kV) Lightning chopped wave impulse withstand voltage (peak)	220	360	530	1050
零表耐受电压 (kV) Null meter withstand voltage	30.4	55	95	190
工作气压 / 补气气压 (MPa) Working gas pressure/supplementary gas pressure	0.4/0.35	0.4/0.35	0.4/0.35	0.4/0.35
局部放电水平 (pC) Partial discharge level	≤ 5	≤ 5	≤ 5	≤ 5
额定热极限输出 (VA) Rated thermal limit output	500	1000	2000	1500
年漏气率 Annual gas leakage rate	≤ 0.5%	≤ 0.5%	≤ 0.5%	≤ 0.5%

▶ 使用环境条件 /Working environment

环境温度：最高温度 +40℃；最低温度 -25℃；日平均温度不超过 +30℃。

海拔高度：海拔高度不超过 1000m。超过 1000m 另行设计

空气相对湿度: 小于 95%(在 20°C 时)。

耐受地震能力:地震烈度8度。

风速：不大于 35m/s。

大气条件：大气无严重污秽，防污秽等级为Ⅲ级。

Ambient temperature: -25°C ~+40°C ;daily mean temperature not exceeds +30°C .

Altitude: not exceed 1000m. The ones exceed 1000m shall be designed separately

Relative humidity of air: less than 95% (at 20°C).

Capability of withstanding seismic intensity: Ms8.

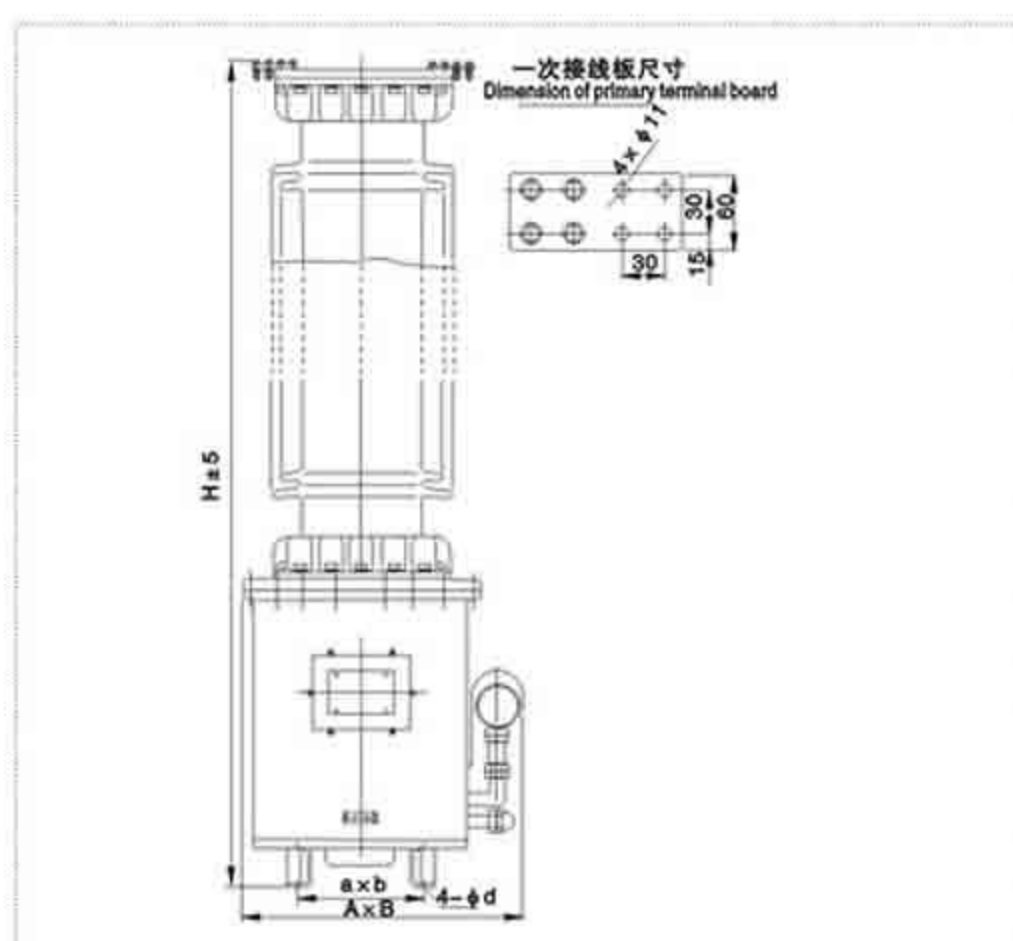
Wind velocity: not exceed 35 m/s.

Atmospheric condition: no serious pollution, class of pollution: III.

▶ 外形及安装示意图 / Outline dimension

表 2(Table2)

1	产品型号 Type	JDQX-35W2	JDQXF-66W2	JDQXF-1 10W2	JDQXF-220W2
2	产品外形尺寸 长 x 宽 X 高 Outline dim. of product LxWxH	AxBxH	AxBxH	AxBxH	AxBxH
		590x517x1081	670x655x1930	698x710x1920	840x830x3392
3	安装尺寸 (Installation dim.) axbmm	315x315	300x320	450x450	340x320
4	安装孔径 (Mounting hole dia.) 4xΦdmm	4-Φ22	4-Φ18	4-Φ20	4-Φ18



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JDC5-220(W1)/JDC5-220GY 油浸式电压互感器
(Original JCC5-220(W1)、JCC5-220GY)oil-immersed type voltage transformer



▶ 产品简介 /Introduction

JDC5-220型电压互感器为全密封串级式油纸绝缘,单相三绕组户外用电压互感器,供额定频率50Hz,220KV中性点有效接地系统中作电压,电能测量及继电保护用。

本产品顶部装有不锈金属膨胀器，运行可靠，维护方便，产品具有良好的励磁特性，抗谐振能力强。

本型产品适用于环境温度 $-30^{\circ}\text{C} \sim +40^{\circ}\text{C}$ 。

JDC5-220 type voltage transformer is of full-sealed cascade oil-paper insulated, single-phase three-winding outdoor used, is applicable to neutral point effective earthing systems of rated frequency 50Hz and 220kV, used for voltage and electric energy measuring and relaying protection.

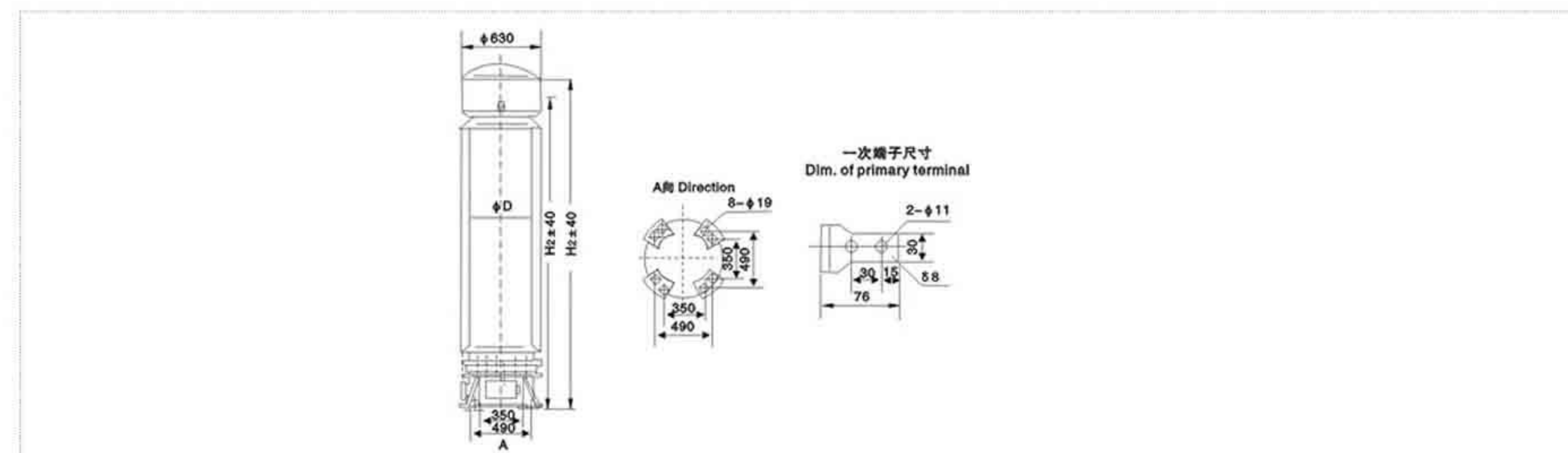
Top of the product is installed with stainless steel metal expander, has reliable running, is convenient for maintenancethe, the product has good excitation characteristic and strong antiresonance capability.

This type of product is applicable to areas of ambient temperatur within $-30^{\circ}\text{C} \sim +40^{\circ}\text{C}$.

▶ 技术参数 / Technical data

额定一次电压 (kV) Rated primary voltage	二次绕组 Secondary winding			剩余电压绕组 Residual voltage winding			二次绕组 极限输出 (VA) Secondary winding limit output	额定绝缘水平 Rated insulation level	型号 Type	H1	H2	ΦD	海拔 (m) Altitude	爬电距离 cm Creepage distance	油重 (kg) Oil weight	总重 (kg) Total weight
	额定电压 (kV) Rated voltage	准确级 Accuracy class	额定输出 (VA) Rated output	额定电压 (kV) Rated voltage	准确级 Accuracy class	额定输出 (VA) Rated output										
220 / $\sqrt{3}$	0.1 / $\sqrt{3}$	0.2 0.5	150 300	0.1	3P	300	2000	252/395/950	JDC5-220	2810	2385	660	≤ 1000	395	265	1100
									JDC5-220GY	3010	2585	660	≤ 3000	440	295	1170
									JDC5-220W1	2810	2385	690	≤ 1000	550	265	1250

▶ 外形及安装示意图 / Outline dimension



JDCF-220W1 油浸式电压互感器 oil-immersed type voltage transformer

Key of Power
Electric Professional
>



产品简介 /Introduction

JDCF-220W1 型电压互感器为全密封串级式油纸绝缘, 单相四绕组户外用电压互感器, 供额定频率 50Hz, 220KV 中性点有效接地系统中作电压, 电能测量及继电保护用。

产品顶部装有不锈钢金属膨胀器, 运行可靠, 维护方便, 该产品具有良好的励磁特性, 抗谐振能力强。

本型产品适用于环境温度为 -30℃ ~+40℃ 海拔高度 1000m 以下, II、III 级污秽地区。

JDCF-220W1 type voltage transformer is of full-sealed cascade oil-paper insulated, single-phase four-winding outdoor used, is applicable to neutral point effective earthing systems of rated frequency 50Hz and 220kV, used for voltage and electric energy measuring and relaying protection.

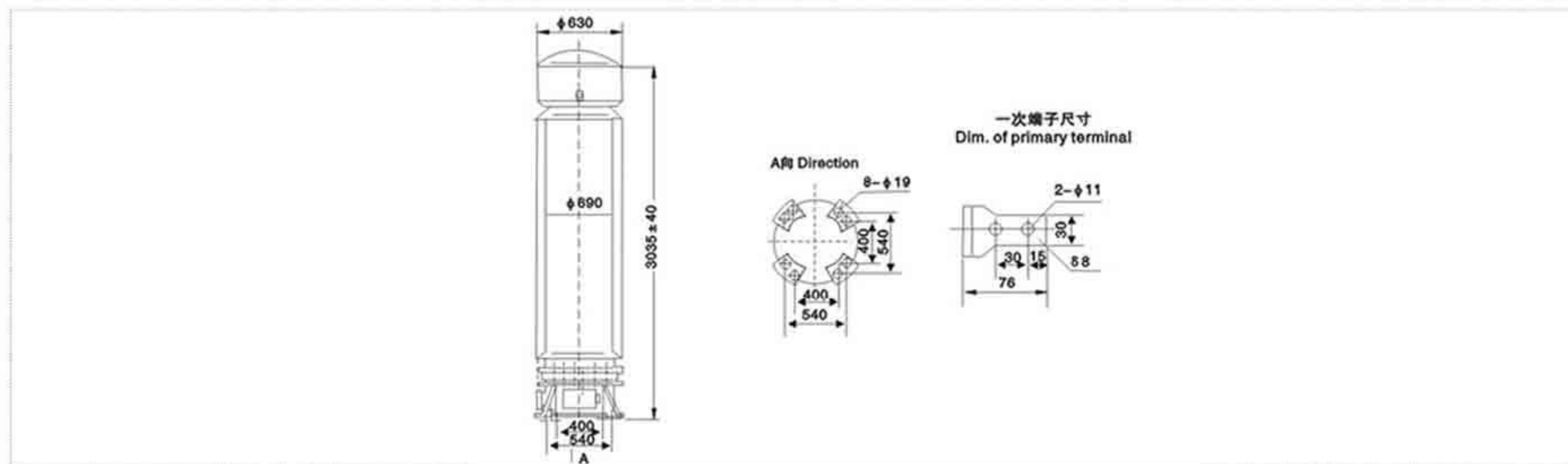
Top of the product is installed with stainless steel metal expander, has reliable running, is convenient for maintenance, the product has good excitation characteristic and strong antiresonance capability.

This type of product is applicable to areas of ambient temperature within -30℃ ~ +40℃, altitude up to 1000m, where the pollution class is II, III.

技术参数 /Technical data

型号 Type	额定一次电压 (kV) Rated primary voltage	测量二次绕组 Measurement secondary winding			保护二次绕组 Protection secondary winding			剩余电压绕组 Residual voltage winding			二次绕组 极限输出 (VA) Secondary winding limit output	额定绝缘水平 Rated insulation level	爬电比距 cm/kV Specific creepage distance	油重 总重 kg Oil weight Total weight
		额定电压 (kV) Rated voltage	准确级 Accuracy class	额定输出 (VA) Rated output	额定电压 (kV) Rated voltage	准确级 Accuracy class	额定输出 (VA) Rated output	额定电压 (kV) Rated voltage	准确级 Accuracy class	额定输出 (VA) Rated output				
JDCF-220W1	220 / $\sqrt{3}$	0.1 / $\sqrt{3}$	0.2 0.5	100 150	0.1 / $\sqrt{3}$	3P	500	0.1	3P	300	2000	252 /395 /950	≤ 2.1	385/ 1620

外形及安装示意图 /Outline dimension



LVB-220W2 油浸倒立式电流互感器 oil-immersed Inverted type current transformer

Key of Power
Electric Professional
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产品简介 /Introduction

LVB-220W2 型倒立式电流互感器适用于 50Hz, 220kV 电力系统中作电流、电能测量及继电保护用。

该产品主要由储油柜、高强度瓷套 (或硅橡胶套管) 底座、波纹膨胀器、一次绕组、二次绕组等部分组成。

产品特点:

现代而轻巧的设计, 体积小、重量轻、绝缘性能好、机械强度高。

电场分布均匀, 介质损耗因数小, 局部放电电量低。

倒立式结构、油纸绝缘, 抗热稳定电流能力大。

运行安全, 维护简便。

LVB-220W2 type inverted type current transformer is applicable to power systems of 50Hz and 220kV, used for current, electric energy and relaying protection.

The product is composed of oil conservator, high-strength porcelain bushing (or silicon rubber bushing) base, corrugated expander, primary winding, secondary winding and other parts.

Product features:

Modern and dexterous design, small volume, light weight, good insulating performance, strong mechanical strength.

Uniform electric field distribution, low dielectric dissipation factor, low partial discharge quantity.

Inverted type structure, oil-paper insulation, strong peak/short-time withstand current.

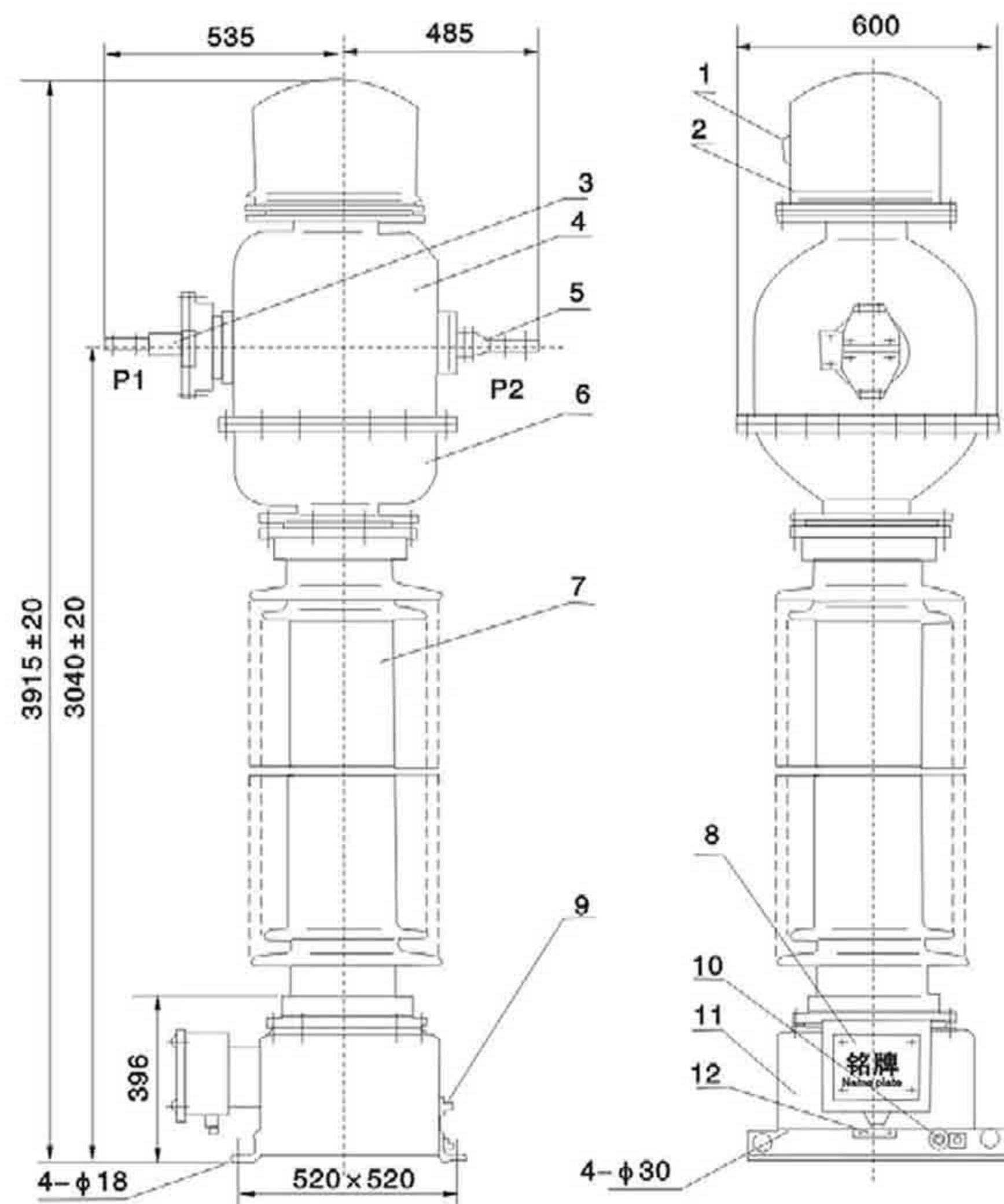
Safe running, convenient maintenance.

技术参数 /Technical data

系统额定电压 (kV) Rated voltage of system	额定一次电流 (A) Rated primary current	额定二次电流 (A) Rated secondary current	级次组合 Class combination	测量级额定二次负荷与仪表保安系数 (FS) Rated secondary load of measurement class and instrument security factor	保护级额定二次负荷与准确限值系数 (ALF) Rated secondary load of protection class and accuracy limit factor	短时热电流 (kA/3s) Short-time thermal current	额定动稳定电流 (kA) Rated dynamic stable current	爬电距离 (mm) Creepage distance	额定绝缘水平 (kA) Rated insulation level	局放水平 (pC) Partial discharge level	油重 / 总重 (kg) Oil weight Total weight
220	2x300 ~ 2x1500	5 (1)	5P/5P/5P / 5P/0.2S 5P/5P/5P / 5P/0.5/0.2 (0.2S)	30~50VA FS ≤ 5 或 (or) FS ≤ 10	30~60VA 5P15~5P30	50	125	≥ 6300	252/ 395/ 950	≤ 5	100 / 800

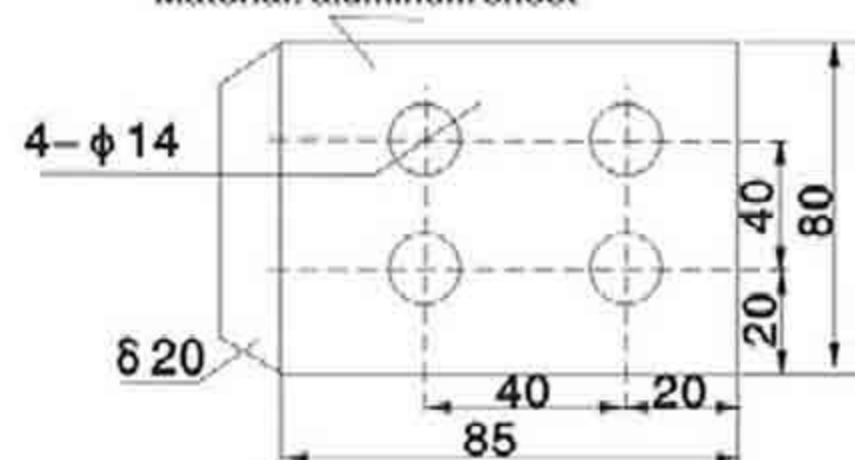
LVB-220W2 油浸倒立式电流互感器 oil-immersed Inverted type current transformer

Key of Power
Electric Professional
>



P1P2接线端子板尺寸
P1P2Dim. of terminal board

材质铝板
Material: aluminum sheet



- 1、油位指示窗
 - 2、膨胀器
 - 3、一次接线端子P1
 - 4、上铝储油柜
 - 5、一次接线端子P2
 - 6、下铝储油柜
 - 7、套管
 - 8、铭牌 9、放油阀 10、接地螺栓
 - 11、底座 12、出线夹
1. Oil level indicator window
2. Expander
3. Primary connection terminal P1
4. Upper aluminum oil conservator
5. Primary connection terminal P2
6. Lower aluminum oil conservator
7. Bushing 8. Nameplate
9. Oil drain valve 10. Earth stud
11. Base 12. Terminal clamp

Key of Power
Electric Professional
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LB7-220(W1)(原LCWB7-220(W1)) 油浸式电流互感器 (Original LCWB7-220(W1))oil-immersed type current transformer



产品简介 /Introduction

本型电流互感器适用于 220kV, 50Hz 电力系统中作电流、电能测量及继电保护用。
该产品装有金属膨胀器, 全密封结构, 一次绕组为“U”形电容型绝缘结构, 介质损耗率小, 局部放电量低, 二次绕组一般为 4~6 个绕组, 级次可任意组合, 可根据用户需要生产测量级准确级为 0.2S 级特殊用途电流互感器。
本型电流互感器为户外装置, LB7-220 适用于海拔 1700m 以下地区; LB7-220W1 型适用于海拔 1700m 以下污秽地区, 环境气温为 -30℃ ~ +40℃, 外形及安装尺寸如图。

This type of current transformer is applicable to electric power systems of 220kV and 50Hz, used for current, electric energy measuring and relaying protection.
The product is equipped with metal expander, full-sealed structure, primary winding has U-shaped capacitor type insulation structure, low dielectric dissipation rate, low partial discharge quantity, secondary winding usually has 4~6 windings, class can be combined at random, we could produce current transformers of measurement class accuracy of 0.2S for special purposes according to user's requirements.
This type of current transformer is of outdoor type, LB7-220 is suitable for areas of altitude up to 1700m; LB7-220W1 type is suitable for polluted areas of altitude up to 1700m, ambient temperature is -30℃ ~ +40℃, outline and installation dimensions as shown in diagram.

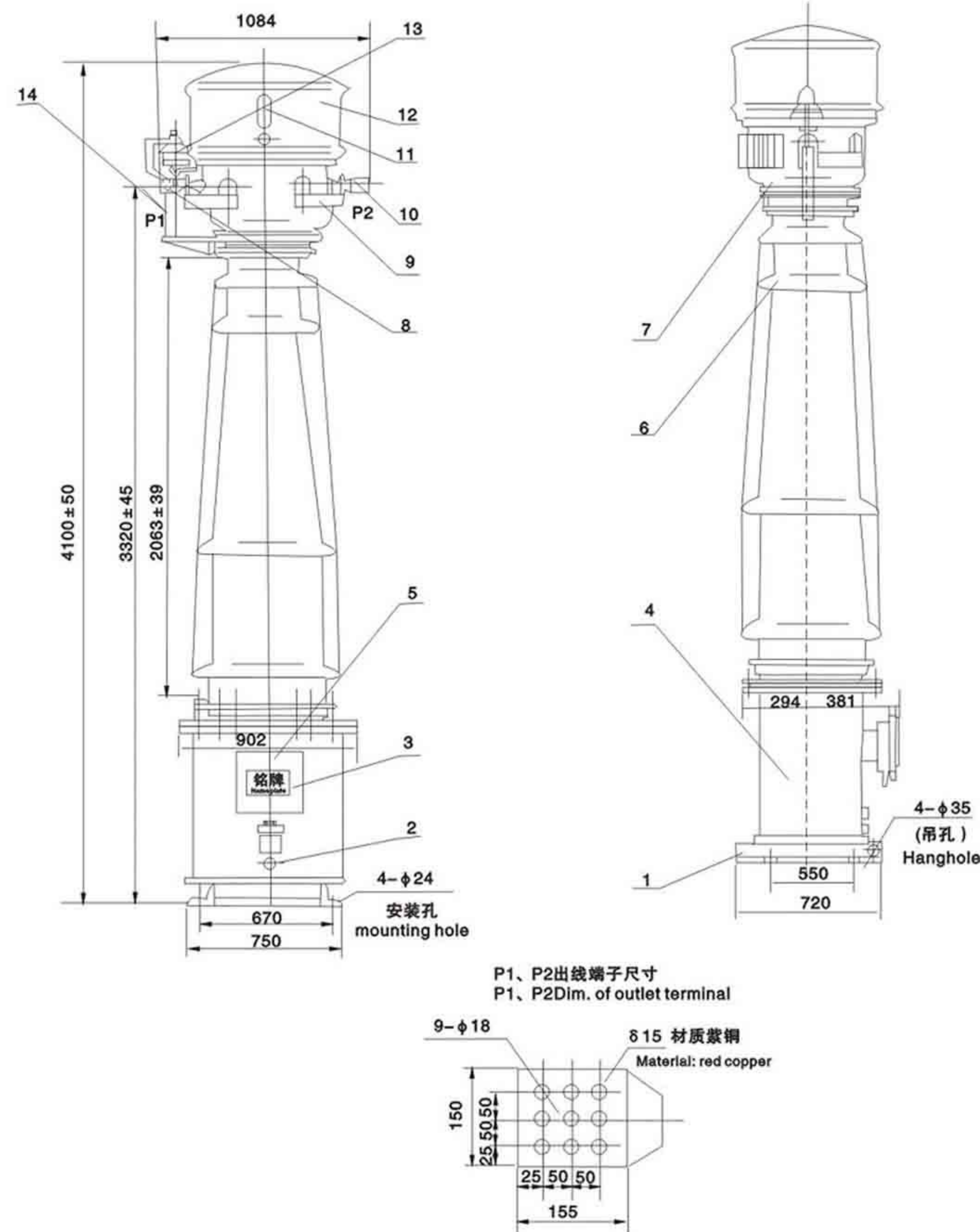
技术参数 /Technical data

额定电流比 (抽头电流比) (A) Rated current ratio(tap current ratio)	级次组合 Class combination	准确级 Accuracy class	额定输出 (VA) Rated output		准确限值 系数 Accuracy limit factor	额定短时 热电流 (kA) Rated short-time thermal current	额定动 稳定电流 (kA) Rated dynamic stable current	额定绝缘 水平 (kA) Rated insulation level	瓷套爬 电距离 (cm) Creepage distance of porcelain bushing	油重 / 总重 (kg) Oil weight Total weight	
			满匝数 Full turn number	抽头 tap							
2x600/5 (2x300/5)	P1/P2/P1/0.5(0.2) P1/P2/P1/ P1/0.5(0.2) P1/P2/P1/P1/ P1/0.5(0.2) P1/P2/P1/0.5/0.2 P1/P2/P1/P1/0.2S P1/P2/P1/P1/ P10.2S	5P 10P	50		20	(5s) 21-42 (or) 或 (3s) 31.5-63	55-11 或 (or) 80-160	252 / 395 / 950	410	365 / 1300	
2x750/5 (2x400/5)		5P 10P	50	25							
2x800/5 (2x400/5)		0.5	50	40	12.5				550		
2x1000/5 (2x500/5)		0.2	50	40 (0.5 级) (0.5class)							
2x1200/5 (2x600/5)		0.2S	50	40 (0.5 级) (0.5class)					630		
2x1250/5 (2x750/5)											

LB7-220(W1)(原LCWB7-220(W1))油浸式电流互感器 (Original LCWB7-220(W1))oil-immersed type current transformer

Key of Power
Electric Professional

外形及安装示意图 /Outline dimension



Key of Power
Electric Professional

LB11-220(W1) 油浸式电流互感器 oil-immersed type current transformer



产品简介 /Introduction

本型互感器为户外装置，供 50Hz，220KV 电力系统中作电流、电能测量及继电保护用。采用全密封结构，一次绕组为“U”形电容结构。电场分布均匀，介质损耗率小，局部放电率低。二次绕组可生产 4~6 个绕组，级次可任意组合，可根据用户要求生产 0.2S 级特殊用途电流互感器。

该产品适用于海拔高度 2000m 以下，II 级污秽地区，环境气温为 -30℃ ~+40℃，外形及安装尺寸如图。

This type of transformer is of outdoor type, is applicable to electric power systems of 50Hz and 220kv, used for current, electric energy measuring and relaying protection. It adopts full-sealed structure, primary winding has U-shaped capacitor structure. Uniform electric field distribution, low dielectric dissipation rate, low partial discharge quantity. Secondary winding usually has 4~6 windings, class can be combined at random, we could produce current transformers of measurement class accuracy of 0.2S for special purposes according to user's requirements.

This product is suitable for areas of altitude up to 2000m. pollution class II, ambient temperature -30℃ ~+40℃, outline and installation dimensions as shown in diagram.

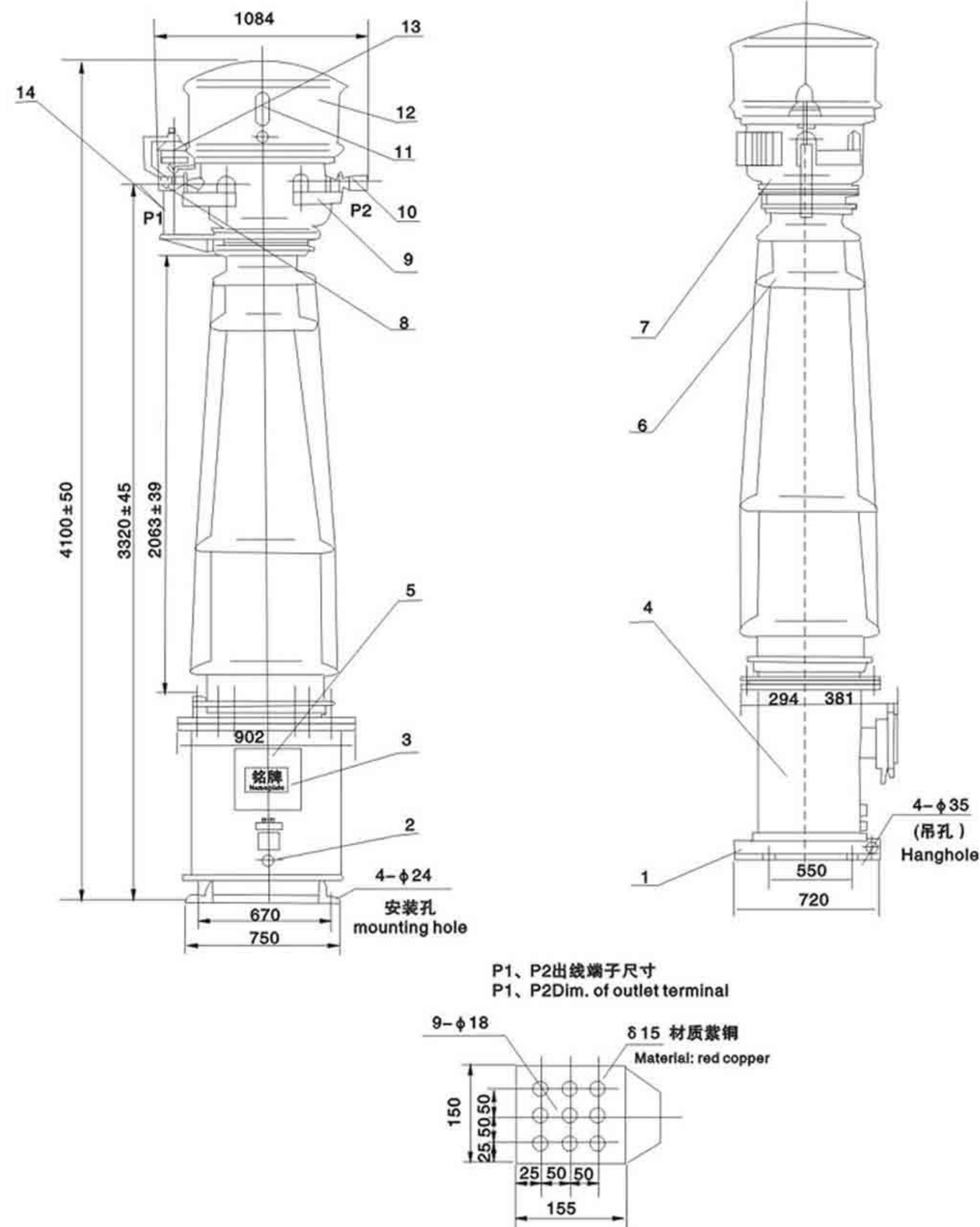
技术参数 /Technical data

额定电流比 (抽头电流比) (A) Rated current ratio (tap current ratio)	级次组合 Class combination	准确级 Accuracy class	额定输出 (VA) Rated output		准确限值 系数或仪表 保安系数 Accuracy limit factor or instrument security factor	极性 Polarity	额定短 时热电流 (kA) Rated short-time thermal current	额定动 稳定电 流 (kA) Rated dynamic stable current	额定绝缘 水平 (kV) Rated insulation level	爬电 距离 (mm) Creepage distance	油重 kg Oil weight	总重 kg Total weight
			满匝数 Full turn number	抽头 tap								
2x1250/5A 抽头可以为 (Tap can be) 2x600/5A 2x750/5A 2x800/5A	5P/5P/5P/5P/0.2 5P/5P/5P/5P/0.2S 5P/5P/5P/5P/0.2 5P/5P/5P/5P/0.2S 5P/5P/5P/5P/0.2	5P 或 (or) 10P	60		20	减 Subtractive	2x50	2x125	252 / 395 / 950	550 630	490	1750
		0.5	50									
		0.2	50	40	FS ≤ 5							
		0.2S	50	40	FS ≤ 5							

LB11-220(W1) 油浸式电流互感器 oil-immersed type current transformer

Key of Power
Electric Professional
>

外形及安装示意图 / Outline dimension



Key of Power
Electric Professional
>

JDC6-110W、JDC6-110GYW 油浸式电压互感器 (Original JCC6-110W JCC6-110GYW)oil-immersed type voltage transformer



产品简介 / Introduction

JDC6-110 型电压互感器为单相三绕组串级式绝缘结构, 供额定频率 5Hz, 110kV 中性点有效接地系统中作电压, 电能测量及继电保护用。

本产品具有良好的励磁特性, 抗谐振能力强, 运行可靠, 维护方便, 顶部装有不锈钢波纹式膨胀器, 为全密封结构。

JDC6-110W 适用于海拔 1000m 以下地区;

JDC6-110GYW 适用于海拔 3000m 以下地区;

JDC6-110 type voltage transformer has single-phase three-winding cascade insulating structure, it is applicable to neutral point effective earthing systems of rated frequency 50Hz and 110kV, used for voltage, electric energy measuring and relaying protection.

The product has good excitation characteristic and strong antiresonance capability, has reliable running, is convenient for maintenance, the top is installed with stainless steel metal corrugated expander, featured with full-sealed structure.

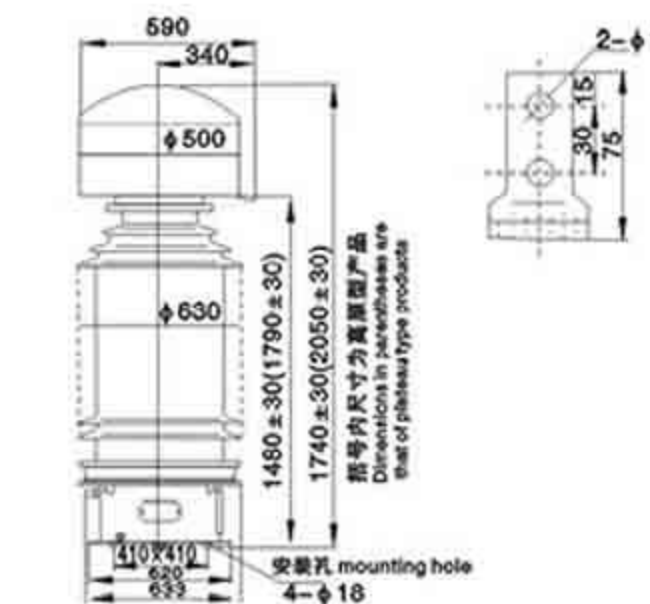
JDC6-110W is suitable for areas of altitude up to 1000m;

JDC6-110 GYW is suitable for areas of altitude up to 3000m;

技术参数 / Technical data

型号 Type	额定一次电压 (kV) Rated primary voltage	二次绕组 secondary winding			剩余电压绕组 Residual voltage winding			二次绕组 极限输出 (VA) Secondary winding limit output	额定绝缘水平 (kV) Rated insulation level	爬电比距 (cm/kv) Specific creepage distance	油重 总重 (kg) Oil weight Total weight		
		额定电压 (kV) Rated voltage	准确级 Accuracy class	额定输出 (VA) Rated output	额定电压 (kV) Rated voltage	准确级 Accuracy class	额定输 (VA) Rated output						
JDC6-110W	110 / $\sqrt{3}$	0.1 / $\sqrt{3}$	0.2	150	0.1	3P	300	2000	126 /200 /400	2.2	130/555		
JDC6-110GYW			0.5	300									
			1 3P	500									

外形及安装示意图 / Outline dimension



LB6-110(W2)、LB6-110GYW2 油浸式电流互感器 (Original LCWB6-110(W2) LCWB6-110GYW2)oil-immersed type current transformer

Key of Power
Electric Professional



产品简介 /Introduction

本型互感器供 50Hz, 110kV 电力系统中作电流、电能测量及继电保护用。

本型产品装有金属膨胀器, 全密封结构, 一次绕组为“U”形电容型绝缘结构, 电场分布均匀, 介质损耗率小, 局部放电量低, 二次绕组一般为 3~6 个绕组, 级次可任意组合, 可根据用户需要生产测量级准确级为 0.2S 级特殊用途电流互感器。

本型产品为户外装置, 环境温度 -30℃ ~+40℃。

LB6-110(LCWB6-110) 适用于海拔 1000m 以下地区;

LB6-110W2(LCWB6-110W2) 适用于海拔 1000m 以下污秽地区;

LB6-110GY(LCWB6-110GY) 适用于海拔 3500m 以下高原地区;

LB6-110GYW2(LCWB6-110GYW2) 适用于海拔 3500m 以下高原污秽地区;

This type of transformer is applicable to electric power systems of 50Hz and 110kV, used for current, electric energy measuring and relaying protection.

This type of product is equipped with metal expander, full-sealed structure, primary winding has U-shaped capacitor type insulation structure, has advantages of uniform electric field distribution, low dielectric dissipation rate, low partial discharge quantity, secondary winding usually has 3~6 windings, class can be combined at random we could produce current transformers of measurement class accuracy of 0.2S for special purposes according to user's requirements.

This type of product is of outdoor type, ambient temperature -30℃ ~+40℃.

LB6-110(LCWB6-110) is suitable for areas of altitude up to 1000m;

LB6-110W2(LCWB6-110W2) is suitable for polluted areas of altitude up to 1000m;

LB6-110GY(LCWB6-110GY) is suitable for plateau areas of altitude up to 3500m;

LB6-110GYW2(LCWB6-110GYW2) is suitable for polluted plateau areas of altitude up to 3500m;

Key of Power
Electric Professional

LB6-110(W2)、LB6-110GYW2 油浸式电流互感器 (Original LCWB6-110(W2) LCWB6-110GYW2)oil-immersed type current transformer

技术参数 /Technical data

额定电压 (kV) Rated voltage	额定一次电压 (kV) Rated primary current	级次组合 Class combination	额定二次电流 (kV) Rated secondary current	准确级 Accuracy class	额定输出 (VA) Rated output		准确限值系数 Accuracy limit factor	额定短时热电流 (kA) Rated short-time thermal current	额定动稳定电流 (kA) Rated dynamic stable current	额定绝缘水平 (KA) Rated insulation level	爬电比距 (cm/kv) Specific creepage distance	油重 (kg) Oil weight	总重 (kg) Total weigh
110	2x50	P/P/0.5(0.2) P/0.5/0.2 P/P/0.2S P/P/P/0.5(0.2) P/P/0.5/0.2 P/P/P/0.2S P/P0.5/0.2S P/P/P/P/0.5(0.2) P/P/P/P/0.2S P/P/P0.5/0.2S P/P/P/P/ P/0.5(0.2) P/P/P/P0.5/0.2S P/P/P/P/P/0.2S P/P/P/P/0.5/0.2	5 或 (or) (1)	5P 10P	50 (30)		≥ 15	5.3-10.6	13-26	126/185/450	1.6	150 (173)	650 (850)
	2x75							7.9-15.8	20-40				
	2x100			0.5	50 (30)			10.5-21	27-54				
	2x150							15.8-31.6	40-80				
	2x200			0.2	50 (30)			21-42	54-108		2.0		
	2x300							31.5-45	80-15				
	2x400			0.2s	40 (30)			45	115		2.5		
								45	115				
	2x500			5P 10P	50 (30)		≥ 15	45	115				
	2x600 (2x300)												
	2x750 (2x400)			0.5	50 (30)	30 (20)		45	115				
	2x800 (2x400)			0.2	50 (30)	30 (20)		45	115				
	2x1000 (2x50)			0.2s	40 (30)	30 (20)		45	115				

说明: 1、可根据用户要求生产测量级、保护级全抽头产品。

2、油重、总重一栏内 () 内数字表示 LCWB6-110GYW2 产品油重和总重, 额定输出 () 内数字表示额定二次电流为 1A 时额定输出, 额定一次电流 () 表示抽头电流。

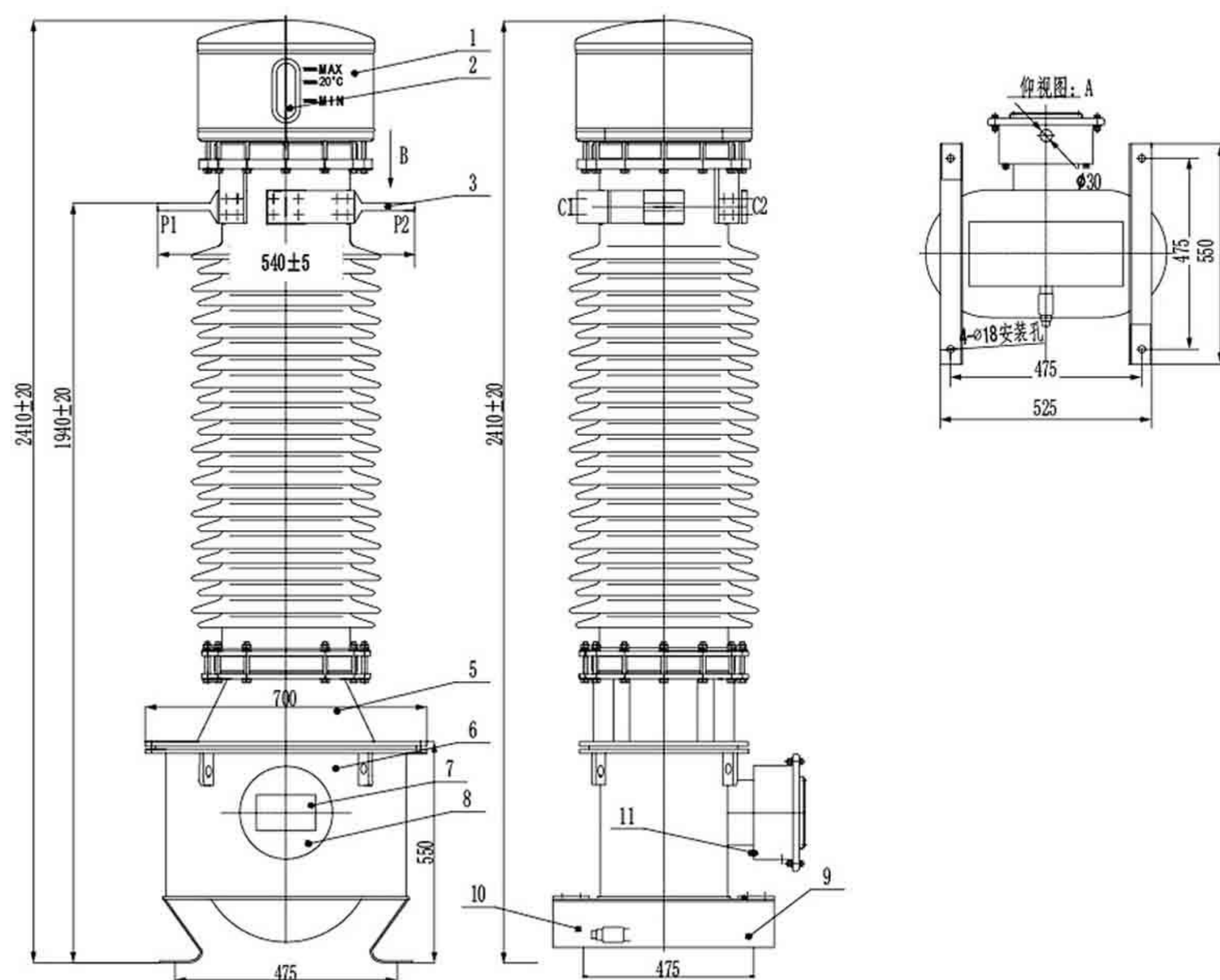
Note: 1. Measurement class and protection class full-tap products are available at request

2. Digits in () in the column of oil weight and gross weight mean the oil weight and gross weight of LCWB6-110GYW2 products, digits in () of rated output mean the rated output when the rated secondary current is 1A, digits in () of rated primary current mean the tapping current.

LB6-110(W2)、LB6-110GYW2 油浸式电流互感器 (Original LCWB6-110(W2) LCWB6-110GYW2)oil-immersed type current transformer

Key of Power
Electric Professional

外形及安装示意图 /Outline dimension



- | | |
|--------------|------------------------------------|
| 1、膨胀器 | 1. Expander |
| 2、油位视窗孔 | 2. Oil level window hole |
| 3、一次出线端子 | 3. Primary outgoing terminal |
| 4、连接板 | 4. Connecting plate |
| 5、瓷套 | 5. Porcelain sleeve |
| 6、油箱 | 6. Fuel tank |
| 7、二次接线盒 | 7. Secondary junction box |
| 8、铭牌 | 8. Nameplate |
| 9、接地 | 9. Grounding |
| 10、放油阀 | 10. Oil drain valve |
| 11、二次出线孔 Φ30 | 11. Secondary outlet hole Φ thirty |

Key of Power
Electric Professional

LVB-110W2 油浸式倒立式电流互感器 oil-immersed type Inverted type current transformer



产品简介 /Introduction

LVB-110W2 型倒立式电流互感器适用于 50Hz, 110kV 电力系统中作电流、电能测量及继电保护用。该产品主要由储油柜、高强度瓷套 (或硅橡胶套管) 底座、波纹膨胀器、一次绕组、二次绕组等部分组成。

产品特点:

现代而轻巧的设计, 体积小、重量轻、绝缘性能好、机械强度高。

电场分布均匀, 介质损耗因数小, 局部放电量低。

倒立式结构、油纸绝缘, 抗热稳定电流能力大。

运行安全, 维护简便。

LVB-110W2 type inverted type current transformer is applicable to power systems of 50Hz and 220kV, used for current, electric energy and relaying protection.

The product is composed of oil conservator, high-strength porcelain bushing (or silicon rubber bushing) base, corrugated expander, primary winding, secondary winding and other parts.

Product features:

Modern and dexterous design, small volume, light weight, good insulating performance, strong mechanical strength.

Uniform electric field distribution, low dielectric dissipation factor, low partial discharge quantity.

Inverted type structure, oil-paper insulation, strong peak/short-time withstand current.

Safe running, convenient maintenance.

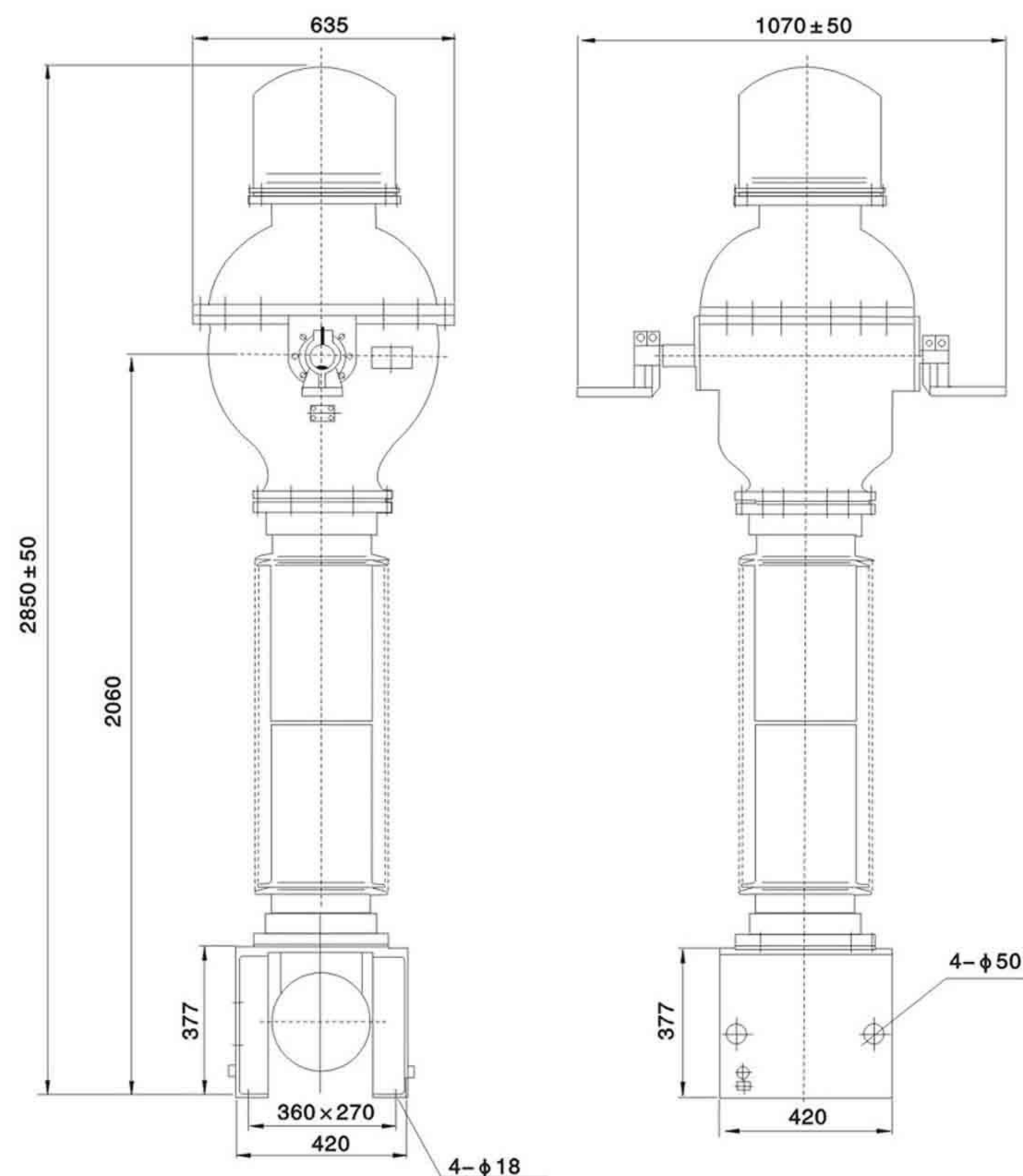
技术参数 /Technical data

系统额定电压 (kV) Rated voltage of system	额定一次电流 (A) Rated primary current	额定二次电流 (A) Rated secondary current	级次组合 Class combination	测量级额定二次负荷与仪表保安系数 (FS) Rated secondary load of measurement class and instrument security factor	保护级额定二次负荷与准确限值系数 Rated secondary load of protection class and accuracy limit factor	短时热电流 (kA/3s) Short-time thermal current	额定动稳定电流 (KA) Rated dynamic stable current	爬电距离 (mm) Creepage distance	额定绝缘水平 (KA) Rated insulation level	局放水平 (pC) Partial discharge level	油重 / 总重 (kg) Oil weight / Total weight
110	2x300 ~ 2x1500	5(1)	5P/5P/5P /0.2S 5P/5P/5P/ 5P/0.5/0.2 (0.2S)	30-50VA FS ≤ 5 或 (or) FS ≤ 10	30-60VA 5P15-5P30	50	125	≥ 3150	126/ 200/ 480	≤ 5	60 / 340

LVB-110W2 油浸式倒立式电流互感器 oil-immersed type Inverted type current transformer

Key of Power
Electric Professional
>

外形及安装示意图 /Outline dimension



JDC5-66(原JCC5-66) 油浸式电压互感器 (Original JCC5-66)oil-immersed type voltage transformer

Key of Power
Electric Professional
>



产品简介 /Introduction

本型互感器为单相三绕组串级绝缘，户外装置，适用于频率 50Hz，66KV 中性点非有效接地系统中供电压，电能测量及继电保护用。产品有良好的励磁特性，运行可靠。维护简便，顶部装有金属膨胀器，为全密封结构。
技术参数见表 1、表 2。

This type of transtormer has single-phase three-winding cascaded insulating structure, is of outdoor type, it is applicable to neutral point ineffective earthing systems of 50Hz and 66kv,used for voltage, electric energy measuring and releying protection. The product has good excitation characteristic and strong antiresonance capability, is convenient for maintenance, the top is installed with metal expander, featured with full-sealed structure.
Technical parameters, see table 1 and 2.

技术参数 /Technical data

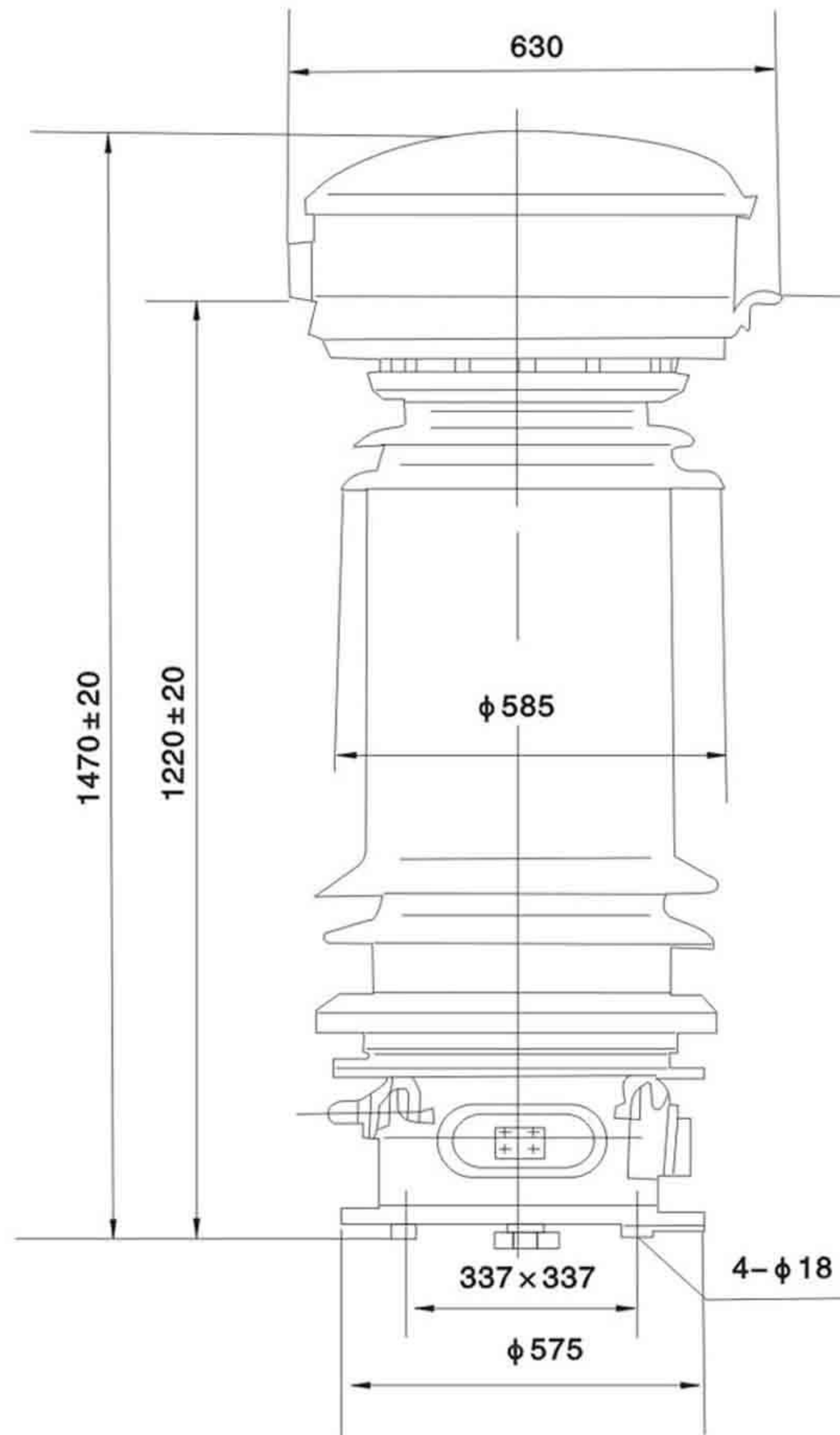
型号 Type	适用地区 Applicable areas	爬电比距 cm/kV Specific creepage distance	重量 (kg)Weight		安装尺寸 (mm) mounting dimension		产品高 (mm) Height of product	周围气温变化 Ambient temperature variation
			油重 (kg) Oil weight	总重 (kg) Total weight	孔距 Pitch	孔数 - 孔径 Hole number hole dia.		
JDC5-66	海拔 1000m 以下 Altitude up to 1000m	1.8	70	430	337x337	4-φ18	1470	-30℃ ~+40℃
JDC5-66W1	海拔 1000m 以下污秽 Altitude up to 1000m Polluted areas							-30℃ ~+40℃
JDC5-66TH	海拔 1000m 以下湿热 Altitude up to 1000m Hot and humid areas	2.5					1700	0℃ ~+40℃
JDC5-66GY	海拔 2000m 以下 Altitude up to 2000m	3.1	90	180				-30℃ ~+40℃

型号 Type	额定电压 (kV) Rated voltage			绝缘水平 insulation level	二次绕组额定输出 (VA) Secondary winding rated output			剩余电压绕组 Residual voltage winding		二次绕组 极限输出 (VA) Secondary winding limit output
	一次绕组 Primary winding	二次绕组 Secondary windingg	剩余电压绕组 Residual voltage winding	设备最高电压 / 工频 / 冲击 Max voltage power frequency /impulse of equipment	0.2 级 0.2class	0.5 级 0.5class	3P 级 3Pclass	额定输出 (VA) Rated output	准确级 Accuracy class	
JDC5-66										
JDC5-66W1 JDC5-66TH	66000 / $\sqrt{3}$	100 / $\sqrt{3}$	100/3	72.5/140/325	150	250	300	100	3P	2000
JDC5-66GY										

JDC5-66(原JCC5-66) 油浸式电压互感器 (Original JCC5-66)oil-immersed type voltage transformer

Key of Power
Electric Professional
>

外形及安装示意图 /Outline dimension



JDCF-66W1 油浸式电压互感器 oil-immersed type voltage transformer

Key of Power
Electric Professional
>



产品简介 /Introduction

本型互感器为单相四绕组、串级式绝缘户外装置，供额定频率 50Hz，66KV 中性点非有效接地系统中作电压，电能测量及继电保护用。产品有良好的励磁特性，运行可靠，维护简便，顶部装有金属膨胀器，为全密封结构。
JDCF-66W1 适用于海拔 1000m 以下，环境温度 -30℃ ~+40℃，技术参数见表。

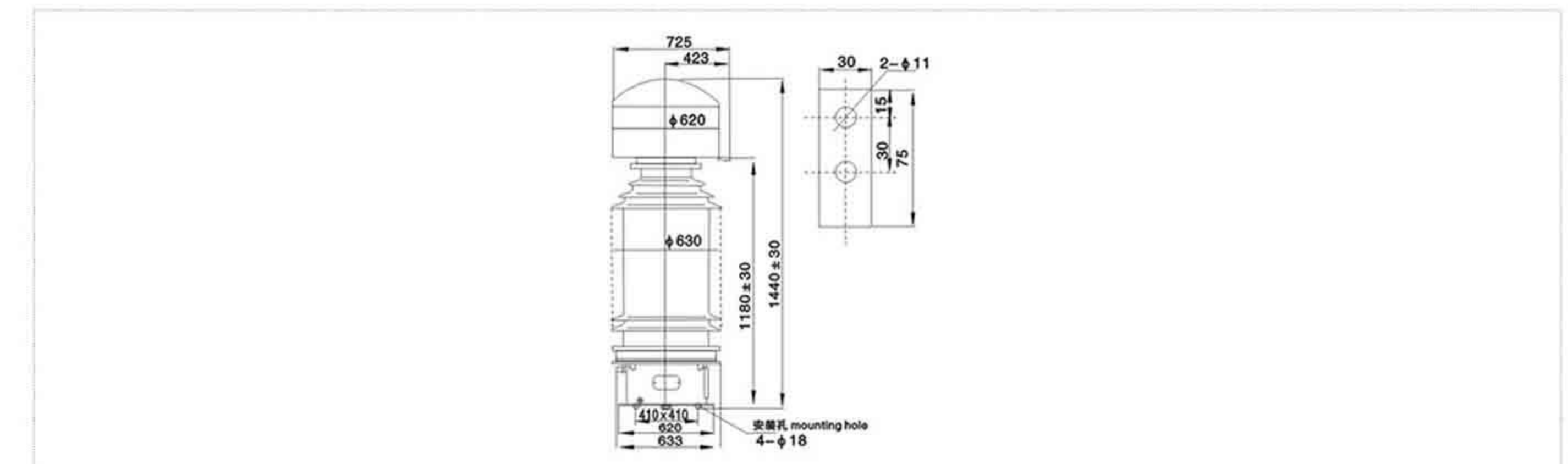
This type of transformer has single-phase three-winding cascade insulating structure, is of outdoor type, it is applicable to neutra point ineffectve earthing systems of 50Hz and 66kv, used for voltage, electric energy measuring and relaying protection. The product has good excitation characteristitc and strong antiresonance capability,is convenient for maintenance, the top is installed with metal expander, featured with ful-sealed structure.

JDCF-66W1is suitable for areas of altitude up to 1000m, ambient temperature within -30℃ ~+40℃. Technical parameters, see table

技术参数 /Technical data

型号 Type	额定一次电压 (kV) Rated primary voltage	测量二次绕组 Measurement secondary winding			保护二次绕组 Protection secondary winding			剩余电压绕组 Residual voltage winding			二次绕组 极限输出 (VA) Secondary winding limit output	额定绝缘水平 (kV) Rated insulation level	爬电比距 (cm/kv) Specific creepage distance	油重 / 总重 (kg) Oil weight Total weight
		额定电压 (kV) Rated voltage	准确级 Accuracy class	额定输出 (VA) Rated output	额定电压 (kV) Rated voltage	准确级 Accuracy class	额定输出 (VA) Rated output	额定电压 (kV) Rated voltage	准确级 Accuracy class	额定输出 (VA) Rated output				
JDCF5-66W1	66 / $\sqrt{3}$	0.1 / $\sqrt{3}$	0.2	50	0.1 / $\sqrt{3}$	3P	400	0.1/3	3P	100	2000	72.5 /140 /325	2.5	90/ 530

外形及安装示意图 /Outline dimension



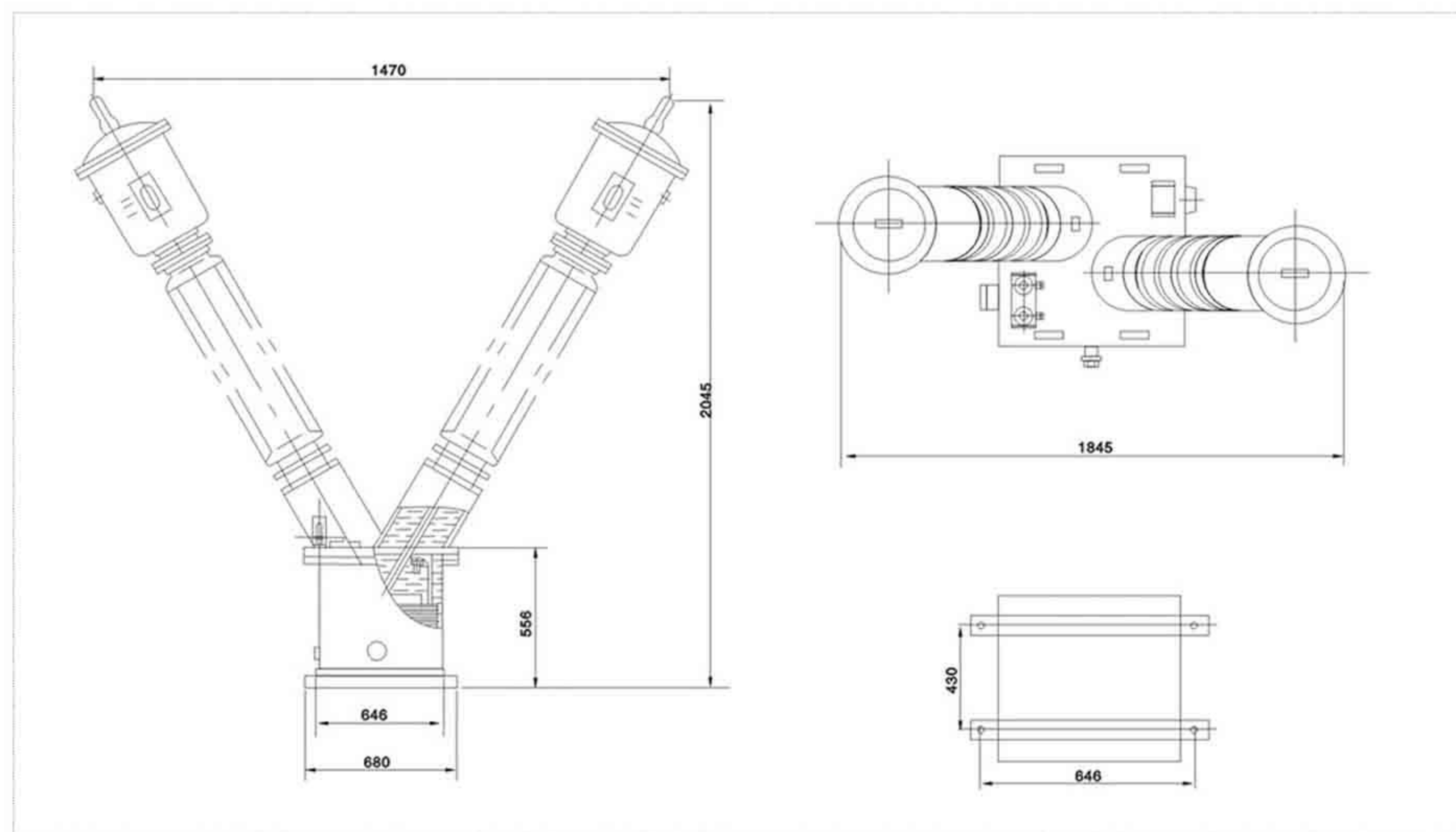
JDT-55

油浸式单相交流电气化铁道牵引供电测量和保护用电压互感器

Oil-immersed type single phase AC voltage transformer for the sue of measurement and protection ij the traction of electrified railway



外形及安装示意图 /Outline dimension



技术参数 /Technical data

产品型号 Type	额定电压比 (kV) Rated voltage ratio	准确级及额定输出 (VA) Accuracy Class and rated output				剩余电压绕组准确级及额定输出 (VA) Accuracy class and rated output of residual voltage windings		频率 (Hz) Frequency	海拔 (m) Altitude	极限输出 (VA) Limit output	瓷套爬电距离 (cm) Creepage distance of porcelain bushing	油重 / 总重 (kg) Oil weight/ total weight
		0.2	0.5	1.0	3	3P	6P					
JDT-55	55/0.1	150	200	300	500			50	1000	1500	196	135/550

Key of Power
Electric ProfessionalLB5-66(W)(原LCWB5-66) 油浸式电流互感器
(Original LCWB5-66)oil-immersed type current transformer

产品简介 /Introduction

本型互感器适用于 50Hz, 66KV 电力系统中作电流、电能测量及继电保护用。该产品为全密封瓷箱式油纸绝缘链型结构, 具有三个或四个二次绕组, 一次绕组制成两段, 通过储油柜上出线端子的不同接线方式, 可以得到两种电流比, 器身装在瓷箱内并固定在底座上, 二次出线由小瓷套引出, 储油柜上装有金属膨胀器。

本产品适用于海拔 1000m 以下, 环境温度 -30℃ ~+40℃

This type of transformer is applicable to electric power systems of 50Hz and 66kv, used for current, electric energy measuring and relaying protection. It has full-sealed porcelain box type oil-paper insulating chain structure, has three or four secondary windings. Primary winding is prepared into two sections, it is able to get two current ratios through different connection modes of outlet terminals on the oil conservator. The machine body is installed in the porcelain box and fixed on the base, secondary outlet wire is led out from the small porcelain bushing, there is metal expander installed on the oil conservator.

The product is suitable for areas of altitude up to 1000m, ambient temperature within -30℃ ~+40℃.

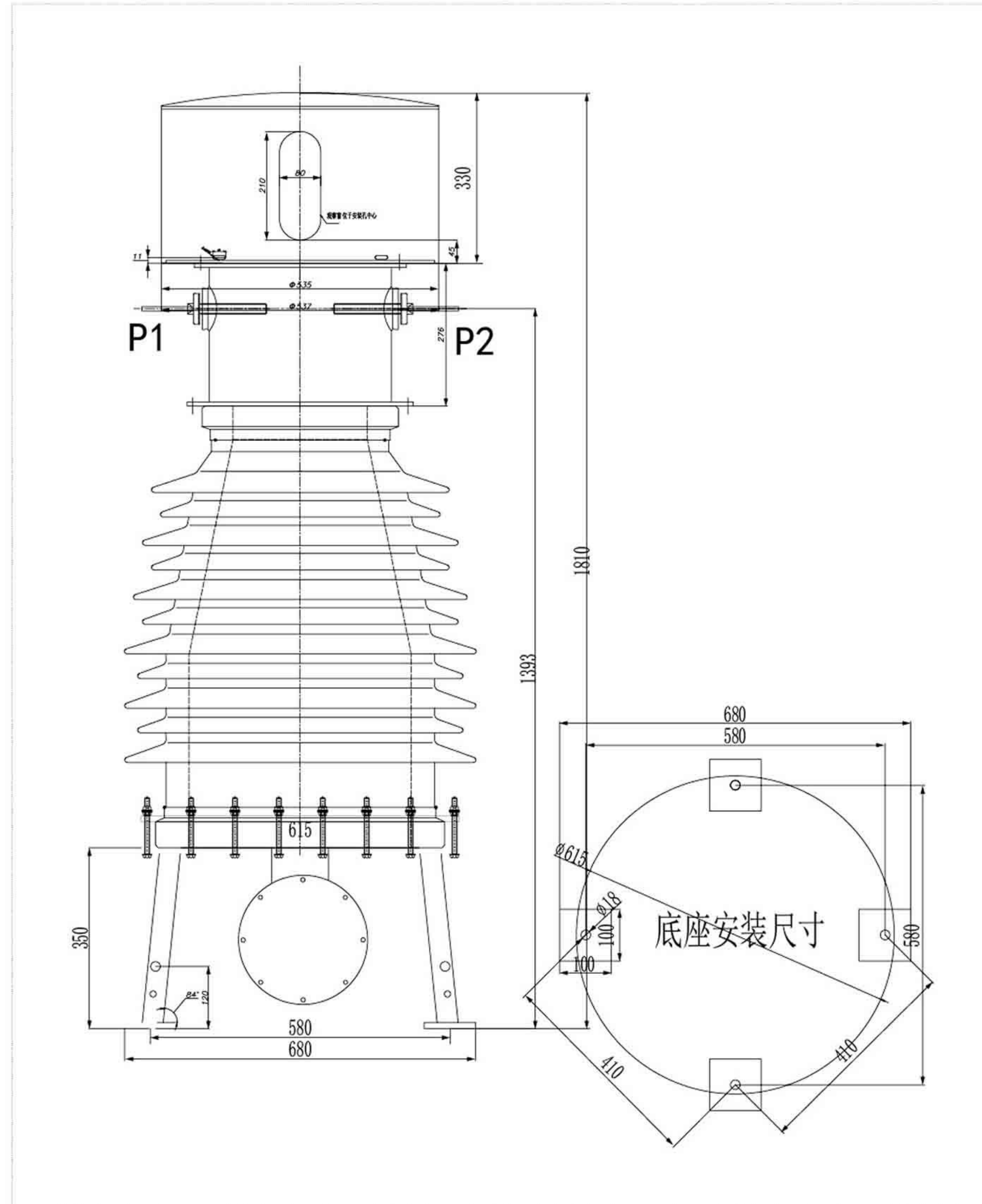
技术参数 /Technical data

额定电压 (kV) Rated voltage	额定 电流比 (A) Rated current ratio	级次组合 Class combination	准确级 Accuracy class	额定输出 (VA) Rated output		准确限值系数 Accuracy limit factor	极性 Polarity	额定短时 热电流 (kA) Rated short time thermal current	额定 动稳定 电流 (kA) Rated dynamic stable current	额定绝缘 水平 (kV) Rated insulation level	爬电比距 cm/kV Specific creepage distance	油重 (kg) Oil weight	总重 (kg) Total weight
				满匝数 Full turn number	抽头 0.5 级 tap0.5 class								
66	2X25~ 2X750/5	P/P/0.5 P/P/0.2 P/P/0.2S P/P/0.5/0.2S	5P 10P	50		15	减 Subtractive	2.7 ~ 50	6.8 ~ 125	72.5 / 140 / 325	1.8	100	440
			0.5	50									
			0.2	50									
			0.2S	40									
	2x600/5 测量级抽头 2x300/5 (Tap of measurement class)	P/P/0.5 P/P/0.2 P/P/0.2S P/P/0.5/0.2S	5P 10P	50		15		25 ~ 50	62.5 ~ 125				
			0.5	50	30								
			0.2	50	30								
			0.2S	40	30								
	2X750/5 测量级抽头 2x400/5 (Tap of measurement class)	P/P/0.5 P/P/0.2 P/P/0.2S P/P/0.5/0.2S	5P 10P	50		15		25 ~ 50	62.5 ~ 125				
			0.5	50	30								
			0.2	50	30								
			0.2S	40	30								
	2x1000/5 测量级抽头 2x500/5 (Tap of measurement class)	P/P/0.5 P/P/0.2 P/P/0.2S P/P/0.5/0.2S	5P 10P	50		15		25 ~ 50	62.5 ~ 125				
			0.5	50	30								
			0.2	50	30								
			0.2S	40	30								

LB5-66(W)(原LCWB5-66) 油浸式电流互感器 (Original LCWB5-66)oil-immersed type current transformer

Key of Power
Electric Professional
>

外形及安装示意图 /Outline dimension



Key of Power
Electric Professional
>

LCWD1-35(LABN1~35W2) 型电流互感器 LCWD1-35(LABN1~35W2)Current transformer

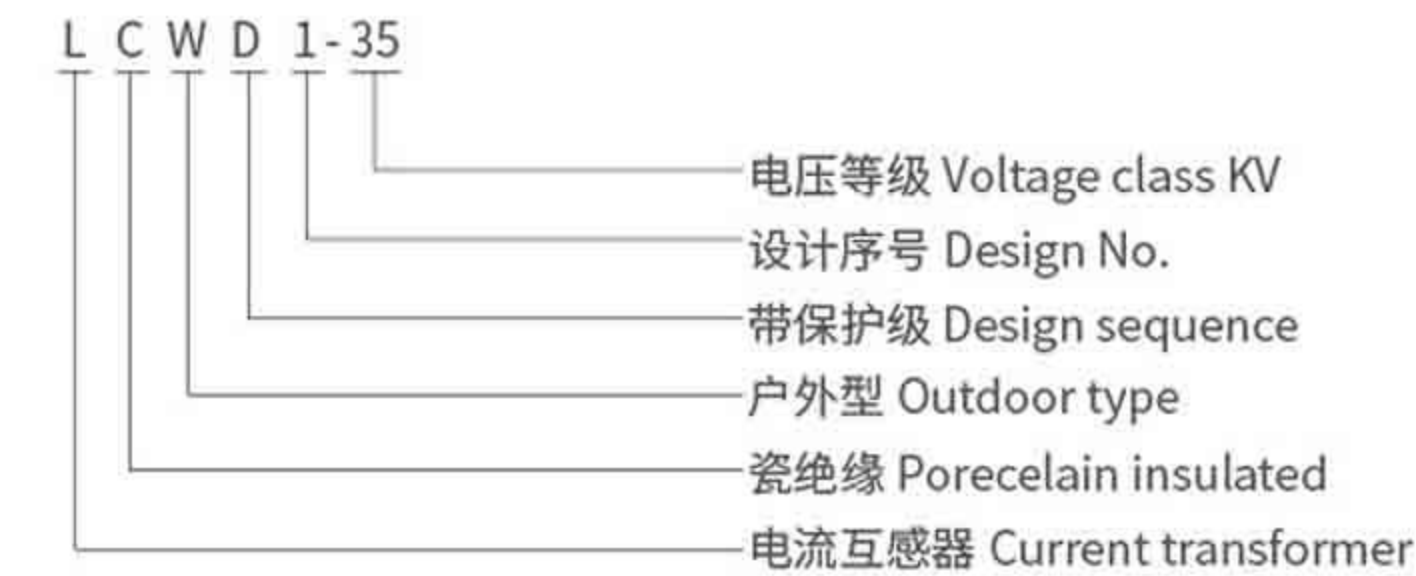


概述 /Description

本型电流互感器为油绝缘、户外型产品，适用于额定频率 50Hz 或 60Hz、额定电压为 35KV 及以下的电力系统中，作电能计量、电流测量和继电保护用。

The current transformer of type LCWD1-35 is oil insulated and outdoor product. It is used for metering energy, current and relay protection in electric system up to rated frequency 50Hz or 60Hz and rated voltage 35kV.

型号含义 / Type description



结构简介 / Construction

本型电压互感器结构紧凑、体积小、重量轻，器身经过真空干燥处理，装于充满变压器油的套管中。其上半部分为一次绕组，下半部分为二次绕组，套管固定于底座上，套管顶部装有储油柜，一次绕组出头分别从柜壁两侧引出，标有 P1 的起始端子用小瓷套与柜壁绝缘，末端 P2 与柜壁直接连接，储油柜正面装有表示不同温度的油表。

The type of product has compact structure, small volume, lightweight and its body treated by drying vacuum. It is installed in the bushing filled with transformer oil. The bushing's upper half-part is the primary winding and its down half part is the secondary winding. The bushing is fixed on the pedestal. The oil storage cabinet is on the top of the bushing. The primary winding's end is led from the two side of the cabinet's wall. It's starting terminal sign P1 is insulated with the wall by some little porcelain pipes and terminal signed P2 is directly connected with the wall. The front of the oil storage cabinet has some oil-dials showing different temperature and graduation.

技术参数 /Technical data

额定绝缘水平 40.5/95/185kV;
额定二次电流 :5A;
额定一次电流、准确级组合、额定输出及动、热稳定电流见表;
外绝缘爬电距离: 普通型 ≥ 735;W2 型 >1100。

Rated insulation level:40.5/95/18 kV;
Rated primary current: 5A;
Rated primary current, accuracy classes combination, rated output, dynamic and thermal current see form.
Creepage distance of outside insulation: general type ≥ 735;W2 type ≥ 1100.

LCWD1-35(LABN1~35W2) 型电流互感器

LCWD1-35(LABN1~35W2)Current transformer

Key of Power
Electric Professional
>

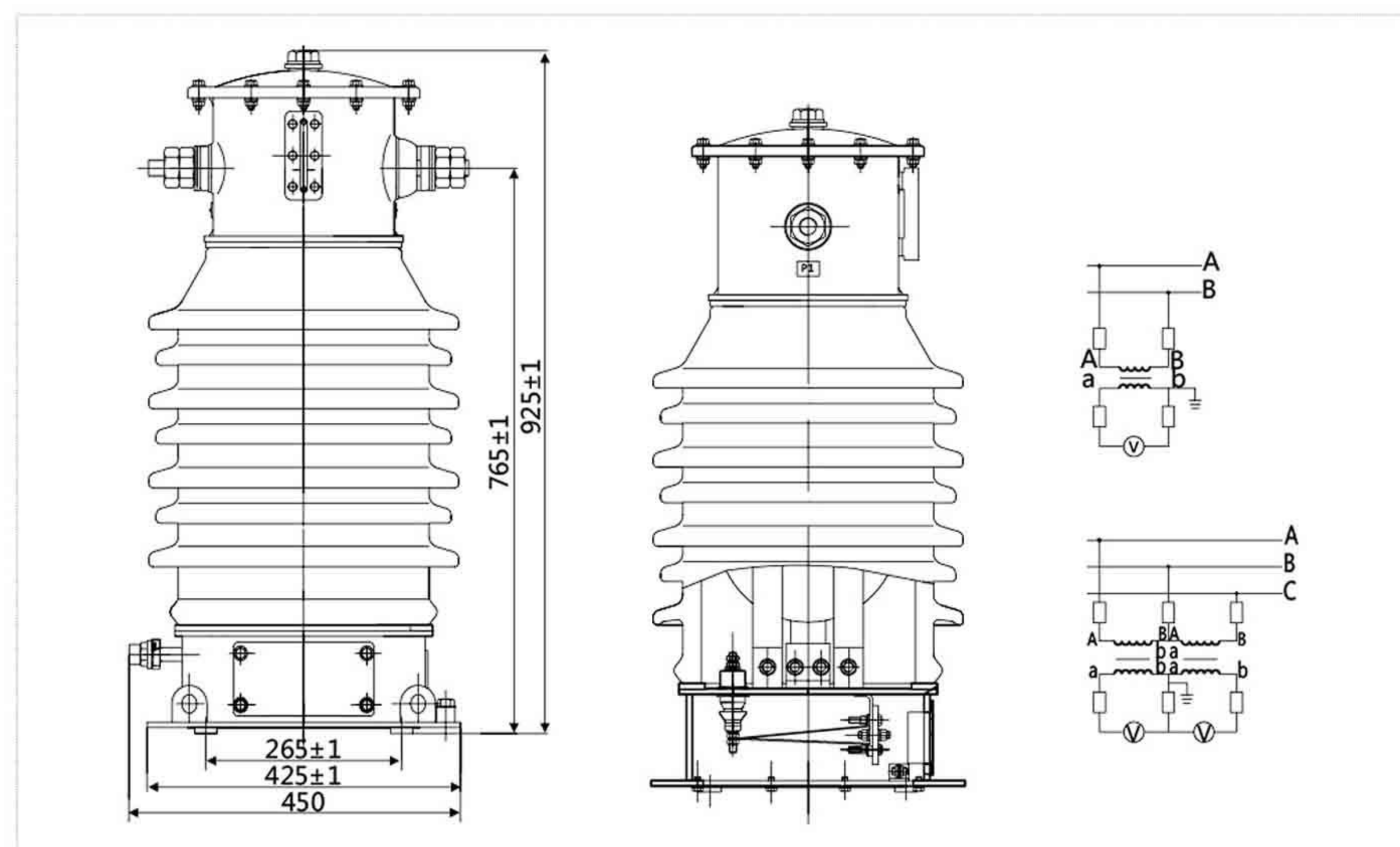
▣ 技术参数 / Technical data

额定一次电流 Rated primary current A	准确级次组合 Accuracy classed combination	额定输出 Rated output(VA)			短时热电流 (I _{th}) Short-time thermal current (KA/S)	额定动稳定电流 (I _{dyn}) Rated dynamic current(KA)
		0.2 (s)	0.5 (s)	10P15		
5	0.5/10P15 0.2/10P15 0.2/0.5 0.2/0.2	15	25	50	0.375	0.95
10					0.75	1.9
15					1.12	2.9
20					1.5	3.8
30					2.25	5.7
40					3	7.6
50					3.75	9.6
75					5.62	14.5
100					7.5	19.2
200					11.25	28.7
300					15	38.3
400					22.5	57.5
600					30	76.5
800					45	115
1000					45	115
1200					45	115
1500					45	115

注：如果用户有其它特殊要求，可对部分参数进行适当调整。

Note: If users have other special requirements, we may do some relevant adjustment to partial data.

▣ 外形尺寸 / Overall Dimension

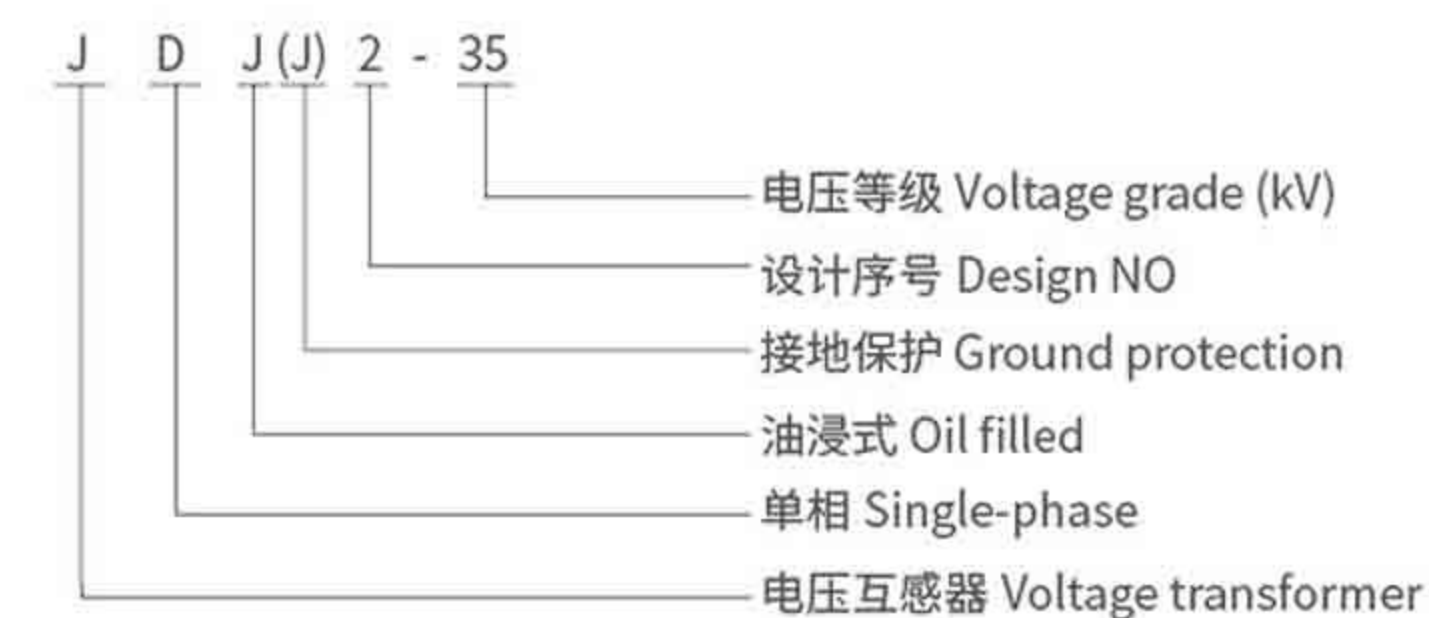
Key of Power
Electric Professional
>JDJ(J)2-35 型电压互感器
JDJ(J)2-35 Voltage transformer type

▣ 概述 / Description

本系列电压互感器为单相油浸式产品，适用于额定频率为 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-filled product. It is used for metering electric energy, voltage control and relay protection in the electric system up to rated frequency 50Hz or 60Hz and rated voltage 35kV.

▣ 型号含义 / Type description



▣ 结构简介 / Construction

本系列电压互感器的铁芯由长形硅钢片叠成，为三柱芯式，器身用铁夹固定在箱盖上，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 sheet. The body is fixed on the box cover by clamping. There have the primary and secondary busing also on the box cover.

▣ 技术参数 / Technical data

产品性能符合标准 GB1207-2006 和 IEC168;
额定绝缘水平 :40.5/95/200kV;
额定频率 :50Hz 或 60Hz;
环境温度 -45°C ~+45°C;
污秽等级 :IV 级。

The voltage transformers are in accordance GB1207 and IEC168 standards;
Rated insulation level 40.5/95/200kV;
Rated frequency 50Hz or 60Hz;
Ambient temperature -45°C ~+45°C;
Pollution class IV.

JDJ(J)2-35 型电压互感器

JDJ(J2-35)Voltage transformer type

Key of Power
Electric Professional

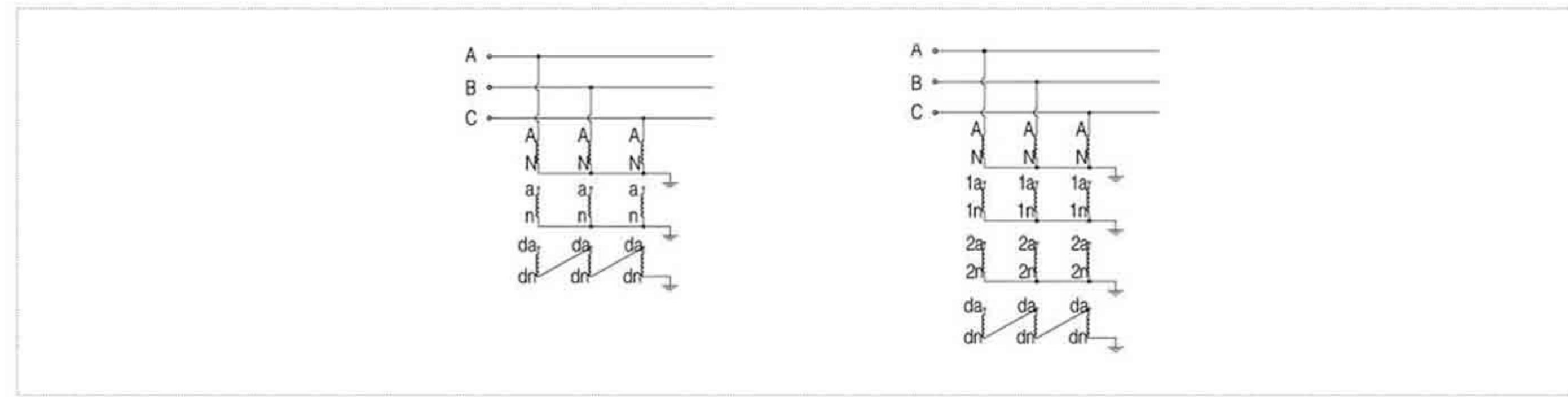
技术参数 / Technical data

型号 Type	额定电压比 Rated voltage ratio (V)	准确级 Accuracy class	额定输出 (VA) $\cos \Phi=0.8$ Accuracy class and relative rated output				二次极限输出 (VA) Limiting thermal output of secondary windin	重量 Weight (kg)
			0.2	0.5	1.0	6P		
JDJJ2-35	$\frac{35}{\sqrt{3}} / \frac{0.1}{\sqrt{3}} / \frac{0.1}{3}$	0.2/6P 0.5/6P 1.0/6P	40	150	250	100	1000	95
	$\frac{35}{\sqrt{3}} / \frac{0.1}{\sqrt{3}} / \frac{0.1}{\sqrt{3}} / \frac{0.1}{3}$	0.2/0.5/6P	20	80		100		

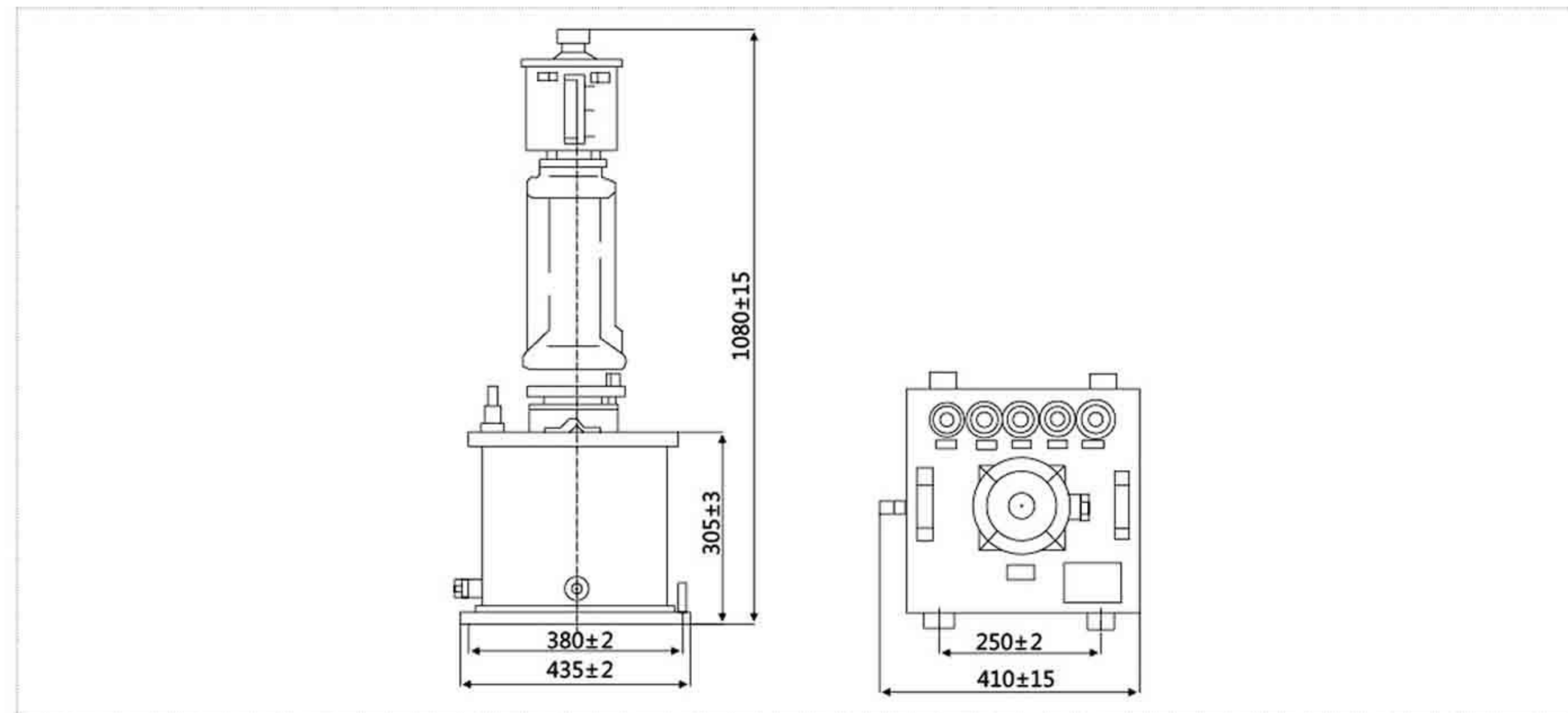
注：如用户要求的参数超出上表范围，可与我公司协商后确定。

Noet:if user's data go beyond the above-mentioned scope,they may be subject to an agreement between manufacturer and purchaser.

接线图原理图 / The principle diagram of wiring



外形尺寸 / Overall Dimension



Key of Power
Electric Professional

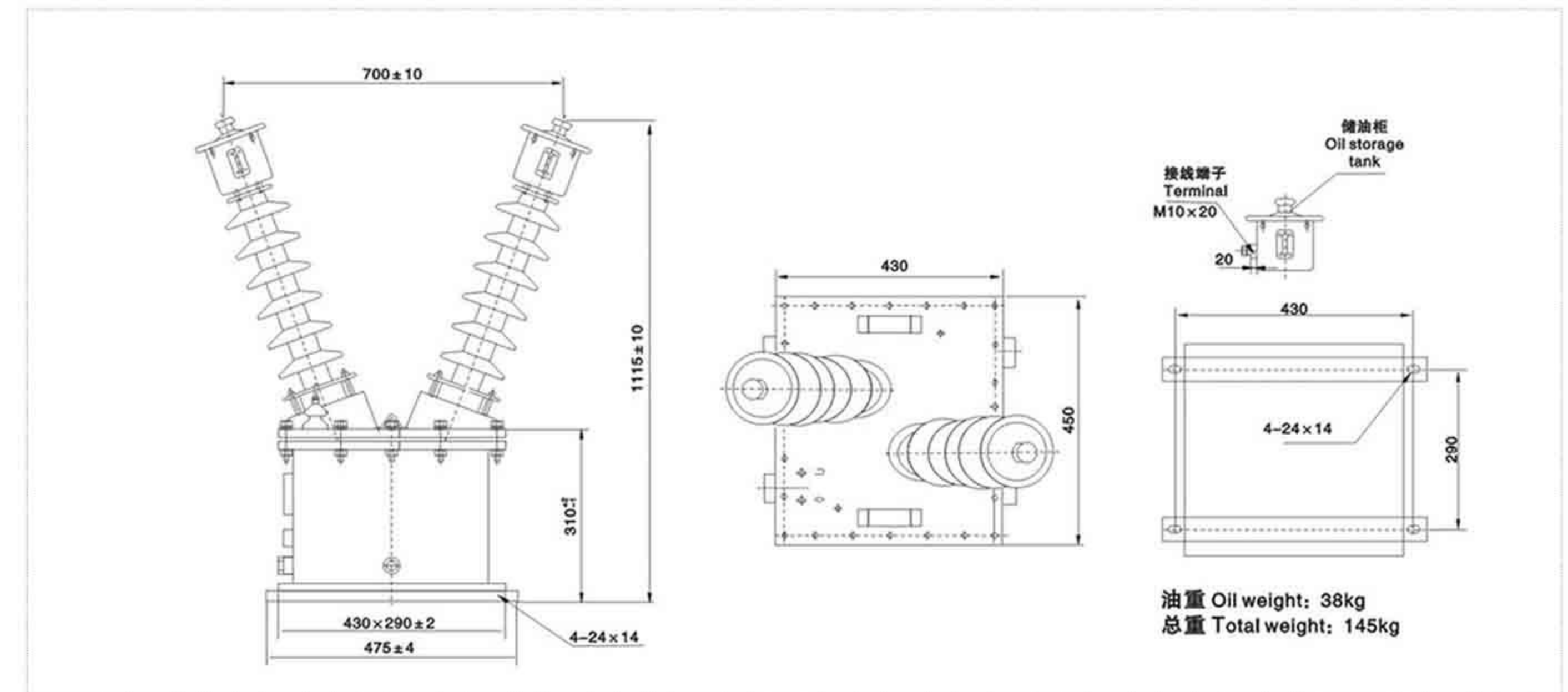
JDT-27.5

油浸式单相交流电气化铁道牵引供电测量和保护用电压互感器

Oil-immersed type single phase AC voltage transformer for the use of measurement and protection in the traction of electrified railway



外形及安装示意图 / Outline dimension



技术参数 / Technical data

产品型号 Type	额定电压比 (kV) Rated voltage ratio	准确级及额定输出 (VA) Accuracy Class and rated output				剩余电压绕组准确级及额定输出 (VA) Accuracy class and rated output of residual voltage windings		频率 (Hz) Frequency	海拔 (m) Altitude	极限输出 (VA) Limit output	瓷套爬电距离 (cm) Creepage distance of porcelain bushing	油重 / 总重 (kg) Oil weight / total weight
		0.2	0.5	1.0	3	3P	6P					
JDT-27.5	27.5/0.1	100	150	250	500			50	1000	1000	120	38/145

JD2-35W(原JDJ2-35W)/JDJ2-35GYW(原JDJ2-35GYW) 油浸式电压互感器
JD2-35W(Original JDJ2-35W)/JDJ2-35GYW(Original JDJ2-35GYW) oil-immersed
type voltage transformer

Key of Power
Electric Professional
>



产品简介 /Introduction

本型互感器适用于额定频率 50Hz, 35kV 电力系统中供电压、电能测量及继电保护用。

本产品适宜户外或户内使用,使用地点:JD2-35W 型海拔高度在 1000m 以下,JD2-35GYW 型海拔高度在 3000m 以下,周围环境温度变化为 -30℃ ~+40℃,技术参数见下表:

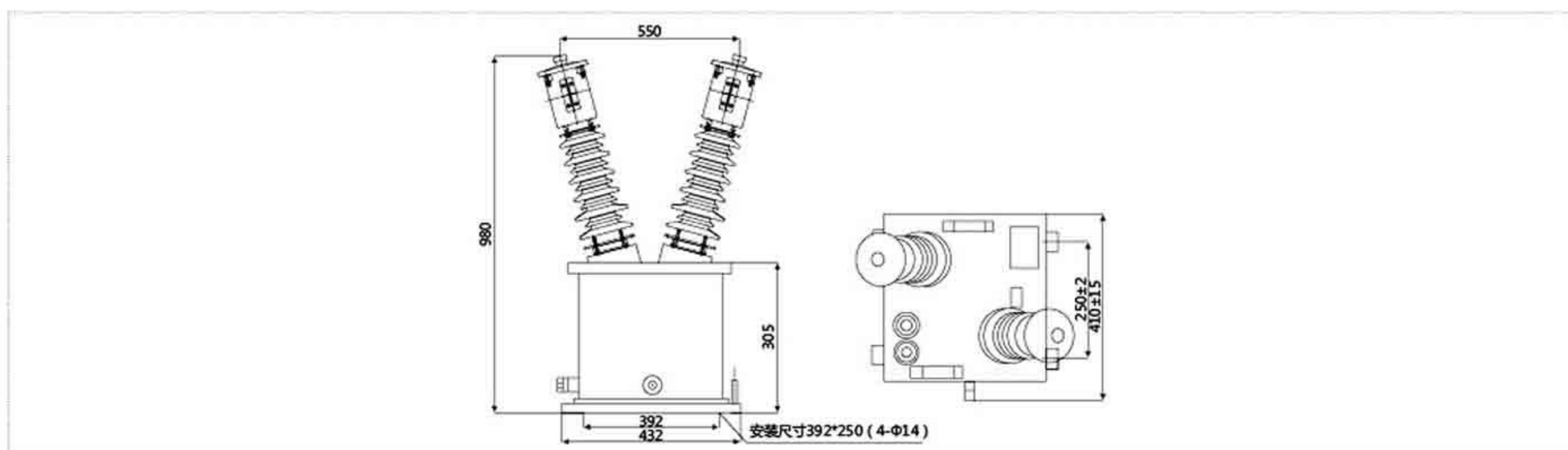
This type of transformer is applicable to electric power systems of 50Hz and 35kV,used fr voltage, elctric energy measuring and replaying protection.

The product is suitable for outdoor or indoor use, using sites: JD2-35W type for areas of altitude up to 1000m,JD2-35GYW type for areas of altitude up to 3000m, ambient temperature variation should be within -30℃ ~+40℃, technical parameters as follows:

技术参数 /Technical data

型号 Type	额定一次电压 (kV) Rated primary voltage	额定二次电压 (kV) Rated Secondary voltage	二次绕组额定输出 (VA) Rated output of secondary winding				额定绝缘水平 (kV) Rated insulation level			爬电比距 (cm/kv) Specific creepage distance	油重 (kg) Oil weigh	总重 (kg) total weight
			0.2 级 (0.2 class)	0.5 级 (0.5 class)	3P 级 (3P class)	极限输出 (VA) limit output	设备最高电压 Max voltage of equipment	工频耐压 Power frequency withstand voltage	冲击耐压 Impulse withstand voltage			
JD2-35W	35	0.1	100	150	500	1000	40.5	95	200	2.0	33	120
JD2-35GYW										2.5		

外形及安装示意图 /Outline dimension



LB6-35(W) 油浸式电流互感器
oil-immersed type current transformer

Key of Power
Electric Professional
>



产品简介 /Introduction

本型互感器适用于 50Hz, 35KV 电力系统中作电流、电能测量及继电保护用。该产品为全密封结构,链型绕组、瓷绝缘户外用电流互感器。电场分布均匀,介质损耗小。

本型产品适用于海拔 1000m 以下,环境温度 -30℃ ~+40℃。适用 I、II、III 级污秽地区。可根据用户要求安装膨胀器。

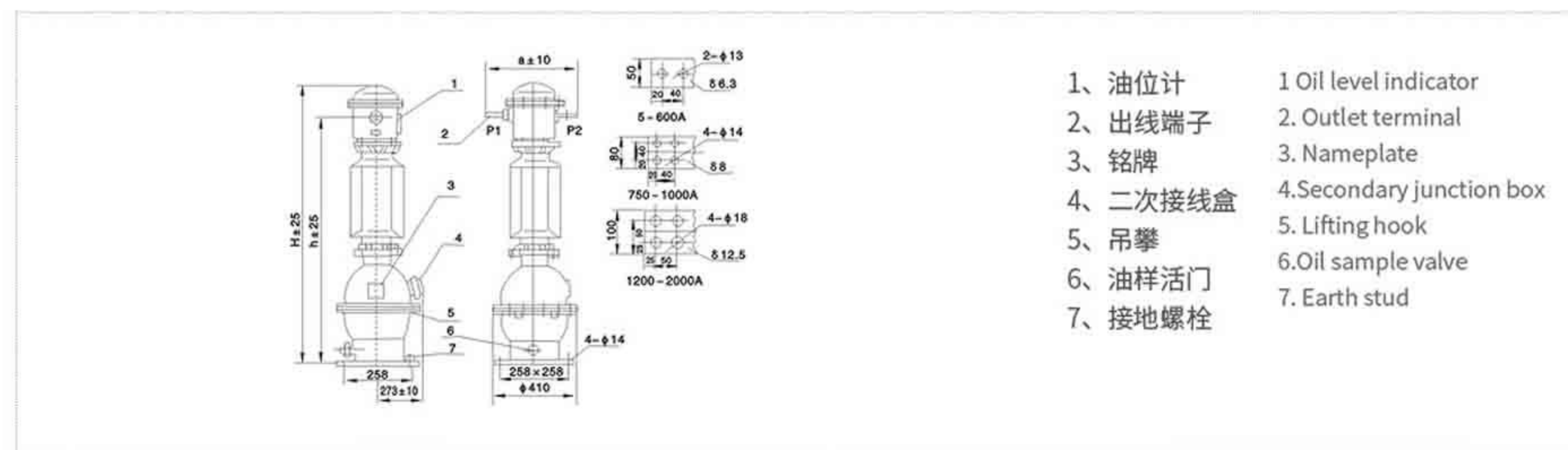
This type of transiormer is applicable to electric power systems of 50Hz and 35kV,used for current, electric energy measuring and relaying protection. It is a kind of porcelain insulated outdoor used current transformer with full-sealed structure, chain winding, uniform electric field distribution, and low dielectric dissipation.

The product is suitable for areas of altitude up to 1000m, ambient temperature within -30℃ ~+40℃, applicable for polluted areas of class I, II, III. Expander can be installed at request.

技术参数 /Technical data

额定电压 (kV) Rated voltage	额定一次电流 (A) Rated Primary current	额定二次电流 (A) Rated Secondary current	级次组合 Class combination	额定二次输出 Rated Secondary output		准确限值系数 Accuracy limit factor	额定短时热电流 (KA) Rated short time thermal current	额定动稳定电流 (KA) Rated dynamic stability current	额定绝缘水平 (kV) Rated insulation level	极性 Polarity	爬电比距 cm/kV Specific creepage distance	油重 (kg) Oil weight	总重 (kg) total weight
				准确级 Accuracy class	VA								
35	5~2000	5	P1/P2/0.5 P/P2/0.2 P1/P2 0.2s	P1	40	15	1s 短时热电流为 100In 最大 40 1s short-time thermal current is 100In,max 40	250In 最大 (max) 100	40.5 /95 /185	减 Subtractive	2.5	30 ~ 25	162 ~ 207
				P2	30	20							
				0.5	40								
				0.2	30								

外形及安装示意图 /Outline dimension



LB6-35W2 油浸式电流互感器 oil-immersed type current transformer

Key of Power
Electric Professional
>



产品简介 /Introduction

LB6-35W2 型电流互感器适用于 50Hz, 35KV 电力系统中作电流、电能测量及继电保护用。该产品为全密封结构, 链型绕组、瓷绝缘户外用电流互感器。电场分布均匀, 介质损耗因数小。

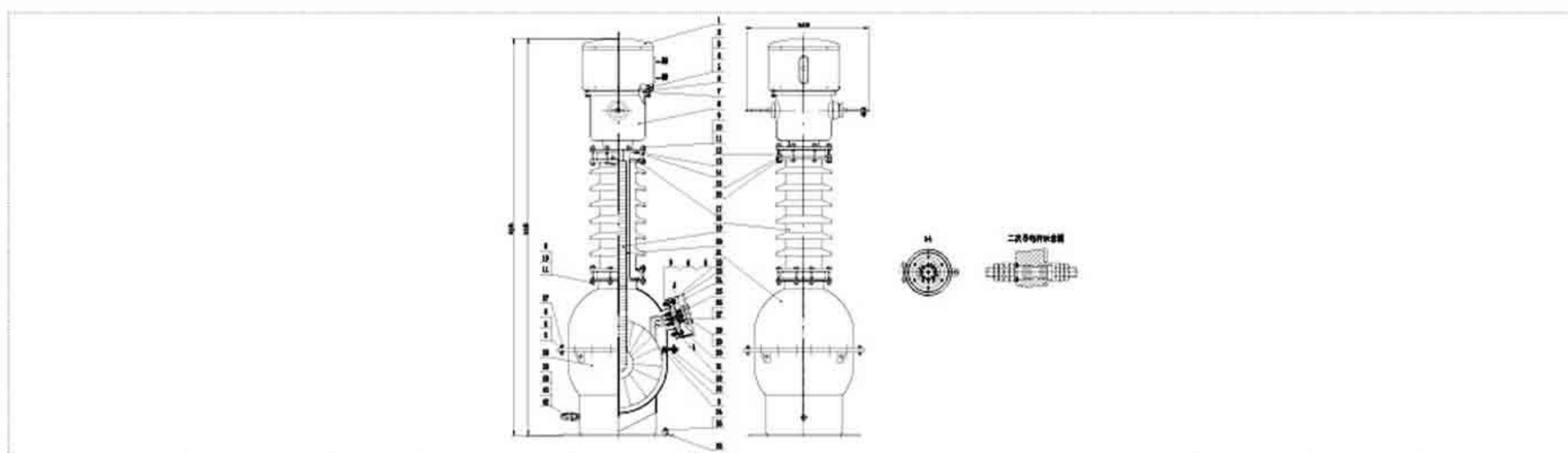
本型产品适用于海拔 1000m 以下, 环境温度 -30℃ ~+40℃。适用 II、III、IV 级污秽地区, 装金属波纹膨胀器。

LB6-35W2 type current transformer is applicable to electric power systems of 50Hz and 35kV, used for current, electric energy measuring and relaying protection. It is a kind of porcelain insulated outdoor used current transformer with full-sealed structure, chain winding, uniform electric field distribution, and low dielectric dissipation factor. The product is suitable for areas of altitude up to 1000m, ambient temperature within -30℃ ~+40℃, applicable for polluted areas of class II, III and IV, it is installed with corrugated expander.

技术参数 /Technical data

系统额定电压 (kV) Rated voltage of system	额定一次电流 (A) Rated primary current	额定二次电流 (A) Rated secondary current	级次组合 Class combination	测量级额定二次负荷与仪表保安系数 (FS) Rated secondary load of measurement class and instrument security factor	保护级额定二次负荷与准确限值系数 (ALF) Rated secondary load of protection class and accuracy limit factor	短时热电流 (kA/3s) Short-time thermal current	额定动稳定电流 (kA) Rated dynamic stable current	爬电距离 (mm) Creepage distance	额定绝缘水平 (KA) Rated insulation level	局放水平 (pc) Partial discharge level	油重 / 总重 kg Oil weight / Total weight
35	5~2000	5 (1)	P/P/P 0.2 (0.2s)	30~40VA FS ≤ 5 或 (or) FS ≤ 10	30~40VA 5P15~5P20	100IIn 最大 (max) 40	250IIn 最大 (max) 100	1013 或 (or) 1256	40.5/ 95/185	≤ 5	20~35 /168~ 240

外形及安装示意图 /Outline dimension



LVB(T)-35(W) 油浸式电流互感器 oil-immersed type current transformer

Key of Power
Electric Professional
>



产品简介 /Introduction

本型互感器适用于 50Hz, 35kV 电力系统中作电流、电能测量及继电保护用。

该产品为倒立式, 由底座、瓷套、储油柜、器身等部分组成, 一次绕组和二次绕组均在储油柜内, 一次绕组为贯穿式。一次与二次绕组之间主绝缘为电容式油纸绝缘结构, 电场分布均匀, 介质损耗因数小, 局部放电量低。二次绕组可为 2-4 个, 级次可任意组合, 可根据用户需要生产 0.2S 级特殊用途互感器, 保护绕组分稳态保护和暂态保护两种。

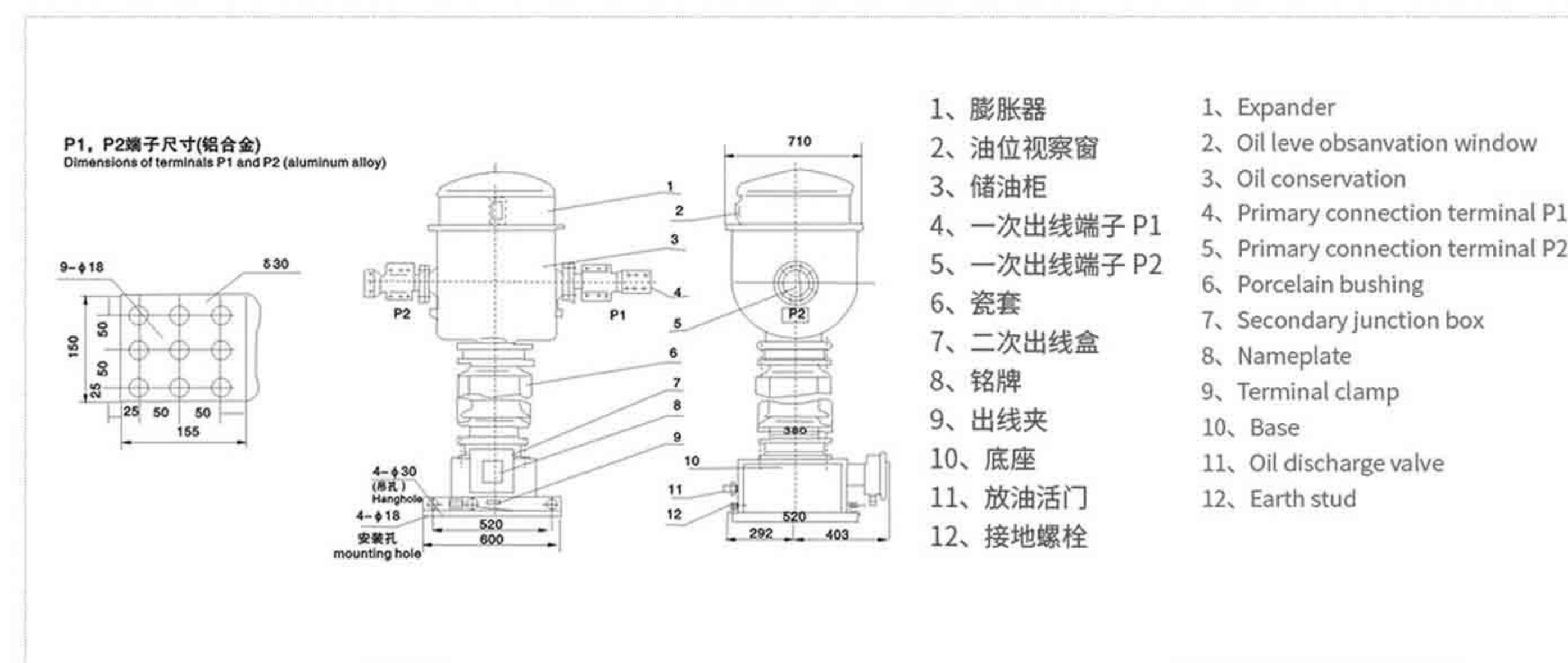
该产品适用于户外装置, 环境温度 -40℃ ~+40℃, 普通型产品海拔 ≤ 1000m, 高原型产品海拔 ≤ 3500m。技术参数见表 1。

This type of transformer is applicable to electric power systems of 50Hz and 35kV, used for current, electric energy measuring and relaying protection. The product is inverted type, is composed of base, porcelain bushing, oil conservator, machine body and so on, primary winding and secondary winding are all in the oil conservator, primary winding is of traversing type. Main insulation between the primary and secondary windings is a capacitor type oil-paper insulating structure, with uniform electric field distribution, low dielectric dissipation factor and low partial discharge quantity. Secondary winding number can be 2-4, class can be combined at random, we could produce transformers of class 0.2S for special purposes according to user's requirements, winding protection can be divided into steady state protection and transient state protection two types.

This product is of outdoor type, ambient temperature shall be within -40℃ ~+40℃, altitude of common type products shall be ≤ 1000m, altitude of plateau type products shall be ≤ 3500m.

Technical parameters, see table 1.

外形及安装示意图 /Outline dimension



LVB(T)-35(W) 油浸式电流互感器
oil-immersed type current transformer

Key of Power
Electric Professional
>

▣ 技术参数 / Technical data

额定 电流比 (A) Rated current ratio	级次组合 Class combination	准确级 Accuracy class	额定输出 (VA) Rated output		准确限值条件 Accuracy limit condition			瓷套爬 电距离 Creepage distance of porcelain bushing	油重 oil weight	外形尺寸 长 x 宽 x 高 Outline dim. LxWxH	短时 热电流 Short-time thermal current	额定 动稳定 电流 Rated dynamic stable current	额定 绝缘 水平 Rated insulation level
			满匝数 Full turn number	抽头 tap	T1 S	ALF Kssc (or) 或 FS	工作循 环 (S) Working cycle		总重 total weight				
			VA					mm	Kg	mm	kA	kV	
4000/5	10P/10P/0.2	10P	50			15		1012	70 390	1220x725X1720	50 (3S)	125	40.5/95/185
		0.2	50			FS ≤ 5							
2000/1	5P/5P/0.2	5P	25			20	1012	70 390	1220X700X1720	31.5 (3S)	80		
4000/1		5P	25			10							
8000/1		0.2	25			FS ≤ 5							
4000/1	TPY/TPY/0.2	TPY	10		0.1	20	C-0.1-0	1012	100 580	1390x700x1900	50 (3S)	125	
		0.2	50			FS ≤ 5							
4000/5 0.2 级抽头 (class tap) 2000/5 8000/1 (TPY 级 class)	0.2/10P/ TPY/TPY	0.2	80	60		FS ≤ 5	1012	100 580	1390x700x1900	50 (3S)	125		
		10P	80			15							
		TPY	10		0.1	5						C-0.1-0	
4000/1	5P/0.2/ TPY/TPY	5P	15			20	1012	120 780	1520*760x1990	50 (3S)	125		
		0.2	40			FS ≤ 5							
		TPY	15		0.2	12.5						C-0.1-0	
3000/5 3000/1 (TPY 级 class)	0.2/5P/TPY	0.2	50			FS ≤ 5	1012	100 580	1390X700X1900	50 (3S)	125		
		5P	50			20							
		TPY	15		0.1	12.5						C-0.1-0	
8000/1	5P/TPY/TPY	5P	30			10	1012	120 700	1540x740x1900	50 (3S)	125		
		TPY	10		0.1	5						C-0.1-0	
1200/1	5P/0.2/TPY	5P	30				1012	120 580	1390x740x1900	50 (3S)	125		
		0.2	30										
		TPY	10		0.1	12.5						C-0.1-0	
4000/1	TPY/TPY/ 5P/0.2	TPY	15		0.2	10	C-0.05-0	1012	100 580	1390x740X1900	31.5 (3S)	80	
4000/5		5P	25			10							
3000/1		0.2	25			5							
5000/1	0.2/10P /TPY/TPY	0.2	50			5	1012	100 580	1340X740x1900	50 (3S)	125		
5000/1		10P	50			10							
6000/1		TPY	10		0.1	10						C-0.1-0	
10000/1 (抽头 5000/1) (tap5000/1)	TPY/10P/0.2	TPY	15		0.1	12.5	C-0.05-0	1012	150 850	1560x790x2200	50 (3S)	125	
		10P	30			15							
		0.2	30	30									