

GFJLSZV-35W

OUTDOOR COMBINED 33KV THREE PHASE INSTRUMENT CURRENT TRANSFORMER & VOLTAGE TRANSFORMER

This model GFJLSZV-35W outdoor combined current transformer and voltage transformer is used in 36KV, 35KV, 34.5KV, 33KV, 27KV, 25KV power system, for measuring and protection. It has been used in outdoor pole mounted and transmission line. This product has the characteristics of high efficiency and large capacity, and can be customized according to customer requirements. This model combined CT & VT is suite for 33KV 3P3W or 3P4W power system. For insulation and protection, the assembly is cast in hydrophobic cycloaliphatic epoxy (HCEP) using automatic vacuum pressure. The HCEP material offers superior arc track, ozone, and ultraviolet-resistive properties while maintaining physical strength. Primary and secondary use pure electrolytic copper, both winding and core have high voltage shielding processing. The hydrophobic surface properties of HCEP ensure highly reliable performance in wet, humid, or polluted environments.

It can be used for less than 36KV distribution line, coal mine, power plant, rail way, factories.. .

The 33kv combined CT & VT are strictly comply IEC60044-1,2, IEC 61869-1,2,3, IEC60186, ANSI/IEEE C57.13, NBR6855, BS 7729, GB1207-2006, GB/T 20840.3-2013, GB/T 22071.2-2017, GB/T 20840.102-2020. It has been used many substations and wind power plants.

Applications

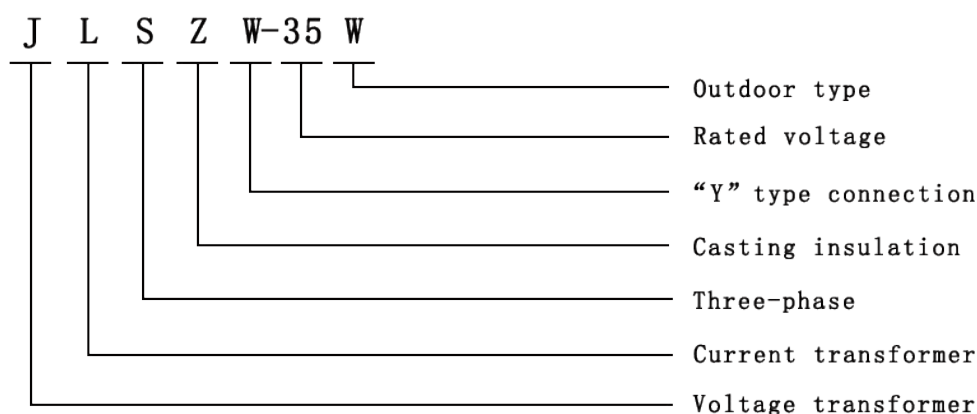
1. Rail way;
2. Coal Mine;
3. Power plant;
4. Energy meter;
5. Power Meter;
6. Power station;
7. Oil, gas company;
8. Solar power plant;
9. Wind power plant;
10. Distribution system;
11. Electric Power Bureau;
12. Measuring instrument;
13. MV Power Quality Analyzer
14. Primary metering cabinets;
15. Substation metering and relaying;
16. Industrial and mining enterprises;



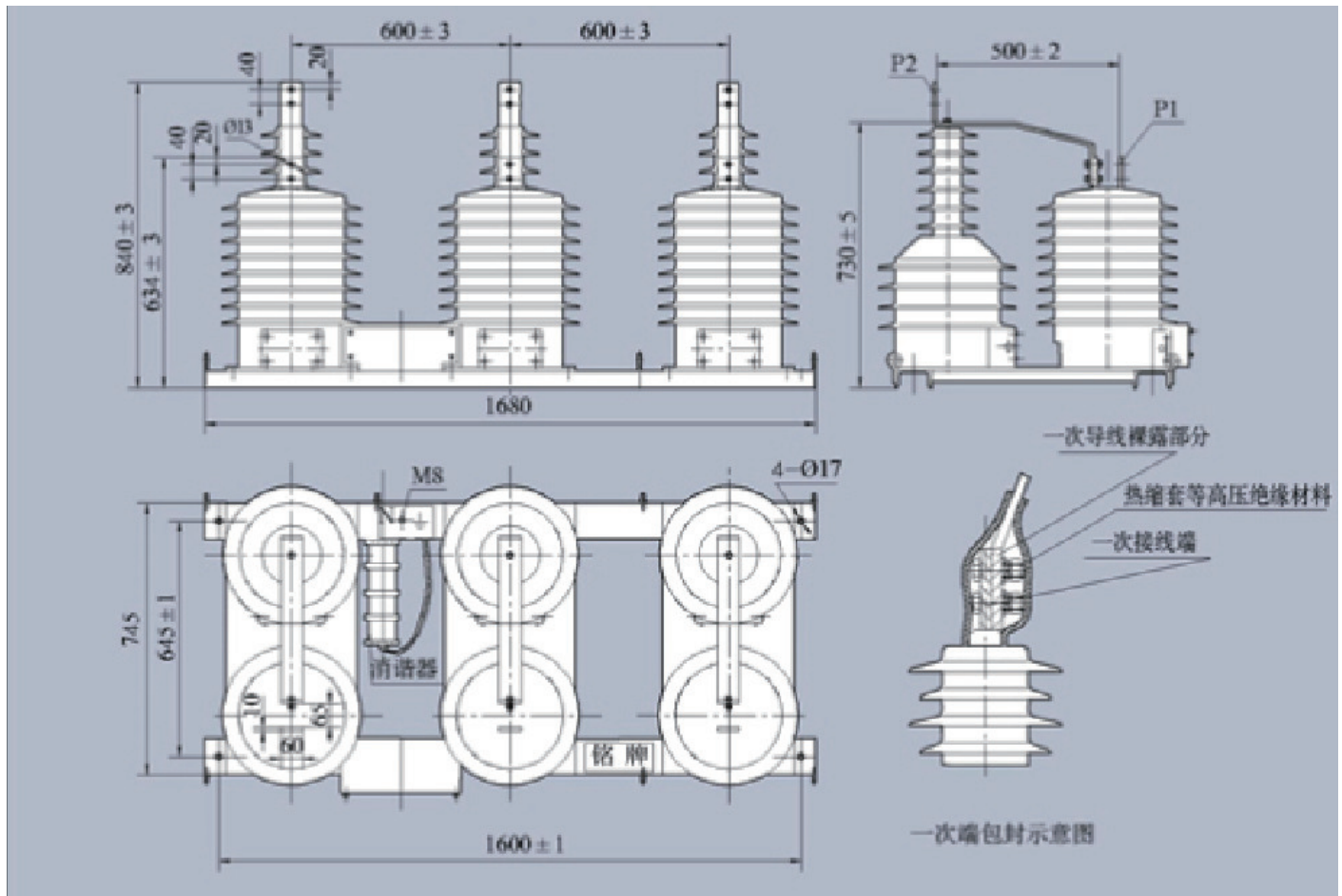
Features

1. Weight: 500KG;
2. Using life: 30 years;
3. Rated voltages up to 36 kV;
4. Secondary current output 5A or 1A;
5. Tin plated copper primary terminals;
6. Multi windings post type outdoor design;
7. Reasonable structure and robust construction;
8. Rated basic insulation levels (BIL) up to 200 kV;
9. Surface creepage distance more than 1300mm;
10. Material:Epoxy(HCEP) + outdoor silicone cover;
11. 36KV, 35KV, 34.5kv, 33KV, 27KV, 25KV Outdoor;
12. Standard & Special High Accuracy metering classes;
13. Voltage transformer accuracy class :0.2 0.5 1 3 3P 6P;
14. Rated voltage primary (KV): 35/ $\sqrt{3}$, 35, 33/ $\sqrt{3}$, 33, 27/ $\sqrt{3}$, 27;
15. Secondary voltage: (KV) 0.1 $\sqrt{3}$, 0.1, 0.11 $\sqrt{3}$, 0.11, 0.12 $\sqrt{3}$, 0.12;
16. Convenient installation, suitable for installation in any location;
17. IEC60044, IEC 61869, GB/T 20840 & ANSI/IEEE C57.13 Standards;
18. Outdoor combined current transformer and voltage transformer design;
19. Current transformer class: 0.2S 0.2, 0.5S, 0.5, 1, 5P20, 5P10, 10P20, 10P15;

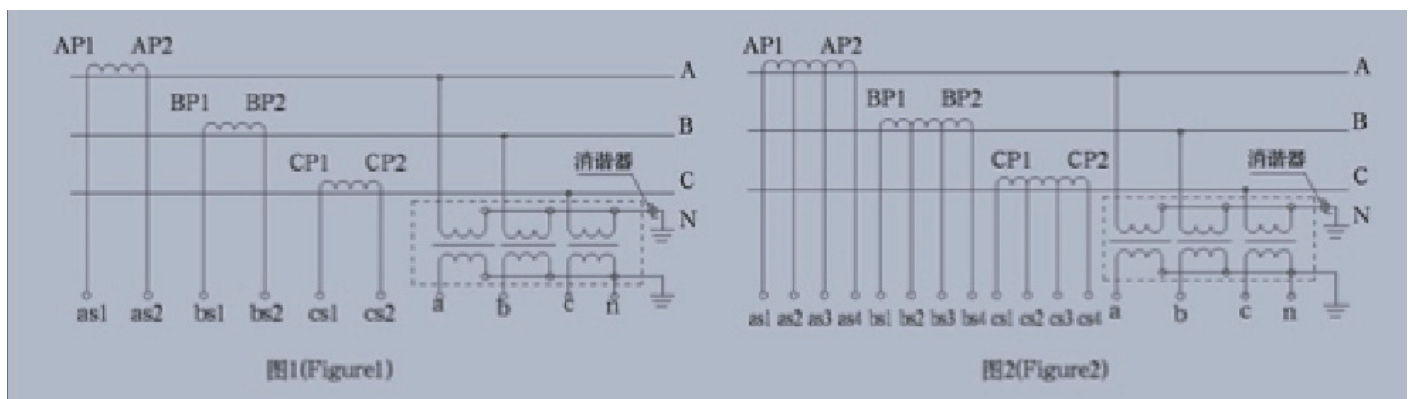
Type Designation



Outline Drawing



Wiring diagram



Technical parameters	
Standards	IEC60044-1,2; IEC 61869-1,2,3; ANSI/IEEE C57.13; GB1207-2006; GB/T 20840.1-2010, GB/T 20840.3-2013, GB/T 22071.2-2017, GB/T 20840.102-2020 , BS 7729 , IEC 60186
Rated Voltage	36KV, 35KV, 34.5KV, 33KV, 27KV, 25KV
Highest system voltage	36KV
Current transformer parameters	
Accuracy Class	0.2S, 0.2, 0.5S, 0.5,1 (IEC61869-2 standard) 5P20, 5P10, 10P10, 10P20, 10P5
Rated primary current	10-2000A
Rated load	≤50VA
Rated frequency	50Hz or 60Hz
Rated secondary current	5A or 1A
Ratio	10/5A,15/5A... 100/5A, 200/5A, 300/5A... 2000/5A or 1A
Rated short-time thermal current	80kA, 1S
Rated continuous thermal current	120%I _n
Rated dynamic current	160kA
Secondary winding power-frequency voltage	3kV, 1min
Rated insulation level	40/95/200KV
Instrument security factor	FS ≤10
Short time withstand current	31.5kA, 3sec
Creepage distance	1300mm, 25mm/kV
Type	Outdoor, Pole type
Voltage transformer parameters	
Accuracy Class	0.2, 0.5, 1, 3, 3P, 6P
Rated load	≤3×100VA
Thermal rating burden	600VA
Secondary voltage output	100V, 110V, 115V, 120V, 220V, 240V
Rated frequency	50/60Hz
Cosφ	0.8 (lag)
Phase number	Three phase
Core	1, 2
Connection method	Delta , Star
Rated insulation level	40/95/200KV
Insulation class	E
Class of pollution	IV

Mechanical parameters	
Material	Epoxy resin + silicone sleeve
Dimensions (W×D×H) (mm)	1600×745×840
Weight (kg)	500
Color	Red or customized
Working conditions	
Operating temperature	-40°C to +70°C
Storage temperature	-50°C to +70°C
Daily average temp	<+40°C
Relative Air Humidity	15%-85%
Environment	outdoors
Altitude	<3000 meters
Conditions	No existence of severely begrimed, erosive and radioactive gas in the air. Continuous working under the rated voltage is allowed.

Selection Guide

Model	Rated voltage ratio(V)	Accuracy class and Rated secondary output(VA)	Limited output (VA)	Rated insulation level(KV)	Surface creepage distance (mm)	Weight (KG)
GFJLSZV-36W	10-2000A/5A or 1A 36000/√3/100/√3/100	0.2S---3×15 0.2---3×30 0.2/6P(3P)---3×30/100 0.5/6P(3P)---3×60/100 1/6P(3P)---3×100/100 3/6P(3P)---3×200/100	3×600	40/95/200KV	570	500
GFJLSZV-35W	10-2000A/5A or 1A 35000/√3/100/√3/100			40/95/200KV		
GFJLSZV-34.5W	10-2000A/5A or 1A 34500/√3/100/√3/100			40/95/200KV		
GFJLSZV-33W	10-2000A/5A or 1A 33000/√3/100/√3/100		3 × 500	40/95/200KV		
GFJLSZV-27W	10-2000A/5A or 1A 27000/√3/100/√3/100		3 × 500	40/95/200KV		
GFJLSZV-25W	10-2000A/5A or 1A 25000/√3/100/√3/100		3 × 500	40/95/200KV		