

GFJDZW-20KV

15KV 17KV 20KV 22KV DOUBLE POLE SINGLE PHASE VOLTAGE TRANSFORMER OUTDOOR

GFJDZW-20KV 20KV High Accuracy Outdoor Voltage transformers are designed for outdoor metering and relaying applications. This product has the characteristics of high precision and large capacity, and can be customized according to customer requirements.

The primary and secondary coils are wound using special winding and shielding techniques for improved voltage stress distribution. Each coil is carefully insulated with mylar film to provide a high dielectric medium between layers. The completed winding structure and double-loop cores are assembled to a support frame.

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. The hydrophobic surface properties of HCEP ensure highly reliable performance in wet, humid, or polluted environments.

It can be used for medium voltage AIS, or can be used for medium voltage switchgears. They can operate in all kinds of environments (such as wide range temperature (-50~70 °C), high altitude, high humidity, high pollution or salt). This model GFJDZW-20KV outdoor voltage transformer is also as voltage source to supply 220V voltage.

All of our indoor voltage transformers are strictly comply IEC60044-2, IEC 61869-1,3, IEC 60186, ANSI/IEEE C57.13, BS 7729, GB1207-2006, GB/T 20840.3-2013, GB/T 22071.2-2017, GB/T 20840.102-2020.

Applications

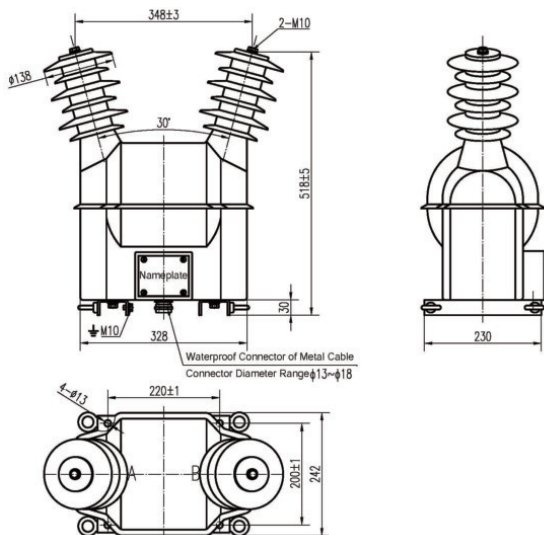
1. Rail way;
2. Coal Mine;
3. Power plant;
4. Power station;
5. Energy meter;
6. Power Meter;
7. Oil, gas company;
8. Distribution system;
9. Electric Power Bureau;
10. Measuring instrument;
11. MV Power Quality Analyzer;
12. Industrial and mining enterprises;



Features

1. Weight:56KG;
2. High quality silicon steel;
3. Rated voltages up to 24 kV;
4. Primary with fuse protection;
5. Accuracy class: 0.2 0.5 1 3 3P 6P;
6. Surface creepage distance:860mm;
7. Limiting Thermal Output 3000(VA);
8. Material: Epoxy Resin & silicon rubber;
9. 15KV 17KV 20KV 22KV Outdoor using;
10. Reasonable structure and robust construction;
11. Rated basic insulation levels (BIL) up to 125 kV;
12. Measurement or Protection voltage transformer;
13. Hydrophobic Cycloaliphatic Epoxy Resin (HCEP);
14. Excellent short circuit and thermal withstand capabilities;
15. IEC60044-2, IEC 61869-1,3 & ANSI/IEEE C57.13 Standards;
16. Excellent short circuit and thermal withstand capabilities;
17. Secondary voltage (KV): 0.1, 0.12, 0.22, 0.24, or with $\sqrt{3}$;
18. Convenient installation, suitable for installation in any location;
19. Convenient installation, suitable for installation in any location;
20. Rated voltage primary (KV): $15/\sqrt{3}$, 15, $17/\sqrt{3}$, 17, $20/\sqrt{3}$, 20, $22/\sqrt{3}$, 22 ;
21. Partial Discharge measurements exceed the IEEE/IEC and CAN/CSA requirements;

Outline Drawing



Parameters

Technical parameters	
Standards	IEC60044-2; IEC 61869-1,3; 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
Accuracy Class	0.2, 0.5, 1, 3, 3P, 6P
Rated Voltage	22KV, 20KV, 17KV, 15KV
Highest system voltage	24KV
Rated load	≤30VA or 80VA or 200VA
Thermal rating burden	3000VA
Secondary voltage output	100V, 110V, 115V, 120V, 220V, 240V , 380V
Rated frequency	50/60Hz
Cosφ	0.8 (lag)
Phase number	Single phase
Core	1, 2
Connection method	Delta, Star
With fuse	Yes, 0.2A
Using type	Outdoor
Application	Measurement and Protection
Rated insulation level	24/50/125KV
Insulation class	E or B
Class of pollution	IV
Mechanical parameters	
Material	Epoxy resin + silicone sleeve
Dimensions (W×D×H) (mm)	328×242×518
Weight (kg)	56
Color	Red or Grey, customized
Working conditions	
Operating temperature	-40°C to +70°C
Storage temperature	-40°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)	Primary fuse (A)	Weight (KG)
GFJDZW-22KV	22000/100	0.2---40 0.5---100	800	24/65/125	860	0.2	56
	22000/220	1---250 3---500					
	22000/100/100	0.2/0.2---20/20	400/400				
	22000/220/220	0.2/0.5---20/30 0.5/0.5---50/50	500/800				
GFJDZXW-22KV	22000/ $\sqrt{3}$ /100/ $\sqrt{3}$ 100/ $\sqrt{3}$	0.2/6P(3P)---30/100 0.5/6P(3P)---60/100 1/6P(3P)---150/100 3/6P(3P)---250/100	600	24/65/125	860	0.2	56
	22000/ $\sqrt{3}$ /100/ $\sqrt{3}$ 100/ $\sqrt{3}$ 100/ $\sqrt{3}$	0.2/0.2/6P(3P)---15/15/100 0.2/0.5/6P(3P)---15/15/100 0.5/0.5/6P(3P)---40/40/100	300/300				
GFJDZW-20KV	20000/100	0.2---40 0.5---100	800	24/65/125	860	0.2	56
	20000/220	1---250 3---500					
	20000/100/100	0.2/0.2---20/20	400/400				
	20000/220/220	0.2/0.5---20/30 0.5/0.5---50/50	500/800				
GFJDZXW-20KV	20000/ $\sqrt{3}$ /100/ $\sqrt{3}$ 100/ $\sqrt{3}$	0.2/6P(3P)---30/100 0.5/6P(3P)---60/100 1/6P(3P)---150/100 3/6P(3P)---250/100	600	24/65/125	860	0.2	56
	20000/ $\sqrt{3}$ /100/ $\sqrt{3}$ 100/ $\sqrt{3}$ 100/ $\sqrt{3}$	0.2/0.2/6P(3P)---15/15/100 0.2/0.5/6P(3P)---15/15/100 0.5/0.5/6P(3P)---40/40/100	300/300				

Model	Rated voltage ratio(V)	Accuracy class and Rated secondary output (VA)	Limited output (VA)	Rated insulation level (KV)	Surface creepage distance (mm)	Primary fuse (A)	Weight (KG)
GFJDZW-17KV	17000/100	0.2---40 0.5---100 1---250 3---500	800	24/65/125	860	0.2	56
	17000/220						
	17000/100/100	0.2/0.2---20/20 0.2/0.5---20/30	400/400				
	17000/220/220	0.5/0.5---50/50	500/800				
GFJDZXW-17KV	17000/√3/100/√3 100/√3	0.2/6P(3P)---30/100 0.5/6P(3P)---60/100 1/6P(3P)---150/100 3/6P(3P)---250/100	600	24/65/125	860	0.2	56
	17000/√3/100/√3 100/√3 100/√3	0.2/0.2/6P(3P)---15/15/100 0.2/0.5/6P(3P)---15/15/100 0.5/0.5/6P(3P)---40/40/100	300/300				
GFJDZW-15KV	15000/100	0.2---40 0.5---100 1---250 3---500	800	24/65/125	860	0.2	56
	15000/220						
	15000/100/100	0.2/0.2---20/20 0.2/0.5---20/30	400/400				
	15000/220/220	0.5/0.5---50/50	500/800				
GFJDZXW-15KV	15000/√3/100/√3 100/√3	0.2/6P(3P)---30/100 0.5/6P(3P)---60/100 1/6P(3P)---150/100 3/6P(3P)---250/100	600	24/65/125	860	0.2	56
	15000/√3/100/√3 100/√3 100/√3	0.2/0.2/6P(3P)---15/15/100 0.2/0.5/6P(3P)---15/15/100 0.5/0.5/6P(3P)---40/40/100	300/300				