

GFJDZ0987-35

HV HIGH ALTITUDE 0.2 CLASS 33KV POTENTIAL TRANSFORMER

GFJDZ0987-35 35KV HIGH VOLTAGE POTENTIAL TRANSFORMER are designed for metering and protection applications. This product has the characteristics of high efficiency 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 35KV distribution line, Coal mine, power plant, Rail way, factories.. . Strictly Comply IEC60044-2; IEC 61869-1,3; ANSI/IEEE C57.13.

Features

1. Weight: 100KG;
2. Using Life: 30 years;
3. Material: Epoxy (HCEP);
4. Rated voltages up to 36kV;
5. 27KV 33KV 35KV 36KV indoor;
6. Accuracy class: 0.2 0.5 1 3P 6P;
7. High altitude design application;
8. Limiting Thermal Output(VA): 400VA/800VA;
9. Reasonable structure and robust construction;
10. Rated basic insulation levels (BIL) up to 200 kV;
11. Rated Voltage Ratio(KV) 35/0.1/0.1 or 33/0.1/0.1;
12. Excellent short circuit and thermal withstand capabilities;
13. IEC60044-2, IEC 61869-1,3 & ANSI/IEEE C57.13 Standards;



Applications

- | | | |
|----------------------------|-----------------------------|--|
| 1. Rail way; | 2. Coal Mine; | 3. Power Plant; |
| 4. Power Meter; | 5. Energy meter; | 6. Power station; |
| 7. MV switchgears; | 8. Oil, gas company; | 9. Distribution boxes; |
| 10. Distribution system; | 11. Air insulation cabinet; | 12. MV Power Quality Analyzer; |
| 13. Ring network cabinet; | 14. Measuring instrument; | 15. Industrial and mining enterprises; |
| 16. Electric Power Bureau; | | |

Outline drawing

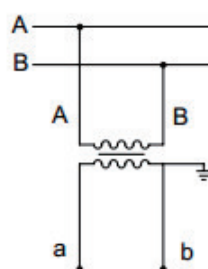
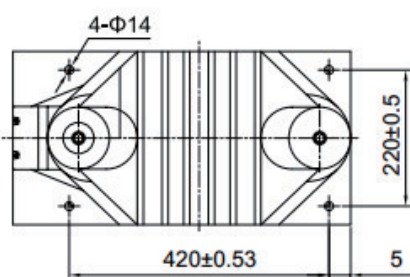
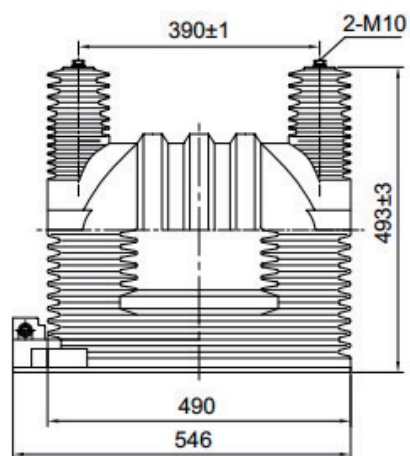


Figure-1

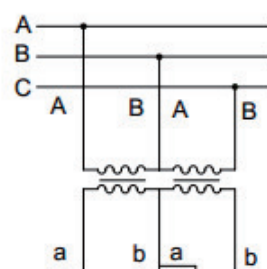


Figure-3

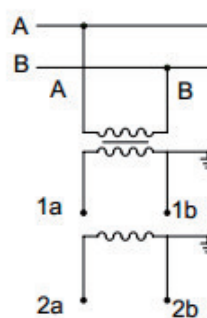


Figure-2

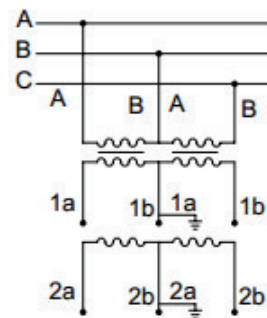


Figure-4

Parameters

Technical parameters

Standards	IEC60044-2; IEC 61869-1,3; ANSI/IEEE C57.13; GB20840-1,3
Rated Voltage	27KV, 33KV, 35KV, 36KV
Rated load	≤30VA or 80VA or 250VA

Technical parameters - continued

Secondary voltage output	100V, 110V, 120V, 220V, 380V
Thermal rating burden	800VA
Rated frequency	50Hz or 60Hz
Cos ϕ	0.8 (lag)
Phase number	Single
Class	0.2, 0.5, 1, 3, 3P, 6P
Windings	single, double
Rated insulation level	40.5/95/200KV
Using type	Indoor, double pole
Application	Measurement and Protection
Insulation class	E
Class of pollution	II

Mechanical parameters

Material	Epoxy resin
Weight (kg)	100

Operating conditions

Operating temperature	-25°C to +55°C
Daily average temp	<+40°C
Storage temperature	-40°C to +70°C
Relative Air Humidity	15%-85%
Altitude	<3000 meters
Condition	No existence of severely begrimed, erosive and radioactive gas in the air. Permission of long-term operation under rated current.

Technical Data

Model	Rated Voltage Ratio(KV)	Accuracy Class Combination	Rated output (VA)	Limiting Thermal Output(VA)
GFJDZ0987-35	35/0.1	0.2	60	800
		0.5	120	
	35/0.1/0.1	0.2/0.2 0.2/0.5 0.5/0.5	20/20 20/30 40/40	400
GFJDZ0987-33	33/0.1	0.2	60	800
		0.5	120	
	33/0.1/0.1	0.2/0.2 0.2/0.5 0.5/0.5	20/20 20/30 40/40	400