

GFJDZX0946-35

33KV SINGLE POLE HV INDOOR INSTRUMENT POTENTIAL TRANSFORMER

GFJDZX0946-35 35KV HV indoor instrument 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

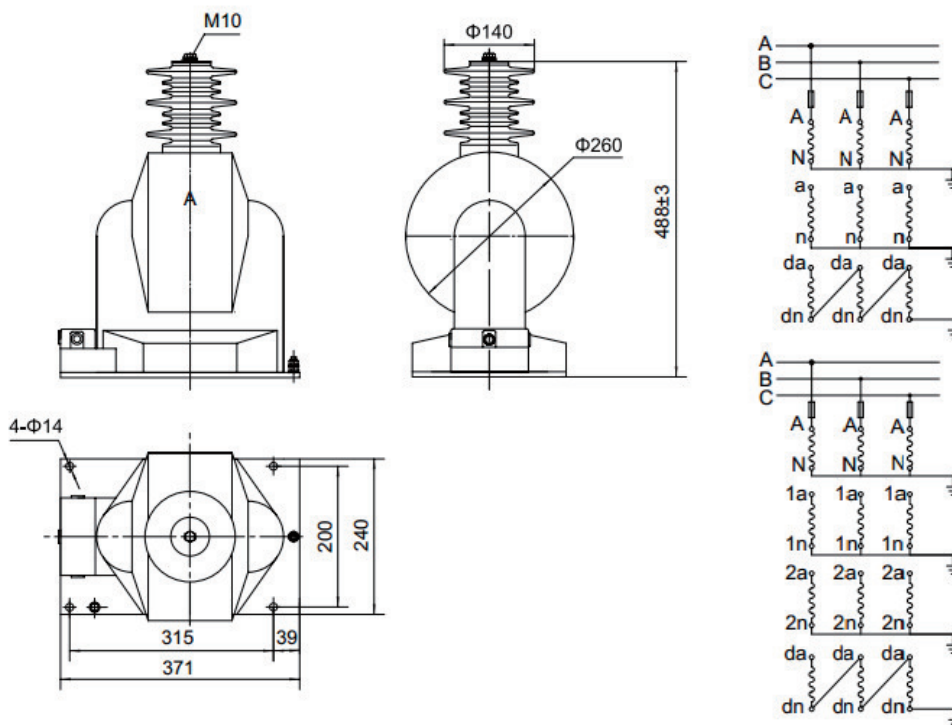
1. Weight: 50KG;
2. Using Life: 30 years;
3. Material: Epoxy (HCEP);
4. Rated voltages up to 36 kV;
5. Accuracy class: 0.2 0.5 6P 3P;
6. 33KV 35KV 36KV indoor application;
7. Single pole voltage transformer design;
8. Limiting Thermal Output(VA): 300VA/600VA;
9. Reasonable structure and robust construction;
10. Rated basic insulation levels (BIL) up to 200 kV;
11. Rated Voltage Ratio: $35/\sqrt{3}/0.1/\sqrt{3}/0.1/\sqrt{3}/0.1/3$;
12. Excellent short circuit and thermal withstand capabilities;
13. IEC60044-2, IEC 61869-1,3 & ANSI/IEEE C57.13 Standards;



Applications

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

Outline drawing



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 | ≤100VA |
| Secondary voltage output | 100V, 110V, 120V, 220V, 380V |

Technical parameters - continued

| | |
|------------------------|--------------------------------|
| Thermal rating burden | 600VA |
| 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, three windings |
| Rated insulation level | 40.5/95/200KV |
| Using type | Indoor, single pole |
| Application | Measurement and Protection |
| Insulation class | E |
| Class of pollution | II |

Mechanical parameters

| | |
|-------------|-------------|
| Material | Epoxy resin |
| Weight (kg) | 50 |

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) | Class Combination | Rated output(VA) | Limiting Thermal Output(VA) |
|---------------|---|--|-------------------------------------|-----------------------------|
| GFJDZX0946-35 | 35 $\sqrt{3}$ /0.1/ $\sqrt{3}$ /0.1/3 | 0.2/6P(3P) 0.5/6P(3P) | 40/100 80/100 | 600 |
| | 35/ $\sqrt{3}$ /0.1/ $\sqrt{3}$ /0.1/ $\sqrt{3}$ /0.1/3 | 0.2/0.2/6P(3P) 0.2/0.5/6P(3P) 0.5/0.5/6P(3P) | 10/10/100 10/30/100 30/30/100 | 300 |
| GFJDZX0946-33 | 33 $\sqrt{3}$ /0.1/ $\sqrt{3}$ /0.1/3 | 0.2/6P(3P) 0.5/6P(3P) | 40/100 80/100 | 600 |
| | 33/ $\sqrt{3}$ /0.1/ $\sqrt{3}$ /0.1/ $\sqrt{3}$ /0.1/3 | 0.2/0.2/6P(3P) 0.2/0.5/6P(3P) 0.5/0.5/6P(3P) | 10/10/100 10/30/100 30/30/100 | 300 |