

## GFEVT-C3-10

### 12KV INDOOR THREE PHASE PROTECTION ELECTRONIC VOLTAGE TRANSFORMER

GFEVT-C3-10 Indoor electronic voltage transformer is used for protection relaying on less than 12kV circuits. The series voltage sensors are made of epoxy resin casting, fully enclosed insulation, safe and reliable. They are suitable for installing common box outdoor pole mounted circuit breakers (ZW20) or outdoor pole mounted load switches (FZW28) with good anti condensation performance. They are suitable for zero sequence voltage measurement and protection in AC 50/60 Hz lines with a maximum voltage of 12 kV and below.

All of our indoor voltage transformers are strictly comply IEC60044-7, IEC 61869-6, ANSI/IEEE C57.13, GB1207-2006, GB/T 20840.6,7, GB/T22071.2-2017, GB/T 20840.102-2020.

### Features

1. Protection class using;
2. Rated voltages up to 12 kV;
3. Accuracy class: 0.2, 0.5, 1, 3, 3P, 6P;
4. Small size, light weight, and easy installation;
5. Rated basic insulation levels (BIL) up to 75 kV;
6. Can measure DC and low-frequency AC signals;
7. IEC60044-7; IEC 61869-6; ANSI/IEEE C57.13 standard;
8. Convenient installation, suitable for installation in any location;
9. No ferromagnetic resonance, no need to configure fuse protection;
10. No risk of secondary short circuit and high current, increased safety;
11. Rated voltage ratio (KV): 3KV/ $\sqrt{3}$ , 6KV/ $\sqrt{3}$ , 10KV/ $\sqrt{3}$  or 11KV/ $\sqrt{3}$ /6.5V/3;
12. Can achieve zero sequence voltage and sampling of protection signals;
13. Partial Discharge measurements exceed the IEEE/IEC and CAN/CSA requirements;
14. Product standardization, simplified selection and ordering process, and fast delivery;
15. Compact design with an overall height of only 80 mm, making it easy to arrange the internal space of the switch;
16. The secondary output is a safe low voltage signal, greatly reducing power consumption and generating less heat;
17. Combined with multifunctional intelligent feeder terminals (FTUs), these excellent features will bring great improvements to power protection and monitoring;



## Applications

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|-------------------------|----------------------------|--------------------------|
| 1. Airport;             | 2. Rail way;               | 3. Coal Mine;            |
| 4. Power Plant;         | 5. Power station;          | 6. MV switchgears;       |
| 7. Distribution system; | 8. Air insulation cabinet; | 9. Ring network cabinet; |

## Parameters

Technical parameters	
Standards	IEC60044-7; IEC 61869-6; ANSI/IEEE C57.13; GB1207-2006; GB/T 20840.6, GB/T 20840.7
Accuracy Class	0.2, 0.5, 1, 3, 3P, 6P
Rated Voltage	12KV, 11KV, 10KV, 6KV, 3KV
Load impedance	≥5M
Rated voltage coefficient	1.2Un continue /1.9Un/8h
Secondary voltage output	6.5V
Rated frequency	50/60Hz
Cosφ	0.8 (lag)
Phase number	Three
Connection method	Star
Rated insulation level	12/42/75KV, 7.2/32/60KV, 3.6/25/40KV
Insulation class	E
Partial discharge	14.4kV , ≤5pC
Output Signal cable	RVSP Shield line L = 2.5 m (length can be customized)
Mechanical parameters	
Material	Epoxy resin
Dimensions (W×D×H) (mm)	383×88×80
Weight (kg)	8.0
Color	Red or customized
Working conditions	
Operating temperature	-40°C to +70°C
Storage temperature	-40°C to +70°C
Daily average temp	<+40°C
Environment	indoors
Altitude	<1000 meters
Conditions	No existence of severely begrimed, erosive and radioactive gas in the air. Continuous working under the rated voltage is allowed.