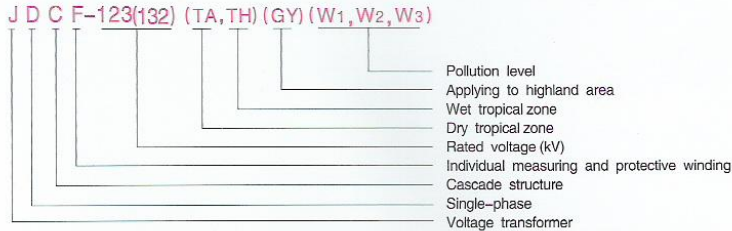


## JDCF-123(132)(TA,TH)(GY)(W<sub>1</sub>,W<sub>2</sub>,W<sub>3</sub>) Voltage Transformer

### ■ Type description



### ■ Purpose

It is outdoor, single phase and oil immersed inductive voltage transformer, which is used for metering and relay protection of 123kV or 132kV, 50 or 60Hz system.

### ■ Standards

IEC Standard: IEC 60044-2 《Inductive Voltage Transformer》

National Standard: GB1207 《Voltage Transformer》

GB311.1 《Insulation co-ordination for high voltage transmission and distribution equipment》

### ■ Service condition

Ambient temperature: -40~+40℃

Altitude: JDCF-123(W<sub>1</sub>,W<sub>2</sub>,W<sub>3</sub>) less than 1000m

JDCF-123GY(W<sub>1</sub>,W<sub>2</sub>,W<sub>3</sub>) less than 3500m

Environment pollution level: II、III、IV

### ■ System condition

System Rated Voltage: 123kV, 132kV

System Highest Voltage: 126kV, 145kV

System Rated frequency: 50Hz or 60Hz

System neutral earthing method: effectively earthed

### ■ Structure feature

- It is cascade structure, which the primary winding has two grade windings surrounded on each limbs of one single phase two-limb core. The insulation consists of high voltage cable paper, phone paper and cardboard etc., Which will be immersed with transformer oil after desiccating under vacuum. It has advantages of stable and reliable performance of insulation, rich successful experience, a long life time and convenient maintenance.

- Perfect fluidity performance of transformer oil is good for heat dissipation, it also has self recover ability for the failure of partial discharge caused by air bubble and dust.

- It has three secondary windings, which has individual measuring and protection winding.

- Hermetically sealed stainless steel metallic bellows is installed on the top, which protect the transformer oil from moisture and extend the life time, also there is a oil level gauge on the bellows for observing the changing of oil volume.

- There is a multi function oil drain valve on the base, which make it more convenient for sampling draining and refilling.

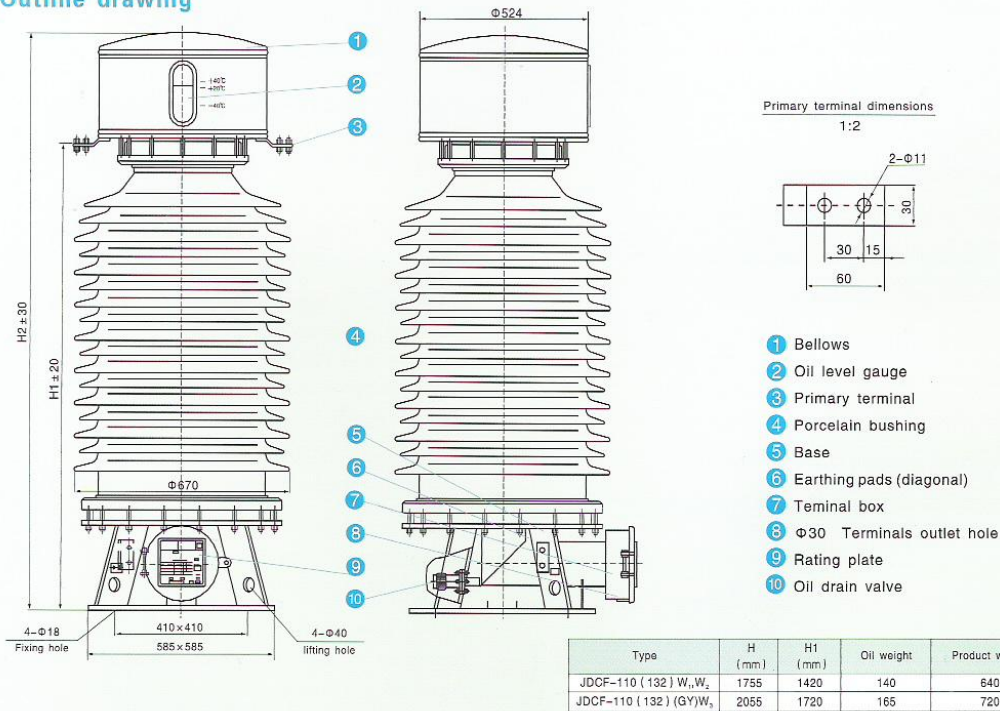
- The secondary terminal board is made of epoxy casting, the seal performance is more reliable.

- The base use DACRAL (Zinc/Chormate coatings) for resistance to corrosion, which gives a high degree of corrosion resistance.

### Technical data

Rated voltage	123//3kV; 132//3kV			
Highest voltage for equipment	126//3kV; 145//3kV			
Rated frequency	50or 60Hz			
Rated transformation ratio	$\frac{123}{\sqrt{3}} / \frac{0.1}{\sqrt{3}} / \frac{0.1}{\sqrt{3}} / 0.1kV$ ; $\frac{132}{\sqrt{3}} / \frac{0.11}{\sqrt{3}} / \frac{0.11}{\sqrt{3}} / 0.11kV$ ;			
Accuracy and rated output	Secondary terminal making	1a-1n	2a-2n	da-dn
	Accuracy	0.2	0.5	3P or 0.5
	Rated output	100	250	300
Thermal limiting output	2000VA			
Rated voltage factou	1.2, times continuous; 1.5 times 30s			
Partial discharge, under 1.2Um/ $\sqrt{3}$ kV	≤5pC			
Dielectric dissipation factor tg δ, under 10kV	Product tg δ ≤0.02; frame tg δ ≤0.05			
External insulation creepage distance(mm)	W1/2520mm W2/3150mm W3/3906mm			
Power frequency withstand voltage on primary windings	185(200(230))kV rms			
Rated lightning impulse withstand voltage	450(480)(550)kV peak			
Power frequency withstand voltage between primary winding "N" terminal to earth	5kV rms			
Power frequency withstand voltage between secondary windings and to earth	3kV rms			
Mechanical strength (three direction)	2000N			

### Outline drawing



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