

Brief Introduction

JDCF-138GYW is a product which have 4 windings and oil insulation voltage transformer. The product conform to the follows national requirement: GB1207-1997 phase <voltage transformer>, GB7354-85 <Transformer Measurement of Partial Discharge>, GB311.1.19 <Insulation Coordination of High Voltage Transformation>, the international electric stand IEC186 or IEC60044 phase <Voltage Transformer>. This type product is used for electric energy measurement and relay protection in 145KV power system.

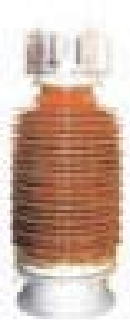
1.2 Structural characteristics

This type of voltage product has a cascading insulation structure. Iron corn is the ""shape and overlying by silicon steel sheet. Two iron corn were supported by shelf which mad by low dielectric phonetic paper board. Four coil nest is in the two iron com, The coil reel with balance winding, measuring secondary winding, protective secondary winding, residual voltage winding. The primary winding was made by unifilar enameled wire and have four class, The upper extreme (A extreme) is all insulation. The lower extreme (N extreme) joint to expansion equipment plinth by push ring. There are three oil mark (+45oC, +20oC, -25oC) beside the expansion equipment. The plinth support the whole product, the terminal of measuring secondary winding, protective secondary winding, residual voltage winding, primary winding bring out from the plinth. The primary winding N extreme joint to the plinth by joint panel which will be convenient to the test and installation.

1.3 Product mark

the primary winding is A and N, the measuring secondary winding is 1a, 1n, the proctive secondary winding is 2a, 2n, the residual voltage winding is da, dn.

Type description



JDCF-138GYW

Operation condition

2.1 Ambient temperature:

maximum air temperature: +45oC

minimum air temperature: -25oC

maximum average air temperature: +30oC

2.2 altitude: $\leq 3000\text{m}$

2.3 minimum creepage distance: 3520mm

2.4 atmosphere condition: have o serious pollution in atmosphere, the pollution grade is III.

2.5 earthing manner: neutral point joint the earthing efficiently.

The rated value and requirement

3.1 the rated voltage

a. the maximum voltage: 145kv

b. the rated primary voltage: 138000/V

c. the rated voltage of measuring and protective winding: 115/V

d. the rated voltage of residual voltage winding: 115V

3.2 the rated frequency: 50HZ

3.3 phase: single phase

Operation and maintenance

4.1 Before the installation, inspect the sealed place and welding. It has oil leakage and oil surface is normal, If not, it should oiling the same type oil.

4.2 The oil drawing is from the bottom and its electric intensity is not more than 50KV

4.3 The secondary should not open circuit in the product operation.

4.4 The product should veiled when it storage Before the operatio, it should not be sun or rain. The product shoue be packed.

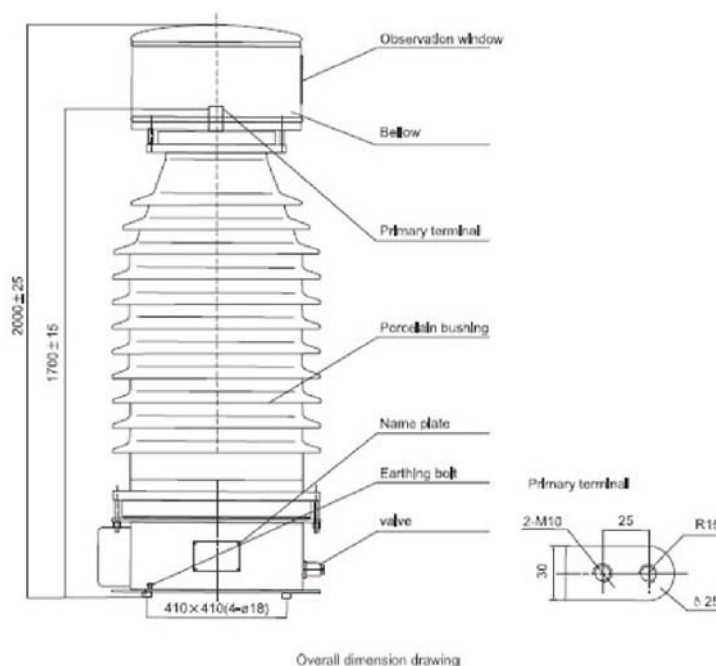
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a. type of product

b. the rated voltage of each winding

c. accuracy class and rated load

d. Frequency



Brief Introduction

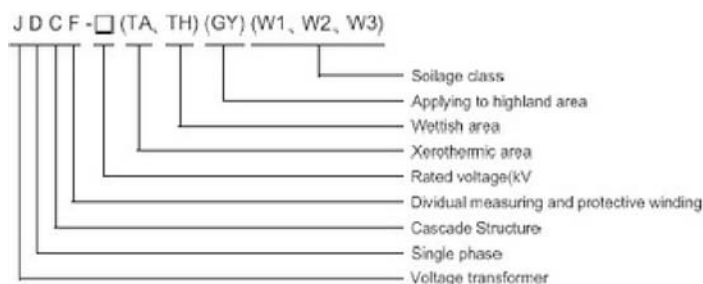
The "JDCF" series voltage transformers are inductive type, single phase, oil filled, outdoor type. It accords to the GB 1207-1997 <voltage transformer>, IEC 186 and IEC60044. This type of voltage transformer is of cascade full seal construction. The product consists of winding assembly, porcelain housing, transformer oil, base and stainless steel Bellow.

The primary winding of 110KV or 132KV voltage transformer is divided into two parts, wound separately around the upper and lower core. Wound around the lower core, three secondary windings are respectively measuring winding, protective winding and residual voltage winding.

The primary winding of 220KV or 230KV voltage transformer is divided into four parts, wound separately around two cores. Wound around the lower core, three secondary windings are respectively measuring winding, protective winding and residual voltage winding.

The active part is located to the base by supporting frame made of high quality insulation materials and is put into porcelain housing with degassed and de-watered transformer oil after vacuum treatment. All outlet wires of secondary winding and the terminal "N" of primary winding are connected to the epoxy resin board which is in the waterproof and dust-proof terminal box of the base. There is a valve for oil-filling or oil-exhausting on the base.

Type description



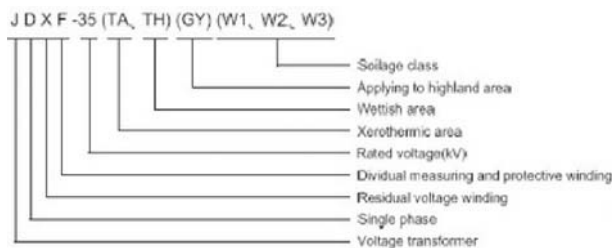
JDCF-110,132

Type
JDCF-220W2
JDCF-220GYW2 JDCF-
230W2
H1 H2
2510 2960
2750 3200

Brief Introduction

JDXF-35 voltage transformer is used in indirectly earthed mental point system. It consist of winding assembly, bellow, porcelain, oil tank teminal box and transformer oil. It is an oilimmersed paper structure. The core is a lower shape shape made up of cold rolling silicon steel laminations. The winding assembly is fixed on the box cover and immersed in the transformer oil.

Type description



Technical characteristic

1. It accords to the GB1207-1997 <voltage transformer> , IEC186 and IEC60044.
2. This product has the character of limited tightness. All the tightness compartment do not be put into ultraviolet radiation so that we solve the problem of chap of tightness rubber and aging, these product is more reliable and has longer life, we ensure that it can run 20 years without leakage.
3. The porcelain is equipped with irragateing flange. the surface of flange use hot zincification to enhance the wholly mechnism of product and has beautiful outlook.
4. This product is equipped with bellow and is tightnesds completely.
5. With higher accuracy to 0.2, we can reach the requirement of customer with seperatly measuring secondary winding and protection winding.
6. With epoxy secondary terminal board, the product is enhanced secondary insulation and tightness.
7. All the standard compartent are plated Dakelo. We ensure that the product don't rust for 20 years.
8. The inner structure of this product has changed largely and we solve the problem of old 35KV PT with unreasoned inner structure for the unpassed dielectric loss, This product has low partial discharge and litter dielectric loss with advanced workcraft.
9. The excitaton density of this product is equal or less than 0.7T and has the ability of avoiding ferro-resonance.

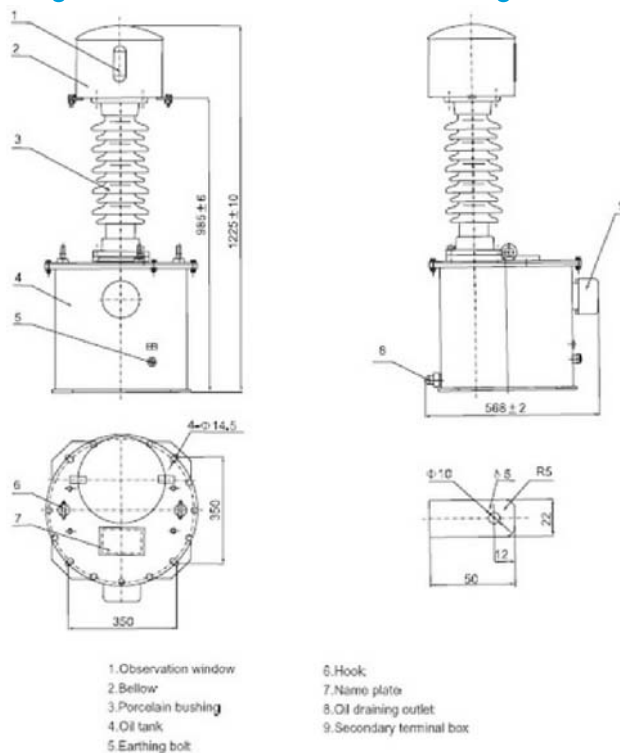
Technical Data

Type	JDXF-35
Rated voltage	Primary winding 35/
	Measuring winding 0.1/
	Protection winding 0.1/
	Residual voltage winding 0.1
Frequency	50HZ
secondary accuracy and reated output	Measuring winding 80VA 0.2 class
	Protection winding 150VA 0.5class 250VA 3P class
	Residual voltage winding 100VA 6P class
Rated limit output	2000
Rated insulation level	4.05/95/200
Creepage distance	810, 1050, 1250
Flash distance	410-500
Total weight/Oil weight	40/190
Pack size	580×600×1300



JDXF-35

JDXF-35 Voltage Transformer Outline Drawing



JDXF-35

Structure drawing

