Combined instrument transformer

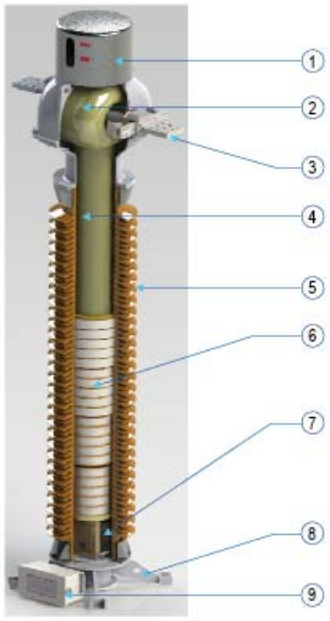
Introduction

- The combined instrument transformer is used to separate the protection and measurement device on the low-voltage side from the high voltage on the high-voltage side, and convert the large current and high voltage to be measured on the high-voltage line into a current and voltage with a certain accuracy suitable for the protection and measurement device Signal.

  The inner construction of a combined instrument transformer is similar to the construction of the current and voltage transformer. The current transformer is located in the head and the voltage transformer is inside of bushing of the combined instrument transformer.

Features

Performance comparison	Separate current transformer and voltage transformer	Combined instrument transformer
Floor space	It covers a large area and requires a safe distance;	Compact structure and small volume;
Installation and use	CTs and VTs are isolated; many electrical connection points;	Convenient wiring and few connection points;
Overhaul and maintenance	Independent maintenance without interference;	convenient for maintenance;
Safety and reliability	Independent operation; high reliability;	Installed together, a unit should be replaced as a whole in case of failure;



1. Expander cover
2. Secondary windings of current transformer
3. Primary conducting rod of current transformer
4. Main internal insulation
5. High strength porcelain bushing
6. High and low voltage windings of voltage transformer
7. T type-iron core of voltage transformer
8. Base
9. Secondary terminal box

Sieyuan®

Technical Parameter

Type		CIT						
Highest voltage for equipment	kV	72.5	123	145	170	252	420	550
Rated power frequency withstand voltage	kV	160	230	275	325	460	630	680
Rated lightning withstand voltage	kV	325	550	650	750	1050	1425	1550
Rated operating withstand voltage	kV	-	-	-	-	-	1050	1175
Rated primary current	A	0.5-5000A						
Rated output voltage	V	100/√3 、 110/√3 、 115/√3						
Rated load	VA	0.2， 50/50VA						
Rated voltage factor		1.5 times, continuous/1.9,8h						
Rated frequency	Hz	50/60						
Creepage distance	mm/kV	25-31						
Product operation environment	℃	-50~+40						
Insulation class		E						

Notes: We can also customize our products according to the special requirements of customers in different country.