

Series YTJLW10-720 Voltage Transformers

Series YTJLW10-720 phase sequence, zero sequence voltage and current transformer is a kind of AC transformers with technical specifications that conform to the primary and secondary fusion equipment of the State Grid and in accordance with T/CES 018-2018 "Distribution Network 10kV and 20kV AC Transformers Technical Conditions". Voltage, current and power transformers are built into the product, which can be directly assembled with the circuit breaker to form an intelligent vacuum circuit breaker. easy to install, low power consumption, high accuracy and stable measurement.

- The main capacitor uses equivalent capacitance to collect voltage, which has good long-term stability and long-term operation experience in power grids.
- The output internal resistance is small, which can adapt to various cables, overcome the error caused by cables, and the cable interchange error is less than 0.1%.
- small accuracy change affected by ambient temperature, and the maximum error change is less than 0.5% in the full temperature range of $-40^{\circ}\text{C} \sim 70^{\circ}\text{C}$, which fully meets the need of the temperature variation index requirements of the 3-level transformer specified.
- adopts extremely stable power resistance and low-power core winding, good output stability and high precision, and meets the operating conditions of all working conditions



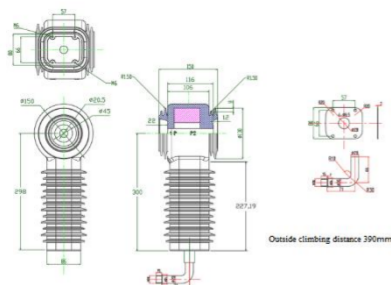
Product Detail:

1. Electrical ratings

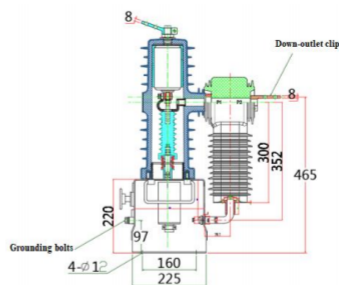
Description

Rated maximum voltage [kV]	25.8	
Rated current [A]	630	
Operation	manual, automatic	
Frequency [Hz]	50 / 60	
Short time withstand current, 1sec [kA]	12.5	
Short circuit making current [kA peak]	32.5	
Basic impulse withstand voltage [kV crest]	150	
Power frequency withstand voltage, dry [kV]	60	
Power frequency withstand voltage, wet [kV]	50	
Control and operation function	RTU built- in or separate digital control	
Control	Operating voltage	110-220Vac / 24Vdc
	Ambient temperature	-25 to 70 °C
	Power frequency withstand voltage [kV]	2
	Basic impulse withstand voltage [kV crest]	6
International standard	IEC 62271-103	

2. Dimensions in millimeters



3. Installation method



4. Installation instructions and precautions

- Ensure reliable contact between the grounding wire and the housing during installation.
- The secondary output signal leads of the transformer should be closely wired against the box, and the excess leads must be cut short
- The secondary voltage output of the transformer to the ground is prohibited from working frequency withstand voltage
- Instructions for secondary wiring

TYPE	Rated transformation ratio	Outlet identification	remark
Current phase sequence	600A/1V	I_a+I_a- , I_b+I_b- , I_c+I_c-	
Current zero sequence	20A/0.2V	I_0+ I_0-	Identity I_0+ I_0- as Connect transition lines
Voltage phase sequence	10kV/ $\sqrt{3}/3$. 25V/ $\sqrt{3}$	U_a+U_a- U_b+U_b- U_c+U_c-	
Voltage zero sequence	10kV/ $\sqrt{3}/6$. 5V/3	U_0+ U_0-	Identity U_0+ as Connect transition lines

Since the zero-sequence current and zero-sequence voltage require three-phase synthesis, there is a need for intermediate transition line connection, each phase I_0+ , I_0- correspond to plugging; The U_0+ of each phase corresponds to the mating. Before leaving the factory, the product has been docked, Please mark it when installing. As following:

