TYD 36~765kV Capacitor VoltageTransformer

Description

TYD series 36~765kV Capacitor Voltage Transformer are installed on 36~765kV earthed neutral electrical systems whose rated frequency is 50Hz or 60Hz to meter Voltage energy and provide relay protection signal. Additionally, Capacitor Voltage Transformer serves as a coupling capacitor. Voltage Transformer consists of two assemblies: the capacitor sections and the electromagnetic components;

It doesn’t subject to ferro resonance oscillations with the network. At the same time, it has capability to control its own Ferro resonance oscillations; the capacitor has a small value of tan δ and temperature coefficient.

Standards

Voltage transformers are designed in accordance with IEC, ANSI(IEEE), BS ,IS or other agreed standards.

Main Technical Characteristics

Highest voltage for equipment: 36 ~ 765kVPower frequency: 50 or 60 HzRated secondary voltage：100/√3V, 110/√3V

Rated secondary voltage for the earthing core: 100/3 V, 110/3 V or 100 V, 110V

Output of the metering class：100VA/0.2，150 VA /0,5

Output of the protection class：300VA/3P, 6P

Residual windings output：3P, 6P output: 200 VA

Ambient temperature: -40℃ to +40℃

Creepage distance: 25mm or 31mm/kV

Partial discharge level: <10pC

Temperature rise limit: ≤60K.

Ambient temperature:-50~50℃

Altitude: Standard design is less than 1000m Or higher values on request.

Creepage distance ratio: 25 or 31(mm/kV)

Earthquake standard design: up to 0.5g

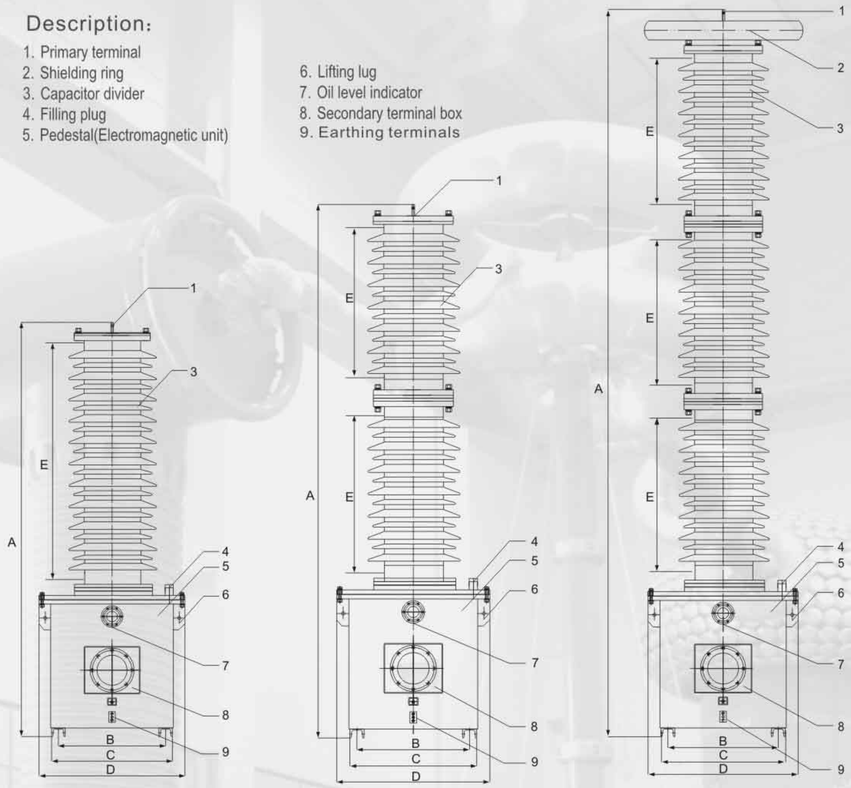
Basic insulation level & capacitance

Type	Highest system voltage	Power frequency withstand voltage	Lightning impulse test voltage	Capacitive divider capacitance
	kV (r.m.s)	kV(r.m.s)	kV (peak)	μF
TYD-36	36	70	170	10000~20000
TYD-72.5	72.5	140	325	10000~20000
TYD-123	123	230	550	7000~20000
TYD-145	145	275	650	7000~20000
TYD-170	170	325	750	5000~10000
TYD-245	245	395	950	5000~10000
TYD-300	300	510	1175	5000~10000
TYD-362	362	510	1175	5000
TYD-420	420	680	1550	5000
TYD-550	550	740	1675	5000
TYD-765	765	975	2100	5000

Outline Drawing & Dimensions

Description:

1. Primary terminal
2. Shielding ring
3. Capacitor divider
4. Filling plug
5. Pedestal(Electromagnetic unit)
6. Lifting lug
7. Oil level indicator
8. Secondary terminal box
9. Earthing terminals



Specification and Dimentions

Type	No. of capacitor units	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	Creepage Distance (mm)	Oil Weight (kg)	Total Weight (kg)
TYD-36	1	1680	530	620	635	775	1260	25	630
TYD-72.5	1	2010	530	620	635	1440	2248	30	670
TYD-123	1	2020	530	620	635	1520	3813	40	700
TYD-145	1	2170	530	620	635	1795	4495	50	730
TYD-170	1	2460	530	620	635	1795	5270	75	830
TYD-245	2	3815	530	620	635	1520	7595	90	930
TYD-300	2	4500	530	620	635	1795	9300	110	1020
TYD-362	2	4500	530	620	635	1795	11222	160	1600
TYD-420	3	5600	530	620	635	1520	13020	180	1850
TYD-550	3	6800	530	620	635	1795	17050	240	2800
TYD-765	4	8550	530	620	635	1795	23715	340	3150

These parameters are typical values, for other specification, please contact us.