



JDX 72.5~245kV Inductive Voltage Transformer Potential Transformer

Standards

Voltage transformers are designed in accordance with IEC61869-3, ANSI(IEEE)C57.13, IEC60044-2, BS, AS, IS or other agreed standards.

Description

JDX series inductive voltage transformer, outdoor, oil-immersed inductive type, single phase, hermetically sealed, earthed, cascade-type voltage transformer with high accuracy and protective class secondary windings. Used for metering and relay protection, applying to highland area. The voltage transformer consists of internal insulation parts, a porcelain or composite insulator, oil,

base, metallic bellows.

The high-voltage windings are separated into two (or four) parts that are located on two poles of the core. The secondary windings are located in the lower pole of the down core. Three secondary windings are: metering, protective and residual windings. The core is designed to have low flux density. There is an oil drain plug in the base. A set of oil draining device is supplied for three instrument transformers.

Main Technical Characteristics

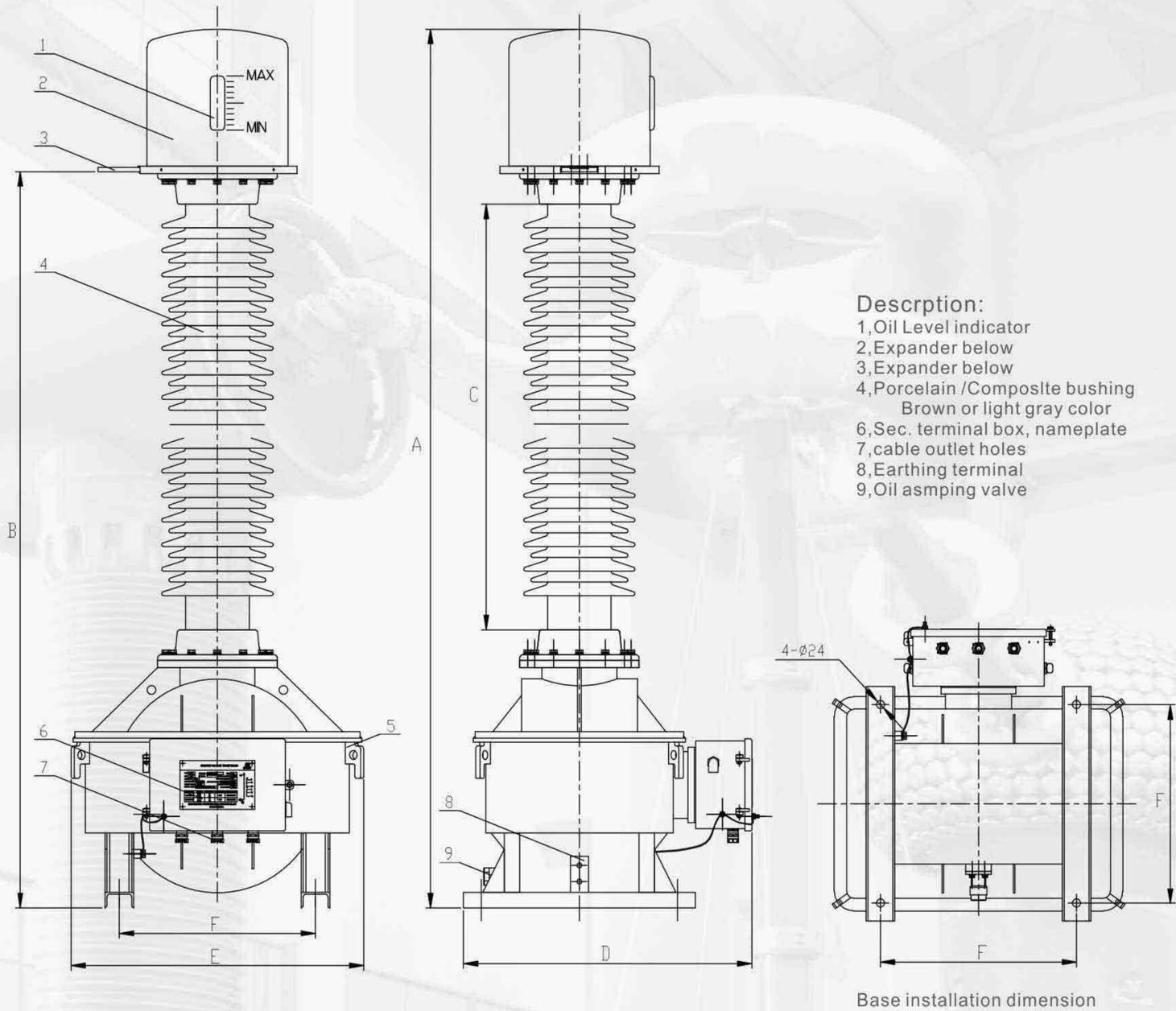
- Highest voltage for equipment: 72.5~245kV
- Power frequency: 50 or 60 Hz
- Rated secondary voltage:
 - 100V, 110V, 115V, 120V, 100/3V, 110/3V
 - 100/√3V, 110/√3V, 115/√3V
- Output of the metering class:
 - IEC: 5~400VA 0.2, 0.5, 1
 - IEEE: 0.15, 0.3, 0.6M, W, X, Y, Z, ZZ
- Output of the protection class: 5~400VA/3P, 6P
- Ambient temperature: -50°C to +50°C
- Creepage distance: 25mm or 31mm/kV
- Partial discharge level: <10pC
- Temperature rise limit: ≤60K.
- Ambient temperature: -50~+50°C
- Altitude: Standard design is less than 2000m
Or higher values on request.
- Creepage distance ratio: 25 or 31(mm/kV)
- Earthquake standard design: up to 0.5g

Basic insulation level

Type	Highest system voltage kV (r.m.s)	Power frequency withstand voltage kV (r.m.s)	Lightning impulse test voltage kV (peak)
JDX-72.5	72.5	140	350
JDX-110	123	230	550
JDX-145	145	275	650
JDX-170	170	325	750
JDX-245	245	395/460	950/1050



Outline Drawing & Dimensions



Specification and Dimentions

Type	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)	Creepage Distance (mm)	Oil Weight (kg)	Total Weight (kg)
JDX-72.5	1910	1565	700	680	700	480	2248	50	300
JDX-110	2300	1950	1100	770	750	550	3906	100	650
JDX-145	2435	2105	1300	805	810	550	4495	125	700
JDX-170	2849	2520	1550	815	980	550	5275	135	850
JDX-245	3720	3351	2305	815	980	550	7595	180	1050

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