



JDCF 72.5~245kV Inductive Voltage Transformer

Standards

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

Description

JDCF 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

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: 50Hz, 60 Hz

Rated secondary voltage: 100/ $\sqrt{3}$ V, 110/ $\sqrt{3}$ V

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: 300 VA

Ambient temperature: -40°C to +40°C

Creepage distance: 25mm or 31mm/Kv

Partial discharge level: <10pC

Temperature rise limit: $\leq 60K$.

Ambient temperature: -50~50°C

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

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

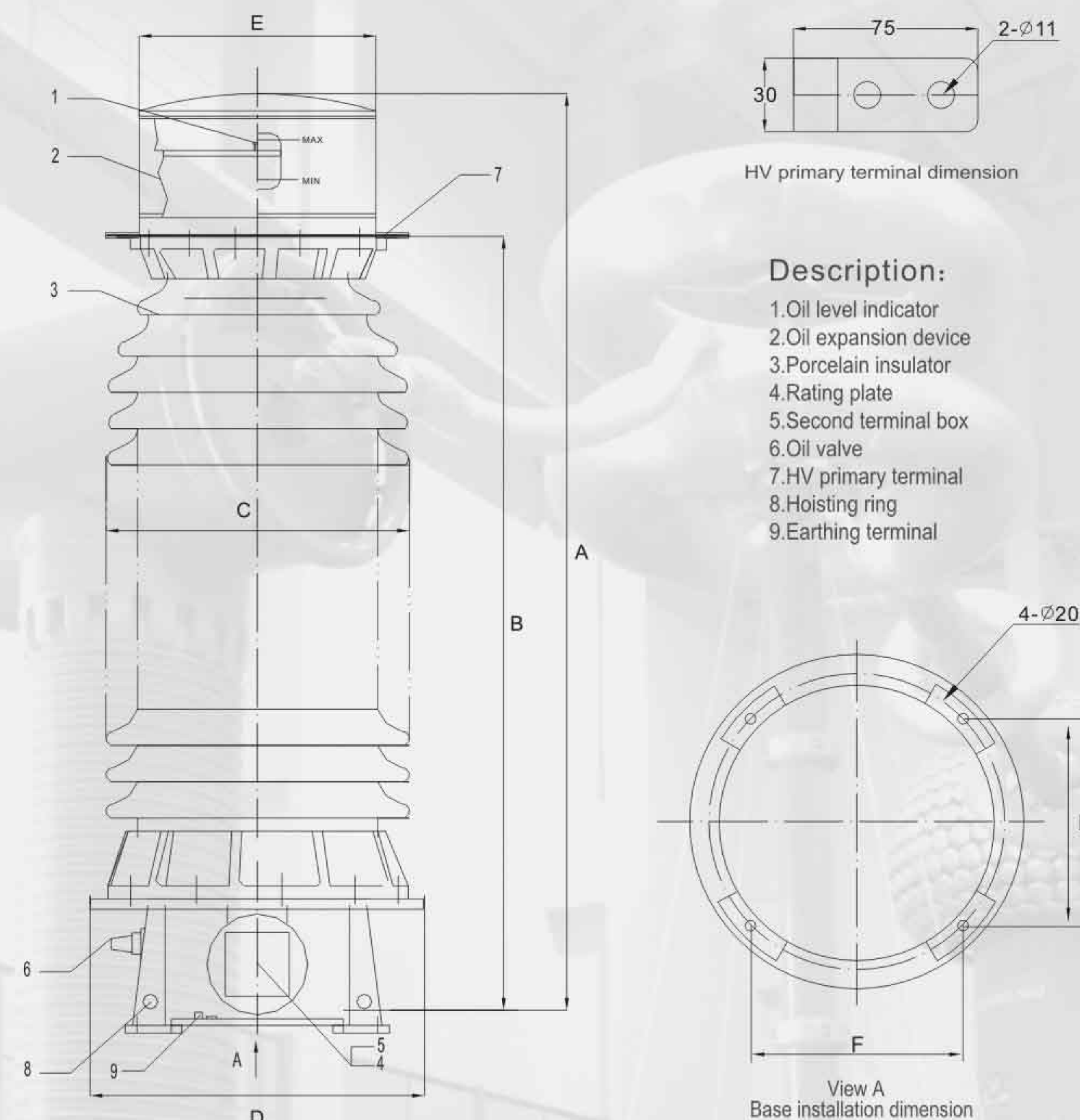
Earthquake standard design: up to 0.3g

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)
JDCF-72.5	72.5	140	325
JDCF -123	123	230	550
JDCF -145	145	275	650
JDCF -170	170	325	750
JDCF -245	245	395	950



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)
JDCF-72.5	1570	1220	615	522	530	490	2248	80	580
JDCF-123	1860	1580	660	680	630	490	3813	120	650
JDCF-145	2150	1870	660	680	630	490	4495	150	700
JDCF-170	2810	2385	680	720	630	490	5270	210	950
JDCF-245	3120	2580	680	720	630	490	7595	260	1200

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