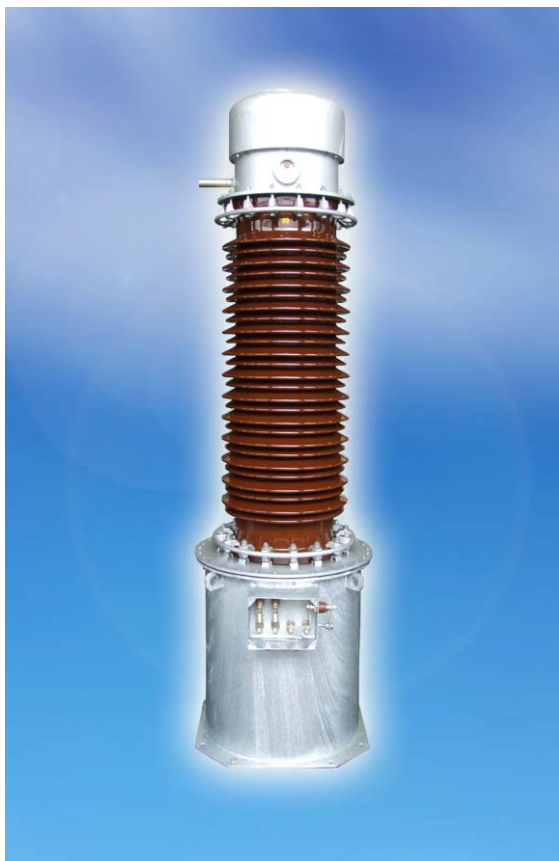


INDUCTIVE VOLTAGE OIL TRANSFORMERS FOR VOLTAGE LEVEL 72.5 kV – 170 kV TYPE UH



TO SPECIFY FOR AN ORDER

- Rated system voltage
- Rated frequency
- Rated secondary voltage
- Rated output
- Accuracy class
- Rated voltage factor
- Ambient temperature
- Creepage distance
- Seismic class request
- Altitude
- Standard

UPON SPECIAL REQUEST

- Rubber or metal membrane
- Insulators with extended creepage distance
- Nonstandard primary connections

DESCRIPTION

- Inductive voltage transformer, type UH beside mineral transformer oil as an insulating media, has, as its basic design elements, a metal base with magnetic circuit and both high and low voltage windings, oil-impregnated paper insulation, a porcelain insulator, and also metal cover with dilatable diaphragm what form a transformer head.
- A housing in which an active transformer part – magnetic circuit with primary and secondary windings and insulating screens - is placed and fixed as well as its lid are made of cold-rolled steel sheet.
- Magnetic circuit of standard core type is made of high-grade, cold-rolled metal sheet of oriented crystal structure.
- Transformer windings are multilayered cylindrical. As an interlayer insulation is used a cable paper, and by applying the appropriate design and shape solutions of insulator it is ensured the uniform dielectric stresses along the windings under both transition process and normal service regime.
- Porcelain insulator, usually glazed in brown color, is dimensioned and shaped in a way to fulfill even the most strict operating conditions, i.e. heavily polluted atmosphere, and together with its basic function protects active part of transformer and serves for conducting a high-voltage outgoing to the main primary connection fixed on the transformer head.
- Transformer lid is made of steel sheet. A special dilatable diaphragm is fitted into the lid so these two items present a transformer head. Owing to an application of diaphragm shaped suitably and made of rubber cloth, or elastic metal, a compensation of oil volume variations without any significant pressure increase in transformer is achieved.
- Complete sealing of transformer is done by application of special sealing items fixed on connection spots between insulators and cover of housing and transformer lid, which are fastened by clamp system made of a rustless material, and hot-dip galvanized steel rings.

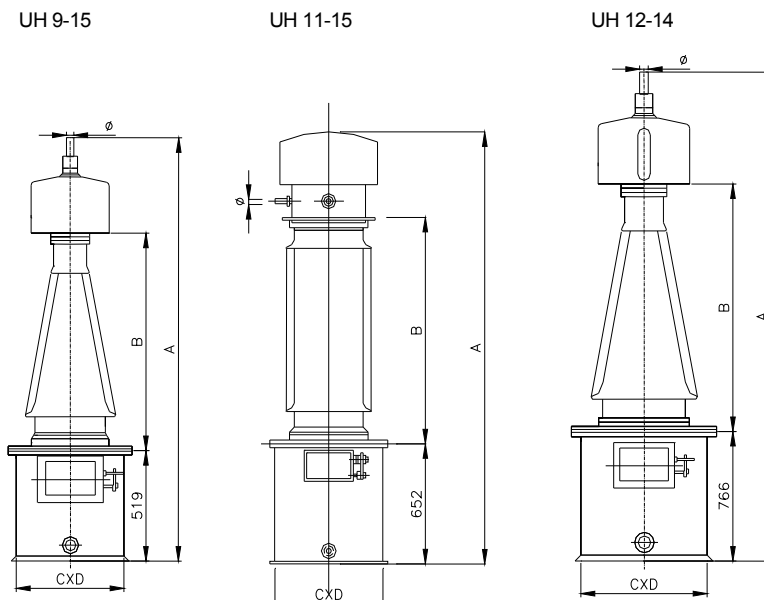
STANDARDS

Voltage instrument transformers are in accordance with IEC, JUS, ANSI and BS standards, or some other upon request.

APPLICATION

Inductive voltage instrument transformer is used for protection of measuring and safety devices against high voltage and for measuring current transformation to a level appropriate for mentioned devices.

TECHNICAL CHARACTERISTICS



Type			UH 9-15	UH 11-15	UH 12-14	
Highest voltage for equipment		kV	72,5	123	145	170
Power frequency withstand 1 min		kV	140	230	275	325
Impulse withstand voltage 1.2/50μs full wave		kV	325	550	650	750
Frequency		Hz	50 or 60			
Flashover, distance (minimum)		mm	825	1180	1380	1530
Insulator creepage distance	Normal	mm	1350	1920	2750	-
	Middle polluted	mm			-	3680
	Heavily polluted	mm	2200	3075	3350	-
Primary rated voltage		kV	$60/\sqrt{3} \div 69/\sqrt{3}$	$100/\sqrt{3} \div 110/\sqrt{3}$	$110/\sqrt{3} \div 132/\sqrt{3}$	$150/\sqrt{3} \div 165/\sqrt{3}$
Accuracy output		VA	30 ÷ 250	30 ÷ 400	30 ÷ 400	
Accuracy class			Measurement: 0,2 – 0,5 – 1; Protection: 3P – 6P			
Thermal output		VA	1000	2000	2000	2000
Over-voltage factor			1,5/30 sec. and upon request			
Number of secondary winding			1 ÷ 2			
Secondary rated voltage		V	$100/\sqrt{3} \div 110/\sqrt{3}$ and upon request			
Residual voltage winding		V	$100/3 \div 110/3$ and upon request			
Dimension	CxD	mm	315x315	620x620	650x650	650x650
	A	mm	1626	2321	2690	2820
	B	mm	855	1210	1410	1560
	∅ = 30 x 80(125)	mm	or upon request			
Mass		kg	310	960	1050	1150

Note: All data contained herewith are to be considered as information only.

The Manufacturer reserves the right to perform certain changes for the purpose of technical improvement.

A list of guaranteed values with dimension drawing attached should be submitted upon Customer's request.