

VOLTAGE TRANSFORMER OF ZNOG-110 TYPE WITH SF₆ INSULATION FOR SF₆ SWITCHGEARS AND CONTROL GEARS

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Voltage transformers of ZNOG-110 type are designed for use in switchgears and control gears with SF₆ insulation of 110kV voltage class, being installed in the mains with efficiently grounded neutral for feeding of the electric measuring devices, security circuits, warning and also as test transformers with the feeding from the side of the secondary windings.

Voltage transformers of ZNOG-110-IV-UHL4 type and ZNOG-110-V-UHL4 type are designed for use in small-size switchgears and control gears and have smaller inner diameter and mass. Distinctive features of the transformers are their fire and explosion safety. They almost do not have negative influence on the environment and are steady to multiple effects of the mechanic and climatic factors during transportation.

Technical characteristics of the voltage transformers of ZNOG-110 type are indicated in the Table.

Exterior and make-up of the transformer of ZNOG-110- IV-UHL4 type are shown on photo and ZNOG-110- V-UHL4 in Figure.

TECHNICAL CHARACTERISTICS

Designation of parameter, characteristic	Value		
	ZNOG-110-III-UHL4	ZNOG -110-IV-UHL4	ZNOG -110-V- UHL4
Rated primary voltage, kV	110/√3	110/√3	110/√3
Rated secondary voltage, V			
- primary winding	100/√3	100/√3	100/√3
- secondary winding	100	100	100
Rated frequency, Hz	50	50	50
Rated secondary load (power) of the primary winding with power factor $\cos \varphi = 0,8$ V·A, in accuracy class			
0.2	150	150	150
0.5	400	300	300
1.0	600	600	600
Rated secondary load (power) of the secondary winding with power factor $\cos \varphi = 0,8$ V·A, in accuracy class 3p	1200	1200	1200
Utmost transformer power, V·A	3200	3200	3200
Utmost power of the secondary winding, V·A	2000	2000	2000
Rated voltage in test mode at 50 Hz frequency in 1 min., kV	100	100	100
Max. test power in 1 min., kV·A	15.5	15.5	15.5
Operating pressure of SF ₆ at 20°C (excessive) min/max, MPa	0,38/0,44	0,39/0,45	0,39/0,45
Overall dimensions, mm (D×H)	Ø580×910	Ø494×1025	Ø494×1170
Mass, kg	265	245	255

On agreement between the Manufacturer and the Customer the above parameters and characteristics can be changed.



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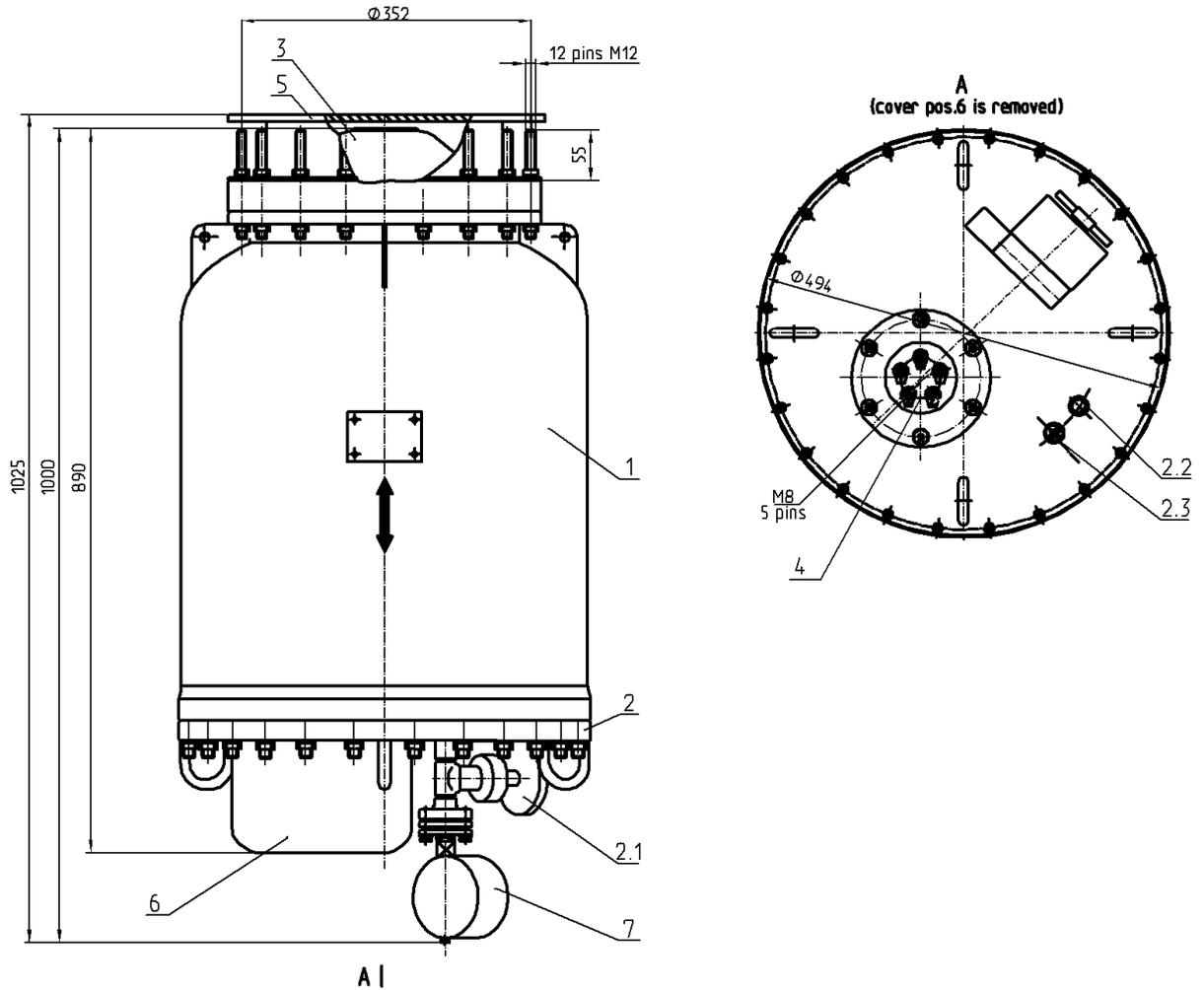


Figure – Structure, overall and connection dimensions of ZNOG-110- V-UHL4

1-casing; 2-bottom; 2.1-bellows valve; 2.2- grounding bolt; 2.3-sign of the grounding; 3- sealed lead-in; 4- block of the secondary leads; 5,6-covers; 7- densimeter