



SF₆ insulated verification voltage transformers (TNOOG) are designed for employment as the mean for verification of commercially produced voltage transformers.

These transformers are featured with fire- and explosion safety, high accuracy of transformation ratio, low dependence of errors on load power, supplied voltage, ambient temperature. These transformers are practically maintenance-free.

The transformers of TNOOG series can be manufactured for any combinations of the primary and the secondary voltages, met in the world practice. It is foreseen, that the transformers of TNOOG series should allow to determine errors of voltage transformers of commercial production of any accuracy classes, existing in the world practice, including 0.1 and 3p accuracy classes. They can be made as multi-range, i.e. for several transformation ratios.

Technical characteristics of typical representative - TNOOG-220-1 transformer are given in the Table. Exterior of transformer is shown on the photo and in Fig.1.

TECHNICAL CHARACTERISTICS

Name of parameters	Measurement unit	Value
Rated primary voltage	kV	110:√3; 220:√3
Rated secondary voltage	V	100:√3; 100
Rated transformation ratios		1100; 2200; 1100:√3; 2200:√3
Rated frequency	Hz	50
Rated power	VA	5
The highest accuracy class		0,1
SF ₆ operating pressure at t=20 ⁰ C (excessive), min/max	MPa	0,4/0,45
SF ₆ leakage per year	% SF ₆ mass	max. 1
One-minute power frequency test voltage (r.m.s.):		
- of the secondary winding and neutral of primary winding	kV	3
- terminal "A" of primary winding	kV	225
Mass	kg	325

Parameters and characteristics indicated in the Table may be altered by agreement between the User and the Manufacturer.

TEST INSTALLATIONS

At the Customer's request verification transformers can be completed with step-up transformer, start-and-control gear and measurement means, which help to ensure performance of tests on determination of errors from 0.4 kV power source.

SF₆-INSULATED SEPARATELY MOUNTED VERIFICATION VOLTAGE TRANSFORMERS

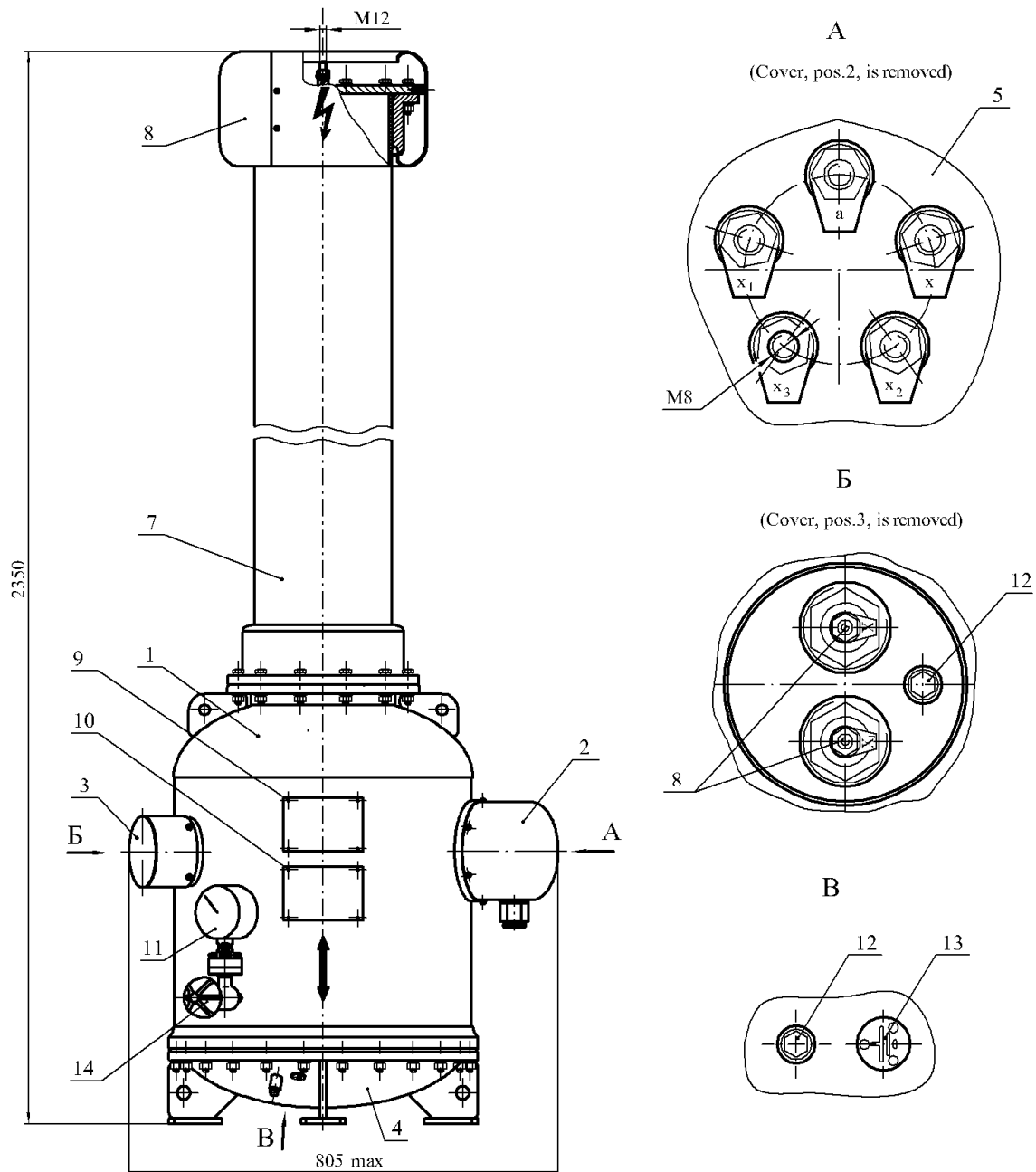


Figure 1 - Overall and interface dimensions of TNOOG-220-I

- 1 – casing; 2 - cover; 3 - cover; 4 - bottom; 5 – block of secondary terminals; 6 - terminal;
 7 - insulator; 8 - shield; 9 – name-plate; 10 – name-plate; 11- vacuum manometer;
 12 - earthing bolt; 13 - mark of earthing; 14 - valve.