

VOLTAGE TRANSFORMERS FOR INDOOR INSTALLATION FOR VOLTAGE LEVEL 7.2 kV - 36 kV TYPE NTU



DESCRIPTION OF TRANSFORMER

- Active part of transformer is cast with a synthetic resin. High dielectric strength and mechanical durability is achieved by an adequate design of high voltage winding applying modern insulating materials.
- There are two variants of this transformer type, depending upon the way of design. In one variant, the primary terminal is designed inside the space intended for installation on the adequate fuse. In the other variant the primary terminal is directly connected on high voltage without a fuse.
- Upon request, the type NTU transformer is also made as double ratio in such a way that the secondary winding is done with tapings so that the transformer can be used for two ratios. At the lower ratio, the transformer has almost four times lower output for the same accuracy class, and attention should be paid to this when selecting the transformer.
- Single-phase earthed voltage transformers can have a residual voltage winding of rated voltage 100/3V. The resistance in the circuit of the residual voltage winding in a set of three single phase earthen voltage transformers, star connected in the isolated neutral systems, prevents the Ferro-resonance phenomena which can appear during transient (disturbed) system duty.
- Minimum value of the built-in resistance in the circuit of residual voltage winding is 36 Ω at the transformer with rated continuous current of 3A and 18 Ω at rated continuous current of 6A respectively. Depending upon the length of the cable network line and capacity value, the resistance value, the resistance value and continuous withstand current respectively are selected in the circuit of residual voltage winding which can not exceed the value of rated continuous current (3 or 6A). Lower resistance value suppresses possible ferroresistant oscillations more effectively.

TO SPECIFY FOR AN ORDER

- Rated net voltage
- Rated frequency
- Rated secondary voltage
- Rated output
- Accuracy class
- Rated voltage factor
- Ambient temperature
- Attitude
- Standard

UPON SPECIAL REQUEST

- Design with and without fuse
- Secondary reconnection

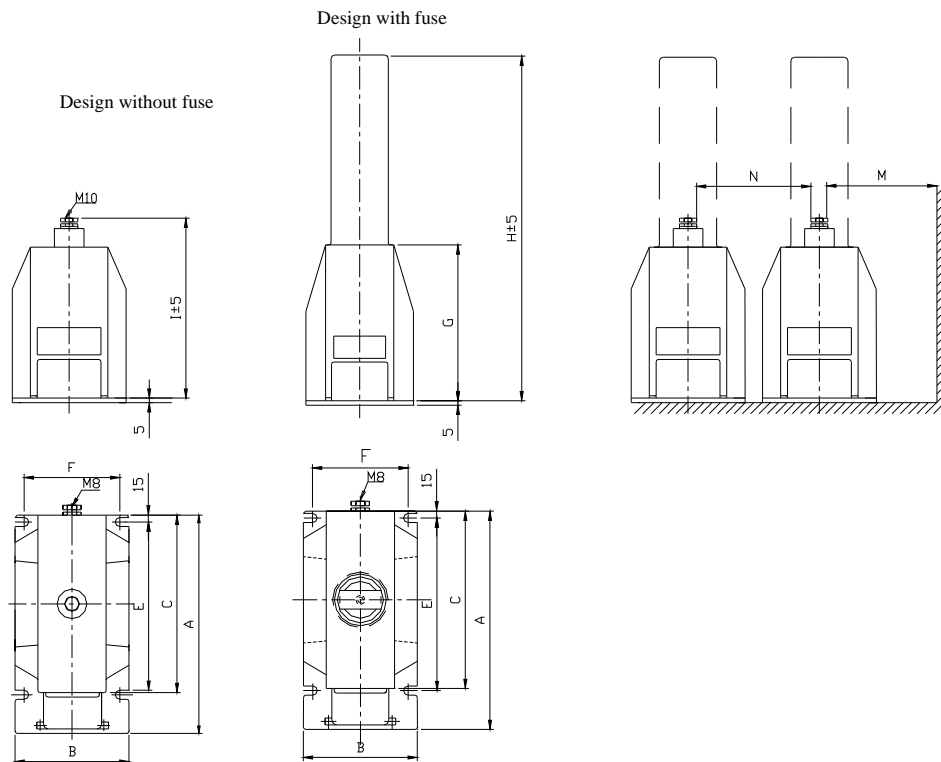
STANDARDS

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

APPLICATION

Voltage measuring transformer type NTU is used for separation of measuring and safety devices from HV as well as for measuring voltage transformation to a level appropriated for mentioned devices.

TECHNICAL CHARACTERISTICS



Type	Measure Unit	NTU 12	NTU 12(24)	NTU 24	NTU 38
Highest voltage for equipment	kV	12	12	24	38
Power frequency withstand voltage 1 min	kV	28	28	50	70
Impulse withstand voltage 1,2/50 μs, full wave	kV	75	75	125	170
Rated short-time withstand voltage of industrial frequency sequential windings	kV	3	3	3	3
Rated primary voltage	kV	$10/\sqrt{3}$	$10/\sqrt{3}$	$20/\sqrt{3}$	$35/\sqrt{3}$
Rated secondary voltage	V	$100/\sqrt{3}$ or $110/\sqrt{3}$	$100/\sqrt{3}$ or $110/\sqrt{3}$	$100/\sqrt{3}$ or $110/\sqrt{3}$	$100/\sqrt{3}$ or $110/\sqrt{3}$
Rated tertiary voltage	V	100/3 or 110/3	100/3 or 110/3	100/3 or 110/3	100/3 or 110/3
Rated output / Accuracy class 0,2	VA	10	30	30	30
Rated output / Accuracy class 0,5	VA	50	100	100	100
Rated output / Accuracy class 1	VA	100	200	200	200
Rated voltage factor / Rated duration		$1,9Un/8^h$	$1,9Un/8^h$	$1,9Un/8^h$	$1,9Un/8^h$
Continuous thermal current of tertiary winding	A	3	6	3 or 6	3 or 6
Maximum heating output	VA	450	450	450	450
Table of dimensions		1	2	3	4

Size	Table of dimensions										Weight (kg)
	A	B	C	E	F	G	H	I	Nmin	Mmin	
1	330	148	270	250	135	220	380	250	100	110	29
2	330	178	270	250	155	260	420	290	100	110	35
3									190	290	37
4	370	220	310	300	200	310	680	340	270	290	56

Note:
 All data contained herewith are to be considered as information only.
 The manufacturer reserves all rights for changes for the purpose of technical improvement. A list of guaranteed values with dimension drawing attached should be submitted upon Customer's request.

