

MEDIUM VOLTAGE PRODUCT

TJP 4.4

Indoor voltage transformers



Parameters	Units
Highest voltage for equipment	3.6–12 kV
Power frequency test voltage, 1 min.	10 – 28 kV
Lightning impulse test voltage	40 - 75 kV
Fuses	2 or 6.3 A (IEC)
Max. rated burden, classes	50/0.2 - 100/0.5 - 200/1 VA/cl
Residual winding	50 - 200/6P VA/cl

Description

The TJP 4.4 epoxy insulated voltage transformers are cast in epoxy resin and designed mostly for insulation voltages of 3.6 kV to 12 kV.

If no a different value is required the transformers are manufactured with a overvoltage factor of 1.9 x Un/8 hrs. One outlet of the primary winding, including the respective terminal is insulated from the earth to a level which corresponds to the rated insulation value. The other outlet of primary winding with its terminal is earthed during the operation. Most of the transformers are equipped with two secondary windings, the first one for either measuring or protection purposes, the other for being connected into an open-delta connection in a three-phase system. One terminal of each secondary winding and one of the open-delta connected terminals have to be earthed during the transformer operation.

The secondary windings are lead out into a cast-type secondary terminal board. The secondary terminal board is covered with a sealed plastic cover.

The transformer can be mounted in any position. The transformer body is fixed by four screws. The TJP 4.4 transformer is equipped with a fuse conformably to IEC standard. The design of TJP 4.4 is suitable for ABB AIS panels (see HV terminal and the position of the secondary terminals).

Rated primary voltages

3/√3 kV; 3.3/√3 kV; 6/√3 kV; 6.6/√3 kV; 10/√3 kV; 11/√3 kV; Other primary voltages can also be supplied on request.

Rated secondary voltages

100/√3 V; 110/√3 V – accuracy classes 0.2; 0.5; 1 (measuring winding) or 3P; 6P (protection winding). Other secondary voltages can also be supplied on request.

Rated voltages for open-delta connection

100/3 V; 110/3 V - class 6P. Other voltages for open-delta connection can also be supplied based on customer requirement.

Rated frequency

50 Hz; 60 Hz.

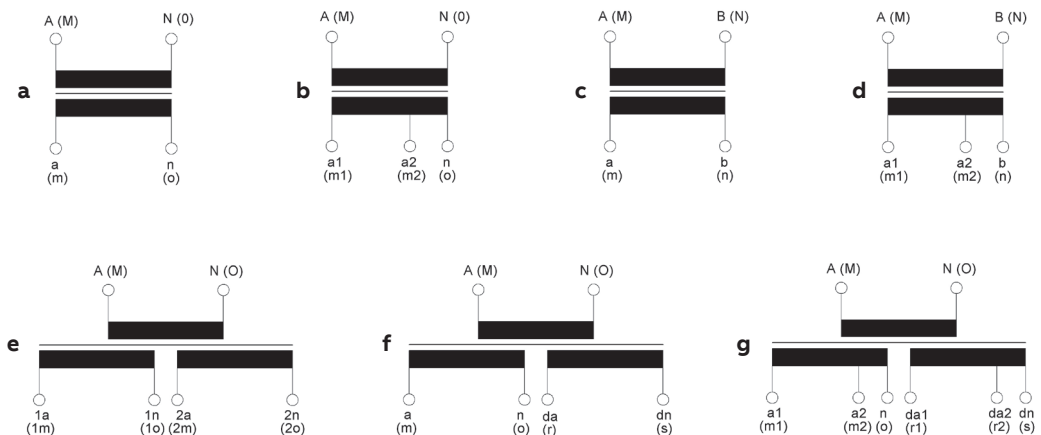
Based on a discussion with the manufacturer the transformer can also be provided with primary winding designed for two different primary voltages (with secondary side changeover).

The transformers are manufactured conformably to the requirements and recommendations of the following standards and regulations: IEC, VDE, ANSI, BS, GOST and CSN.

For marking of the voltage transformer outlets see picture 01 a-g.

01 Marking of the voltage transformers outlets
a Single-pole insulated transformer
b Single-pole insulated transformer with a tap
c Double-pole insulated transformer
d Double-pole insulated transformer with a tap
e Single-pole insulated transformer with two secondary windings
f Single-pole insulated transformer with two secondary windings, with one of which being the auxiliary (residual) winding
g Single-pole insulated transformer with two secondary, tapped windings, with one which being the auxiliary (residual) winding.

01



Standard execution of the transformers

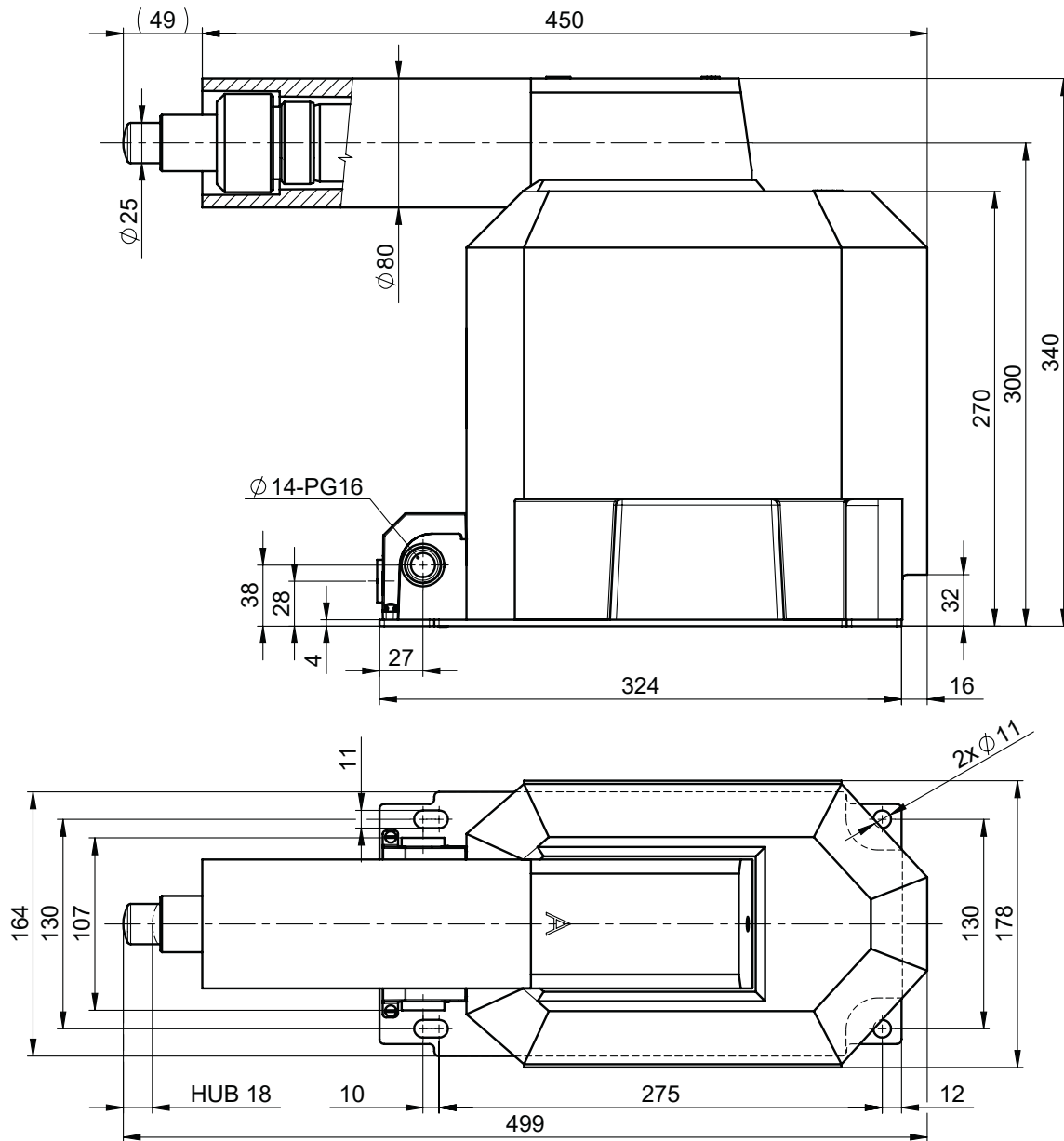
Primary voltage, [V]	Secondary voltage			Residual winding		
	voltage, [V]	accuracy	burden, [VA]	voltage, [V]	accuracy	burden, [VA]
3 000/√3	100/√3	0.2	10;15;25;30;50			
3 000/√3	100/√3	0.2	10;15;25;30;50	100/3	6P	50
3 000/√3	100/√3	0.2	10;15;25;30;50	100/3	6P	100
3 000/√3	110/√3	0.2	10;15;25;30;50			
3 000/√3	110/√3	0.2	10;15;25;30;50	100/3	6P	50
3 000/√3	110/√3	0.2	10;15;25;30;50	100/3	6P	100
3 000/√3	100/√3	0.5	15;25;50;100			
3 000/√3	100/√3	0.5	15;25;50;100	100/3	6P	50
3 000/√3	100/√3	0.5	15;25;50;100	100/3	6P	100
3 000/√3	110/√3	0.5	15;25;50;100			
3 000/√3	110/√3	0.5	15;25;50;100	110/3	6P	50
3 000/√3	110/√3	0.5	15;25;50;100	110/3	6P	100
3 000/√3	100/√3	1	50;75;100;200			
3 000/√3	100/√3	1	50;75;100;200	110/3	6P	50
3 000/√3	100/√3	1	50;75;100;200	110/3	6P	100
3 000/√3	110/√3	1	50;75;100;200			
3 000/√3	110/√3	1	50;75;100;200	110/3	6P	50
3 000/√3	110/√3	1	50;75;100;200	110/3	6P	100
6 000/√3	100/√3	0.2	10;15;25;30;50			
6 000/√3	100/√3	0.2	10;15;25;30;50	100/3	6P	50
6 000/√3	100/√3	0.2	10;15;25;30;50	100/3	6P	100
6 000/√3	110/√3	0.2	10;15;25;30;50			
6 000/√3	110/√3	0.2	10;15;25;30;50	100/3	6P	50
6 000/√3	110/√3	0.2	10;15;25;30;50	100/3	6P	100
6 000/√3	100/√3	0.5	15;25;50;100			
6 000/√3	100/√3	0.5	15;25;50;100	100/3	6P	50
6 000/√3	100/√3	0.5	15;25;50;100	100/3	6P	100
6 000/√3	110/√3	0.5	15;25;50;100			
6 000/√3	110/√3	0.5	15;25;50;100	110/3	6P	50
6 000/√3	110/√3	0.5	15;25;50;100	110/3	6P	100
6 000/√3	100/√3	1	50;75;100;200			
6 000/√3	100/√3	1	50;75;100;200	110/3	6P	50
6 000/√3	100/√3	1	50;75;100;200	110/3	6P	100
6 000/√3	110/√3	1	50;75;100;200			
6 000/√3	110/√3	1	50;75;100;200	110/3	6P	50
6 000/√3	110/√3	1	50;75;100;200	110/3	6P	100
10 000/√3	100/√3	0.2	10;15;25;30;50			
10 000/√3	100/√3	0.2	10;15;25;30;50	100/3	6P	50
10 000/√3	100/√3	0.2	10;15;25;30;50	100/3	6P	100
10 000/√3	110/√3	0.2	10;15;25;30;50			
10 000/√3	110/√3	0.2	10;15;25;30;50	110/3	6P	50
10 000/√3	110/√3	0.2	10;15;25;30;50	110/3	6P	100
10 000/√3	100/√3	0.5	15;25;50;100			
10 000/√3	100/√3	0.5	15;25;50;100	100/3	6P	50
10 000/√3	100/√3	0.5	15;25;50;100	100/3	6P	100
10 000/√3	110/√3	0.5	15;25;50;100			
10 000/√3	110/√3	0.5	15;25;50;100	110/3	6P	50
10 000/√3	110/√3	0.5	15;25;50;100	110/3	6P	100
10 000/√3	100/√3	1	50;75;100;200			
10 000/√3	100/√3	1	50;75;100;200	100/3	6P	50
10 000/√3	100/√3	1	50;75;100;200	100/3	6P	100
10 000/√3	110/√3	1	50;75;100;200			
10 000/√3	110/√3	1	50;75;100;200	110/3	6P	50
10 000/√3	110/√3	1	50;75;100;200	110/3	6P	100
11 000/√3	100/√3	0.2	10;15;25;30;50			
11 000/√3	100/√3	0.2	10;15;25;30;50	100/3	6P	50
11 000/√3	100/√3	0.2	10;15;25;30;50	100/3	6P	100
11 000/√3	110/√3	0.2	10;15;25;30;50			
11 000/√3	110/√3	0.2	10;15;25;30;50	110/3	6P	50
11 000/√3	110/√3	0.2	10;15;25;30;50	110/3	6P	100
11 000/√3	100/√3	0.5	15;25;50;100			

Primary voltage, [V]	Secondary voltage			Residual winding		
	voltage, [V]	accuracy	burden, [VA]	voltage, [V]	accuracy	burden, [VA]
11 000/ $\sqrt{3}$	100/ $\sqrt{3}$	0.5	15;25;50;100	100/3	6P	50
11 000/ $\sqrt{3}$	100/ $\sqrt{3}$	0.5	15;25;50;100	100/3	6P	100
11 000/ $\sqrt{3}$	110/ $\sqrt{3}$	0.5	15;25;50;100			
11 000/ $\sqrt{3}$	110/ $\sqrt{3}$	0.5	15;25;50;100	110/3	6P	50
11 000/ $\sqrt{3}$	110/ $\sqrt{3}$	0.5	15;25;50;100	110/3	6P	100
11 000/ $\sqrt{3}$	100/ $\sqrt{3}$	1	50;75;100;200			
11 000/ $\sqrt{3}$	100/ $\sqrt{3}$	1	50;75;100;200	100/3	6P	50
11 000/ $\sqrt{3}$	100/ $\sqrt{3}$	1	50;75;100;200	100/3	6P	100
11 000/ $\sqrt{3}$	110/ $\sqrt{3}$	1	50;75;100;200			
11 000/ $\sqrt{3}$	110/ $\sqrt{3}$	1	50;75;100;200	110/3	6P	50
11 000/ $\sqrt{3}$	110/ $\sqrt{3}$	1	50;75;100;200	110/3	6P	100

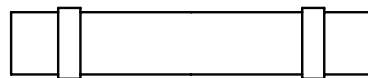
Dimensional Drawing

TJP 4.4

Weight: appr. 41 kg
Creepage Distance: 453 mm



fuse IEC 60282-1



Drawing n.

1VL4200367R0101



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