

Highest voltage for equipment	[kV]	3.6 - 12
Power frequency test voltage, 1 min.	[kV]	10 - 28
Lightning impulse test voltage	[kV]	40 - 75
Fuses	[A]	0.3, 0.6 or 2 or 6,3 (IEC)
Max. rated burden, classes	[VA/cl]	25/0.2 - 50/0.5 - 100/1
Residual winding	[VA/cl]	50 - 200/6P

Description

The TJP 4.x 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 $1.9 \times U_n/8$ 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 over.

The transformer can be mounted in any position. The transformer body is fixed by four screws, the bolted M8 earthing clamp is located on the transformer base plate.

The TJP 4.0 transformer is equipped with a fuse conformably to IEC standard. The design of TJP 4.0 is suitable for ABB AIS panels (see HV terminal and the position of the secondary terminals)

The TJP 4.1 transformer is equipped with a special fuse of either 0.3A or 0.6 A rated current (JT 6 type). The design of TJP 4.1 is suitable for the "cable" connection (see HV terminal and the position of the secondary terminals)

The TJP 4.2 transformer is equipped with a fuse conformably to IEC standard. The design of TJP 4.2 is suitable for the "cable" connection (see HV terminal and the position of the secondary terminals)

Rated primary voltages ... $3/\sqrt{3}$ kV; $3,3/\sqrt{3}$ kV; $6/\sqrt{3}$ kV; $6,6/\sqrt{3}$ kV; $10/\sqrt{3}$ kV; $11/\sqrt{3}$ kV

Other primary voltages can also be supplied on request.

Rated secondary voltages... $100/\sqrt{3}$ V; $110/\sqrt{3}$ V – accuracy classes 0.2; 0.5; 1 (measuring winding) or 3P;

6P (protection winding).

Other secondary voltages can also be supplied on request.

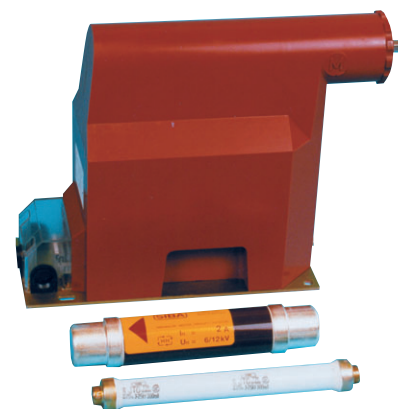
Rated voltages for open-delta connection: ... $100/3$ V; $110/3$ V-class 6P

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).

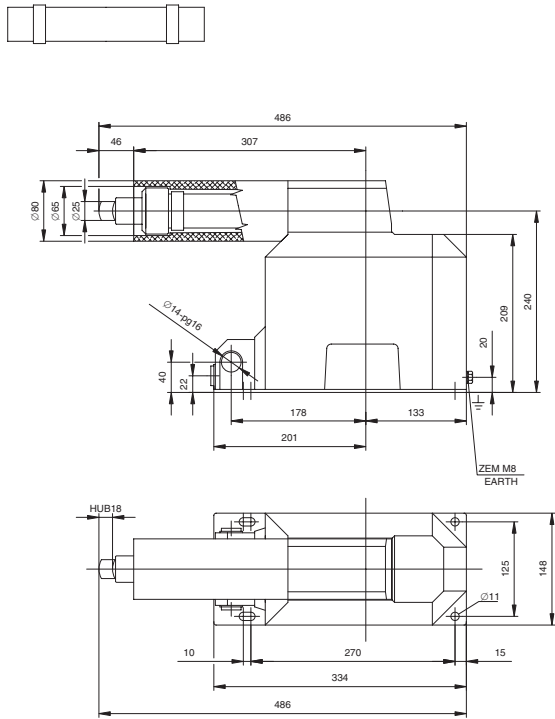
The transformers are manufactured conformably to the requirements and recommendations of the following standards and regulations: IEC, VDE, ANSI, BS, GOST and CSN.



Voltage transformer with suitable fuses

Dimensions

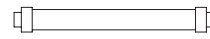
TJP4.0: fuse IEC 60282-1



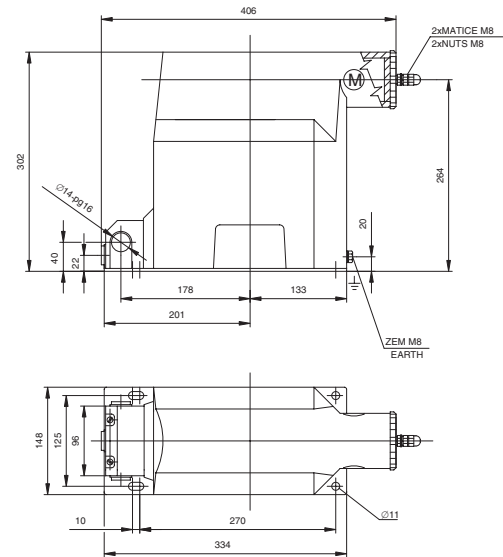
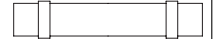
Drawing n. 44204060

Weight: 27 kg

TJP4.1: fuse JT6 300,600mA



TJP4.2: fuse IEC 60282-1



TJP4.1:

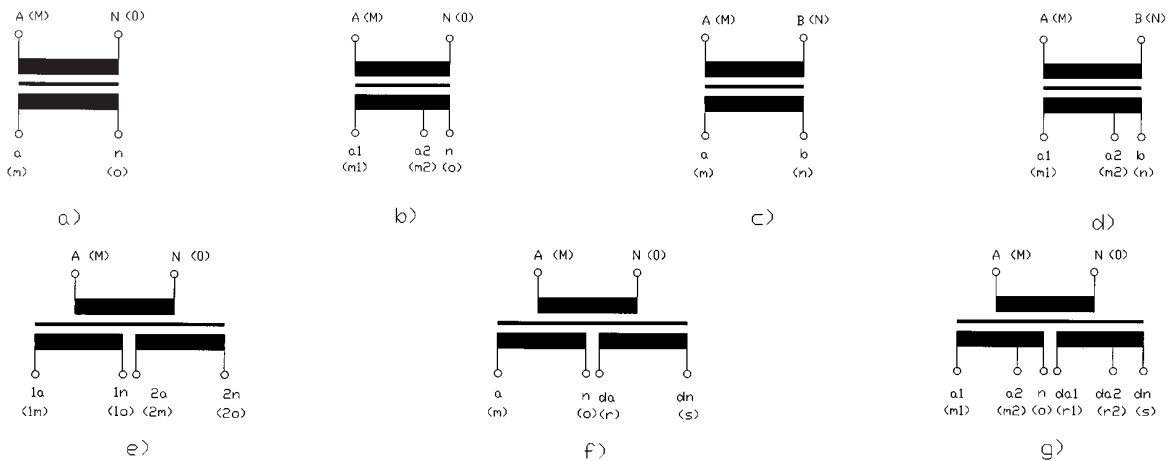
Drawing n. 44204080

Weight: 24 kg

TJP4.2:

Drawing n. 44204090

Marking of the voltage transformer 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.

Standartized transformers

Primary voltage, V	Secondary winding			Residual winding		
	voltage, V	accuracy	burden, VA	voltage, V	accuracy	burden, VA
3000/√3	100/√3	0,2	10,15,25			
3000/√3	100/√3	0,2	10,15,25	100/3	6P	50
3000/√3	100/√3	0,2	10,15,25	100/3	6P	100
3000/√3	110/√3	0,2	10,15,25			
3000/√3	110/√3	0,2	10,15,25	110/3	6P	50
3000/√3	110/√3	0,2	10,15,25	110/3	6P	100
3000/√3	100/√3	0,5	15,25,50			
3000/√3	100/√3	0,5	15,25,50	100/3	6P	50
3000/√3	100/√3	0,5	15,25,50	100/3	6P	100
3000/√3	110/√3	0,5	15,25,50			
3000/√3	110/√3	0,5	15,25,50	110/3	6P	50
3000/√3	110/√3	0,5	15,25,50	110/3	6P	100
3000/√3	100/√3	1	50,75,100			
3000/√3	100/√3	1	50,75,100	100/3	6P	50
3000/√3	100/√3	1	50,75,100	100/3	6P	100
3000/√3	110/√3	1	50,75,100			
3000/√3	110/√3	1	50,75,100	110/3	6P	50
3000/√3	110/√3	1	50,75,100	110/3	6P	100
6000/√3	100/√3	0,2	10,15,25			
6000/√3	100/√3	0,2	10,15,25	100/3	6P	50
6000/√3	100/√3	0,2	10,15,25	100/3	6P	100
6000/√3	110/√3	0,2	10,15,25			
6000/√3	110/√3	0,2	10,15,25	110/3	6P	50
6000/√3	110/√3	0,2	10,15,25	110/3	6P	100
6000/√3	100/√3	0,5	15,25,50			
6000/√3	100/√3	0,5	15,25,50	100/3	6P	50
6000/√3	100/√3	0,5	15,25,50	100/3	6P	100
6000/√3	110/√3	0,5	15,25,50			
6000/√3	110/√3	0,5	15,25,50	110/3	6P	50
6000/√3	110/√3	0,5	15,25,50	110/3	6P	100
6000/√3	100/√3	1	50,75,100			
6000/√3	100/√3	1	50,75,100	100/3	6P	50
6000/√3	100/√3	1	50,75,100	100/3	6P	100
6000/√3	110/√3	1	50,75,100			
6000/√3	110/√3	1	50,75,100	110/3	6P	50
6000/√3	110/√3	1	50,75,100	110/3	6P	100
10000/√3	100/√3	0,2	10,15,25			
10000/√3	100/√3	0,2	10,15,25	100/3	6P	50
10000/√3	100/√3	0,2	10,15,25	100/3	6P	100
10000/√3	110/√3	0,2	10,15,25			
10000/√3	110/√3	0,2	10,15,25	110/3	6P	50
10000/√3	110/√3	0,2	10,15,25	110/3	6P	100
10000/√3	100/√3	0,5	15,25,50			
10000/√3	100/√3	0,5	15,25,50	100/3	6P	50
10000/√3	100/√3	0,5	15,25,50	100/3	6P	100
10000/√3	110/√3	0,5	15,25,50			
10000/√3	110/√3	0,5	15,25,50	110/3	6P	50
10000/√3	110/√3	0,5	15,25,50	110/3	6P	100
10000/√3	100/√3	1	50,75,100			
10000/√3	100/√3	1	50,75,100	100/3	6P	50
10000/√3	100/√3	1	50,75,100	100/3	6P	100
10000/√3	110/√3	1	50,75,100			
10000/√3	110/√3	1	50,75,100	110/3	6P	50
10000/√3	110/√3	1	50,75,100	110/3	6P	100
11000/√3	100/√3	0,2	10,15,25			
11000/√3	100/√3	0,2	10,15,25	100/3	6P	50
11000/√3	100/√3	0,2	10,15,25	100/3	6P	100
11000/√3	110/√3	0,2	10,15,25			
11000/√3	110/√3	0,2	10,15,25	110/3	6P	50
11000/√3	110/√3	0,2	10,15,25	110/3	6P	100
11000/√3	100/√3	0,5	15,25,50			
11000/√3	100/√3	0,5	15,25,50	100/3	6P	50
11000/√3	100/√3	0,5	15,25,50	100/3	6P	100
11000/√3	110/√3	0,5	15,25,50			
11000/√3	110/√3	0,5	15,25,50	110/3	6P	50
11000/√3	110/√3	0,5	15,25,50	110/3	6P	100
11000/√3	100/√3	1	50,75,100			
11000/√3	100/√3	1	50,75,100	100/3	6P	50
11000/√3	100/√3	1	50,75,100	100/3	6P	100
11000/√3	110/√3	1	50,75,100			
11000/√3	110/√3	1	50,75,100	110/3	6P	50
11000/√3	110/√3	1	50,75,100	110/3	6P	100

Customer	Date	
Address	Delivery required	
Country	Tel.	Fax.
Contact person	E-mail	

Voltage transformers

Project ref.:	<input type="text"/>	Date	<input type="text"/>	Inquiry No.:	<input type="text"/>
				Offer No.:	<input type="text"/>
Um:	<input type="text"/> kV	Insulation level (BIL):	<input type="text"/> kV	<input type="text"/> kV	<input type="text"/> kV
Un:	<input type="text"/> kV				
freq.:	<input type="text"/> Hz				
Standard No. (IEC):	<input type="text"/>	Routine test certificates	<input type="text"/>		
		Additional name plate	<input type="text"/>		
Indoor	<input type="text"/>	Remarks:			
Outdoor	<input type="text"/>				
Pos.:	<input type="text"/>	No.:	<input type="text"/>	Additional (residual) winding	<input type="radio"/> Yes <input type="radio"/> NO
Ratio:	<input type="text"/>		Voltage:	<input type="text"/> V	
			Class:	<input type="text"/> 6P	
			Burden:	<input type="text"/> VA	
Burden:	<input type="text"/> VA	<input type="text"/> VA	With fuse	<input type="text"/>	
Class:	<input type="text"/>	<input type="text"/>	Without fuse	<input type="text"/>	
Supplier's remarks			Single pole	<input type="text"/>	
Type	<input type="text"/>		Double pole	<input type="text"/>	
Unit price	<input type="text"/>		Comment		
Total price	<input type="text"/>				
Pos.:	<input type="text"/>	No.:	<input type="text"/>	Additional (residual) winding	<input type="radio"/> Yes <input type="radio"/> NO
Ratio:	<input type="text"/>		Voltage:	<input type="text"/> V	
			Class:	<input type="text"/> 6P	
			Burden:	<input type="text"/> VA	
Burden:	<input type="text"/> VA	<input type="text"/> VA	With fuse	<input type="text"/>	
Class:	<input type="text"/>	<input type="text"/>	Without fuse	<input type="text"/>	
Supplier's remarks			Single pole	<input type="text"/>	
Type	<input type="text"/>		Double pole	<input type="text"/>	
Unit price	<input type="text"/>		Comment		
Total price	<input type="text"/>				



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