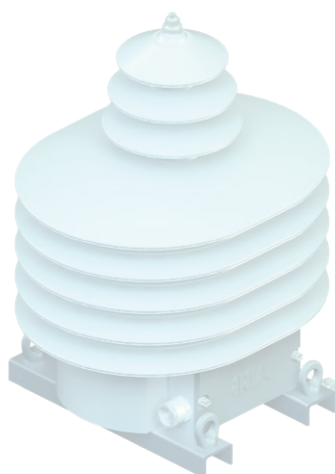


TJO 6

Outdoor voltage transformers



The TJO 6 single-pole insulated voltage transformers are cast in outdoor epoxy resin and designed mainly for insulation voltages up to 25 kV. Alternative insulation voltages are available to special order. Standard transformers incorporate an overvoltage factor of $1.9 \times U_n/8$ hrs.

Description

One outlet of the primary winding, including its terminal, is insulated from earth at the rated insulation value. The other outlet of the primary winding, together with its terminal, is earthed during operation. Most transformers are equipped with two secondary windings, the first is for either measuring or protection purposes, the other connects into an open-delta configuration in a threephase system. One terminal of each secondary winding and one of the open-delta connected terminals must be earthed during transformer operation.

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

The transformer body is fixed by four screws, the bolted earthing clamp is located on the transformer base plate. For ease of handling and assembly, the transformer is supplied with four suspension lugs fixed to the base frame.

By special order, the transformer can also be provided with primary winding designed for two different primary voltages (with secondary side changeover switch). The transformers are designed and manufactured to conform with the requirements and recommendations of the following standards: IEC, VDE, ANSI, BS, GOST, ČSN and PN-EN.

Parameters

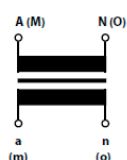
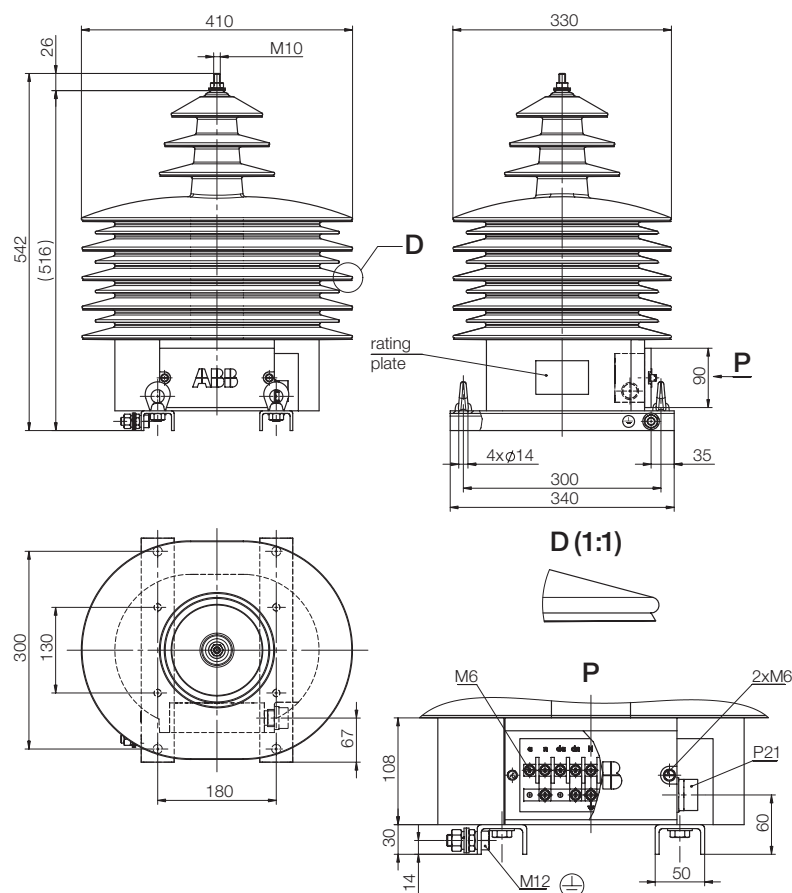
Rated primary voltages ¹⁾	[kV]	10:√3; 15:√3; 20:√3; 22:√3
Rated secondary voltages ^{1) 2)}	[V]	100:√3; 110:√3
Rated voltages for open-delta connection ¹⁾	[V]	100:3; 110:3
Rated frequency	[Hz]	50; 60
Highest voltage for equipment	[kV]	up to 25
Rated power-frequency withstand voltage (r.m.s.), 1 min.	[kV]	up to 50
Rated lightning impulse withstand voltage (peak)	[kV]	up to 125
Max. rated burden/classes – measurement winding	[VA/cl]	50/0.2; 100/0.5; 150/1
Max. rated burden/classes – residual winding	[VA/cl]	up to 200/3P or 6P

¹⁾ Other voltages can also be supplied on request.

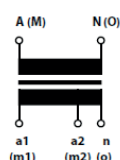
²⁾ Accuracy classes 0.2; 0.5; 1 (measurement winding) or 3P; 6P (protection winding).

Dimension drawing

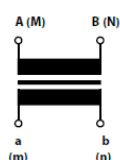
creepage distance: 1250 mm



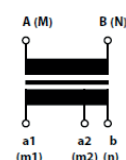
a) Single-pole insulated transformer



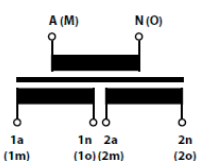
b) Single-pole insulated transformer with a tap



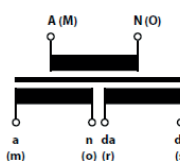
c) Double-pole insulated transformer



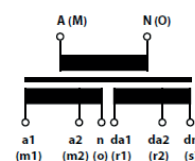
d) Double-pole insulated transformer with a tap



e) Single-pole insulated transformer with two secondary windings



f) Single-pole insulated transformer with two secondary windings, one of which is the auxiliary (residual) winding



g) Single-pole insulated transformer with two secondary, tapped, windings, one of which is the auxiliary (residual) winding

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