

MEDIUM VOLTAGE PRODUCT

TJP 4.0-F

Indoor voltage transformers



—
01 Transformer with
detached fuse

Parameters	Units
Highest voltage for equipment	3.6 – 12 kV
Power frequency test voltage, 1 min.	10 – 28 (42) kV
Lightning impulse test voltage	40 - 75 kV
Fuses	2 or 6.3 A (IEC)
Max. rated burden, classes	25/0.2 - 75/0.5 - 150/1 VA/cl
Residual winding	50 - 200/6P VA/cl

Description

The TJP 4.0-F 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 cover.

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-F transformer is equipped with a fuse conformably to IEC standard.

The design of TJP 4.0-F is suitable for AIS panels (see HV terminal and the position of the secondary terminals) and the replacement of the fuse can be done from the front (HV terminal) or after removing the upper part of the fuseholder – see „fuse replacement instruction“. There are two options for the fuseholder position : above secondary terminal box (suitable for ABB AIS, drawing number 1VL4200251R0101) or on the opposite side (drawing number 1VL4200300R0101).

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.

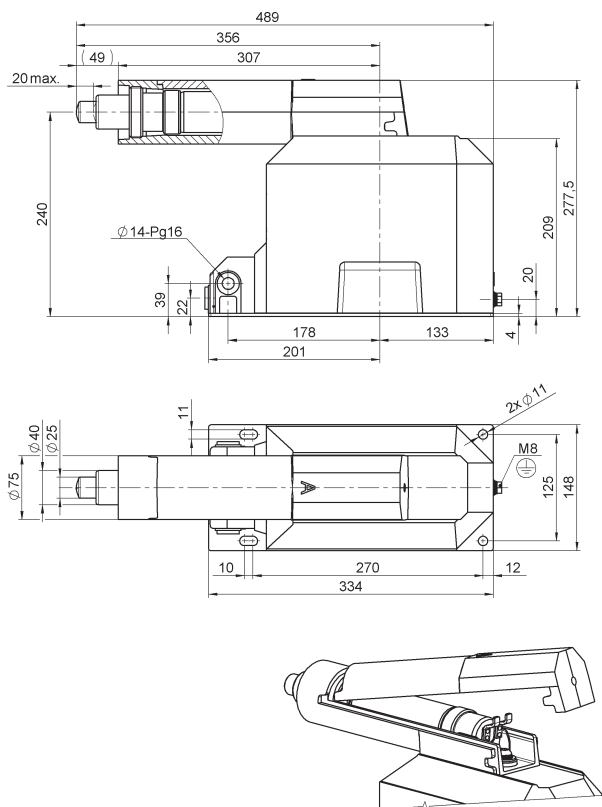
Based on a discussion with the manufacturer the transformer can also be provided with primary winding designed for two different primary voltages (with secondary side changeover).

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

Dimensional Drawings

TJP 4.0-F

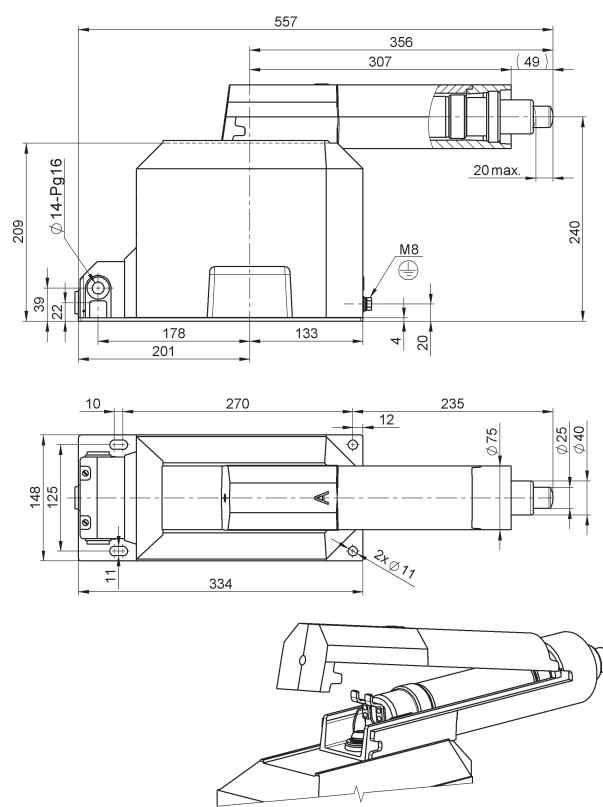
Weight: appr. 24 kg
Creepage Distance: 403 mm



Drawing number: 1VL4200251R0101

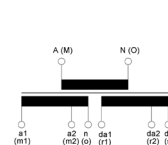
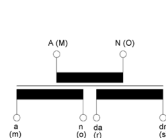
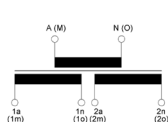
TJP 4.0-F

Weight: appr. 24 kg
Creepage Distance: 403 mm



Drawing number: 1VL4200300R0101

Marking of the voltage transformer outlets



a)

b)

c)

d)

e)

- Single-pole insulated transformer
- Single-pole insulated transformer with a tap
- Single-pole insulated transformer with two secondary windings
- Single-pole insulated transformer with two secondary windings, with one of which being the auxiliary (residual) winding
- Single-pole insulated transformer with two secondary, tapped windings, with one which being the auxiliary (residual) winding.

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