

 MEDIUM VOLTAGE PRODUCT

TJMC 6.1

Indoor voltage transformers



Parameters	Values
Highest voltage for equipment	24 kV
Power frequency test voltage, 1 min.	50 kV
Lightning impulse test voltage	125 kV
Max. rated burden, classes	20/0.2 - 50/0.5
Residual winding	50 - 100/3P VA/cl
Operating temperature range	-25 °C - +40 °C

Description

The TJMC 6.1 is fully enclosed, epoxy resin casted, single-phase indoor voltage transformer, coated in zinc, reliable grounded, with plug-in connection for primary terminals, used for voltage measurement and protection in the applications up to 24 kV.

Insulation voltages different from the above are the subject of an agreement between the manufacturer and the customer.

If no a different value is required, the transformers are manufactured with an 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 terminal is earthed during the operation. Transformer has 6 secondary terminals, which can support up to 3 secondary windings, which can be used for measuring and protection purpose or being connected into an open-delta connection in a three-phase system. One terminal of each secondary winding have to be earthed during the transformer operation. The transformer can be mounted in any position. The transformers are fixed by four screws. The secondary terminal board is covered with sealable cover made of plastic material.

Rated primary voltages

20/ $\sqrt{3}$ /0.1/ $\sqrt{3}$ /0.1/3 kV

Other primary voltages can also be supplied on request.

Rated secondary voltages

20/ $\sqrt{3}$ /0.1/ $\sqrt{3}$ /0.1/ $\sqrt{3}$ /0.1/3 kV – accuracy classes 0.2; 0.5; 1 (measuring winding) or 3P (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 designed for two primary voltage levels (with change over secondary side).

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

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

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01 Marking of the
voltage transformers
outlets

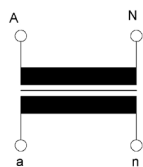
a Single-pole insulated
transformer

b Single-pole insulated
transformer with a tap

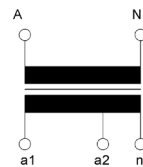
c Single-pole insulated
transformer with two
secondary windings

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

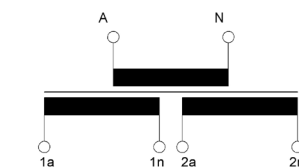
e Single-pole insulated
transformer with two
secondary, tapped
windings, with one
which being the auxiliary
(residual) winding



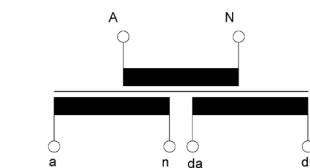
a



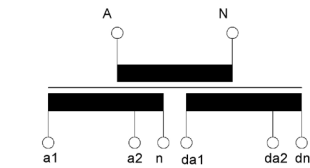
b



c



d

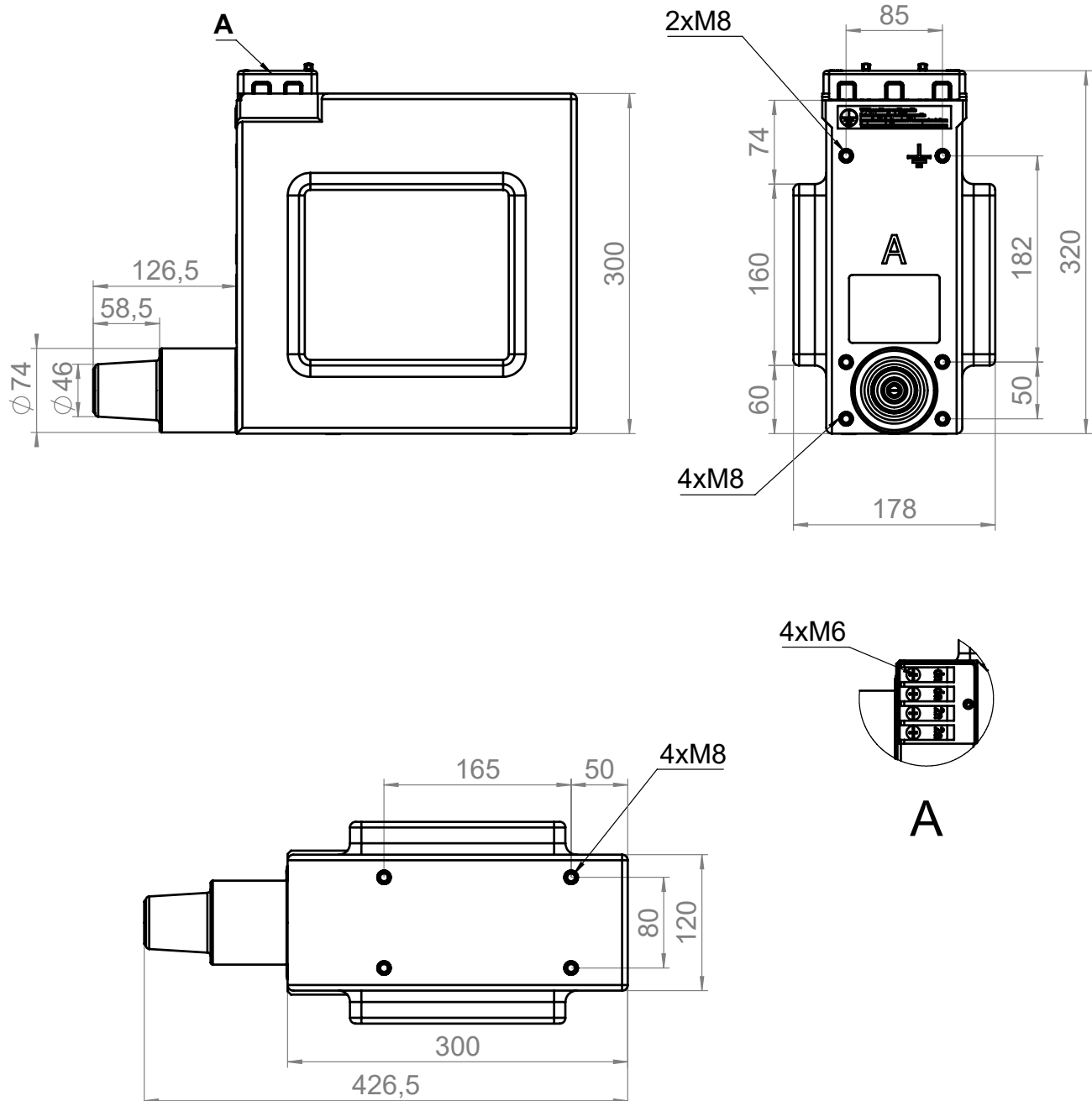


e

Dimensional Drawing

TJMC 6.1

Weight: 40 kg
PRIMARY CONNECTION : INTERFACE ½ C



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