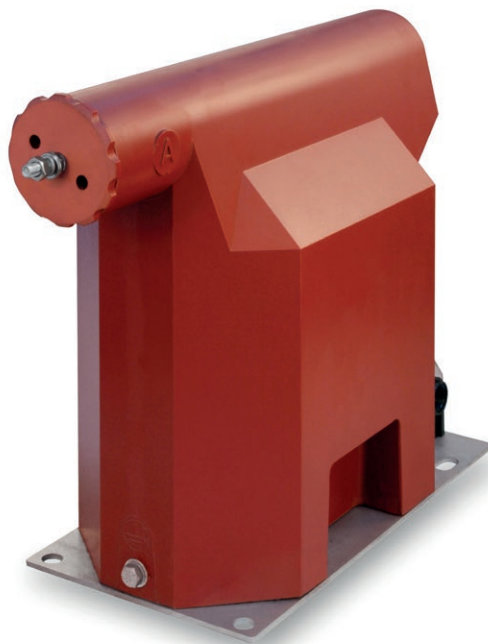


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MEDIUM VOLTAGE PRODUCT

## **TJP 6.1, TJP 6.2**

Indoor voltage transformers



Parameters	Values
Highest voltage for equipment	17.5 – 24 (25) kV
Power frequency test voltage, 1 min.	38 - 50 kV
Lightning impulse test voltage	95 - 125 kV
Fuses	0.3 - 6.3 A
Max. rated burden, classes	50/0.2 - 150/0.5 - 200/1 VA/cl
Residual winding	50 - 200/6P VA/cl

### Description

The TJP 6.1, TJP 6.2 epoxy insulated voltage transformers are cast in epoxy resin and designed mostly for insulation voltages of 17.5 to 24(25) 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 opendelta 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 6.1 transformer is equipped with a special fuse of either 0.3 A or 0.6 A rated current (JT 6 type). The design of TJP 6.1 is suitable for the „cable“ connection (see HV terminal and the position of the secondary terminals).

The TJP 6.2 transformer is equipped with a fuse conformably to IEC standard. The design of TJP 6.2 is suitable for the „cable“ connection (see HV terminal and the position of the secondary terminals).

### Rated primary voltages

$15/\sqrt{3}$  kV;  $20/\sqrt{3}$  kV;  $22/\sqrt{3}$  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 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 186-1969, CSN 35 1360.

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

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01 Marking of the  
voltage transformers  
outlets

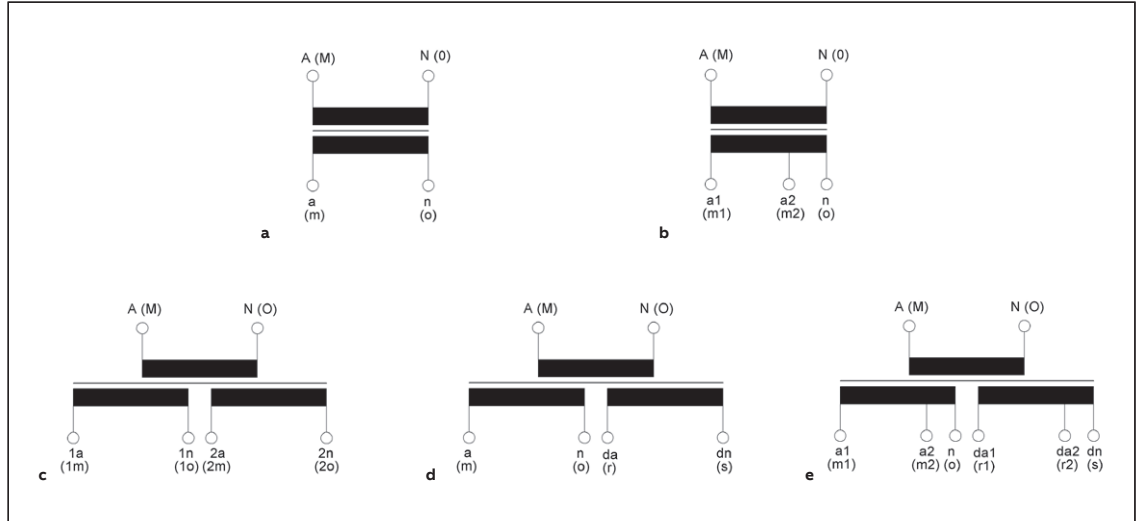
**a** Single-pole insulated  
transformer

**b** Single-pole insulated  
transformer with a tap

**c** Single-pole insulated  
transformer with two  
secondary windings

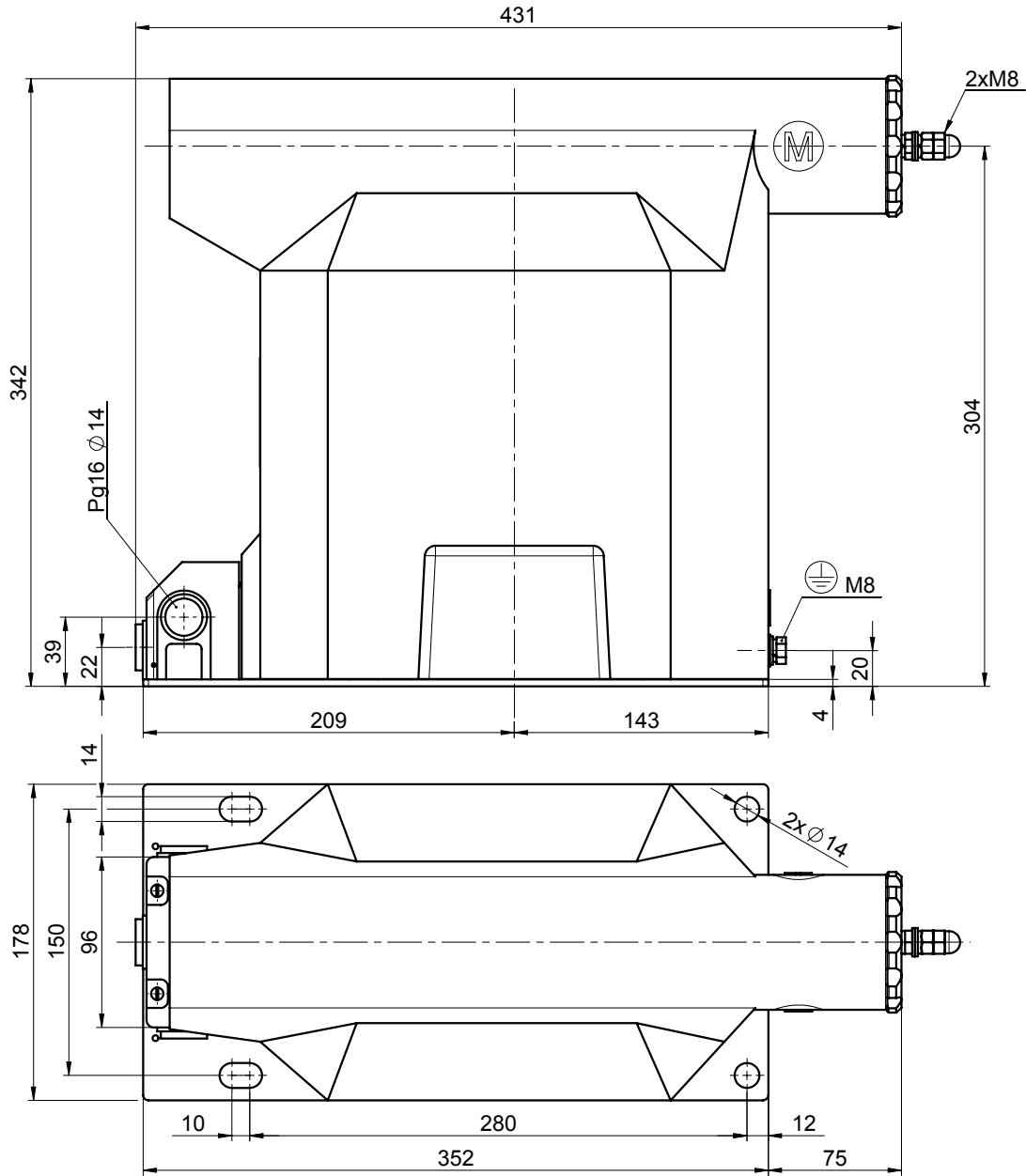
**d** Single-pole insulated  
transformer with two  
secondary windings,  
with one of which being  
the auxiliary (residual)  
winding

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

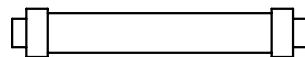


TJP 6.1

Weight: appr. 42 kg  
Creepage Distance: 342 mm



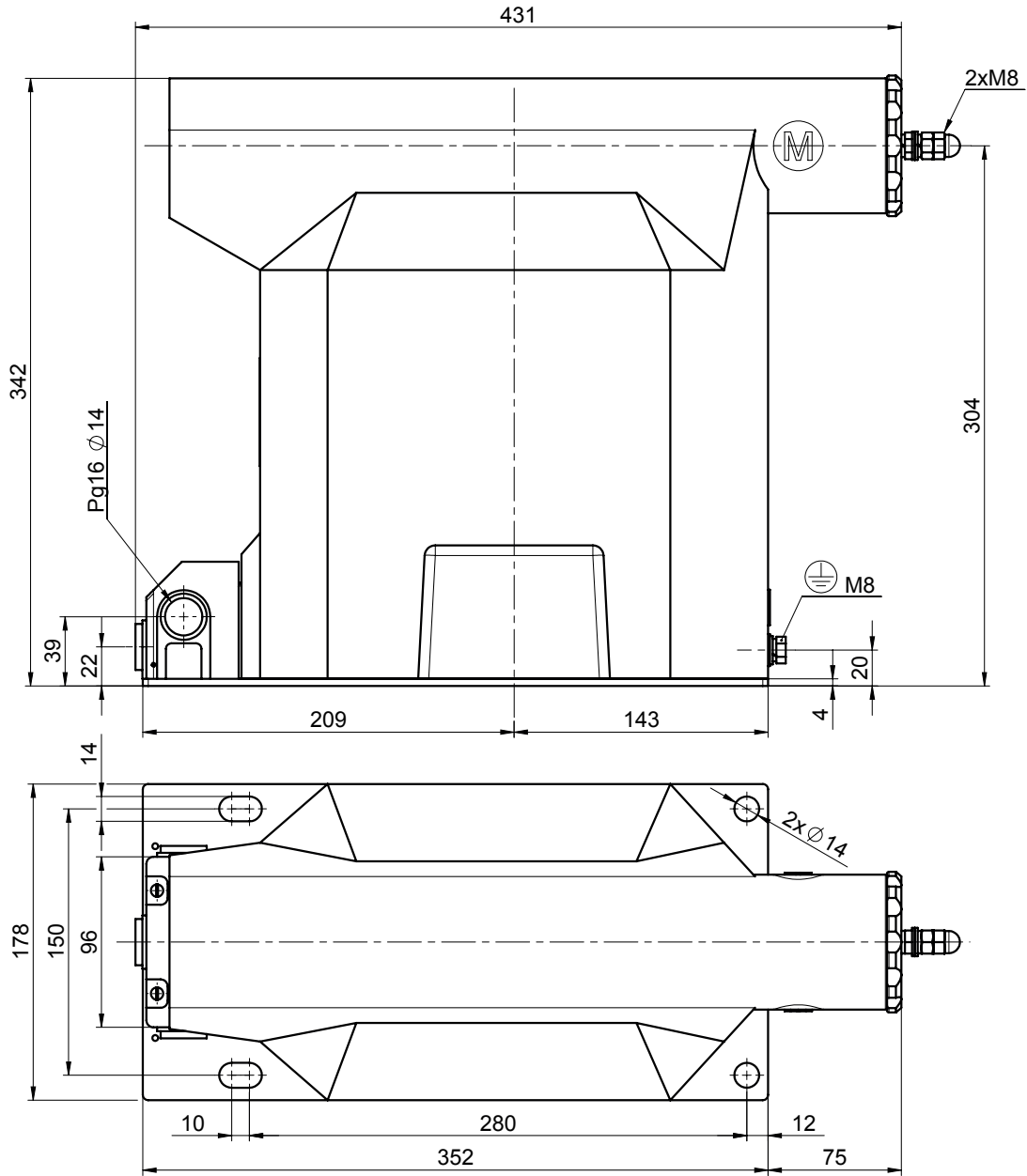
fuse JT6 300, 600mA



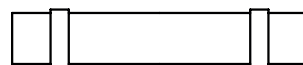
Drawing n.
44203980

TJP 6.2

Weight: appr. 42 kg  
Creepage Distance: 342 mm



fuse IEC 60282-1



Drawing n.
44203990

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**CONTACT US**

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