MEDIUM VOLTAGE PRODUCT

TJP 6.1, TJP 6.2
Indoor voltage transformers
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 x Un/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 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).

### Description

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<th>Values</th>
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<td>Highest voltage for equipment</td>
<td>17.5 – 24 (25) kV</td>
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<td>Power frequency test voltage, 1 min.</td>
<td>38 - 50 kV</td>
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<td>Lightning impulse test voltage</td>
<td>95 - 125 kV</td>
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<td>Fuses</td>
<td>0.3 - 6.3 A</td>
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<td>Max. rated burden, classes</td>
<td>50/0.2 - 150/0.5 - 200/1 VA/cl</td>
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<td>Residual winding</td>
<td>50 - 200/6P VA/cl</td>
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## Rated primary voltages
15/√3 kV; 20/√3 kV; 22/√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 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.
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

**Drawing n.**  
44203980
Weight: appr. 42 kg
Creepage Distance: 342 mm

fuse IEC 60282-1

| Drawing n.          | 44203990 |