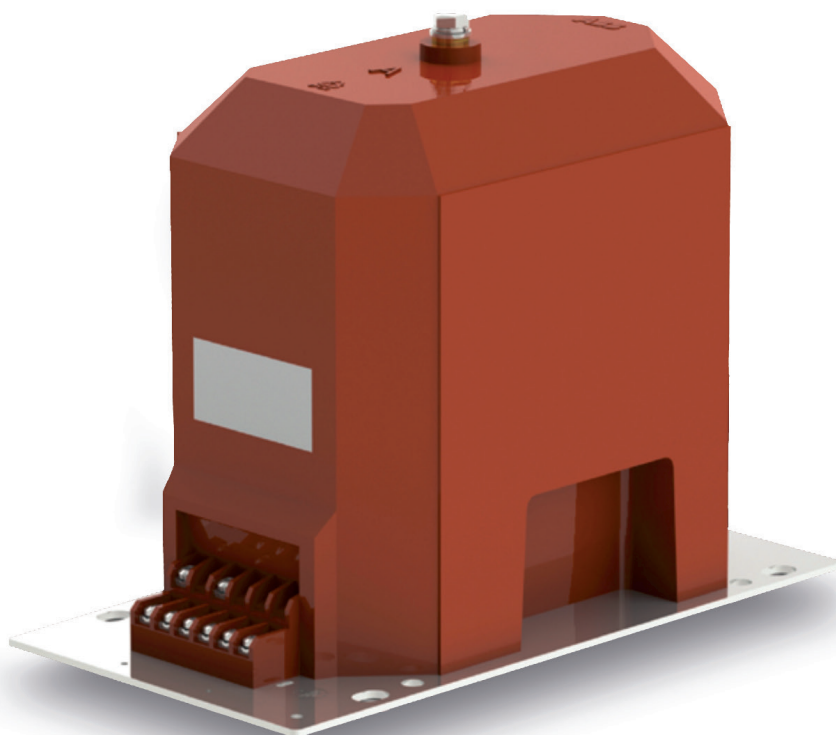



MEDIUM VOLTAGE PRODUCT

TJC 6-G

Indoor voltage transformers



Parameters	Units
Highest voltage for equipment	3.6 - 24 (25) kV
Power frequency test voltage, 1 min.	10 - 60 kV
Lightning impulse test voltage	40 - 125 kV
Max. rated burden, classes	50/0.2 - 150/0.5 - 200/1 VA/cl
Residual winding	50 - 200/6P VA/cl

Description

The TJC 6-G single-pole insulated voltage transformers are cast in epoxy resin and designed mostly for generator with insulation voltages of 3,6 to 25 kV.

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

If no other 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 terminal is earthed during the operation.

The transformer is mostly 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 threephase system. One terminal of each secondary winding and one of the open-delta connected terminals have to be earthed during the transformer operation. When not required otherwise, the secondary windings are lead out into a cast-type secondary terminal board.

The transformer can be mounted in any position. The transformers are fixed by four screws, the M8 bolted earthing clamp is located on the transformer base plate. The secondary terminal board is covered with a transparent and sealable cover made of plastic material.

Rated primary voltages

3 000/ $\sqrt{3}$, 6 000/ $\sqrt{3}$, 6 600/ $\sqrt{3}$, 10 000/ $\sqrt{3}$, 10 500/ $\sqrt{3}$, 11 000/ $\sqrt{3}$, 11 500/ $\sqrt{3}$, 13 800/ $\sqrt{3}$, 14 000/ $\sqrt{3}$, 14 400/ $\sqrt{3}$, 14 500/ $\sqrt{3}$, 15 000/ $\sqrt{3}$, 15 750/ $\sqrt{3}$, 16 000/ $\sqrt{3}$, 16 500/ $\sqrt{3}$, 17 000/ $\sqrt{3}$, 18 000/ $\sqrt{3}$, 18 500/ $\sqrt{3}$, 19 000/ $\sqrt{3}$, 19 200/ $\sqrt{3}$, 20 000/ $\sqrt{3}$, 21 000/ $\sqrt{3}$, 22 000/ $\sqrt{3}$, 24 000/ $\sqrt{3}$ V. Other primary voltages can also be supplied on request.

Rated secondary voltages

100/ $\sqrt{3}$, 110/ $\sqrt{3}$, 115/ $\sqrt{3}$, 120/ $\sqrt{3}$, 190/ $\sqrt{3}$ 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, 110/3, 115/3, 120/3, 190/3 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, ANSI, BS, GOST and CSN.

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