

MEDIUM VOLTAGE PRODUCT

TDC 4 Indoor voltage transformers



Parameters	Values
Highest voltage for equipment	3.6 - 12 kV
Power frequency test voltage, 1 min.	10 - 42 kV
Lightning impulse test voltage	40 - 75 kV
Max. rated burden, classes	25/0.2 - 75/0.5 - 150/1 VA/cl

Description

The TDC 4 double-pole insulated voltage transformers are cast in epoxy resin and designed mostly for insulation voltages of 3.6 kV to 12 kV.

If no other value is required the transformers are manufactured with a voltage factor of 1.2 x Un. All the parts of the primary winding of the transformer are insulated from the earth, including the terminals, to an insulation level identical with the rated insulation level. When operating in a three-phase system the primary inlets of the transformer are connected across the respective lines, to the phase-to-phase voltage, mostly in the "V" type of connection. The majority of the transformers is equipped with one secondary winding, intended to be used for either the measurement or protection purposes. One of the terminals of each secondary winding has to be earthed during the transformer operation. If not required otherwise, the secondary winding is lead out into a cast secondary terminal board.

The transformer may 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, sealable terminal board is covered with a transparent cover made of plastic material.

Rated primary voltages

3 kV; 3.3 kV; 6 kV; 6.6 kV; 10 kV; 11 kV Other primary voltages based upon customer's request may be delivered, too.

Rated secondary voltages

100 V; 110 V – 0.2; 0.5; and 1 accuracy classes (measuring winding), or 3P; 6P (protection winding) Other secondary voltages based upon customer's request may be delivered, too.

Rated frequency

50 Hz; 60 Hz.

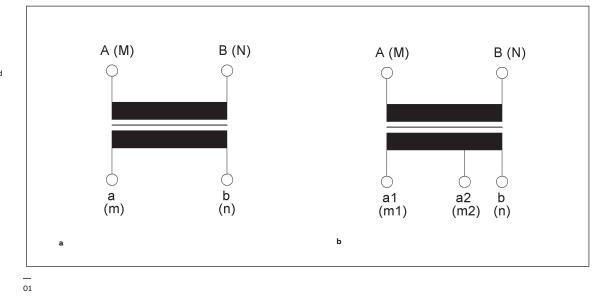
Design for two primary voltages is also possible, based on a consultancy to be conducted with the manufacturer (change over secondary side).

The transformers are manufactured and delivered 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-b.

Optional accessory

The TDC 4 can be delivered together with external fuse holders as an option in case of interest. The fuse holders are equipped with JT6 fuses with tripping current 300 mA (recommended for system voltage above 6.6 kV) or 600 mA (recommended for system voltage up to 6.6 kV). It is delivered separately, not mounted to TDC 4.

Mounting kit 1VL0209587P0101 shall be used during the installation, to ensure proper 40° rotation of fuse holders against TDC 4 body. See manual 1VLM000614 for more information. Fuse holder with fuse can be delivered fully separately as well. 

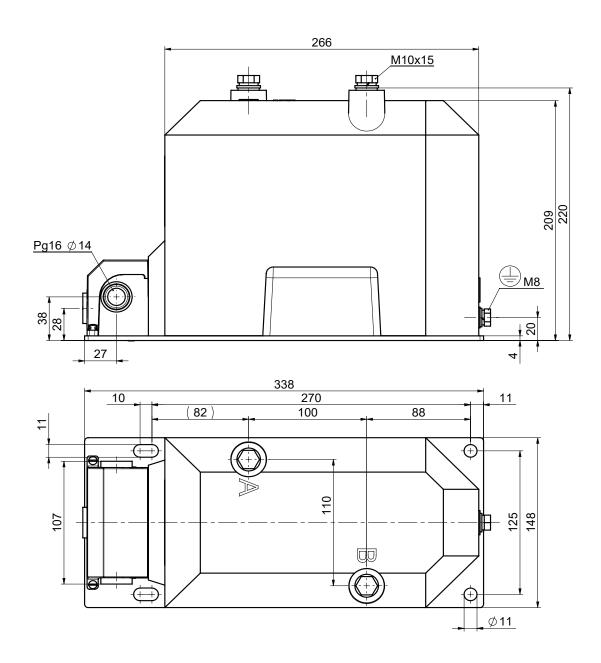
Standardized transformers

Primary voltage [V]	Secondary voltage		
	voltage [V]	accuracy	burden [VA]
3 000	100	0.2	10;15;25
3 000	100	0.5	15;25;50
3 000	100	1	50;75;100
3 300	110	0.2	10;15;25
3 300	110	0.5	15;25;50
3 300	110	1	50;75;100
6 000	100	0.5	15;25;50
6 000	100	0.5	15;25;50
6 000	100	1	50;75;100
6 600	110	0.2	10;15;25
6 600	110	0.5	15;25;50
6 600	110	1	50;75;100
10 000	100	0.2	10;15;25
10 000	110	0.2	10;15;25
10 000	100	0.5	15;25;50
10 000	110	0.5	15;25;50
10 000	100	1	50;75;100
10 000	110	1	50;75;100
11 000	100	0.2	10;15;25
11 000	110	0.2	10;15;25
11 000	100	0.5	15;25;50
11 000	110	0.5	15;25;50
11 000	100	1	50;75;100
11 000	110	1	50;75;100

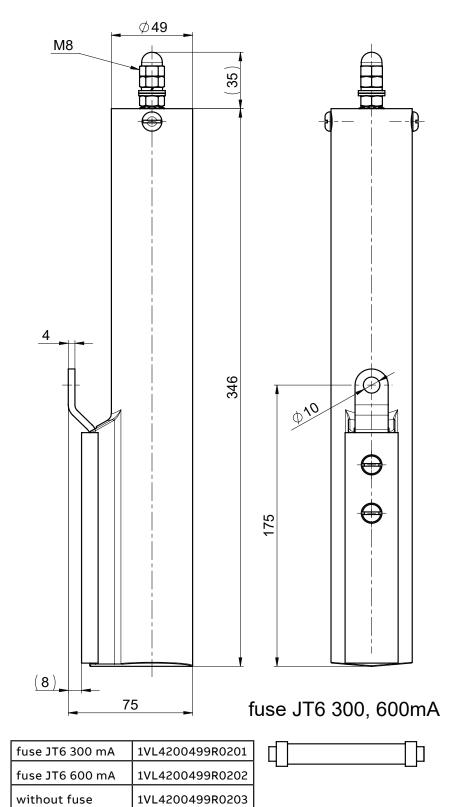
Dimensional Drawings

TDC 4

Weight: appr. 20 kg Creepage Distance A-B: 149 mm Creepage Distance A(B)- ≟: 222 mm

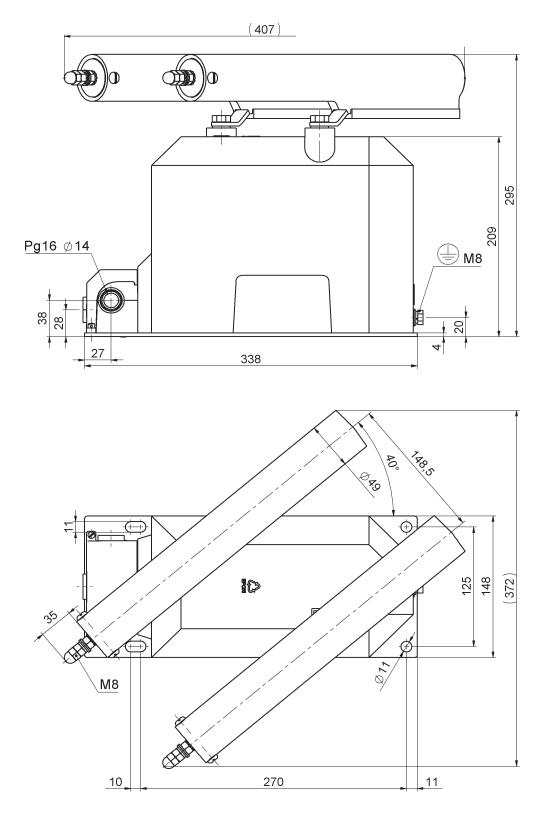


Drawing n.
44203590



External fuse holder

TDC 4 with external fuse holder





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