

Voltage instrument transformer VTO 38



Voltage instrument transformers VTO 38 are single-phase transformers. They are designed for the use in the high voltage systems. They are designed for measuring and protection of high voltage distributing equipment for outdoor design. They are suitable for supplying of drives of remote-controlled section switches.

The accuracy classes for measuring winding are 0.2, 0.5, 1, 3, for the securing winding of 3P and 6P. The transformers satisfy required accuracy class at intervals from 25% to 100% of rated load.

Magnetic circuit of voltage transformers VTO 38 is made of oriented transformer strips in the shape of "C" of core. The outlets of primary winding are brought out by the means of bolts M10. For contacting them we recommend use conductors of maximum diameter of 6 mm² and terminal ends by reason of suspension of dynamic forces and vibrations within the system.

ATTENTION! The isolators must not be pre-stressed mechanically in the direction away from the body of transformer during the other way of contacting.

Technical specifications

Highest voltage for equipment:

36/38.5 kV

Power frequency test voltage:

70/80 kV

Lightning impulse test voltage:

170/180 kV

Nominal primary voltage:

$3000/\sqrt{3}$ – $35000/\sqrt{3}$ V

Nominal secondary current:

$100/\sqrt{3}$, $110/\sqrt{3}$, $120/\sqrt{3}$ V

Nominal auxiliary voltage:

100/3, 110/3, 120/3 V

Accuracy class - measurement:

0.2, 0.5, 1

Accuracy class - protection:

3P, 6P

Nominal power:

10, 30, 50, 75, 100, 150 VA

Max power:

500 VA

Nominal frequency:

50 Hz

Length creepage:

1230 mm

Weight:

49 kg

The temperature class:

E

Operation conditions:

All active parts of transformers VTO 38 are compound-insulated with epoxy-mixture resistant to the external effects (UV radiation, humidity, etc.) This material performs both the electrical insulating and the mechanical functions.

Transformers are fixed by the means of four screws M12 in the holes in the basic frame. We recommend use terminal ends corresponding to the used cross-section of the conductor for attaching to the secondary outlets. The secondary terminal plate is provided with the waterproof cover. The cover can be sealed. Inside, there is the set with jumpers and small screws for the possibility of earth connection and short circuiting of the wiring. (See "The Instructions for the mounting and operation").

In cases where the substitution for the older types of transformers (various producers) is required, we supply transformers VTO 38 with modified basic plates that have identical mounting spacing to spacing of the substituted types.

Voltage instrument transformers VTO 38 complied all the tests according to the IEC 600442.

For the customer's request we provide official calibration.

It is possible to consult other technical parameters with the producer.

This transformer is not designed as a self-locking one. To protect the appliance from destruction due to non-standard effects such as overvoltage, ferroresonance, transients etc., the transformer must be equipped with suitable transformer protection.

For more information about non-standard effects and protection please visit our website www.kpb intra.cz under "support" section.

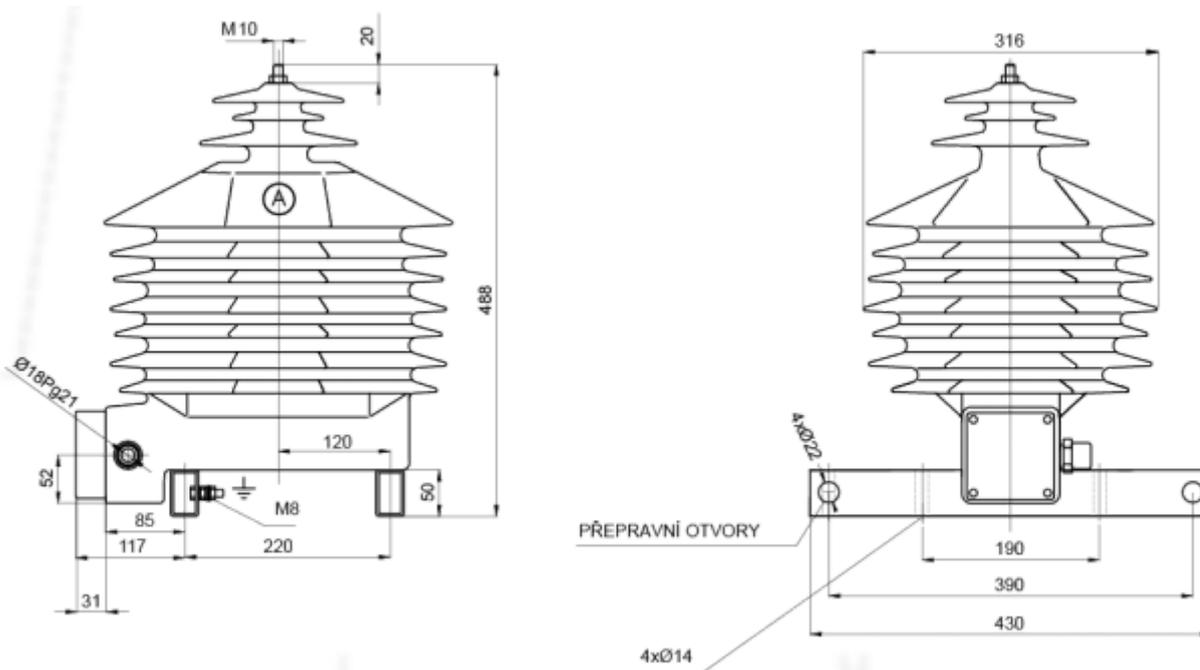
operating temperature from -40 to + 40 °C

corresponds to temperature class -40 / 40 according to IEC 61869-1

Standard:

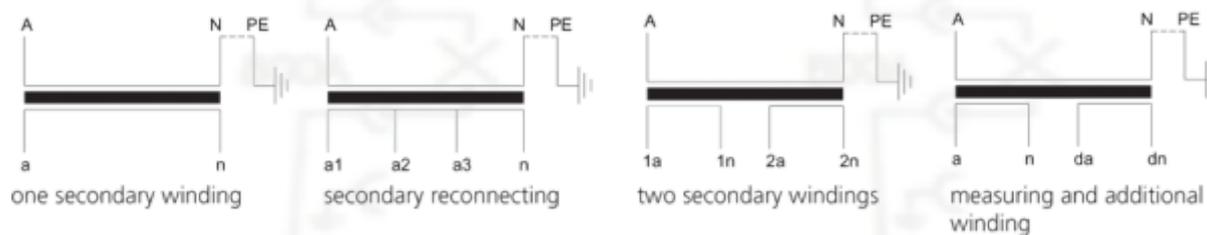
ČSN EN 60044-2, IEC EN 60044-2, ČSN EN 61869-1, ČSN EN 61869-3, IEC EN 61869-1, IEC EN 61869-3, GOST 15 150

Technical drawings:



VTO 38

WIRING DIAGRAM



connection diagram

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