Voltage instrument supporting transformer VTS 36P

Voltage instrument transformers VTS 36P are single-phase transformers isolated with one pole. They are designed for the use in the high voltage systems from 15 kV to 38.5 kV. They are designed for measuring and protection of high voltage distributing equipment for indoor design. The instruments are equipped with high voltage fuse protecting the surrounding distributing system.

The values of secondary voltage are 100/√3, 110/√3, 120/√3, 100/3, 110/3, 120/3 V. The accuracy classes for measuring winding are 0.2, 0.5, 1, 3, for the securing winding are 3P and 6P. The transformers satisfy required accuracy class at intervals from 25% to 100% of rated load.

Transformers VTS 36P have epoxy tube for fuse of type EFO Un= 36kV 2A.

Transformers are fixed by the means of four screws M12 in the holes in the basic plate. The outlet of primary winding "A" is spring contact.

The secondary terminal plate is provided with the cover with sealing screw. 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 operation and mounting").

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:
15000/√3 – 35000/√3 V
Nominal secondary current:
100/√3, 110/√3, 120/√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:
25, 100 VA
Max power:
400 VA
Nominal frequency:
50 Hz
Weight:
50 kg
The temperature class:
E
Operation conditions:
operating temperature from -5 to + 40 °C corresponds to temperature class -5/40 according to IEC 61869-1
Standard:

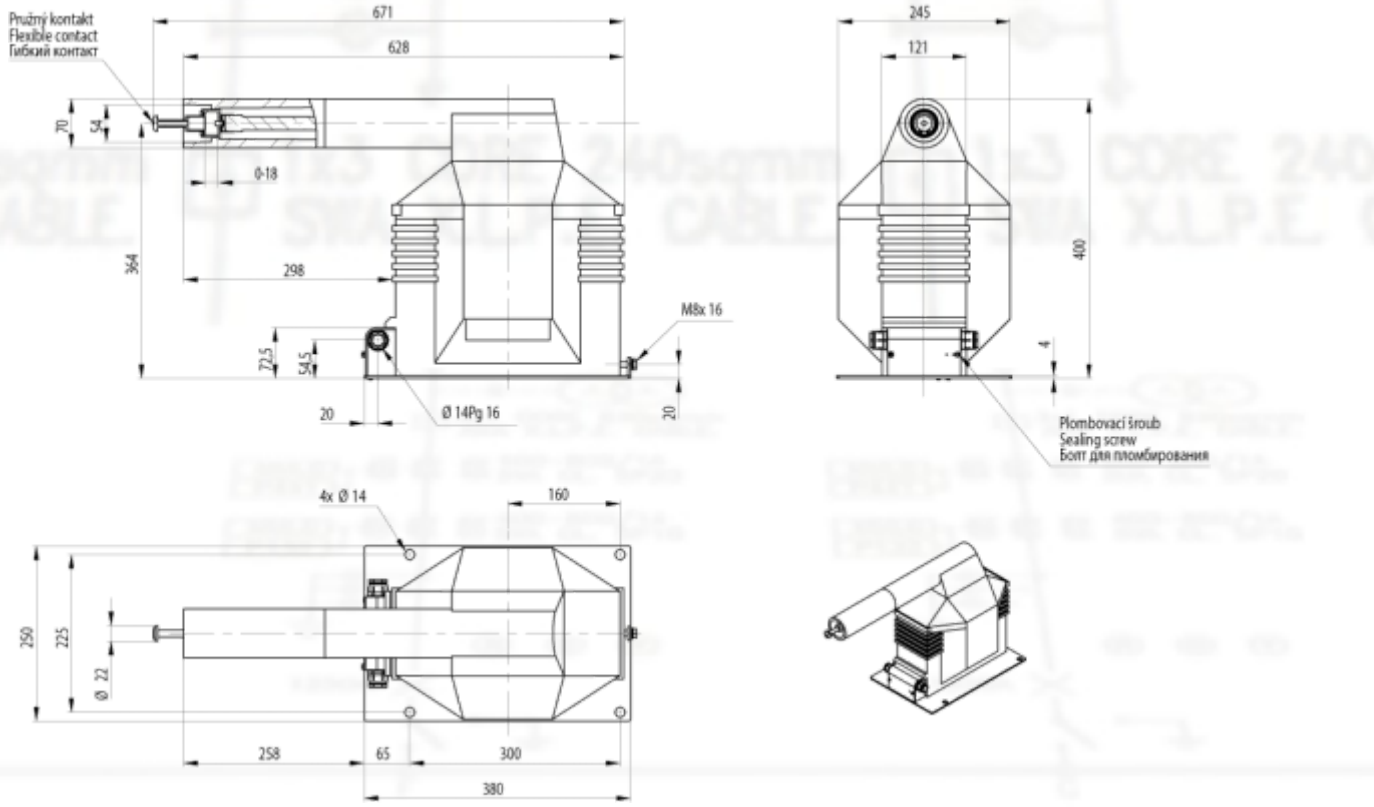
Voltage instrument transformers VTS 36P complied with all the tests according to IEC EN 61869-3.

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

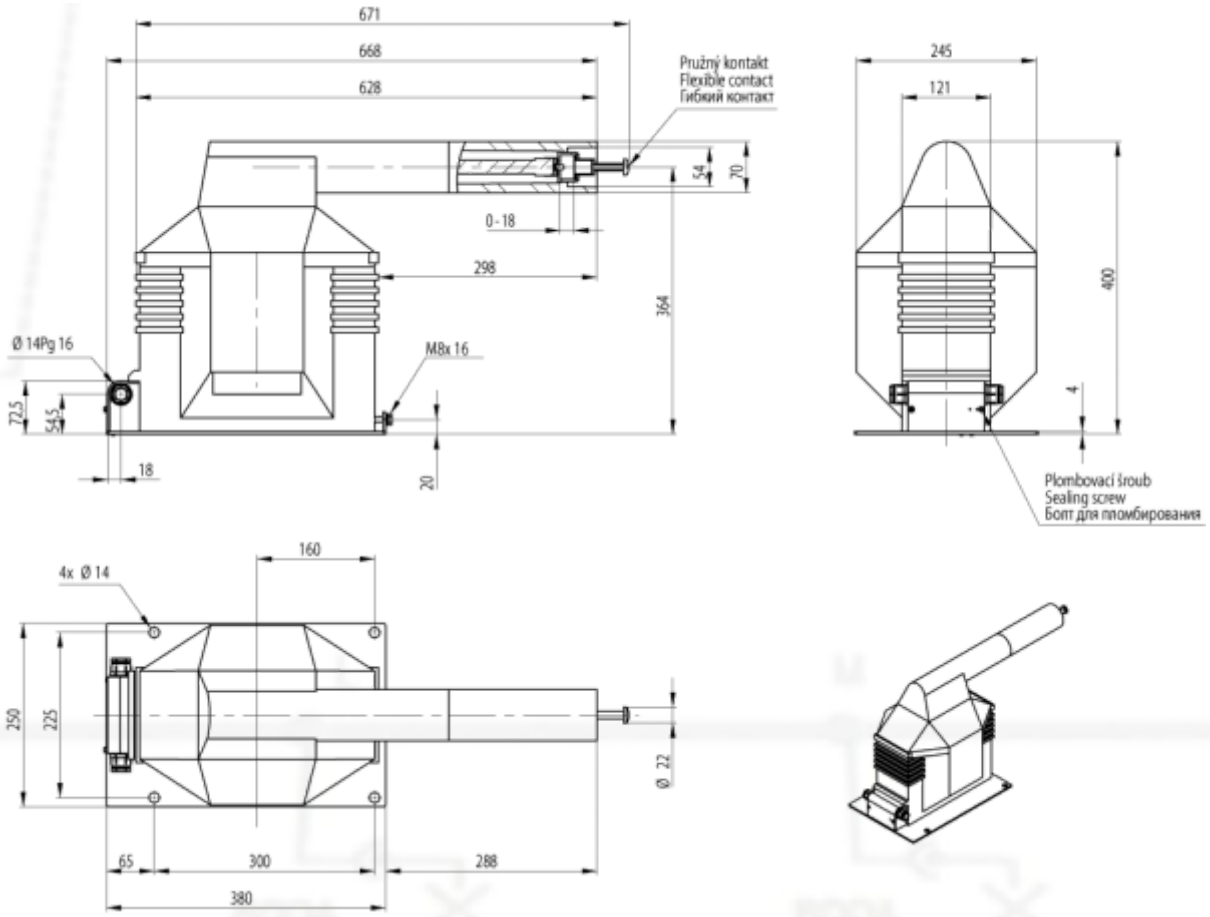
This transformer is not designed as a self-locking one. To protect the appliance from destruction due to non-standard effects such as overvoltage, ferroresonance, transients etc., the transformer must be equipped with suitable transformer protection.
For more information about non-standard effects and protection please visit our website www.kpbintra.cz under “support” section.

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

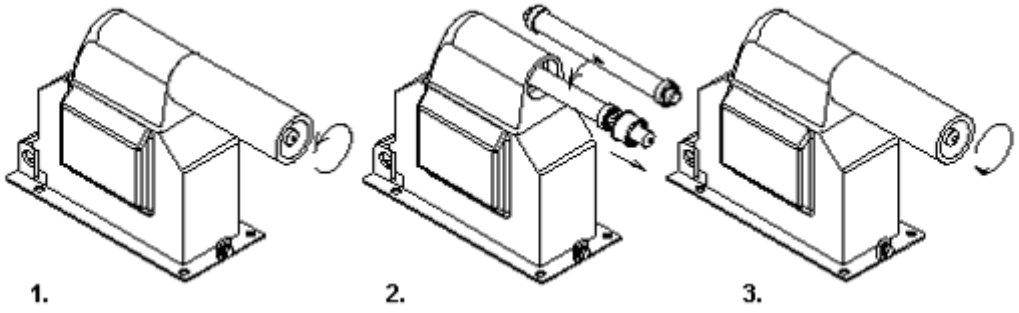
Technical drawings:



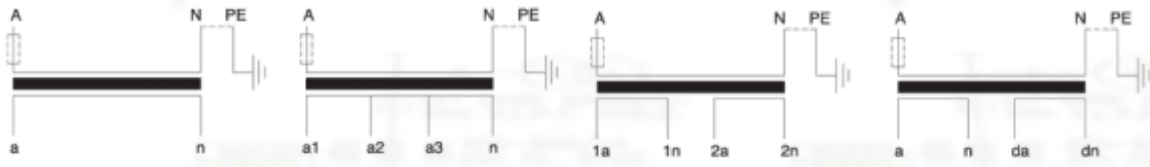
VTS 36P.11


671
668
628
Pružný kontakt
Flexible contact
Гибкий контакт
54
70
0 - 18
298
364
Ø 14Pg 16
M8x 16
72,5
54,5
18
20
245
121
400
4
Plombovací šroub
Sealing screw
Болт для пломбирования
160
4x Ø 14
250
225
Ø 22
65
300
288
380

VTS 36P.12


1.
2.
3.

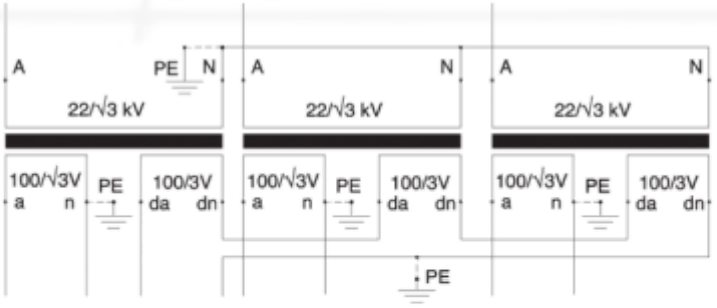
WIRING DIAGRAM



One end of primary winding is isolated from ground, the other is earthed during the operation. Before starting of the operation it is necessary to assure the earth connection of one of the secondary terminals of every outlet (See "The Instructions for the operation and mounting").

In case of connection of auxiliary winding in the open triangle terminal has to be earthed at only one instrument out of the triplet.

The diagram of connection of three single-poled transformers



ATTENTION! After every connection it is necessary to check if the secondary winding is not earthed by the means of one terminal at the terminal box of the instrument and by the means of the secondterminal in outlet in the low-voltage part. On the other case the instrument is connected in the shortcircuit and after the connection of high voltage there will be the destruction.

connection diagram

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