

### Voltage instrument supporting transformer VTD 12



Voltage instrument transformers VTD 12 are single-phase transformers isolated with double-poles. They are designed for the use in the high voltage systems. They are designed for measuring and protection of high voltage distributing equipment for indoor design. The instruments can be provided with high voltage protectors protecting the surrounding distributing system.

The values of secondary voltage are 100, 110, 120 V. The accuracy classes for measuring winding are 0.2, 0.5, 1, for the securing winding is 3P or 6P. The transformers satisfy

#### Technical specifications

Highest voltage for equipment:

12/17.5 kV

Power frequency test voltage:

28/38 kV

Lightning impulse test voltage:

75/95 kV

Nominal primary voltage:

3000 – 15000 V

Nominal secondary current:

100, 110, 120 V

Accuracy class - measurement:

0.2, 0.5, 1, 3

Accuracy class - protection:

3P, 6P

Nominal power:

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

Max power:

400 VA

Nominal frequency:

50 Hz

Weight:

22 kg

Thermal insulation class:

E

Operation conditions:

operating temperature from -5 to + 40 °C

corresponds to temperature class -5/40 according to IEC 61869-1

Standard:

required accuracy class at intervals from 25% to 100% of rated load.

Transformers VTD 12 with fuses are provided with epoxy extenders, holders and fuse enclosures of type SIBA (0.3 A or 0.6 A). Extenders with fuses can be dismantled.

Magnetic circuit of voltage transformers is made of oriented transformer strips in the shape of "C" of core.

All active parts of transformer are compound-insulated with epoxy-mixture. This material performs both the electrical insulating and the mechanical functions.

Transformers are fixed by the means of four screws M10 in the holes in the basic plate. The primary terminals of transformers are brought out by the means of nuts M10. 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 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 mounting and operation").

In cases where the substitution for the older types of transformers (various producers) is required, we supply transformers VTD 12 with modified basic plates that have identical mounting spacing to spacing of the substituted types.

Voltage instrument transformers VTD 12 complied with all the tests according to IEC 60044-2.

For the customer's request we provide official calibration.

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.

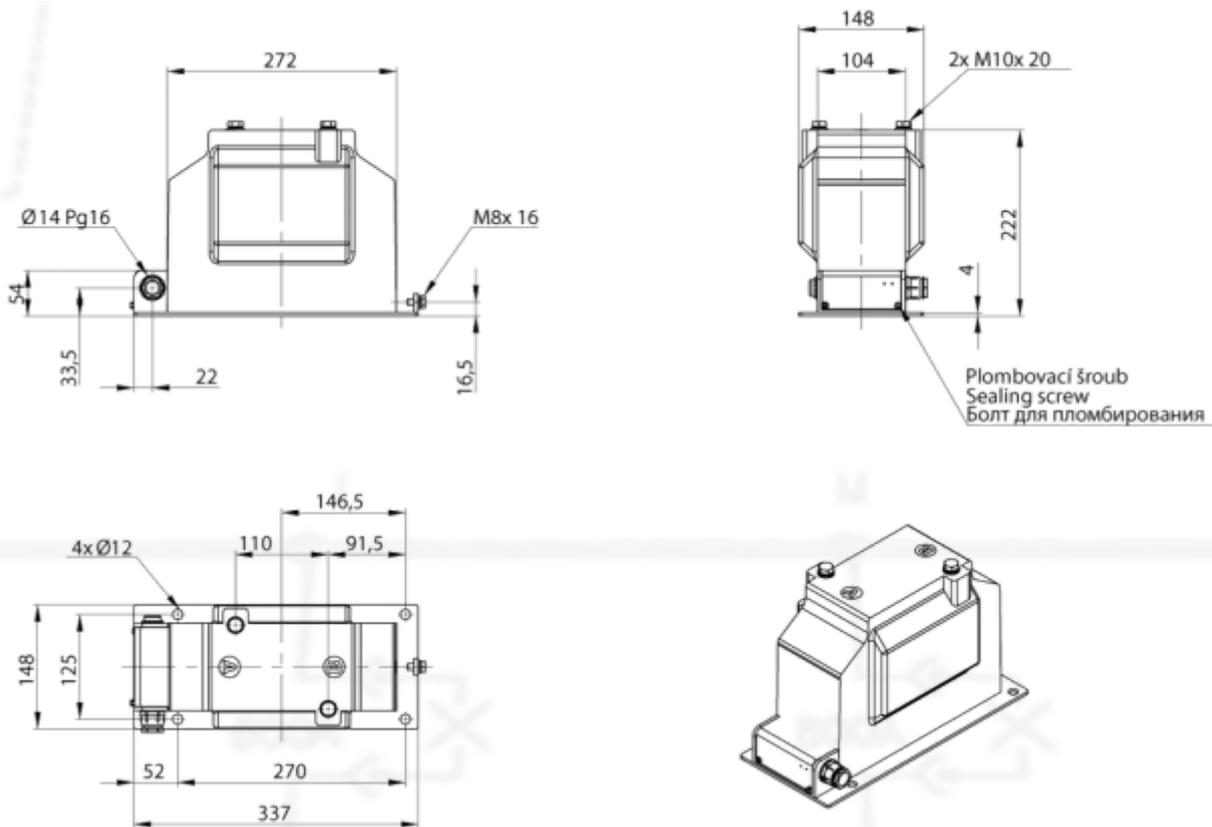
For more information about non-standard

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

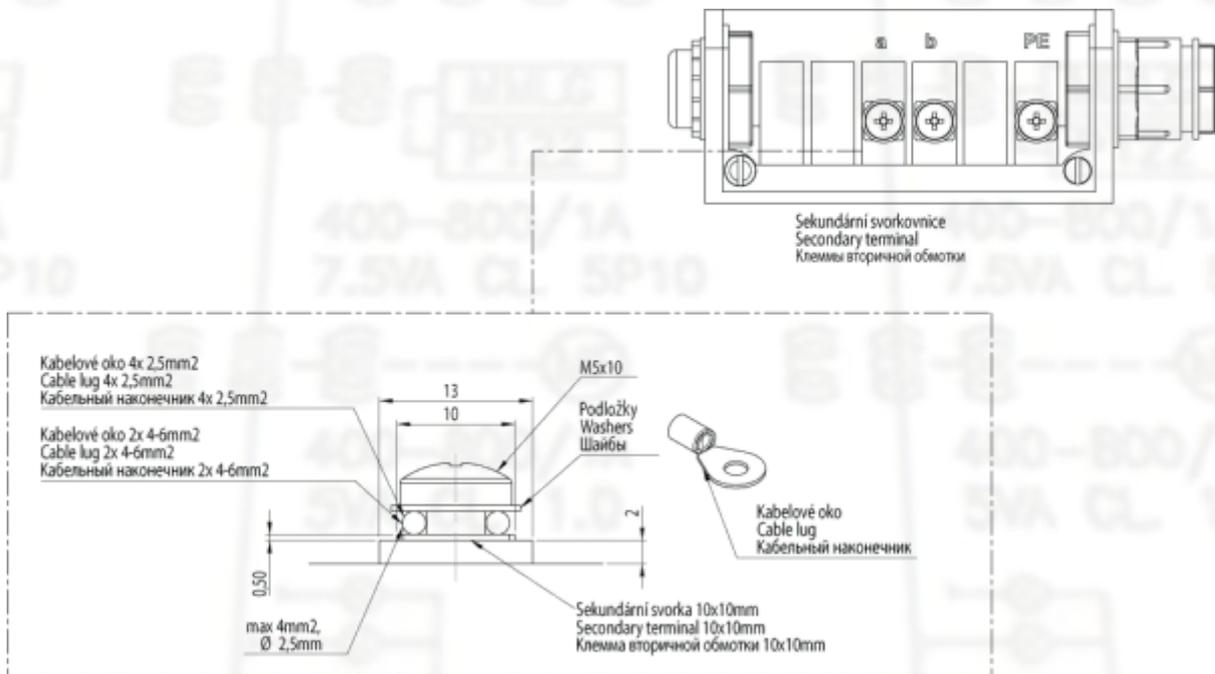


effects and protection please visit our website [www.kpbindra.cz](http://www.kpbindra.cz) under "support" section.

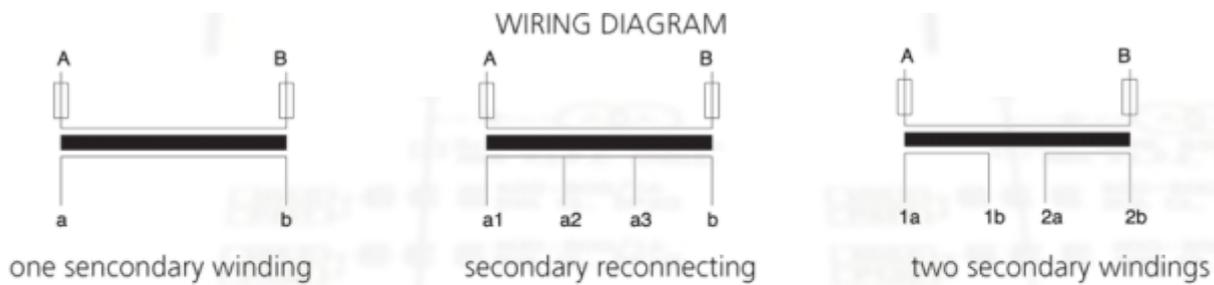
Technical drawings:



VTD 12



secondary terminal



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").  
 Attention! This is not applied for the circuit of the "V-type").

## connection diagram

KPB INTRA s.r.o.  
 Ždánská 477  
 68501 Bučovice  
 Czech Republic

CEO: (+420) 603 481 128  
 obchod: (+420) 604 237 033  
 sales: (+420) 734 221 264  
 support: (+420) 603 862 464

tel.: (+420) 517 380 388  
 obchdo@kpb intra.cz  
 sales@kpb intra.cz  
<http://www.kpb intra.cz>