

# VTS 12 INSTRUMENT VOLTAGE TRANSFORMER

## I. INTRODUCTION

Manufacturer: KPB INTRA s.r.o.  
Fučíkova 860  
685 01 Bučovice

Applicant: KPB INTRA s.r.o.  
Fučíkova 860  
685 01 Bučovice

Type Approval Official Identification: **TCM 212/98 – 2908**

## II. PROTOCOL REPORT

### 1. Instrument Description

The instrument voltage transformers of VTS 12 type are single-phase single-pole insulated transformers in the built-in arrangement. Its magnetic circuit is made from oriented straps of the “C” core shape. The active parts are embedded in the epoxy mixture. Mechanical construction and the wiring diagram of the terminals are displayed the attachment.

### 2. Basic Metrological and Technical Specifications

- Insulation Voltage: 12 kV
- Testing Voltage: 28 kV
- Testing Impulse Voltage: 75 kV
- Nominal Primary-Side Voltage:  $3/(3^{1/2})$  and  $11/(3^{1/2})$  kV
- Nominal Secondary-Side Voltage:  $100/(3^{1/2})$ ,  $110/(3^{1/2})$  and  $120/(3^{1/2})$  V
- Nominal auxiliary Winding Voltage: 100/3, 110/3 and 120/3 V
- Nominal Frequency: 50 Hz
- Nominal Output Power: 30, 50, 75, 100, and 150 VA
- Accuracy Rating: 0.2; 0.5; 1; 3P, and 6P
- Weight: 20 kg

### 3. Test

The transformer type test was realised on the five samples of the transformers (serial no. 1200002, 1200003, 1200004, 1200005, and 001614) in a test facility of the IVEP a.s. Brno (see IVEP Protocol Reports No. 80-12935, 82-0619, and 88-0158) according to the ČSN 35 1360 and IEC 186 standards.

The test proved the transformers comply with the above-mentioned standards.

The documentation and the protocol reports are stored in the Instrument Transformer Department of the ČMI LPM in Prague and in the KPB INTRA s.r.o. Bučovice Company.

*stamp*

#### **4. Data on the Instrument**

The transformers are fitted with non-removable plastic self-sticking label with following data:

- a) Identification of Manufacturer
- b) Serial Number, Type and Year of Production
- c) Nominal Primary/Secondary-Side Voltage
- d) Nominal Voltage of the Power Supply System, Test Alternating Voltage, and Test Impulse Voltage
- e) Accuracy Rating
- f) Nominal Load
- g) Limit Load
- h) Nominal Frequency
- i) Insulation Class
- j) Type Approval Official Identification

#### **5. Certification**

The certification is realised according to Instruction No. I-2120. The transformers complying with the certification are fitted with the certification mark at the right upper edge of the label.

#### **6. Certification Validity**

The certification validity is subject of the ÚNMZ Decree on the specified instruments.

#### **7. Instrument Samples**

The instrument samples are stored in the KPB INTRA s.r.o. Bučovice Company.

### **III. CONCLUSION**

Elaborated by:      Ing. Renata Styblíková      *signature*  
                                 ČMI LPM Praha  
                                 V Botanice 4  
                                 150 72 Praha 5 – Smíchov

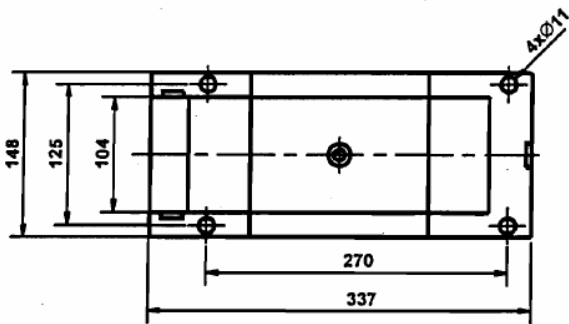
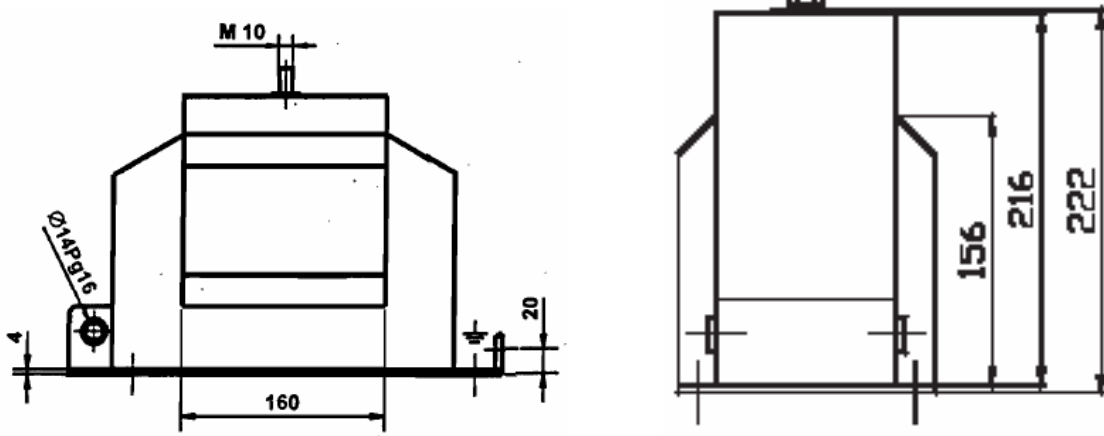
Number of pages: 2 + 1 page of attachment

Prague, on the 22<sup>nd</sup> of January 1999

*stamp*

# ATTACHMENT 1

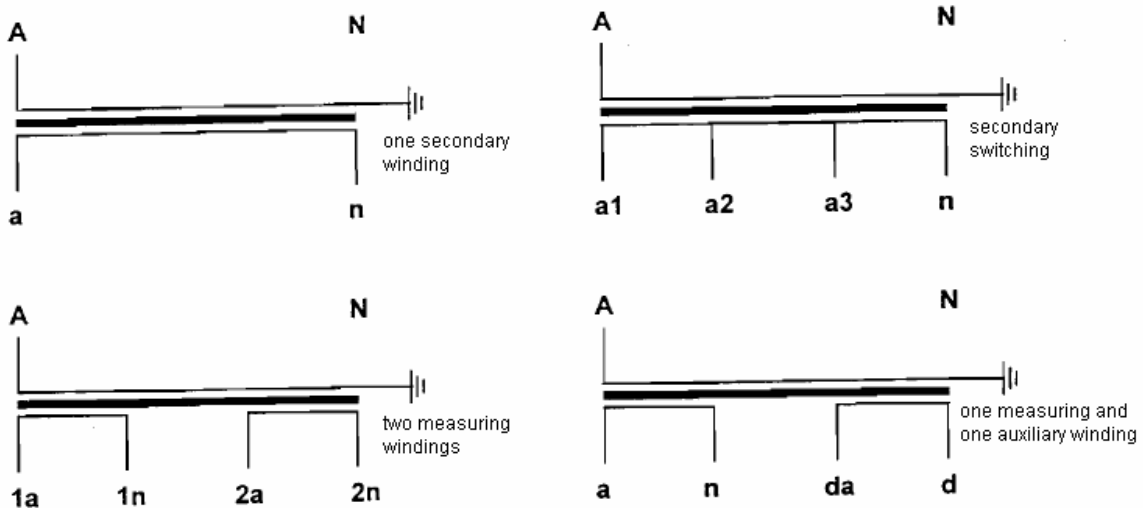
## VTS 12 INSTRUMENT VOLTAGE TRANSFORMER



Insulation Voltage	12 kV
Testing Voltage	28 kV
Testing Impulse Voltage	75 kV
Nominal Primary-Side Voltage	3/(3 <sup>1/2</sup> ) and 11/(3 <sup>1/2</sup> ) kV
Nominal Secondary-Side Voltage:	100/(3 <sup>1/2</sup> ), 110/(3 <sup>1/2</sup> ) and 120/(3 <sup>1/2</sup> ) V
Nominal auxiliary Winding Voltage:	100/3, 110/3 and 120/3 V
Nominal Frequency	50 Hz
Nominal Output Power	30, 50, 75, 100, and 150 VA
Accuracy Rating	0.2; 0.5; 1; 3P, and 6P
Weight	20 kg

### KPB Intra Instrument Transformers

#### WIRING DIAGRAM



One end of the primary winding is insulated from ground, and the second one is grounded during operation. One secondary terminal of each output must be grounded before putting into operation.

stamp