

Department of consumer and corporate affairs / Ministère de la consommation et des corporations

STANDARDS BRANCH -DIRECTION DES NORMES



NOTICE OF APPROVAL

OTTAWA September 6, 1972

BROWN-BOVERI TYPE "TMBRP 770 D10" CURRENT TRANSFORMERS

Primary Current Secondary Current

Accuracy Rating at 60 Hz

2000 amperes 5-5-5-5 amperes

0.3B0.1, B0.2, B0.5, B0.9, B1.0, B1.8,

B2.0*

Frequency R.F. (rating factor) Number of Secondaries Identification of Secondaries

Metering Secondary* Nominal Voltage Class BIL (basic impulse level) 1.25

nAn nAn nXu nAn nXn"V" (5th core)

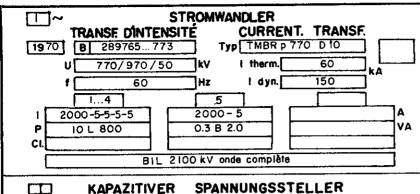
735 kv 2100 kv

60 Hz

The 0.3B2.0 accuracy rating applies to the "V" secondary only, and this is the only winding approved for revenue metering.

Description of Type Designation

- Transformer
- M Measuring
- B Rubber membrane type
- R Ring winding
- p core index (type and size of core)
- 770 Highest system voltage in kv
- D10 Capacitive tapping (see description)



SPANNUNGSSTELLER KAPAZITIVER

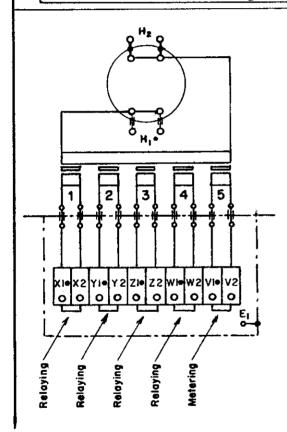
DIVISEUR DE TENSION DE CAPACITIF CAPACITIVE VOLTAGE DIVIDER 735000/√3 [1970] B 289765 A ...773 A υı

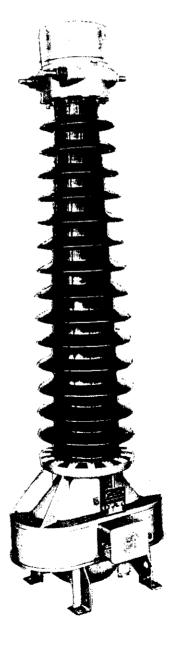
mit B 289792...797 ca 25000/ √3 avac with

Therm Nennprimär - Dauerstrom
 Continuous thermol primary current rating
 Courant primaire maximal en régime continu

2500 Amp.

Prüfspannung gegen Erde
Test voltage against station ground
Tension d'essai contre terre





DESCRIPTION

The main current transformer consists of a terminal cap, the insulator, the active part and the tank.

On the transformer cap or head are the primary high voltage terminals. Two are marked "Hl" to designate polarity and the entrance of the current to the transformer and the other two are marked "H2" to designate the return of the current to the line and are not insulated from the head.

An expansion bellows inside the cap seals the oil filling the transformers and takes care of expansion. Attached to the top of the bellows is a pointer which indicates the oil level through a gauge glass.

The insulator is made of brown glazed ceramic material clamped to the tank with a gasket between to assure an oil-tight joint.

The active part is composed of a primary and secondary windings, the latter wound around an iron core. The primary is a concentrated ring-shaped winding in which the five iron cores pass to form a cross.

Secondary windings are wound around each core, and the ends of the windings are brought through bushings to terminals in a terminal block. The terminals associated with each of the five secondary windings are identified as VI, V2; WI, W2; XI, X2; YI, Y2 and ZI, Z2.

In all cases, the terminal with the suffix "l" has the same polarity as the primary terminal "Hl".

The tank houses the primary ring winding part and the annular core and coil assemblies.

Transformers with "D10" in the type designation are provided with a capacitor tapping and coupling unit for supplying a capacitor voltage transformer.

Information as to the output voltage from the capacitor tapping may appear on the nameplate and the schematic for the capacitor voltage transformer may appear in the literature.

It should be noted that this approval notice does not cover the capacitor voltage tapping or the capacitor voltage transformer, consequently, transformers of identical type and rating to that covered by this Notice but without "DlO" in the type designation may be considered to be covered. The schematic on page 2 of this notice shows the five secondary windings and their corresponding terminals.

Only the "V" winding is approved for metering, and the other four windings because they are also on separate cores must be short-circuited if they are not used.

Approval granted to:

Brown-Boveri (Canada) Ltd., Pointe Clarie 730, Duebec.

W. J. J. France

(for) J.S.T. Swanson, P. Eng., Chief, Standards Laborarory, Standards Branch.

W.J.S. Fraser, Chief, Electricity and Gas Division, Standards Branch.

Ref: SL-100-913

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