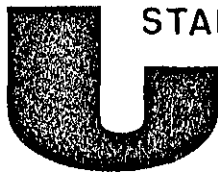




Department of consumer and corporate affairs / Ministère de la consommation et des corporations



STANDARDS BRANCH - DIRECTION DES NORMES

## NOTICE OF APPROVAL

T-71

OTTAWA December 13, 1971.

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### ASEA TYPE "IMBF765 A5" CURRENT TRANSFORMERS

Primary Current	2000 amperes
Secondary Current	5-5-5-5-5 amperes
Accuracy Rating at 60Hz	0.3B0.1, B0.2, B0.5, B0.9, B1.0, B1.8, B2.0
Number of Secondaries	5
Frequency	60Hz
R.F. (rating factor)	1.25
Designation of Secondaries	"V"②, "W", "X", "Y", "Z"
Nominal Voltage Class	765 kv
BIL (basic impulse insulation level)	2100 kv
Style	Post type, oil insulated, outdoor

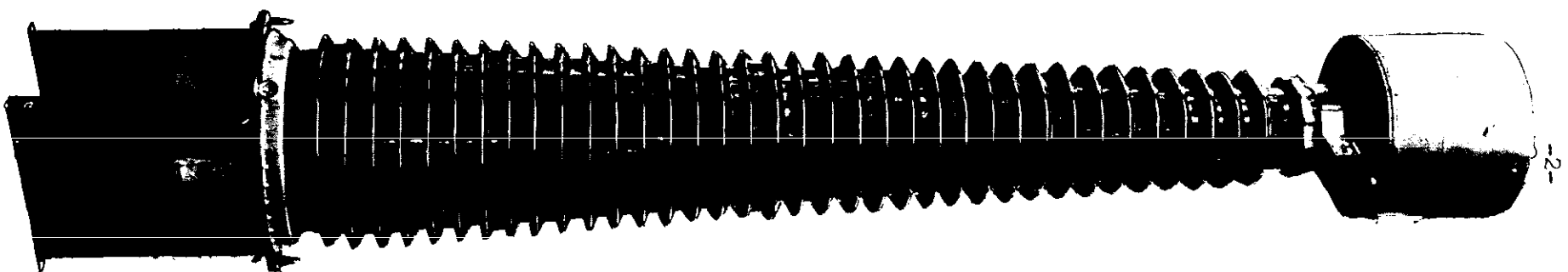
- (1) The "5" in the type designation refers to the number of cores, i.e. the number of secondaries.
- (2) The accuracy rating of 0.3B2.0 is marked on the nameplate and applies only to the "V" winding. Windings "W", "X", "Y" and "Z" are not approved for revenue metering.

#### Description

The type IMBF765 A5 current transformers are made up of a lower casing, a porcelain insulator and a protected expansion tank at the top of the insulator.

The primary winding is in the form of a long single section hairpin extending from the terminals at the top, through the interior of the porcelain insulator into the base where the cores and secondary windings are located.

The primary winding is insulated with oil-impregnated paper.



IMBF 765 A5

The secondary windings are toroidally wound on iron cores made from strip coiled in the form of rings, which, together with their windings are slipped over the legs of the primary.

In order to keep the requisite quantity of oil to a minimum, the transformer casing conforms approximately to the shape of the primary and secondary windings.

After assembly, the transformers are filled with clean dry sand up to the level of the expansion chamber and are then treated in a vacuum and while still under vacuum are filled with air-free oil and the expansion space is filled with nitrogen.

The ends of the 5 secondary windings are brought to terminals in a terminal box at the side of the base where they are identified as V1, V2, W1, W2, X1, X2, Y1, Y2, Z1 and Z2.

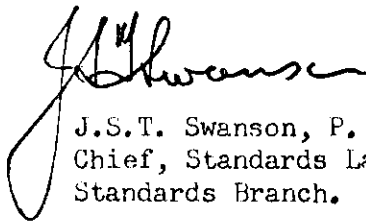
The secondary terminals with the suffix "1" have the same polarity as the primary terminal "H1".

Although these transformers have 5 secondary windings, only one, the "V" winding, is approved for billing purposes and this winding is the only one that has the required and approved accuracy rating marked on the nameplate.

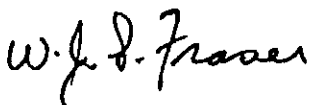
The other 4 windings are intended for relaying purposes and the nameplates are marked for this purpose.

Approved granted to:

ASEA Limited,  
Malton, Ontario.



J.S.T. Swanson, P. Eng.,  
Chief, Standards Laboratory,  
Standards Branch.



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

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1145-57/C4-T20