



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



STANDARDS BRANCH - DIRECTION DES NORMES

NOTICE OF APPROVAL

T-40-1

OTTAWA September 19, 1969

BALTEAU TYPE "SEX 138" CURRENT TRANSFORMERS

Apparatus

Primary Currents	200x400x600 ⁽¹⁾ , 100x200x400, 150x300x600 amperes
Secondary Current	5 amperes each secondary ⁽²⁾
Accuracy Rating at 60 hz	0.3B0.1, B0.2, B0.5, B0.9, B1.0, B(2x0.9), B2.0 ⁽³⁾
Rated Insulation Class	138 kv
Frequency	60 hz
R. F. (rating factor)	1.5
Wire	2
Secondaries	1 or 2 independent
Style	Post type, outdoor, oil filled

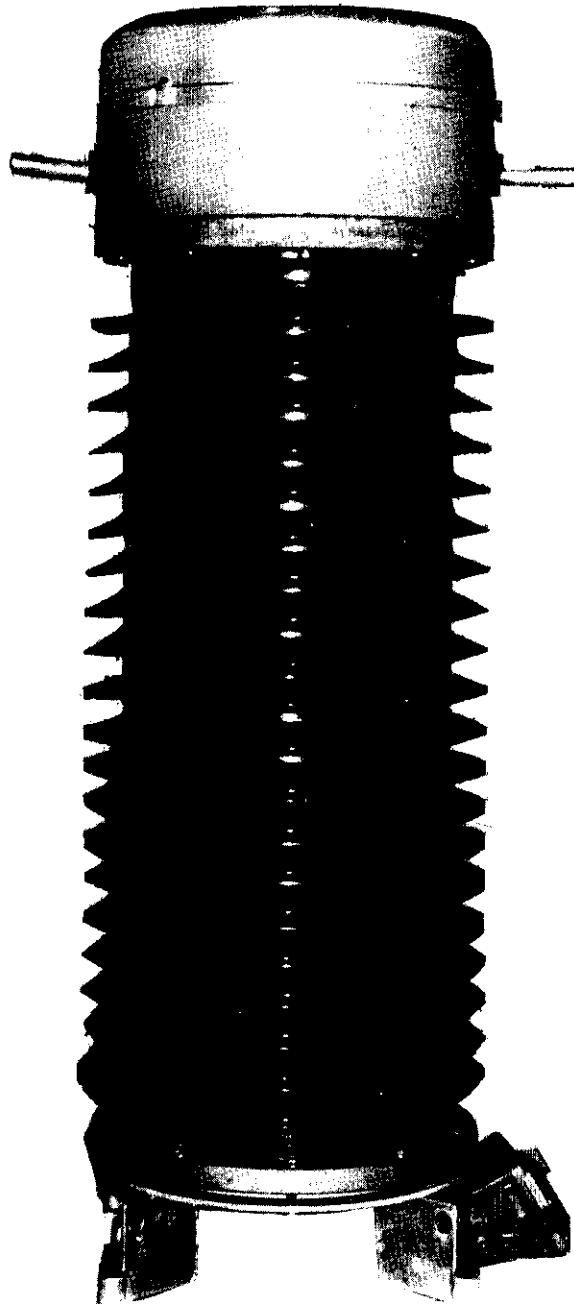
- (1) Each grouping of primary currents, e.g., 200x400x600 indicates that ratios of 200-5, 400-5 and 600-5 may be obtained by reconnection of the primary winding by means of links as illustrated on the back of this circular.
- (2) Each secondary is independent but each will have the same ratio depending on the primary connections.
- (3) 0.3B2.0 marked on the nameplate. This accuracy rating applies to each secondary.

Description

This is a reissue of T-40 to include additional ratios.

The type "SEX 138" current transformers are post type hermetically sealed, oil insulated for use on 138 kv line to ground circuits.

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A diaphragm on the top of the transformer takes care of changes in oil volume due to changes in temperature while maintaining the hermetic seal. An indicator is attached to the top of the transformer to indicate the position of the diaphragm.

The primary winding is in three sections which are connected by bars at the top of the transformer inside the hood according to an adjacent diagram to obtain the various ratios.

The primary connections are bars marked "H1" and "H2" extending diametrically through insulating bushings at the top of the transformer.

The body of the transformer is a ribbed porcelain bushing with a long leakage path.

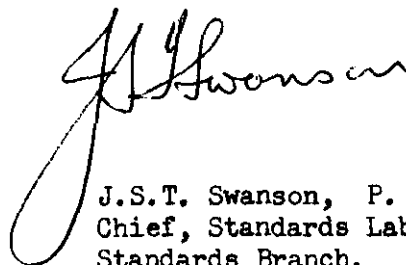
The magnetic circuits are in the form of cold-rolled grain-oriented steel (Hypersil) or nickel alloy (Mumetal) rings. The secondary windings are wound on these cores and the assembly is enclosed in a toroidal shell of light alloy.

The entire core and coil assembly is moulded in Epoxy resin to provide a single compact block.

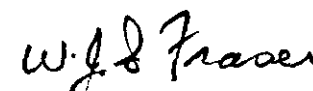
A transformer may be supplied with one or two identical untapped secondary windings the ends of which are brought out to a terminal block at the base of the transformer to terminals marked "X1", "X2; or "X1", X2, Y1, Y2" if there are two secondaries.

As each secondary is wound on a separate core, if only one is used, the other should be short-circuited.

Approval granted to:


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Ref: SL-100-81
SE-85-33

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