

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

STANDARDS BRANCH - DIRECTION DES NORMES

NOTICE OF APPROVAL

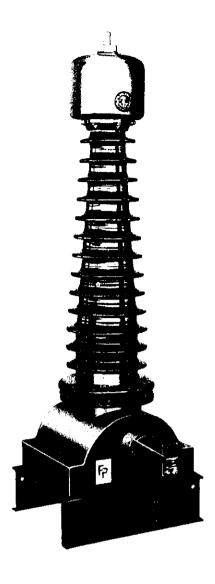
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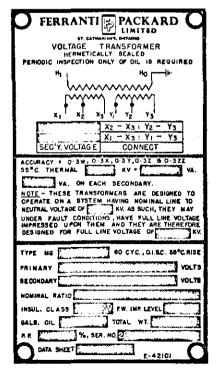
OTTAWA March 28, 1972

FERRANTI-PACKARD TYPES "MG-115" and "MG-138" VOLTAGE TRANSFORMERS

Type	System Voltage	Primary Voltage	Secondary Volts	Ratio
MG-138 MG-138 Number Accurac Frequer Seconda Singl	ary Terminals Le Ratio	2, tapped or 0.3WXYZ,ZZ*, 60 Hz X1-X2, Y1-Y2	69-69 115/67.08-115/67.08 untapped 0.3Z-0.3Z	
	Ratio of Dual Ratio Ratio of Dual Rat Class	-		
MG-13 MG-13	L5 38	115 kv 138 kv		
MG-13 MG-13 Style		550 kv 650 kv	il insulated, outdoo	
pryre		rose type, o	ii insaracea, ontdoo	,T

* The nameplates are marked 0.3WXYZ,ZZ.
The accuracy rating is 0.3WXYZ,ZZ on either the full winding or the tap and applies to the secondary winding when the tertiary winding is not loaded, to the tertiary winding when the secondary winding is not loaded, and to both windings when the designated burden is divided in any proportion between them; and 0.3Z-0.3Z on either the full winding or the tap applies to the secondary winding when the tertiary winding is loaded with Z burden or vice versa.





Types MG-115 and MG-138

May also be supplied with rectagular tank

DESCRIPTION

The types MC115 and MG138 voltage transformers are designed for use in outdoor substations in billing metering and relaying applications.

The core is constructed from grain-oriented steel and the windings are insulated with oil-impregnated paper.

The primary winding consists of a multi-layer coil with graded insulation with the outer layer connected to a split static shield.

The core and coil assembly is dried under vacuum and installed in a heavy gauge form-fitting or rectangular oilfilled tank.

One primary lead is taken out through a 5kv bushing and grounded to the tank wall externally. The other primary lead extends upwards into a porcelain housing which serves as a high voltage bushing.

The bushings are the same size on both the types MG115 and MG138, the difference between the two types is the amount of internal coil insulation.

An aludined aluminum dome is bolted to the top of the porcelain bushing. This accommodates the primary terminal and provides a chamber for oil expansion.

The secondary leads are crimped to stude sealed in a glastic! plate; they are provided with solderless connectors and are mounted inside a terminal box near the bottom of the tank.

The primary terminal at the top of the dome is identified as "HI" and the secondary terminals are identified as "X1", "X2", "Y1", "Y2" or "X1", "X2", "X3", "Y1", "Y2", "Y3" according to the secondaries being untapped or tapped.

In all cases the secondary terminal of the pair with the lower suffix has the same polarity as the primary terminal "Hl".

A schematic diagram on the nameplate further identifies the terminals.

Approval granted to:

(for M.S.T. Swanson, P. Eng.,

Chief, Standards Laboratory,

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Chief. Electricity and Gas Division

Standards Branch

w.f. S. Frasen