Consumer and Corporate Affairs | Consommation et corporations

Standards | Normes

NOTICE OF APPROVAL
AVIS D'APPROBATION

T-100

Ottawa, March 8, 1976

ELECTROMAGNETIC INDUSTRIES TYPES PO4-110, PO4-150, PO4-150 (DUAL VOLTAGE PRIMARY) AND PO4-200, MOULDED, OUTDOOR TYPE VOLTAGE TRANSFORMERS

Apparatus

Primary Voltages	
PO4-110	7200, 8400 Volts
PO4-150	12,000, 14,400 Volts
PO4-150 (dual voltage primary)	7200/14,400 and 8400/14,400 Volts
PO4-200	20,125 Volts
Secondary Voltages	
PO4-110	120 Volts
PO4-150	120 Volts (single winding - no taps) 120 Volts (full winding) 72 Volts (tapped winding)
PO4-150 (dual voltage primary)	120 Volts
PO4-200	115 Volts (single winding - no taps) 115 Volts (full winding) 67 Volts (tapped winding)
Accuracy Rating	
PO4-110	0.3X; 0.6Y; also 0.3Y
PO4-150	0.3X; 0.6Y (single winding - no taps) 0.3Y (single winding - no taps) 0.3X/0.3X (tapped winding)
PO4-150 (dual voltage primary)	0.3X (lowest primary volts) 0.3Y (highest primary volts)
Voltage Class	BIL incorporated in type designation
Frequency	60 Hz
Style	Dry, outdoor

Description

These transformers are designed for outdoor service and have a single primary winding and a single or tapped secondary winding.

The core and coils, after assembly and drying, are encapsulated in a cycloaliphatic epoxy resin. The core of grain-oriented silicon steel and its windings, which are wound on a cylindrical insulating form, are separated from the epoxy by a special resilient layer to safeguard against damage from stresses which could occur because of the different coefficients of expansion of the core steel, copper and epoxy.

These transformers are for line-to-ground application only, with the primary terminals identified by permanent molded letters and with a white dot to identify the H1 terminal located at the top of the transformer. A ground connector is provided at the base.

The secondary terminals are located at the bottom of the transformer in a conduit box fitted with a weatherproof and sealable cover. They are identified by permanently molded letters and with a white polarity mark adjacent to the X1 terminal.

Type PO4-150 (dual voltage primary) is designed specifically for the utility that is planning to up-rate a 15Kv system to 25Kv. The transformer can be energized initially at 15Kv, and for the change-over to 25Kv it is only necessary to change one secondary connection.

Approval granted to:

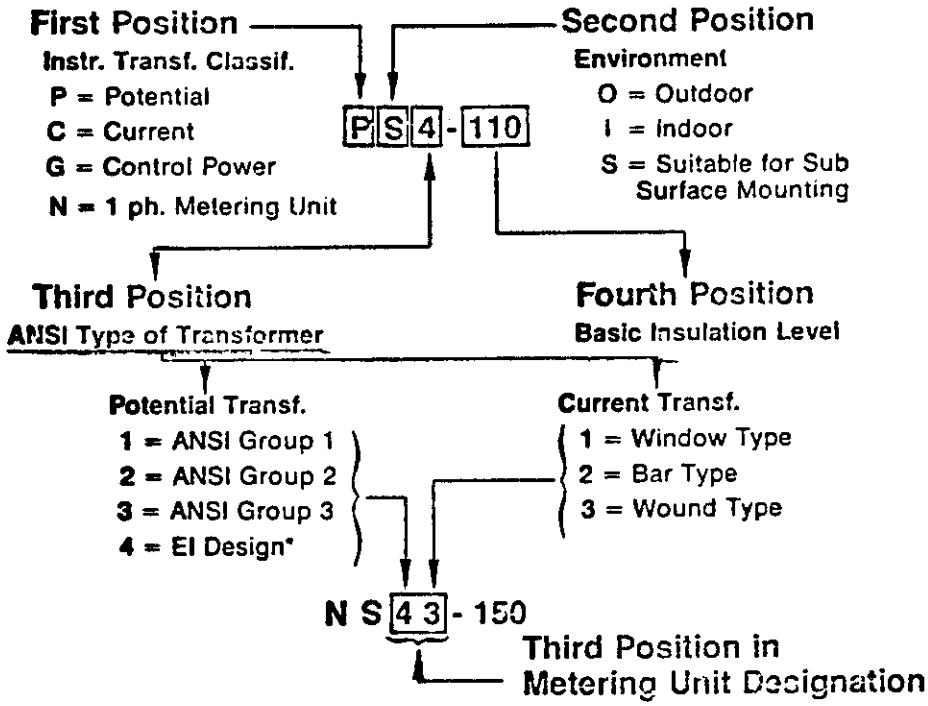
Electromagnetic Industries Inc.,
Clearwater, Florida, U.S.A.

J.L. Armstrong,
Chief, Standards Laboratory,
Metrology and

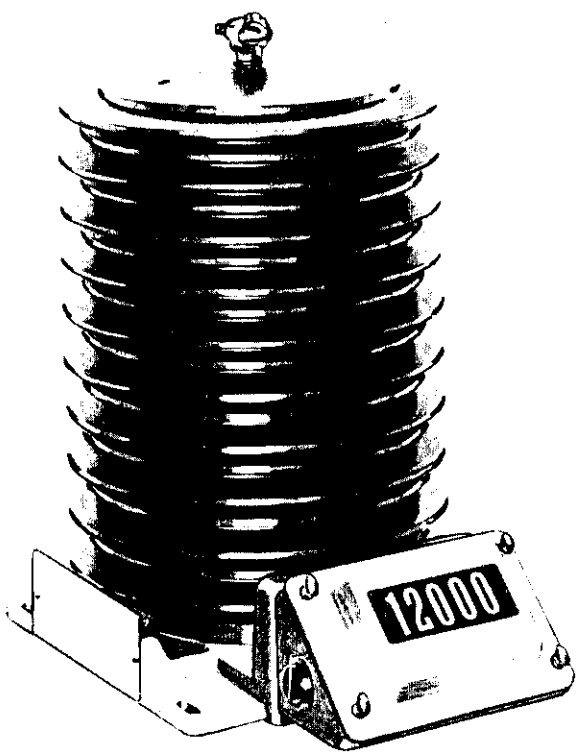
D.L. Smith,
Chief, Electricity and Gas Division,
Laboratory Services.

Ref: GL 1145-57/E80-155

EXPLANATION OF THE TYPE DESIGNATIONS

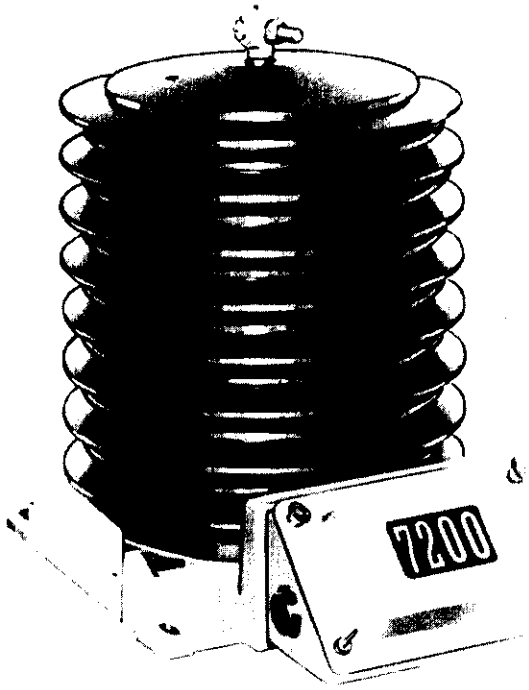


Prefix - A letter appearing before the above type designations identifies another "family" of similar products: e.g. BCO1-110 is similar to the series CO1-110.

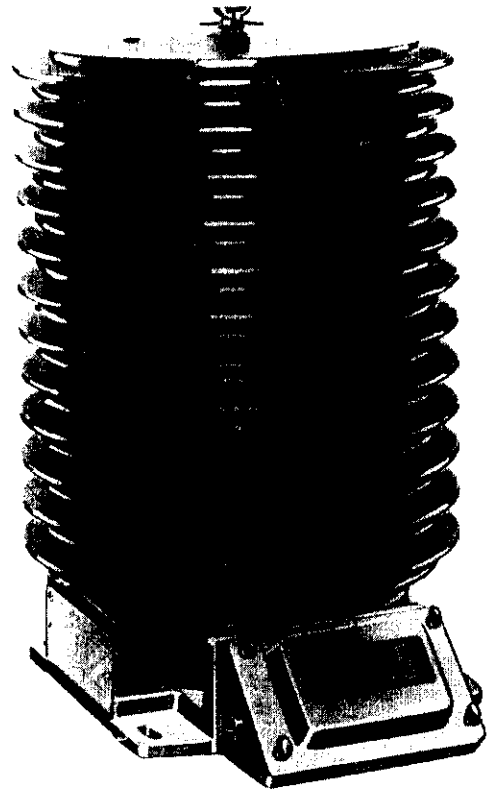


PO4-150

PO4-150 (Dual Voltage Primary)



PO4-110



PO4-200