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

STANDARDS BRANCH - DIRECTION DES NORMES

NOTICE OF APPROVAL
AVIS D'APPROBATION

T-101

OTTAWA February 19, 1976

ELECTROMAGNETIC INDUSTRIES SUB-SURFACE POTENTIAL TRANSFORMERS
TYPES PS4-95 and PS4-125

Apparatus

Primary Voltages	
PS4-95	7200, 8400 Volts
PS4-125	12,000, 14,400 Volts
Secondary Voltages	
PS4-95, PS4-125	120 Volts
Accuracy Rating	
PS4-95, PS4-125	0.3X; 0.6Y
Voltage	BIL incorporated in type designation
Frequency	60 Hz
Style	Dry type-molded

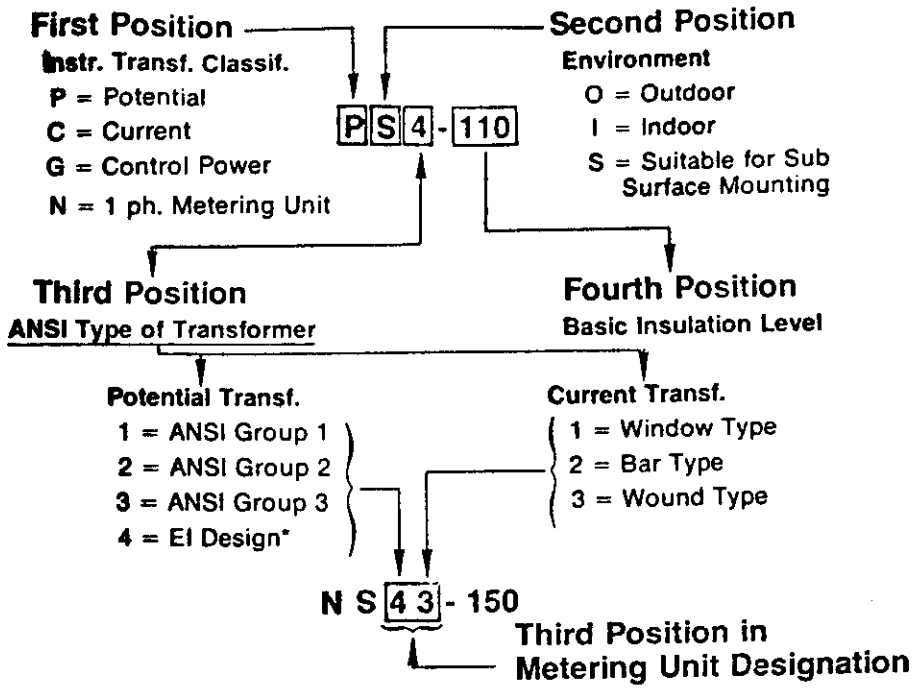
Description

These transformers have been developed for underground distribution service.

Primary connections are by means of the elbow type terminator which has become popular in underground distribution. These transformers may be installed in vaults below grade in places where they may be submerged at times. The "S" series have a ground shield around the outside just inside the resin surface. This shield provides the proper voltage stress control and makes the unit completely safe to workmen.

The screen, mounting inserts and screws holding the secondary box are all bonded to the two ground bosses.

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.

The primary (H1) terminal is a "flower pot" which will accept the standard inserts for elbow terminators. The purchaser must supply the insert and terminator. The H2 terminal is connected to both ground bosses in the end of the transformer and is also bonded to the ground screen and the threaded mounting inserts.

Secondary leads are flexible, PVC-insulated copper cable arranged to prevent moisture entering the transformer by capillary action. They are brought out through a neoprene grommet at the surface of the resin to prevent damage to the insulation at that point due to flexing. The leads are housed in a molded polyester box of sturdy construction with neoprene gasket and cover. The box is fitted with two (2)-1" IPS threaded openings for horizontal conduit take-off and one knock-out in the bottom for 1" IPS conduit. The flange for the cover is at 45 degree angle to the horizontal which gives maximum accessibility for wiring and connecting.

The core, windings and insulation system are similar in design to types PO4-110, PO4-150 and PO4-200 moulded outdoor potential transformers covered by Approval T-100.

Approval granted to:

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

J.L. Armstrong,
Chief, Standards Laboratory,

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