

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

STANDARDS BRANCH - DIRECTION DES NORMES

NOTICE OF APPROVAL

T-46-1

OTTAWA July 16, 1970.

PIONEER TYPES "MITB-3L-5", "MITB-3L-15" "MITB-3H-5" and "MITB-3H-15" CURRENT TRANSFORMERS

Primary Currents

100,125,150,200,250,300,400,500,600,800,1000,

1200,1500,1600,2000,2400,2500,3000,3200,4000,

5000,6000,7000,8000,10000 and 12000 amperes

Secondary Current

5 amperes

Accuracy Rating at 60hz

Single Units with Single and Multiple Ratios

100 amperes 0.6B0.1,B0.2* 150 amperes 0.3B0.1,B0.2*;0.6B0.5*

200 amperes 0.3B0.1,B0.2*; 0.6B0.5,B0.9*

300 amperes 0.3B0.1,B0.2,B0.5,B0.9*; 0.6B1.0,B1.8,B2.0* 0.3B0.1,B0.2,B0.5,B0.9,B1.0,B1.8*; 0.6B2.0*

500 to 12000 amperes 0.3B0.1,B0.2,B0.5,B0.9,B1.0,B1.8,B2.0*

Double Units moulded as one @

The accuracy rating of each ratio in a double unit will be as given above for the corresponding single ratio.

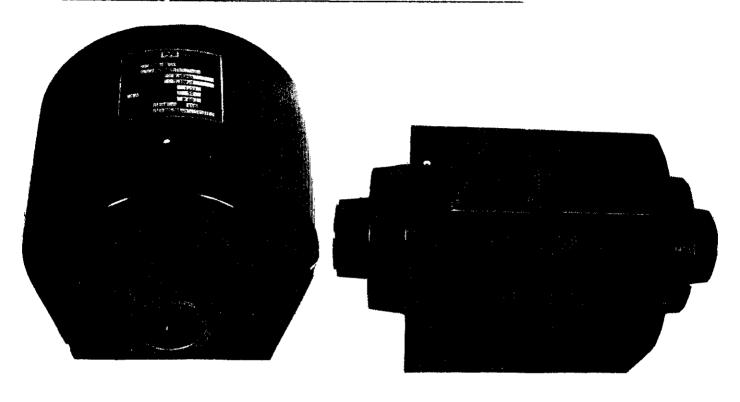
Insulation Class 5kv and 15kv 3

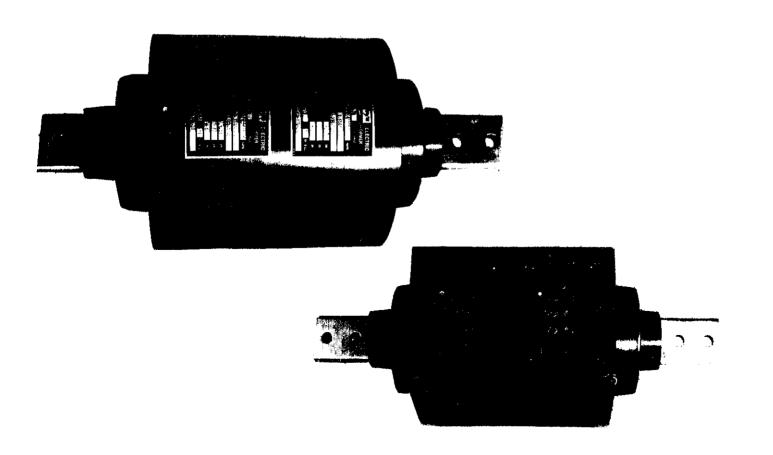
Frequency 60hz
R.F. (rating factor) 1.33
Thermal Rating Factor 1.33
Wire 2

Transformers in Assembly 1 or 2 independent Style Moulded, indoor

- * Accuracy rating marked on the nameplate (s)
- (1) Single units will be either single or multiple ratio. The secondary winding in the latter case will have taps to produce any combination of the primary currents listed. The maximum number of ratios will be six (6) and in all cases the "Xl" terminal will be the common terminal and will have the same polarity as the primary terminal "H1".

PIONEER TYPE 'MITB-3L" AND "MITB-3H" CURRENT TRANSFORMERS





(2) Two separate single or multiple ratio transformers may be moulded into a single unit. Each transformer may have any combination of the ratios listed, up to 6 per transformer provided the overall ratio of the higher does not exceed 4/3 times that of the lower, e.g., 3200-5 one transformer, 2400-5 the other.

When a unit contains two transformers of the same overall ratio, the thermal rating applies to both. If they do not have the same overall ratio, the thermal rating applies only to the one with the lower overall ratio.

(3) These transformers are built with either of two insulation classes, 5kv and 15kv. They are also built with either of two ring type core sizes, a large core with a small inside diameter designated as "L" for low ratios and another core with a large inside diameter to accommodate a large primary bus and designated as "H". The large core will be used on transformers rated up to and including 600 amperes.

Both the insulation class and the core size will be incorporated in the type designation as MITB-3L-5, MITB-3H-5, MITB-3L-15 and MITB-3H-15.

Description

These transformers are through type with the secondary winding completely insulated and permanently assembled on a ring type core.

They are available with bar or tube type primaries, the latter having the tube ending almost flush with the end of the transformer and having provision for attaching lugs or bus bars.

The entire transformer is encapsulated in epoxy resin and has mouldedin inserts in a flat area at the bottom of the transformer for connection to the secondary winding.

Within the one moulding there may be one or two completely independent transformers having only the primary conductor in common so that if only one is used, the other should be short-circuited, preferably over the whole winding.

The secondary terminals of a double unit will be identified as "X-" and "Y-".

In the case of multiple ratio single units, the nameplate will be marked to indicate the secondary terminals to be used to obtain the desired ratio and sufficient information to give the complete accuracy rating of each marked ratio.

Double units will also have separate nameplates for each transformer indicating the secondary terminals to be used to obtain the desired ratio and sufficient information to give the complete accuracy rating of each marked ratio.

Polarity marks are placed adjacent to the secondary terminals "X1" and "Y1" and the corresponding primary terminal.

This is a reissue of circular T-46 to cover units of lower ratio and to clarify the type designation.

Approval granted to:

Pioneer Electric Manitoba Limited, 101 Rockman Street, Winnipeg 19, Manitoba.

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Ref: SL-100-636K SE-85-15