



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



STANDARDS BRANCH - DIRECTION DES NORMES

NOTICE OF APPROVAL

T-4E

OTTAWA September 8, 1969.

PIONEER TYPE "MITB-5" and "MITB-15" CURRENT TRANSFORMERS


Apparatus


Primary Currents ⁽¹⁾	800, 1000, 1200, 1500, 1600, 2000, 2400, 2500, 3000, 3200, 4000, 5000, 6000, 7000, 8000, 10000 and 12000 amperes.
Secondary Current	5 amperes, each secondary
Accuracy Rating at 60 hz ⁽²⁾	
800 and 1000 amperes	0.6B0.1, B0.2, B0.5, B0.9, B1.0, B(2x0.9), B2.0*
All others	0.3B0.1, B0.2, B0.5, B0.9, B1.0, B(2x0.9), B2.0*
Insulation Class	5 kv and 15 kv.
Frequency	60 hz
R.F. (rating factor)	1.33
Thermal Rating Factor ⁽³⁾	1.33
Wire	2
Transformers in assembly	1 or 2 independent
Style	Moulded, indoor

* Marked on nameplate

- (1) transformers may have any two of the ratios listed. When two transformers are moulded into one unit, the overall ratio of that with the higher ratio will not be higher than $4/3$ times that of the lower, e.g. 3200-5 one transformer 2400-5 the other.
- (2) accuracy ratings apply to the particular ratio. When a unit contains two transformers there will be two separate nameplates.
- (3) when a unit contains two transformers of the same overall ratio, the thermal rating of 1.33 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.

Pioneer Type "MITB-5" and "MITB-15" Current Transformers

PIONEER  ELECTRIC				
CURRENT TRANSFORMER				
TYPE	60 CYCLE			
RATIO	AMPS			
TAP CONN.	RATIO	ACCURACY		
CONTINUOUS THERMAL RATING	XN			
SEC. THERMAL RATING	XN			
1 SEC. MECHANICAL RATING	XN			
VOLTAGE CLASS	KV	IMPULSE	KV	BIL
No.				
W-2103A0027				

PIONEER  ELECTRIC				
CURRENT TRANSFORMER				
TYPE	60 CYCLE			
RATIO	AMPS			
TAP CONN.	RATIO	ACCURACY		
CONTINUOUS THERMAL RATING	XN			
SEC. THERMAL RATING	XN			
1 SEC. MECHANICAL RATING	XN			
VOLTAGE CLASS	KV	IMPULSE	KV	BIL
SERIAL No.				
W-2103A0027				

Description

The types "MITB-5" and "MITB-15" current transformers are of the 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 moulded 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.

The transformers may be single or dual ratio with secondary terminals "X1", "X2" or "X3" for one transformer and "Y1", "Y2" or "Y3" for the other.

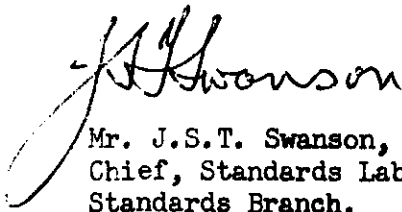
"X1" and "Y1" are the common terminals for the secondary winding(s) and only the ratios obtainable using these terminals are approved for use in billing applications.

Separate nameplates for each transformer list the ratios and the corresponding secondary terminals. (see illustration)

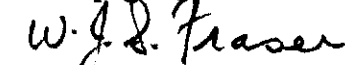
Polarity is subtractive, and is indicated by white dots moulded in the epoxy adjacent to the moulded inserts "X1" and "Y1" and the corresponding primary terminal.

As double units contain two separate transformers, the secondary of the one not in use should be short circuited over the whole winding.

Approval granted to:


Mr. J.S.T. Swanson, P. Eng.,
Chief, Standards Laboratory,
Standards Branch.

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


Mr. W. J. S. Fraser,
Chief, Electricity and Gas Division,
Standards Branch.

Pioneer Type 'MITB-5" and 'MITB-15" Current Transformers

