



**NOTICE OF APPROVAL  
AVIS D'APPROBATION**

**T-115**

Ottawa, July 13, 1976

J.W. ELLIS INDUSTRIES TYPE "MRCT" AUXILIARY CURRENT TRANSFORMER

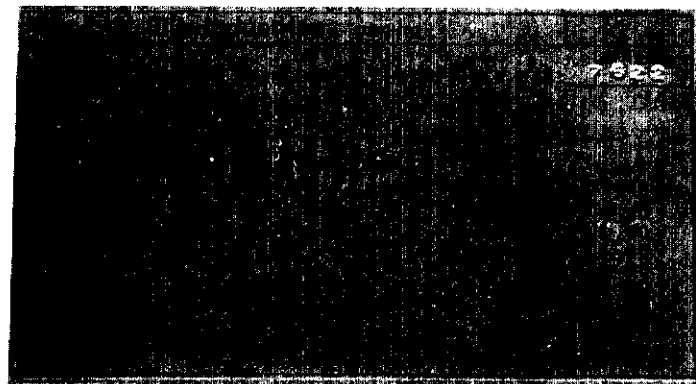
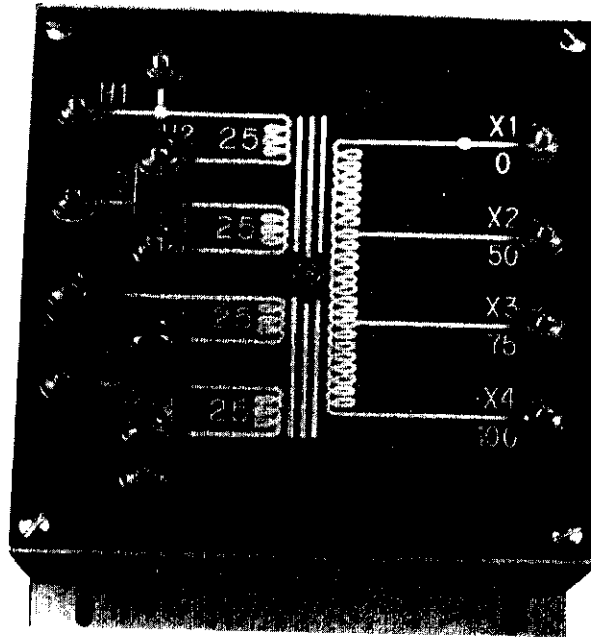
<u>Approved Ratios</u>	<u>Connections</u>		<u>Accuracy Rating</u>	<u>Short Circuit Impedance In Ohms</u>
	<u>Primary</u>	<u>Secondary</u>		
20-5 amps	1-3-5-7; 2-4-6-8	X1-X4	0.3 B-0.9	.03
15-5 "	1-3-5-7; 2-4-6-8	X1-X3	0.3 B-0.9	.03
10-5 "	1-3; 2-4-5-7; 6-8	X1-X4	0.3 B-0.9	.1
7.5-5 "	1-3; 2-4-5-7; 6-8	X1-X3	0.3 B-0.9	.1
6.66-5 "	2-3; 4-5; 6-8	X1-X4	0.3 B-0.9	.3
5-5 "	2-3; 4-5; 6-7	X1-X4	0.3 B-0.9	.4
3.75-5 "	2-3; 4-5; 6-7	X1-X3	0.3 B-0.9	.5
3.33-5 "	2-3; 4-5; 6-8	X1-X2	0.3 B-0.5	.4
2.5-5 "	2-3; 4-5; 6-7	X1-X2	(1) 0.3 B-0.5	.6

(1) When used on the 2.5-5 ampere ratio, the burden on the secondary of the auxiliary transformer is not to exceed 0.4 ohms. This limitation is stipulated so that the effective burden on the main transformer will not exceed 2 ohms.

Description

The core and windings of the type "MRCT" are enclosed in a cubicle of which the sides and bottom are constructed of metal and measure 6" square by 3½" high. The top is made of black plastic and contains the ten primary and four secondary terminals.

The primary consists of four identical and separate 25-turn windings, each connected to its own pair of terminals which are marked



H1-H2, H3-H4, H5-H6 and H7-H8. The primary terminals are connected directly to the H1 and H8 terminals respectively. Links are provided for series/parallel connections.

The 100-turn secondary winding has taps at 50 and 75 turns. These terminals are marked X1 (0), X2 (50), X3 (75) and X4 (100).

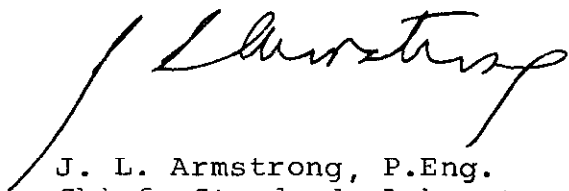
Application

The type "MRCT" is intended for use in the secondary of instrument current transformers for the purpose of giving a reading on a more desirable part of the scale of recording or indicating demand meters. In such circuits, the primary winding of the type "MRCT" is connected to the secondary terminals of the instrument transformer and the secondary winding is connected to the appropriate current coil of the meter.

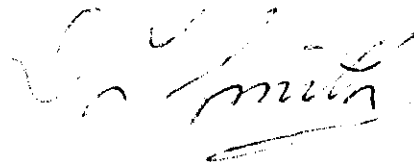
It is recommended that the type "MRCT" be connected between the test block and the meter, keeping the secondary leads as short as possible. This is especially important when connected for a step-up ratio.

Approval granted to:

The J.W. Ellis Industries,  
Toronto, Ontario.



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