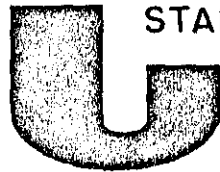




Department of consumer and corporate affairs / Ministère de la consommation et des corporations



STANDARDS BRANCH - DIRECTION DES NORMES

NOTICE OF APPROVAL

T-1-2

OTTAWA January 20, 1971.

CANADIAN GENERAL ELECTRIC TYPES "CM-0", "CM-5N", "CM-8.7N", "CM-15N", "CML-5N", "CML-8.7N", "CML-15N", "CS-5N", "CS-8.7N", "CS-15N", "CSL-5N", "CSL-8.7N" and "CSL-15N" Current Transformers.

Primary Currents

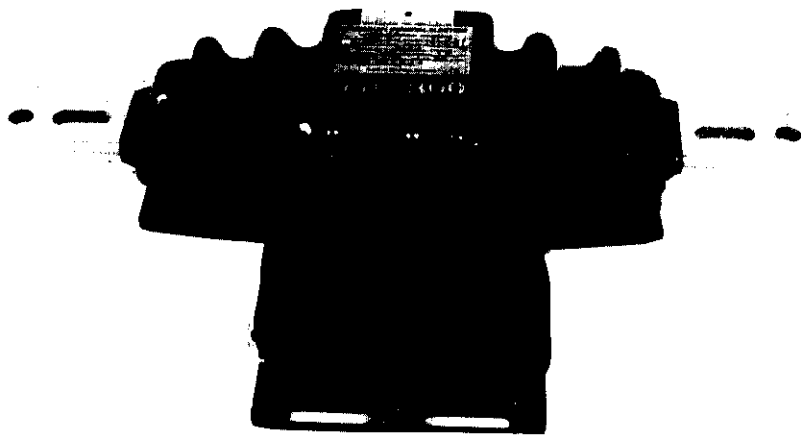
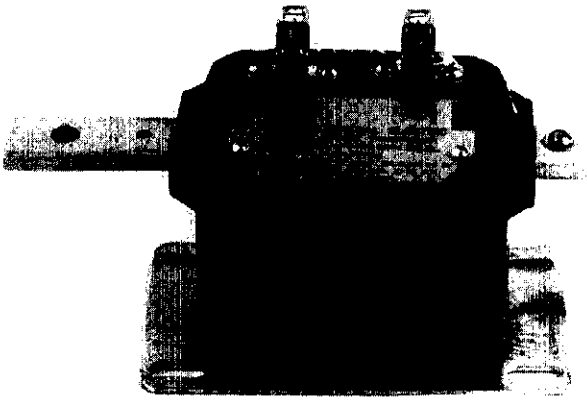
CM-0	5, 10, 15, 20, 25, 40, 50, 75, 100, 150, 200, 250, 300, 400, 500, 600, 800, 1000 & 1200 amperes
CM-5N, CM-8.7N, CM-15N	10, 15, 25, 40, 50, 75, 100, 150, 200, 250, 300, 400, 500, 600, 800, 1000 & 1200 amperes
CML-5N, CML-8.7N, CML-15N	25/50, 50/100, 75/150, 100/200, 150/300, 200/400, 250/500, 300/600, 500/1000 & 600/1200 amperes
CS-5N, CS-8.7N, CS-15N	10, 15, 25, 40, 50, 75, 100, 150, 200, 300, 500 & 600 amperes
CSL-5N, CSL-8.7N, CSL-15N	25/50, 50/100, 75/150, 100/200, 150/300, 200/400, 250/500 & 300/600 amperes
Secondary Current	5 amperes (all ratings)

Secondary Current

Accuracy Rating at 60hz

CM-0 ^①	0.3B0.1, B0.2, B0.5, B0.9, B1.0; 0.6B1.8, B2.0
CM-5N, CM-8.7N, CM-15N ^② & CML-5N, CML-8.7N, CML-15N ^③ (high ratio)	0.3B0.1, B0.2, B0.5, B0.9, B1.0, B1.8, B2.0
CML-5N, CML-8.7N, CML-15N ^③ (low ratio)	0.3B0.1, B0.2, B0.5; 0.6B0.9, B1.0, B1.8, B2.0
CS-5N, CS-8.7N, CS-15N ^④ & CSL-5N, CSL-8.7N, CSL-15N ^⑤ (high ratio)	0.6B0.1, B0.2, B0.5, B0.9, B1.0, B1.8, B2.0
CSL-5N, CSL-8.7N, CSL-15N (low ratio)	not approved for revenue metering

CANADIAN GENERAL ELECTRIC TYPES "CM-0", "CM-5N", "CM-8.7N", "CM-15N",
"CML-5N", "CML-8.7N", "CML-15N", "CS-5N", "CS-8.7N", "CS-15N", "CSL-5N",
"CSL-8.7N" and "CSL-15N" Current Transformers



Voltage Insulation Class	CM-0 600 volts CM-5N, CML-5N, CS-5N, CSL-5N 5kv CM-8.7N, CML-8.7N, CS-8.7N, CSL-8.7N 8.7kv CM-15N, CML-15N, CS-15N, CSL-15N 15 kv
Frequency	60hz
R.F. (rating factor)	
CM-0, CM-5N, CM-8.7N, CM-15N	1.5
CML-5N, CML-8.7N, CML-15N	1.5 on high ratio, 2.0 on low ratio
CS-5N, CS-8.7N, CS-15N	2.0
CSL-5N, CSL-8.7N, CSL-15N	2.0 on high ratio
Identification	
CM-0	Cat. No. 231735
CM- and CS-	Ser. No. 231303 and above
CML-	" " 231644 " "
CSL-	" " 275011 " "
Wire	All types are 2-wire units
Style	Moulded, indoor
①	nameplates of type CM-0 marked 0.3B0.9
②	nameplates of types CM-5N, CM-8.7N & CM-15N marked 0.3B2.0
③	nameplates of types CML-5N, CML-8.7N & CML-15N marked 0.3B2.0 for the high ratio and 0.6B2.0 for the low ratio
④	nameplates of types CS-5N, CS-8.7N & CS-15N marked 0.6B2.0
⑤	nameplates of types CSL-5N, CSL-8.7N & CSL-15N marked 0.6B2.0 for the high ratio. Low ratio will be marked "Not Approved for Revenue Metering".

Description

The types covered by this approval are identical in appearance to the corresponding types covered by circulars S-EA.538 and T-1-1, but differ in that they have been redesigned for an improved metering accuracy. They can be identified from those covered by the previous circular by the catalogue number 231735 on type CM-0 and serial number of transitions as listed above for the other types.

All transformers covered by this approval are designed for indoor service for metering purposes.

The transformer windings are impregnated with and moulded in epoxy resin of high mechanical and electrical strength. The primary is a single coil of heavy copper conductor of circular shape to give high mechanical strength and the secondary coil is positioned inside the primary coil for maximum accuracy. All connections to the primary and secondary windings are brazed.

Primary terminals are flat silver plated copper bars and the secondary terminals are clamp type and are provided with short-circuiting links.

Polarity is indicated by white dots adjacent to "X1" and the corresponding primary terminal.

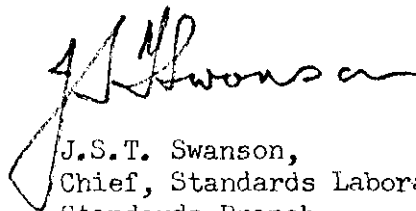
Double ratio units "CML-" and "CSL-" have three secondary terminals marked "X1", "X2" and "X3". The low ratio is obtained from terminals "X1" and "X2" and the high ratio from "X1" and "X3". The short-circuiting link is between "X2" and "X3".

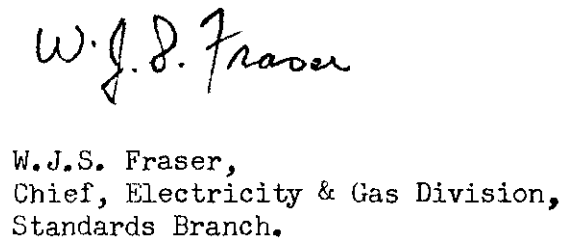
The types CML-N and CSL-N are similar to the types CM-N and CS-N respectively and differ in that they have a double ratio obtained by means of a tap in the secondary winding.

NOTE: The nameplates on the types CS-15N and CML-15N illustrated are incorrect. The CS-15N will have a rating factor of 2 in place of the marked 3, and the CML-15N will have a separate accuracy rating for the low ratio, and the maximum continuous amperes will not exceed twice the capacity of the low ratio.

Approval granted to:

Canadian General Electric Company Ltd.,
Toronto 4,
Ontario.


J.S.T. Swanson,
Chief, Standards Laboratory,
Standards Branch.


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

Ref: SL-100-429 (P)
SE-85-1-5