



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



STANDARDS BRANCH - DIRECTION DES NORMES

NOTICE OF APPROVAL

T-28-1

OTTAWA January 15, 1970

MOLONEY TYPE "RM" CURRENT TRANSFORMERS

Primary Currents

Single Ratio

400, 500, 600, 800, 1000 and 1200 amperes

Dual Ratio

600/400, 800/400, 1000/500, 1000/400,
1000/600, 1200/400, 1200/600 and 1200/800
amperes

Secondary Current

5 amperes

Accuracy Rating at 60 hz

400 amperes (serial 247662
and later)

0.3B0.1, B0.2, B0.5, B0.9;⁽¹⁾ 0.6B1.0, B1.8,
B2.0

All others

0.3B0.1, B0.2, B0.5, B0.9,⁽²⁾ B1.0, B1.8;⁽²⁾
0.6B2.0

Voltage Rating⁽³⁾

2.5 kv to ground

R.F. (rating factor)⁽⁴⁾

2.0

Frequency

60 hz

Wire

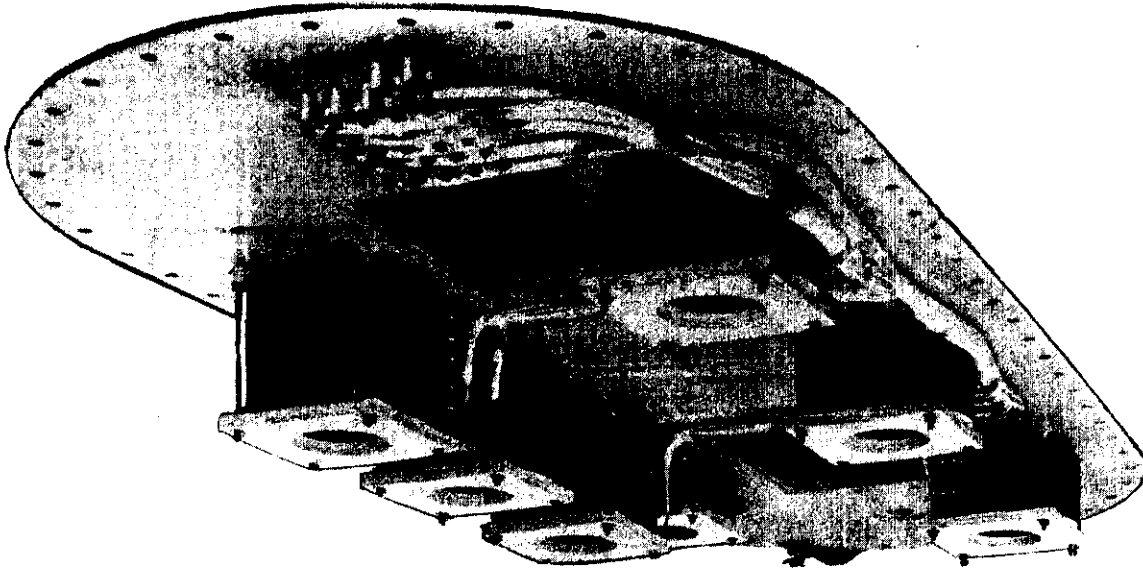
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Style

Bushing

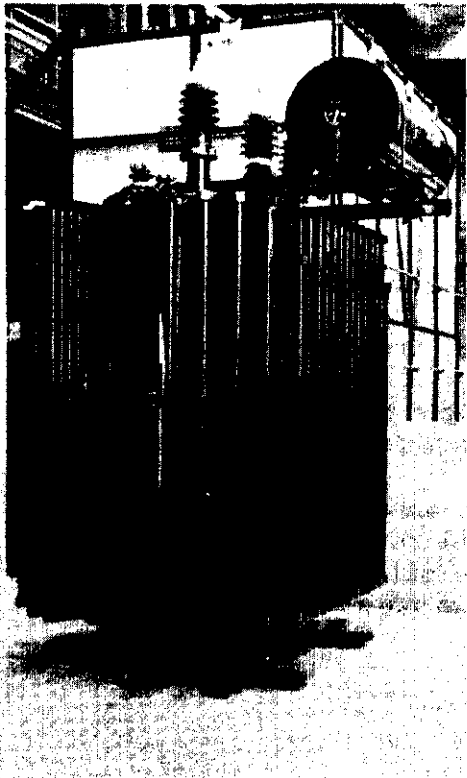
- (1) The 400-5 amp. ratio on transformers with serial numbers subsequent to 247662 has a reduced accuracy rating.
- (2) 0.3B0.9 or 0.6B1.8 is marked on the nameplate. Transformers may be marked with either 0.6B(2 x 0.9) or 0.6B1.8.
- (3) The transformer is insulated for 2.5 kv only, but may be used on voltages up to 69 kv when mounted on a bushing which provides the major part of the insulation.
- (4) The accuracy rating given above holds up to 10 amperes secondary current (RF = 2.0) and when immersed in oil the thermal rating is also 2.0; but when mounted in a confined space above the oil in a power transformer, the thermal rating is reduced to 1.0. There is no change in the accuracy rating under this condition.

MOLONEY TYPE "RM" CURRENT TRANSFORMERS

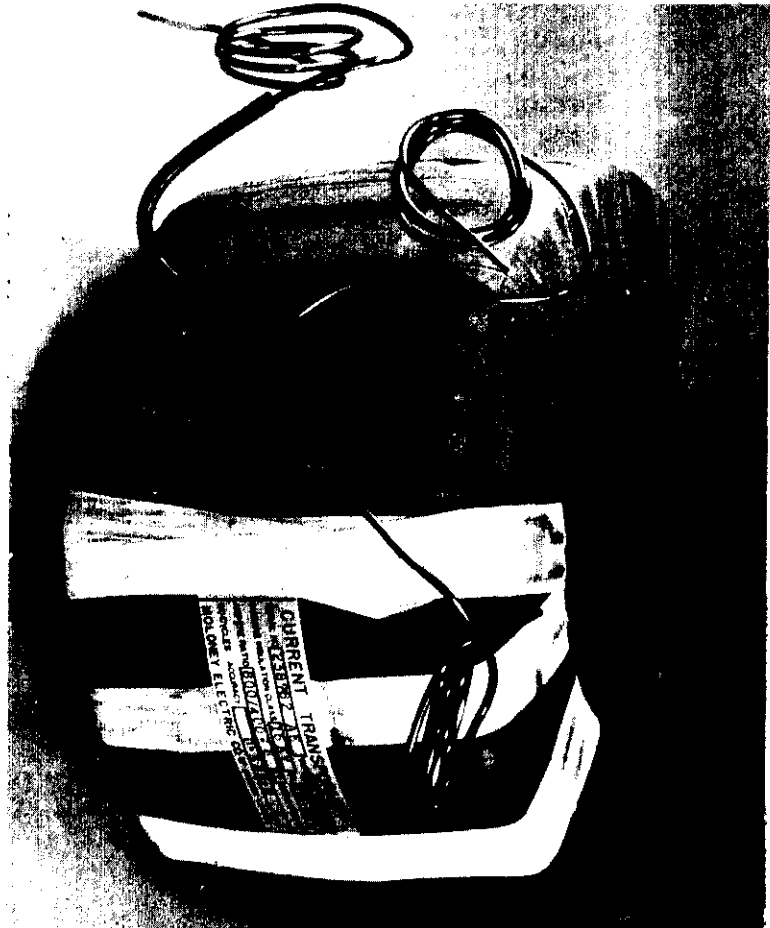


"RM"

TYPICAL BUSHING CURRENT TRANSFORMER INSTALLATION
Undercover view illustrating the method of mounting used for bushing current transformers. The wiring terminates on bushings which carry the circuit through the cover wall to the external outlet box.



**Typical Moloney
Power Transformer**



DESCRIPTION

This type of current transformer is manufactured normally for use in power transformers. The annular core is wound from a continuous strip of cold rolled grain-oriented silicon steel which is subsequently annealed to restore the optimum magnetic characteristics that may have changed during the winding process.

The core is completely insulated and then the turns are uniformly distributed around the core using crepe paper tape where required, after which the outside of the winding is insulated with axial cotton taping, dried and impregnated with insulating varnish which is cured by baking.

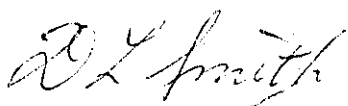
The nameplate on the power transformer will include diagrams indicating polarity and terminal numbers along with the serial numbers of the type "RM" current transformers installed in the unit.

These transformers are shown as "bushing" type in the illustration but they will be identified as type "RM".

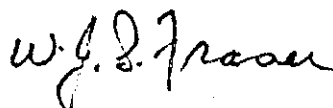
This is a re-issue of circular T-28 to include additional dual ratio units and to advise of a change in the accuracy rating of the 400-5 amp. ratio.

Approval granted to:

Moloney Electric Company of Canada Ltd.,
213-219 Sterling Road,
Toronto, Ontario.



(for) Chief,
Standards Laboratory,
Standards Branch.



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

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