



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



**STANDARDS BRANCH - DIRECTION DES NORMES**

**NOTICE OF APPROVAL  
AVIS D'APPROBATION**

**T-108**

OTTAWA July 2, 1975

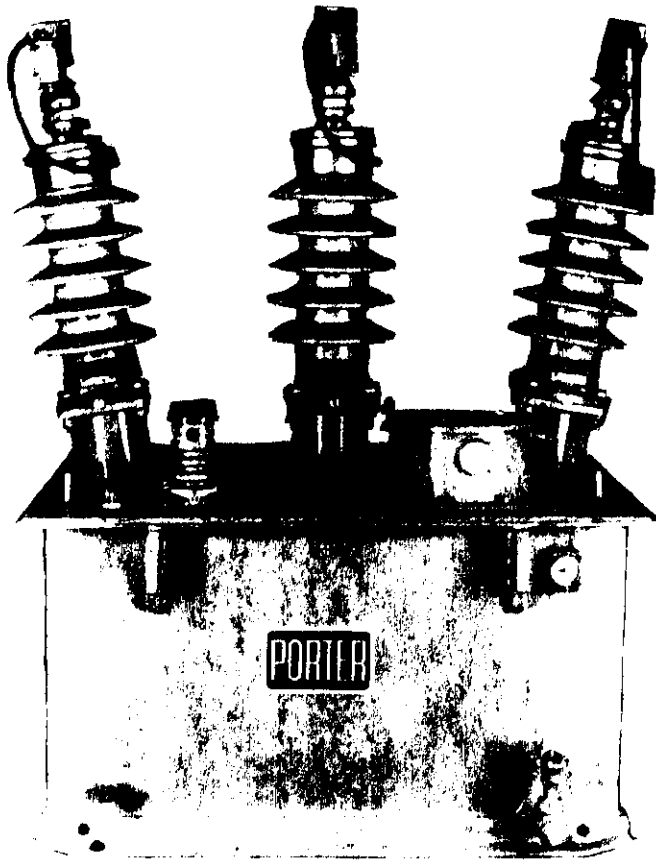
H.K. PORTER TYPES "MO-15" AND "MO-35" THREE PHASE THREE WIRE AND THREE PHASE FOUR WIRE METERING OUTFITS

Voltage Transformer Types and Ratings:

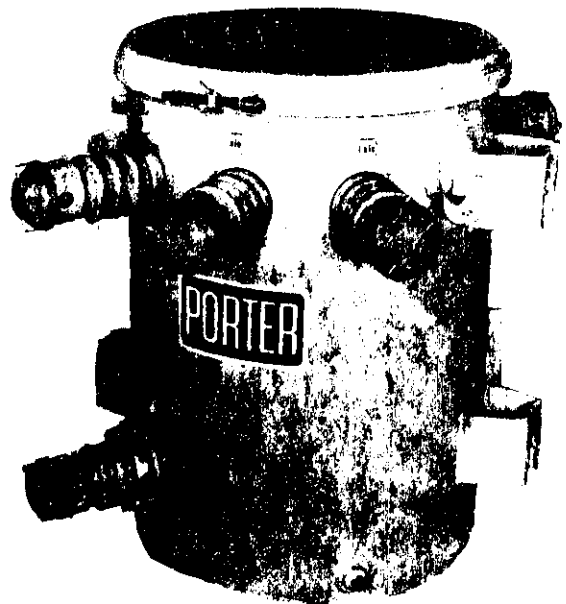
For "MO-15" units	<u>3Ø 3 Wire</u>	<u>3Ø 4 Wire</u>
Type	"TLM-15"	"TNM-15"
Voltage ratios	7200-120 volts	12470Y/7200-120 volts
	8400-120 "	14400Y/8400-120 "
	12000-120 "	
	13800-115 "	
	14400-120 "	
For "MO-35" units	<u>3Ø 3 Wire</u>	<u>3Ø 4 Wire</u>
Type	"TLM-35"	"TNM-35"
Voltage ratios	27600-115 volts	27600Y/16100-115 volts
	34500-115 "	
Accuracy rating at 60 Hz	① 0.3W, X, Y, Z, ZZ	

Current Transformer Types and Ratings:

For "MO-15" units	"COM-15"	
For "MO-35" units	"COM-35"	
Primary current	50/25, 100/50, 10/5, 20/10, 30/15, 150/75, 200/100, 400/200, 600/300, 800/400 and 1200/600 amperes	
(COM-15 only)	2000, 3000 amperes	
Secondary current	5 amperes	
Accuracy rating at 60 Hz:		
High ratio (including 2000 and 3000-5 amps)		② 0.3B0.1, B0.2, B0.5, B0.9, B1.0, B1.8; 0.6B2.0
Low ratio		② 0.3B0.1, B0.2, B0.5, B0.9; 0.6B1.0 and B1.8



MO-35 3 Phase 4 Wire



MO-15 3 Phase 4 Wire

R.F. (rating factor):  
(50/25 to 1200/600-5A incl.) 1.5  
(2000 and 3000-5A) 1.0

Ampere turns rating:  
3000-5 ampere 3000 AT.  
2000-5 " 2000 AT.  
800-5 " 1600 AT.  
400-5 " 800 AT.  
All other high ratios 1200 AT.  
All other low ratios 600 AT.

Frequency 60 Hz  
Style Oil insulated, outdoor

Numbers in the type designations refer to nominal voltage class  
The nameplates are marked 0.3ZZ  
The nameplates are marked 0.3B09; 0.6B1.8

#### Description

The instrument transformers coil and core assemblies of the Types "MO-15" and "MO-35" are immersed in oil and contained in a steel tank.

The H.V. leads extend through the glazed porcelain insulator tubes to the terminals which are either flat pad-type or clamp-type with hand wheel solderless connectors, depending upon the installation requirements. The neutral lead on four wire units is brought out through a 5KV class bushing.

The secondary leads are brought out to colour coded connectors mounted in a weather proof box.

The H.V. bushings and terminals of the Type "MO-15" are located on the side near the top of a cylindrical tank and extend outward horizontally, while the secondary terminal box is near the bottom of the tank.

This differs from the configuration of the Type "MO-35" in that the primary and secondary terminals are mounted on top of a cubical tank with the H.V. bushings extending upwards.

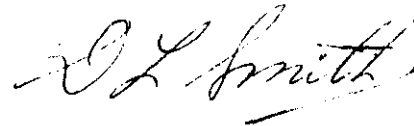
Three phase four wire units are equipped with three current transformers and two voltage transformers.

Three phase three wire units are equipped with two current transformers and two voltage transformers.

The double ratio feature of the current transformers is provided by means of center-tapped secondary windings.

Approval granted to:

H. K. Porter Company (Canada)  
Woodstock, Ontario



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