S-EA.508
(amended)

DEPARTMENT OF TRADE AND COMMERCE

STANDARDS BRANCH

OTTAWA, November 27, 1963.

TYPE APPROVAL

MOLONEY COMPANY OF CANADA AND SANGAMO COMPANY
TYPES "MU-50", "MU-87" and "MU-150" 3-PHASE 3-WIRE METERING UNITS

The apparatus specified and illustrated herein have been duly approved by the Standards Branch under the provisions of the Electricity Inspection Act, Chapter 94, R.S. 1952, and may be admitted to verification in Canada.

Apparatus Approved: Types "MU-50", "MU-87" and "MU-150" Metering Units, manufactured jointly by Moloney Electric Company of Canada Limited, 213-219 Sterling Road, Toronto, Ontario, and by Sangamo Company Limited, Leaside, Toronto 17, Ontario.

Rating of Apparatus:

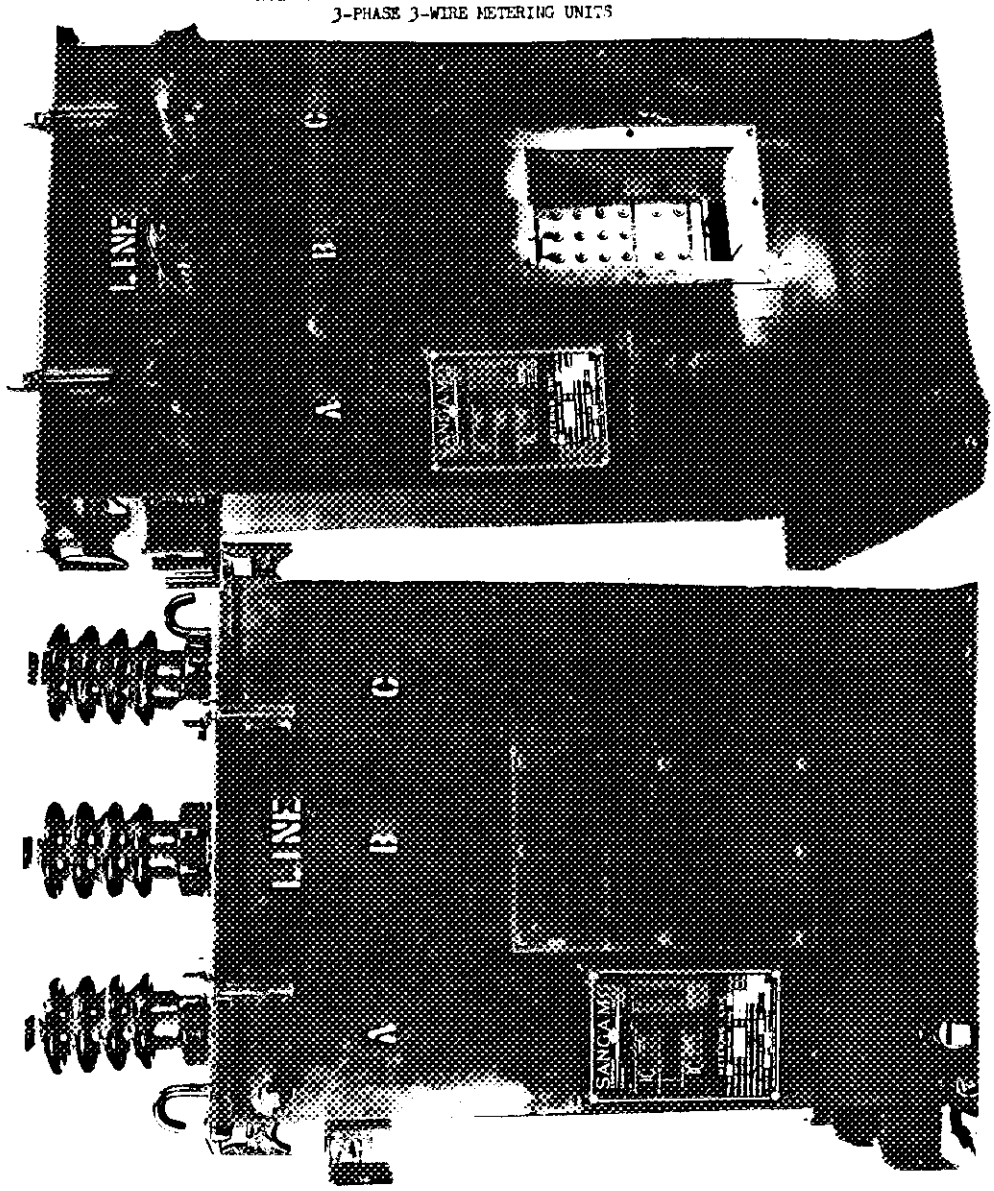
Primary Voltages	
Type MU-50	2400, 4200, 4800 volts
Type MU-87	7200, 8400 volts
Type MU-150	12000, 13800*, 14400 volts
Secondary Voltage (all types)	120 volts, 115* volts
Primary Current (all types)	10/5, 20/10, 30/15, 40/20, 50/25, 100/50, 150/75, 200/100, 300/150, 400/200, 500/250, 600/300, 800/400 amperes.
Secondary Current (all types)	5 amperes
Accuracy Class (all types	
Voltage Transformers	0.3WXYZ#
Current Transformers	0.3B0.1, B0.2, B0.5, B0.9, B(2 x 0.9)#
Phase	3
Wire	3
Frequency	60 cycles
R.F. (rating factor)	1.5 (current transformers)
Style	oil filled

*The 115 volt secondary appears only in conjunction with the 13800 volt secondary.
#Marked on nameplate

Description: These three types of metering unit have been developed co-operatively between Moloney Electric Company of Canada Limited and Sangamo Company Limited and may be marketed through either organization. Consequently these units may be encountered with either the Moloney Electric Company nameplate or the Sangamo Company nameplate. In either case the units will be identical.

The metering unit will normally be supplied with two voltage transformers and two current transformers in a short tank.

MOLONEY COMPANY OF CANADA AND SANGAMO COMPANY
3-PHASE 3-WIRE METERING UNITS



The types "MU-50" and "MU-87" will have the high voltage bushings mounted on the side walls of the tank, 'line' on one side 'load' on the other. The type "MU-150" may have the high voltage bushings mounted similarly on the side walls of the tank, or, alternatively, on the top of the tank, (double conductor type).

The secondary leads from all the transformers in the tank are brought to identified terminals on a panel located inside a terminal box mounted on the side of the tank. These terminals are further identified by a schematic diagram appearing on the nameplate.

To obtain the dual ratio of the current transformers, the secondary winding is provided with a tap which is brought out to one of the terminals on the panel inside the terminal box.

This circular cancels and replaces circular S-EA.508 of June 15, 1961 to separate the 3-phase 3-wire units from the 3-phase 4-wire units.

E. F. Power

E.F. Power,
Chief, Electricity and Gas Division,
Standards Branch.

R. W. MacLean,
Director,
Standards Branch.

Ref: A-880