



TRADE AND COMMERCE
CANADA

STANDARDS BRANCH

OTTAWA, September 20, 1960.

TYPE APPROVAL

SANGAMO TYPES "NBA", "NBAP", "NBS" AND "NBP"
POLYPHASE WATTHOUR METERS

The apparatus specified herein has 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 "NBA", "NBAP", "NBS" and "NBP" Polyphase Watthour Meters, manufactured by Sangamo Company Limited, Leaside, Toronto 17, Canada.

Rating of Apparatus:

Current Range:		Amperes			
		0.12-10	.5-30	1.2-100	2.5-200
2-Element	"NBA"	-	.5-30	1.2-100	-
	"NBAP"	0.12-10	.5-30	1.2-100	-
	"NBS"	0.12-10	.5-30	1.2-100	2.5-200
2½-Element (Y & Delta)	"NBP" and "NBS"	0.12-10	.5-30	1.2-100	-
	"NBP"	0.12-10	-	-	-

Voltages:

2-Element	115, 230, 460, 575 OR 120, 240, 277 [#] , 480, 600 and 120/208, 240/416, 277/480 [#]
2½-Element Y	120/208, 240/416, 277/480 [#]
2½-Element Delta	115/230, 120/240
3-Element	115 and 120

Frequency 50[#] and 60 cycles

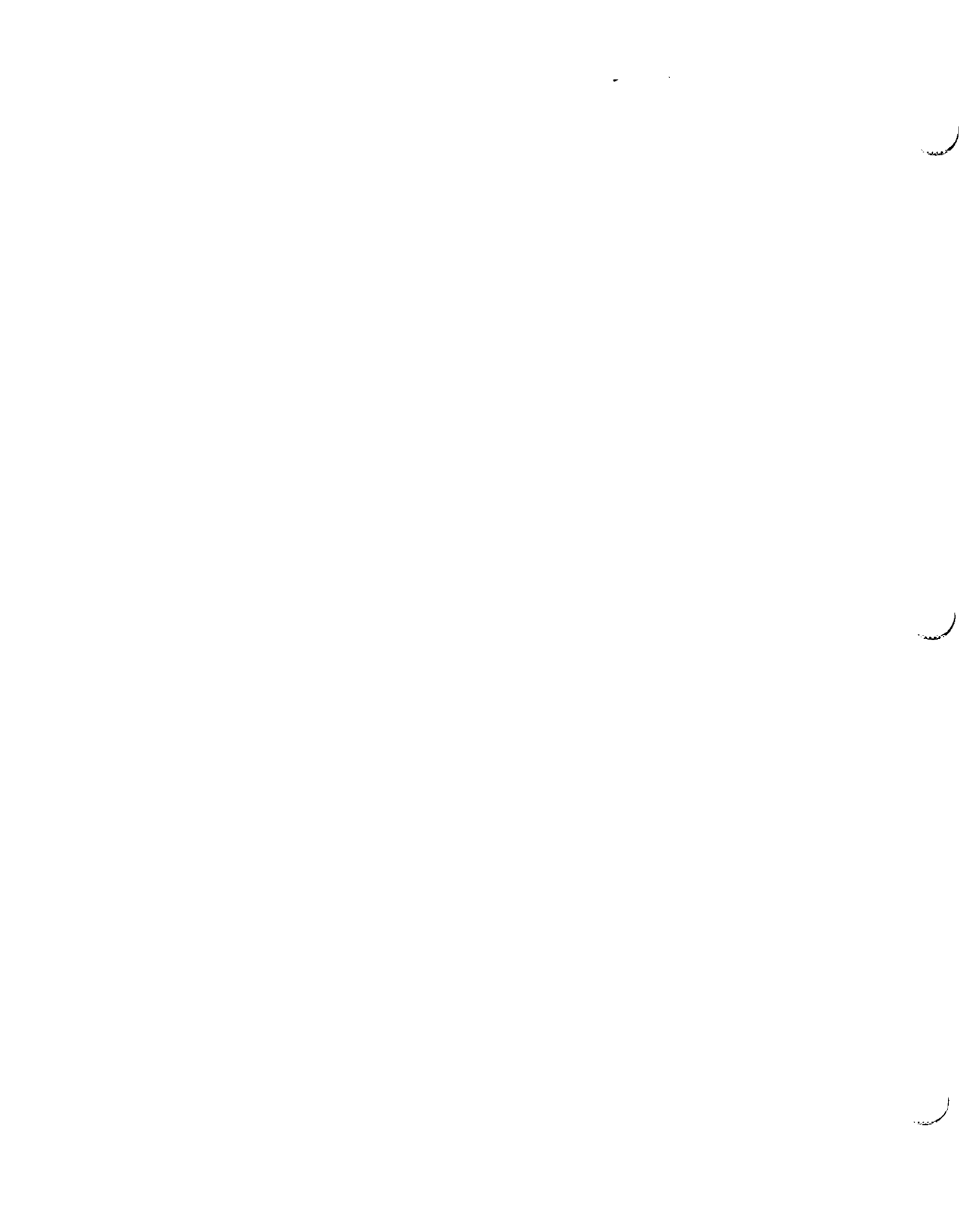
Register Clock-type and "Geneva" Cyclometer (SD-EA.372)

Basic Disc Constant^{*}:

	Amperes			
	0.12-10	.5-30	1.2-100	2.5-200
2-Element	0.6	2.4	6.0	12.0
2½-Element Y	0.9	3.6	9.0	-
2½-Element Delta	1.2	4.8	12.0	-
3-Element	1.8	-	-	-

The 277 and 277/480 volt ratings do not apply on 50 cycles. On 60 cycles, meters that have been calibrated on 240 volts may be used on 277 volts without re-calibration.

* These constants are for the 115, 120 and 120/208 volt ratings. For all other voltages the constant is increased by the voltage multiple except in the case of the 277-volt rating which has the same disc constant as the 240-volt rating.



Description: This is a consolidation of all the ratings of the type "NB" watt-hour meters which are now produced with the nameplate marked in current range. These meters are similar to the type "NB" meters approved previously except that some modifications have been made to the electromagnet in the range-rated meters. Pertinent approval circulars are:-

Nominal and Maximum Current Ratings

SD-EA.133 - December 11, 1953
SD-EA.147 - April 5, 1954
SD-EA.177 - February 10, 1955
SD-EA.240 - April 11, 1956
SD-EA.327 - December 30, 1957

Current Range Ratings

SD-EA.332 - January 10, 1958
SD-EA.369 - August 19, 1958
SD-EA.372 - September 11, 1958
S-EA.444 - March 29, 1960.

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