

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

STANDARDS BRANCH -DIRECTION DES NORMES

NOTICE OF APPROVAL

OTTAWA April 1, 1974.

Sangamo "Standard" and "Precision" Auto Current Transformers

Standard

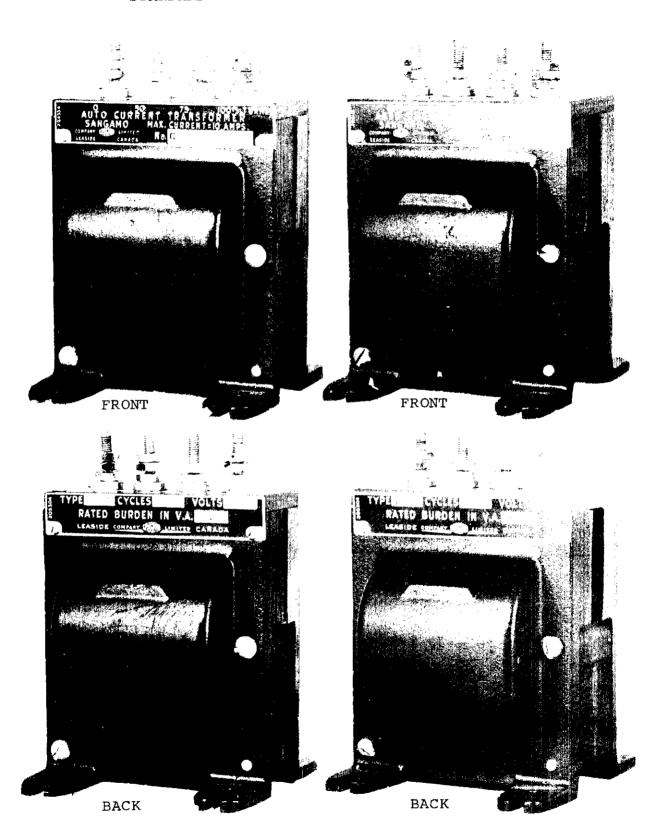
Approved Ratios	Primary <u>Terminals</u>	Secondary Terminals	Accur	acy Rat	ting
3:4	0 - 100%	0 - 75%	0.3 B0.1,	B0.2;	0.6B0.5
4:3	0 - 75%	0 - 100%	0.3 BO.1,	BO.2.	B0.5; 0.6B0.9
2:1	0 - 50%	0 - 100%	0.3 BO.1,	BU.2,	0.6B0.5, B0.9
3:2	0 - 50%	0 - 75%	0.3 B0.1,	B0.2:	0.6B0.5
3:1	75% - 50%	75% - 0			
4:1	100% - 75%	100% - 0	0.3 B0.1,	B0.2°	0.6B0.5, B0.9
Maximum	Current 10	amperes in an	y part of	the coi	il
Terminals at 0,					

Precision

Approved Ratios	Primary Terminals	Secondary Terminals	Accuracy Rating
2:3	100% - 0		0.3B0.1; 0.6B0.2, B0.5 0.3B0.1, B0.2, B0.5; 0.6B0.9, B1.0
2:1	0 - 50%	0 - 100%	0.3B0.1, B0.2, B0.5, B0.9, B1.0; 0.6B 1.8, B2.0
3:1	0 - 33 1/3%	0 - 100%	0.3B0.1, B0.2, B0.5, B0.9 0.6B1.0, B1.8, B2.0
3:2	100%-335%	100% - 0	0.3B0.1, B0.2, B0.5, B0.9, B1.0; 0.6 B1.8, B2.0
3:4	100%-335%	100%-50%	0.3B0.1, B0.2; 0.6B0.5
4:1		33 %-100%	0.3B0.1, B0.2, B0.5; 0.6B0.9
4:3	100%-50%	100%-333%	0.3B0.1, B0.2, B0.5; 0.6B0.9, B1.0
Maximum Terminal Frequenc	s at 0 ,		y part of the coil d 100% of turns

STANDARD

PRECISION



Description

These are small transformer measuring approximately 5 1/4" high by $3\frac{1}{2}$ " wide by 3" deep. The coil is wound on a core of stacked laminations, and the whole assembly is encased in metal. Four terminals consisting of threaded studs are mounted on the top, one for each top, and their identifications are marked on the nameplate in percentage of coil turns.

Applications

These transformers are intended for use in the secondaries of main transformers for the purpose of giving a reading on a more desirable part of the scale of recording or indicating demand meters. In such circuits the terminals listed as the primary ones, in this Notice of Approval, are connected to the secondary terminals of the main transformers, and the terminals listed as the secondary ones are connected to the meter.

It is recommended that the auto transformers be installed between the test block and the meter, according to the diagrams on pages 4 and 5, keeping the secondary leads as short as possible. This is especially important when a step-up ratio of the auto transformer is used, since the external burden as seen by the main transformer is multiplied by the factor (output current) (input current) *

This is a re-issue of N.R.C.-158 to list those ratios that are approved for revenue metering.

More detailed information concerning the use of these transformers in revenue metering will be given in Technical Bulletin

NOTE:

These transformers have not been assigned a type designation by the Sangamo Company. However, for the purpose of this notice, Standard and Precision are used to distinguish between the two forms.

Approval granted to:

/ Lauration

J.L. Armstrong

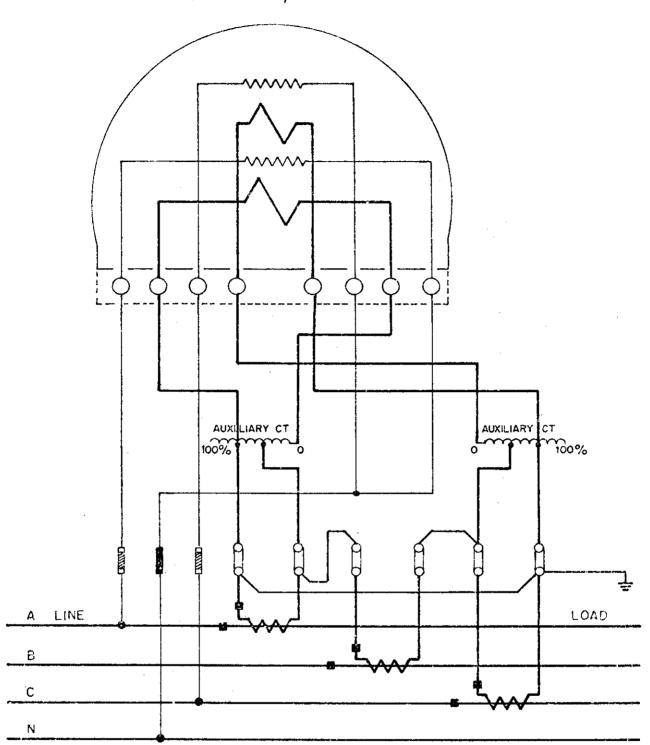
Chief, Standards Laboratory

Metrology and Laboratory Services

Sangamo Company Limited, Leaside, Toronto 17, Ontario.

Chief, Electricity & Gas Division Metrology and Laboratory Services

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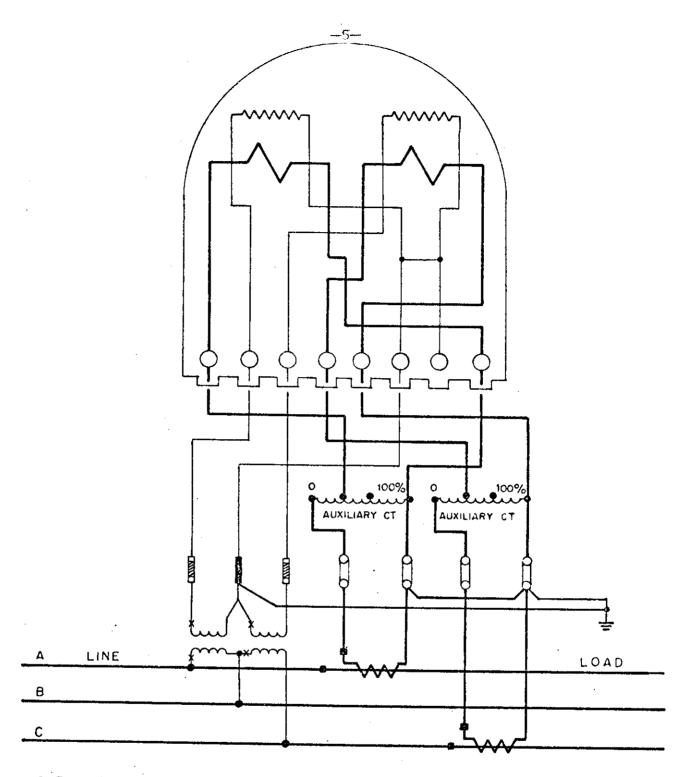
CIRCUIT : 3-PHASE, 4-WIRE Y

METER : 2-ELEMENT, VERTICAL, A-BASE, TRANS.-TYPE

TRANSFORMER : 3 C.T.,

EXAMPLE : ONE OF THE WAYS AUXILIARY C.T.S MAY BE USED

NOTE : THE COMMON TERMINAL IS GROUNDED



CIRCUIT

: 3-PHASE, 3-WIRE, A

M E T E R : SANGAMO, TYPE 4L2 OR 4L3

TRANSFORMERS : 2 C.T., 2 AUXILIARY AUTO C.T., 2 P.T.

EXAMPLE : ONE OF THE WAYS AUXILIARY C.T.S MAY BE USED

NOTE : THE COMMON TERMINAL IS GROUNDED