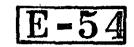


## DEPARTMENT OF TRADE AND COMMERCE STANDARDS BRANCH



OTTAWA June 8, 19 67.

## NOTICE OF APPROVAL

FOR

FERRANTI-PACKARD TYPES "PCA", "PCS", "PCD" & "PC"
POLYPHASE WATTHOUR METERS

Туре	Current Range	Volts		kh Rr	Register						
self	contained for m	etering 3 v	vires of a 3	-phase 4-wire	Y circuit (network)						
FCA	1.25-100	1.20	2	7.2	13-8/9 4 dial x l						
		345	2	21,6	$46-8/27 \ 4 \ dial \ x \ 10$						
self-contained for 3-phase 3-wire											
PC	1.25-100	120	2	7.2	13-8/9 4 dial x 1						
		240	2	14.4	69-4/9 4 dial x 10						
		345	2		$46-8/27 4 dial \times 10$						
		480	2	28.8	34-13/18 4 dial x 10						
		600	2 2 2 2	36.0							
se.	lf-contained for	3-phase 4									
PC	1,25-100	<b>1</b> 20	2 <u>1</u> Y	10.8	92-16/27 4 dial x 10						
		345	2½Y 2½Y	32.4	30-70/81 4 dial x 10						
tr	ansformer type f	or 3-phase	4-wire Y us	ing delta-con	nected current transform						
	.12-10	120	2	0.6	166-2/3 4 dial x l						
	25-20	120	2 2 2 2 2 2 2 2 2 2 2	1.2	83-1/3 4 dial x 1						
	.12-10	240	2	1.2	83-1/3 4 dial x l						
	25-20	240	2	2.4	41-2/3 4 dial x 1						
	12-10	345	2	1.8	55-5/9 4 dial x 1						
	25-20	345	2	3.6	27-7/9 4 dial x 1						
	.12-10	480	2	2.4	41-2/3 4 dial x 1						
	.25-20	480	2	4.8	20-5/6 4 dial x l						
	.12-10	600	2	3.0	33-1/3 4 dial x 1						
	25-20	600	2	6.0	16-2/3 4 dial x 1						

$\underline{\operatorname{self}}$	-contained for	<u>r 3-phase 3-</u>	wire			
PCS	1,25-100 2,5-200	120 240 480 600 120 240 480 600	2 2 2 2 2 2 2 2	7.2 14.4 28.8 36.0 14.4 28.8 57.6 72.0	27-7/9 69-4/9 34-13/18	4 dial x 1 4 dial x 10 4 dial x 10
<u>self</u>	-contained for	r 3-phase 4-	wire Y			
PCS	1.25-100 2.5-200	120 345	2 <u>\$</u> Y 2 <u>\$</u> Y 2 <u>\$</u> Y	10.8 32.4 21.6	92-16/27 30-70/81 46-8/27	4 dial x 10
	<b>∠.</b> 9200	120 345	2 jY 2 jY	61, 8		4 dial x 10
tran	sformer type :	for 3-phase	4-wire Y usin	g delta-conn	ected curren	t transformers
PCS	.12-10	120	2	0.6	166-2/3	4 dial x 1
	.25-20	120	2	i.2	83-1/3	4 dial x l
	.12-10	240	2	1.2	83-1/3	4 dial x l
	•25 <b>-</b> 20	240	2	2.4	41-2/3	4 dial $x$ 1
	.12-10	345	2	1.8	55-5/9	4 dial x l
	.25-20	345	2	3 <b>.</b> 6	27-7/9	k dial x 1
	.12-10	480	2	2.4	41-2/3	$4 \text{ dial } \times 1$
	<b>.</b> 25 <b></b> 20	480	2	4.8	20-5/6	$4 \text{ dial } \times 1$
	.12-10	600	2	3.0	33-1/3	4 dial x l
	.25-20	600	2	6.0	16-2/3	4 dial x l
Tran	sformer type i	for 3-phase	3-wire			
PCD	.12-10	120	2	0.6	166-2/3	4 dial x l
	25-20	120	2	1.2	83-1/3	4 dial x l
	12-10	240	2	1.2	83-1/3	4 dial x l
	25-20	240	2	2.4	41-2/3	$4 \text{ dial } \times 1$
	.12-10	345	2	1.8	55-5/9	4 dial x l
	<b>25–</b> 20	345	2	3.6	27-7/9	4 dial x l
	12-10	480	2	2.4	41-2/3	4 diel x l
	25-20	7,80	2	4.8	20-5/6	4 dial x l
	.12-10	600	2	3.0	33-1/3	$4 \text{ dial } \times 1$
	.25-20	600	2	6.0	16-2/3	4 dial x 1

Frequency 60 hz - all ratings -

A 5 dial x 1 register may be used on these ratings that are listed above with a 4 dial x 10 register, in which case the register ratio will be one tenth the value given. 5 dial registers with register ratios greater than 6-17/18 will be provided with a test dial, and those with register ratios lower than this will not have a test dial.

Description: The "PC" line of polyphase watthour meters bear a family resemblance to the "PB" types which they supersede. The types "PCA", "PC" and "PCD" will be in the same cases as the corresponding "PB" types presently approved. The type "PCS" will be on a new plastic base plate.

They are of two element vertical construction with a disc for each element with a magnetic bearing. The potential coils are moulded in polyethylene plastic and the current coils are insulated with butyl rubber.

Full load calibration is provided by two pairs of "C" shaped magnets, one on each disc on the left hand side of the meter frame. The lag adjustment is by means of a soldered pigtail from coils wound on the current electromagnets. There is only one low load adjustment, which is a movable brass plate on the upper electromagnet. There is only one balance adjustment and this acts on the lower element.

Care should be taken when connecting the potential leads when verifying, it is necessary that the diagrams on the nameplates be followed exactly. In some cases one end of the potential coil is connected to the link and in other cases it is connected to the screw.

Approval granted to: Ferranti-Packard Electric Limited, St. Catharines, Ontario.

W. J. S. Fraser,

Chief, Standards Laboratory,

Standards Branch.

K. Cryer

Chief, Electricity & Gas Division,

Standards Branch.

Ref: SL-100-457L

