



S-EA.638

DEPARTMENT OF TRADE AND COMMERCE  
STANDARDS BRANCH

OTTAWA, October 26, 1964.

TYPE APPROVAL

SANGAMO TYPES "CJ3F", "P20F" and "P30F" FLUSH-MOUNTED  
PANEL WATTHOUR METERS

The apparatus specified and illustrated 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 "CJ3F", "P20F" and "P30F" Flush-Mounted Watthour Meters manufactured by the Sangamo Company Limited, Leaside, Toronto 17, Ontario.

Rating of Apparatus:

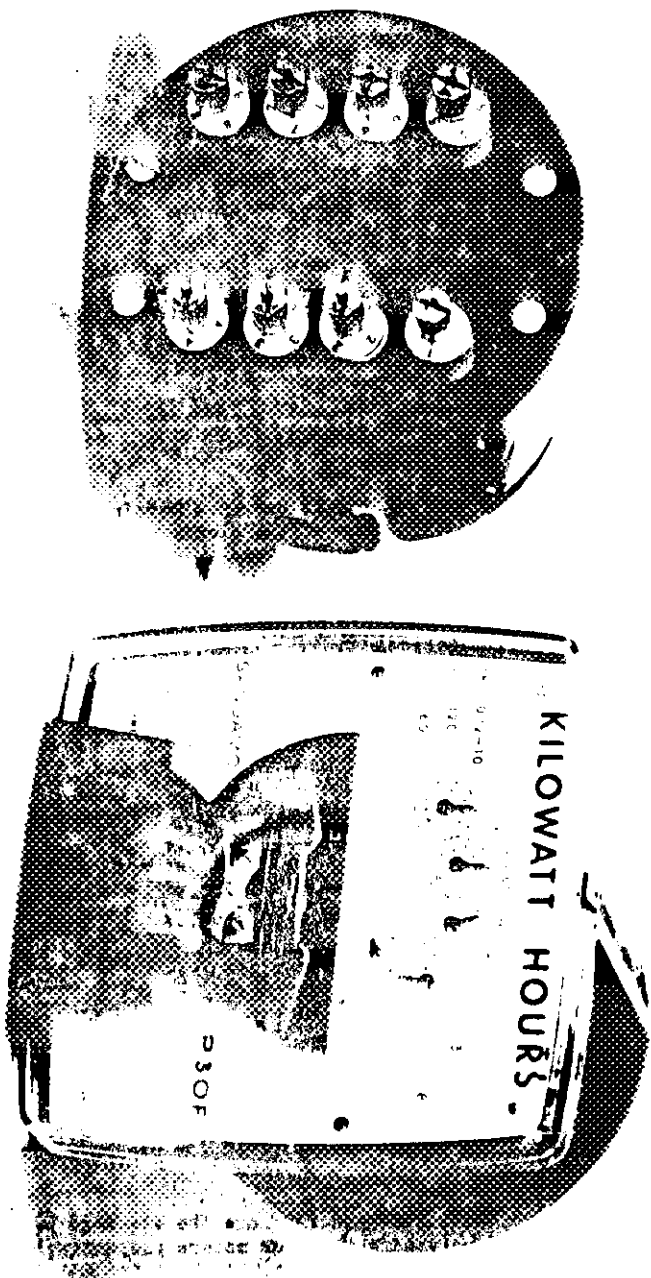
Meter Type	Service	Current Range	Voltage	Meter Kh	Register Ratio
CJ3F	Single phase	0.12 - 10	120	0.3	333 - 1/3
"	2 & 3 wire	"	240	0.6	166 - 2/3
P20F	2 Element	"	120	1.2	166 - 2/3
"	"	"	*240	2.4	83 - 1/3
"	"	"	345	3.6	55 - 5/9
"	"	"	480	4.8	41 - 2/3
"	"	"	600	6.0	33 - 1/3
"	2 1/2 Element	"	120	1.8	111 - 1/9
"	wye	"	240	3.6	55 - 5/9
"	"	"	345	5.4	37 - 1/27
"	2 1/2 Element delta	"	240	2.4	83 - 1/3
P30F	3 Element	"	120	1.8	111 - 1/9

Registers All four circle clock type.  
Frequency 50 and 60 cycle.

\*2-Element 240 volt 60 cycle meters are approved for use on 277 volts without re-calibration.

Description: The types CJ3F, P20F and P30F are the standard CJ3 single phase and P20 and P30 polyphase watthour meters respectively that are already approved under circulars S-EA.483, S-EA.596 and S-EA.574. They differ only in that the meter element is installed in a type F enclosure intended for flush mounting on a switchboard panel. The enclosure consists of a front and rear aluminum casting separated by a circular





SANGAMO TYPES "C13F", "P20F" and "P30F" PUSH-MOUNTED  
PANEL METER MOUNTING METERS

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Description (cont'd) aluminum tube. The front transparent cover is moulded from acrylic and snaps on the front casting. The enclosure is sealed against tampering by two stainless steel straps that are screwed to the acrylic cover, one at the bottom and one at the top. These straps extend along the outside of the enclosure and are welded to cross numbers which are anchored under sealing screws and extend out, covering the flat headed screws that anchor the internal meter frame.

As the nameplate with the serial number is screwed to the front casting, meters of these types will have the serial numbers marked additionally on the grid of the meter.

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