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

STANDARDS BRANCH - DIRECTION DES NORMES

NOTICE OF APPROVAL

E - 82

OTTAWA December 15, 1969.

CANADIAN WESTINGHOUSE TYPE "D4S" SINGLE PHASE WATTHOUR METERS

Ampere Range	Volts	Kh	Wire	Register Ratio (clock & cyclometer)[1] 4 dial x 1	4 dial x 10	5 dial x 1	4/5 dial x 1[2]
2-200	240	7.2	3	-	138 8/9	13 8/9	-
2-100/200[3]	240	7.2	3	-	-	13 8/9	13 8/9
Frequency	60 hz all ratings						

(1) 5-drum cyclometer register Rr 13 8/9 received approval under E-17.

(2) The 4/5 dial x 1 clock register is a 5-dial register with a white disc on the shaft of the highest reading dial, which when removed, changes the register to a straight 5-dial x 1 register as is required when the meter is presented as a 2-200 ampere rating. See circular S-EA.631.

(3) This is a dual rated meter which is electrically identical to the 2-200 ampere rating. It is effectively changed to a 2-100 ampere rating by means of a removable partial nameplate in which case it would have a 4/5 dial x 1 register with the highest reading dial blanked.

Description

The type D4S is a low profile single phase watthour meter and takes a shallower glass cover than the D3S.

The disc is smaller in diameter than that used on the type D3S and is provided with two anti-creep holes and two holes for electronic timing.

The bearing system is essentially that used in the D3S meter. It uses magnetic flotation and has special plastic material for the bearing surfaces of the upper and lower bearing guide pins.

All registers are of the same construction as those used in the D3S meter.

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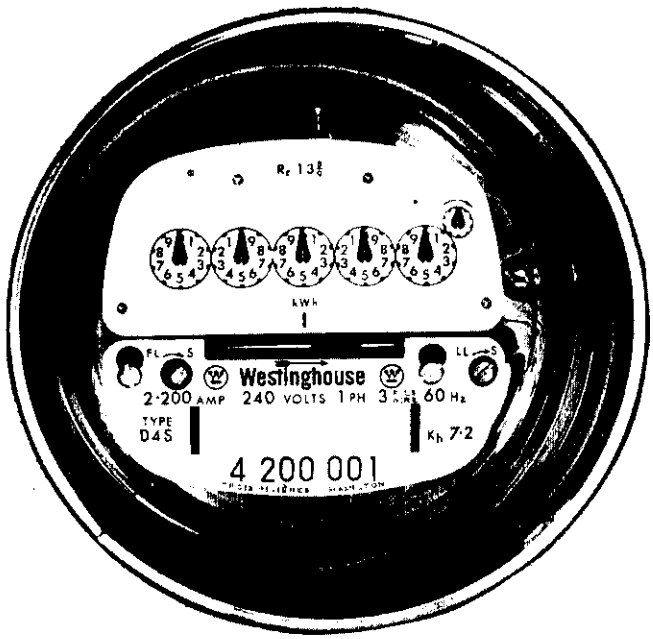

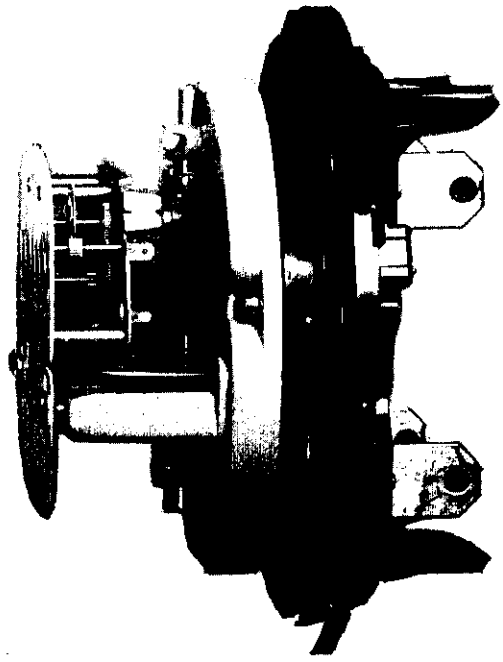

The socket base has two potential disconnects, and has two breathers made up of a sandwich of perforated metal, fibre glass and a metal screen. The cover gasket is continuous.

The separate current and voltage laminations are rivetted to a die cast aluminum grid. The current coils are epoxy coated and the voltage coils are random wound moulded construction.

Full load adjustment is by means of a steel screw acting as a magnetic shunt accessible from the front through a hole at the left hand side of the nameplate.

Low load adjustment is by means of a long screw accessible through a hole at the right hand side of the nameplate. This screw moves an arm which is attached to the low load plate.

Power factor adjustment is by means of a hex head screw accessible through a hole at the back of the base in the centre but as it is considered to be a factory adjustment, this hole is filled by a plastic plug which is snapped into place. This plug is illustrated on page 4 of this circular.

The nameplates will be bilingual as shown in the illustrations.

Approval granted to:

Canadian Westinghouse Company Ltd.,
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