Consumer and Corporate Affairs
Consommation et corporations

Standards
Normes

E-0149

NOTICE OF APPROVAL
AVIS D'APPROBATION

E-149

Ottawa, March 30, 1977

WESTINGHOUSE CANADA TYPES D4B-32F, D4B-33F AND D4B-38F TOTALIZING WATTHOUR METERS IN FLEXITEST CASE

Type D4B-32F

D4B-32F, 120V, 0.12-10A, Kh2.4, Rr 41 2/3, 4 Dial X 1. Two, 2-element meters with discs mounted on a common shaft for totalizing two, 2-or 3-phase 3-wire circuits or four circuits, 2-wire single phase.

Type D4B-33F

D4B-33F, 120V, 0.12-10A, Kh3.6, Rr 27 7/9, 4 Dial X 1. Two, 3-element meters with discs mounted on a common shaft for totalizing two, 3-phase, 4-wire Wye circuits, or three circuits, 3-phase 3-wire Δ or six circuits 2-wire, single phase.

Type D4B-38F

D4B-38F, 120V, 0.12-10A, Kh-3.6, Rr 27 7/9, 4 Dial X 1. Two, 2 1/2-element meters with discs mounted on a common shaft for totalizing 2 circuits, 3 phase 4 wire Wye.

Description

The D4B-32F and D4B-38F totalizing watthour meters use the D4B-2-element and 2 1/2-element watthour meters approved by Notice of Approval E122 and E122-1. E122 approval notice is dated June 21, 1973 and E122-1 is dated August 16, 1976.

The D4B totalizing watthour meters combine two identical D4B type meters using a common disc shaft and a single register to record the total energy. The meter elements are mounted on a removable chasis, which is held in place by two latches.

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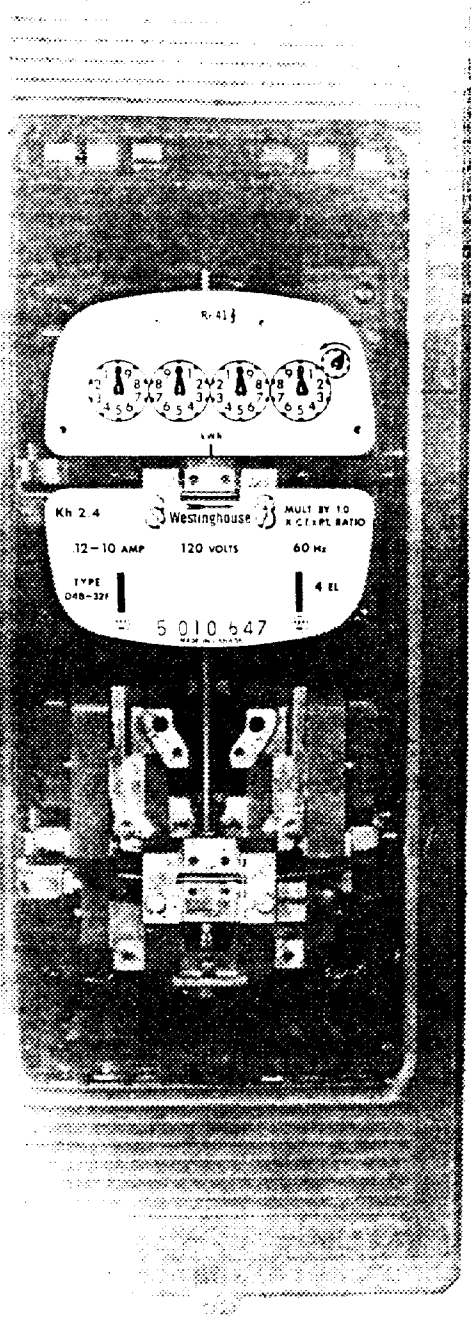
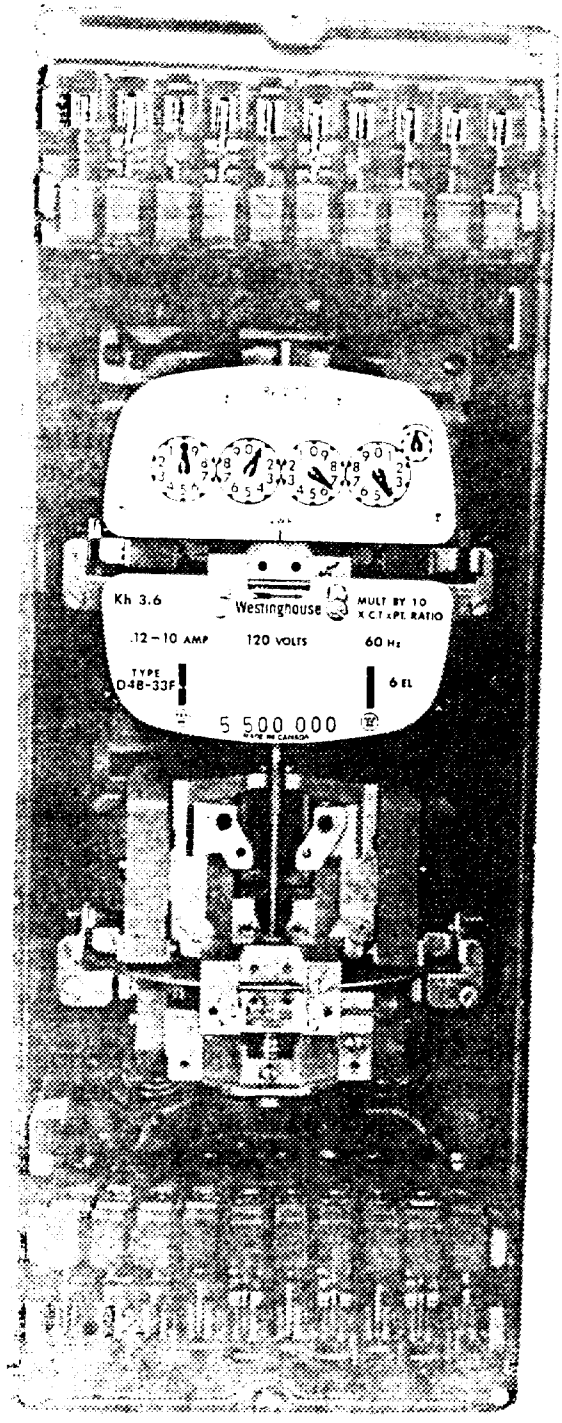

Kh 2.4
Westinghouse
MULT BY 10
12 – 10 AMP
120 VOLTS
60 Hz
TYPE
D48-32F
4 EL
5 010 647


Kh 3.6
Westinghouse
MULT BY 10
12 – 10 AMP
120 VOLTS
60 Hz
TYPE
D48-33F
6 EL
5 500 000

All connections between the meter elements and the case are made through test switches. Circuit closing devices, to prevent open circuiting of current transformers are operated by opening of test switches and by removing the chassis from the case. All rotors are supported by a maintenance-free Magnethrust® bearing system and include a pinion for operating gear-driven pulse initiators.

The adjustment points are the same as those used in single meter configurations. In the 6-element, D4B-33F, the light load adjustors are mounted on the left and right hand stators. Full load adjustors are provided on each of two permanent magnets. Any change should be divided equally between the two. Balance adjustors are provided on all stators. The upper rear stator on the 6-element totalizer is the reference stator to which all the other stators are adjusted. Power Factor adjustment is made by adjusting the P.F. screw for each stator.

Each screw type adjustor is identified by a marking and an arrow with the letter "F" added to show which direction of turning will increase the meter speed.

These meters are approved for use with electronic pulse initiators approved under E-148 and mechanical pulse initiators approved under E-131, in which case the watthours per pulse will be marked on the nameplate.

Meters equipped with a reverse running detent will have the words "Detent Equipped" on the nameplate.

Approval granted to:

Canadian Westinghouse Company Ltd.,
Hamilton, Ontario.

J.L. Armstrong, P. Eng.
Chief, Standards Laboratroy

D.L. Smith, P. Eng.,
Chief, Electricity & Gas Division
Metrology and Laboratory Services

Ref: G 6565-C3-6