

TRADE AND COMMERCE
CANADA

STANDARDS DIVISION

OTTAWA, October 25, 1955.

TYPE APPROVALENGLISH ELECTRIC TYPES "B-21A" AND "B-21S"
DUAL-SERVICE 2-WIRE/3-WIRE WATTHOUR METERS

The apparatus specified and illustrated herein has been duly approved by the Standards Division under the provisions of the Electricity Inspection Act, Chapter 94, R.S. 1952, and may be admitted to verification in Canada.

Apparatus Approved: Types "B-21A" and "B-21S" Dual-Service 2-Wire/3-Wire Watt-hour Meters, manufactured by the English Electric Company of Canada Limited, St. Catharines, Ontario.

Rating of Apparatus:

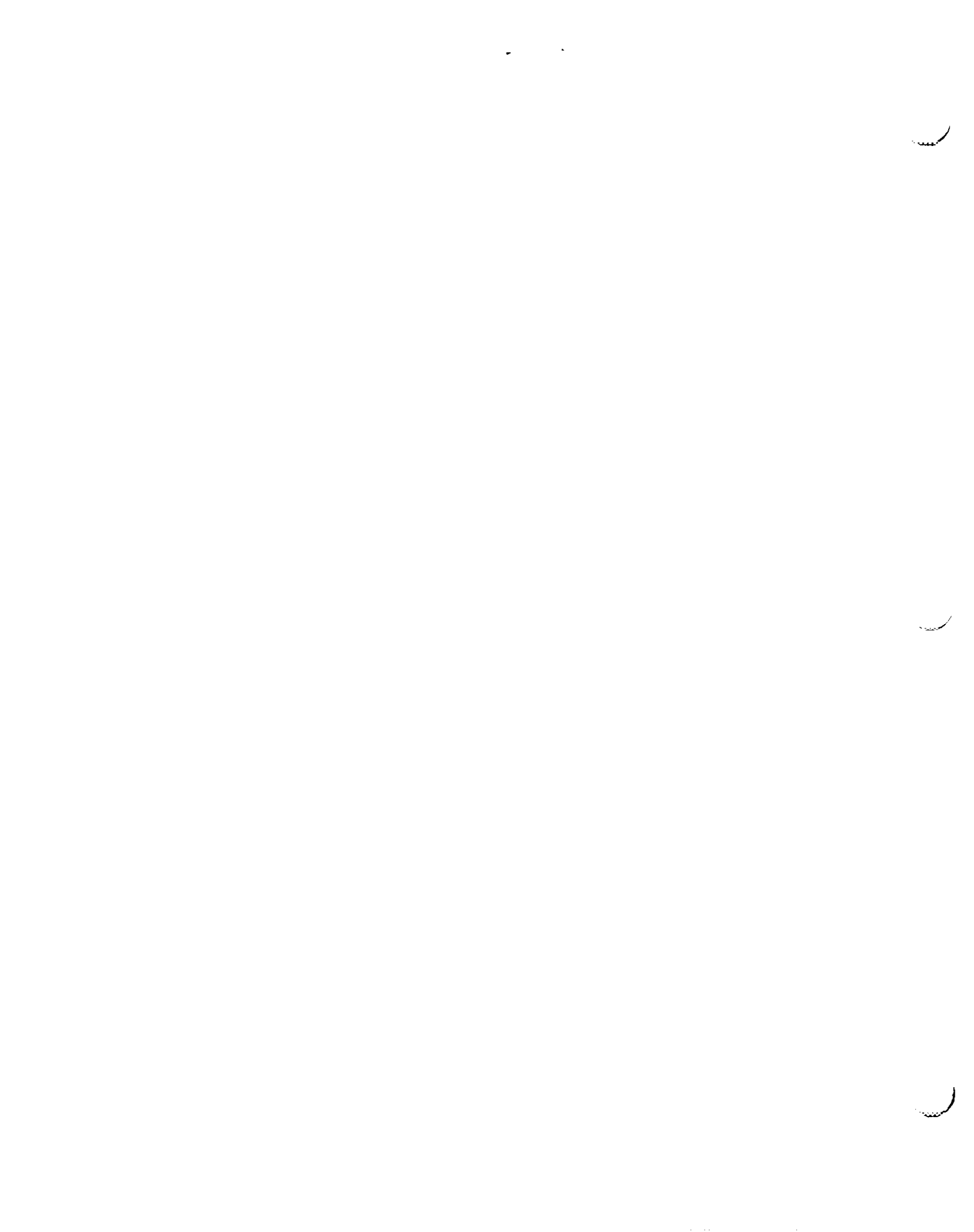
Rated Amperes 15
 Maximum Amperes 60
 Kh 4
 Voltage 115/230 or 120/240
 Frequency 60 cycles

Description: The dual-service meter is designed for use on 2-wire 115-volt or 3-wire 230-volt services. This convertible feature is achieved by fitting a double wound voltage coil to the standard 3-wire 230-volt "B-21" meter. The voltage coil windings are connected in parallel for 115-volt and in series for 230-volt working, so that the coil ampere turns are the same for each connection. This eliminates the need for re-calibration when the conversion is made. When operating on a 2-wire service, one of the current coils is disconnected and the coil terminals insulated by an insulating sleeve. This coil is reconnected when the meter is converted to operate on a 3-wire service. The 'S' type meter is fitted with a small terminal board mounted near the top of the meter to accommodate the extra voltage coil connection. In the case of an 'A' type meter extra links are incorporated in the terminal block. The connections for 2- and 3-wire operation are illustrated on the rear of this circular. The meters are provided with two separate nameplates, one marked for 2- and the other for 3-wire service. These are mounted one behind the other. The 2-wire plate must be destroyed once the meter is connected for 3-wire use, since change back from 3-wire to 2-wire is not approved or permitted.

R. W. MacLean
 R. W. MacLean,
 Director,
 Standards Division.

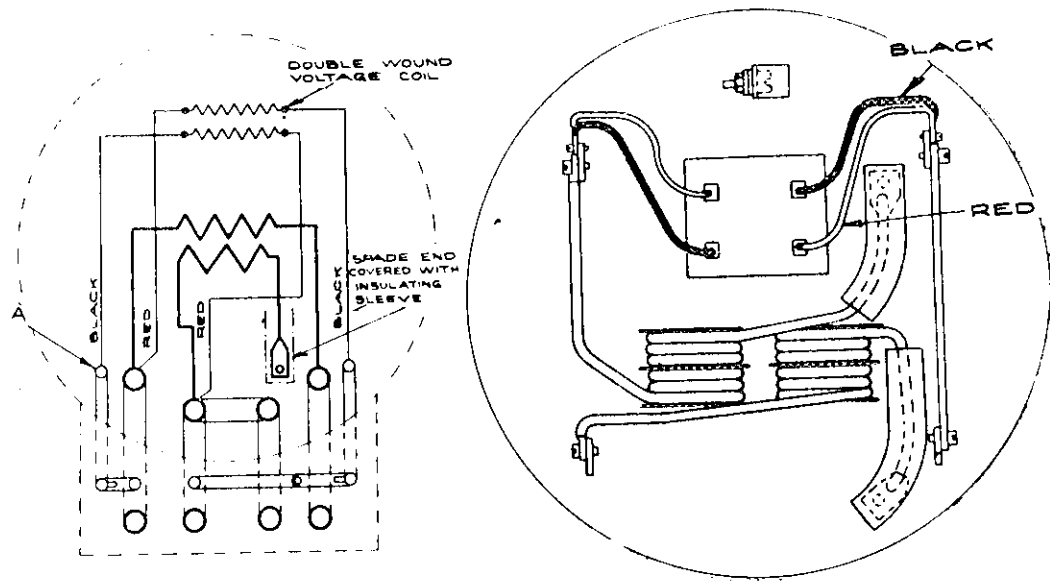
E. F. Power
 E. F. Power,
 Assistant Director (E&G),
 Standards Division.

Ref: A-484



CONNECTION DIAGRAMS FOR "B-21A" AND "B-21S" 2-WIRE/3-WIRE WATTHOUR METERS

(2-Wire Version)



(3-Wire Version)

