

Line-Drop Compensator

For Use With

Type SU Primary Relay

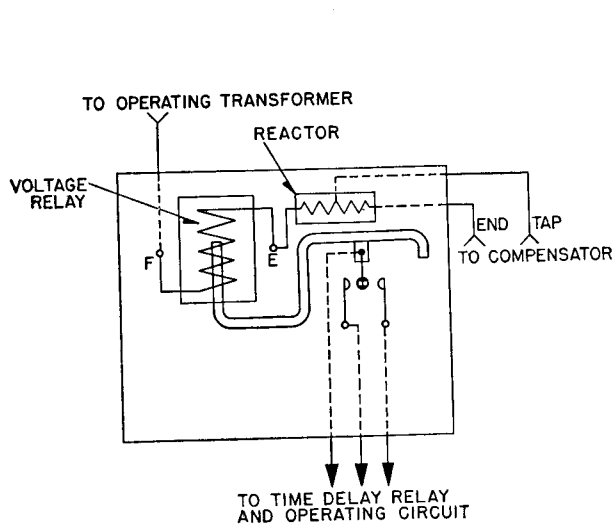


FIG. 1—SU PRIMARY RELAY

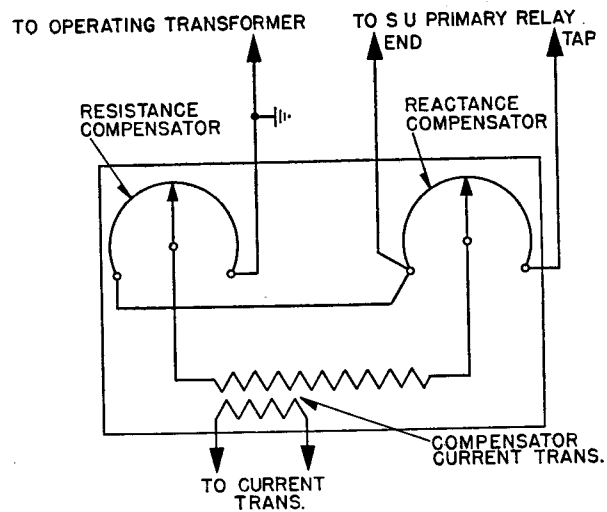


FIG. 2—SU COMPENSATOR

INSTRUCTIONS

GENERAL

The line-drop compensator for use with the type SU primary relay consists of two rheostats, one for resistance compensation and one for reactance compensation connected to the primary relay coil series reactor and a small current transformer, in which the secondary current rating is that required by the line drop compensator, instead of the usual 5 amp. rating.

CONSTRUCTION

The compensator may be mounted on an individual Micarta panel and assembled near the primary relay on its individual panel or the two units mounted on a common panel with the rest of the control equipment. The rheostats for the resistance and reactance compensation are mounted on the rear of the

panel and are operated by a knob having an engraved arrow on the top which indicates on a graduated scale engraved on the front of the panel.

The knob is held by friction in the position at which it has been set and may be operated at any position.

OPERATION

Correct settings for line-drop compensation are most commonly obtained from calculated values of reactance and resistance line drop from the regulator to the load center reduced to full load regulator rating and 120 volts and later corrected if found necessary from voltage charts taken at the load center. Calculated values are likely to be sufficiently accurate in ratio of resistance to reactance drop and the compensation for both should be increased if load center volt-

age falls at periods of high loads and both should be decreased if load center voltage rises at periods of high load.

MAINTENANCE

Since the rheostats are very seldom moved after adjustment, there is small chance of them requiring any maintenance except an occasional blowing out to remove any dust that may have accumulated.

RENEWAL PARTS

In case renewal parts are required order from nearest Westinghouse Electric Corporation Office or Sharon, Pa. Works, giving serial or stock order number of regulator or transformer as will be found on the diagram nameplate of the unit.

Westinghouse Electric Corporation

Sharon, Pa.

Westinghouse Press
Printed in U.S.A.

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