

TYPE HZM DISTANCE RELAY.

WITH

Z3 ELEMENT CURRENT COIL FOR LINE CURRENT

AND 4 AMPERE D.C. CONTACTOR SWITCH

SUPPLEMENTARY INSTRUCTIONS

This relay has standard first and second impedance elements, but the third element has a current coil suitable only for line current (5 amp. Max.) and with a larger number of turns to have a higher impedance range.

CHARACTERISTICS

The third impedance element itself has an impedance range of 2 to 20 ohms. The tap and core screw markings are as follows:

Taps	12	18	27	40	60	90
Core Screw	1.4	1.6	1.8	2.0	2.2	

SETTINGS

The correct tap and core screw settings for an impedance element receiving star current can be determined by the following formula:

$$TS = \frac{17.3Z R_c}{R_v}$$

The nomenclature is the same as in I.L. 41-412.1.

The setting of the auxiliary unit for the ohms displacement of the third element is made according to I.L. 41-412.1 since the auxiliary unit still receives delta current, and only the radius of the Z3 circle is changed by using line current on the Z3 impedance element.

ADJUSTMENT

The mechanical adjustments of the third element beam, contact and balance weight are the same as given in I.L. 41-412.1.

TRIP CIRCUIT SEAL IN SWITCH (CS)

• This contactor switch has a coil for 4 amperes d.c. pickup. The mechanical adjustment is the same as for the standard one ampere switch.

WESTINGHOUSE ELECTRIC CORPORATION

METER DIVISION

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