



INSTALLATION • OPERATION • MAINTENANCE

INSTRUCTIONS

TYPE KD-10 AND KD-11 COMPENSATOR DISTANCE RELAY

CAUTION: Before putting protective relays into service, make sure that all moving parts operate freely, inspect the contacts to see that they are clean and operate the relay to check the settings and electrical connections.

APPLICATIONS

The type KD-10 relay (Fig. 1), is a polyphase compensator type relay which provides a single zone of phase protection for all three phases. It provides essentially instantaneous tripping for phase-to-phase faults, two-phase-to-ground faults, and three-phase faults within the reach setting and sensitivity level of the relay. The relay is interchangeable with KD or KD-4 relays.

The type KD-11 relay (Fig. 1), is similar to the KD-10 relay except that its characteristic impedance circle includes the origin. This relay is usually applied as a carrier start relay in directional comparison blocking schemes but it may also be used for time delay tripping in straight distance relaying. Both KD-10 and KD-11 relays have indicating contactor switches rated 0.2/2.0 amperes. The 2.0 ampere tap must be used, for directional comparison blocking (KA-4) applications. The 2.0 ampere target is recommended for direct trip applications. The 0.2 ampere target is recommended where a 125 or 250 volt lockout relay (WL) is energized and 2.0 ampere where a 48 volt lockout relay is used.

Refer to I.L. 40-208 for a description of how KD-10 relay are used in directional comparison blocking systems.

For time-distance applications the KD-10 and KD-11 relays are used with the TD-4 or TD-52 or

TD-5 dc transistorized timers. See Figs. 19 and 24 for the external schematics for 3 zone protection, using the TD-4 and TD-52 relays, respectively. For further discussion see "External Connections".

Fault detectors are used to supervise the trip circuit for those applications where the line side potentials are used or loss-of-potential supervision is desired. Otherwise, undesired tripping may occur on line oscillations or loss-of-potential. The cylinder type KC-2 or KC-4 relay (2-8 amperes) is recommended. The plunger or other magnetic attraction type relays (e.g. a three unit SC relay or a three unit ITH relay) may be used if the fault detector contacts carry trip coil current rather than auxiliary relay (e.g. auxiliary trip unit, timer, etc.) current.

The SC or ITH relay may also be used if a slow dropout contact (e.g. TX contact of TD-5 timer relay) is available to be connected around the fault detector contacts.

CONSTRUCTION

The type KD-10 and KD-11 relays consists of three single air gap transformers (compensators), three tapped autotransformers, two cylinder type operating units, and an ICS indicating contactor switch.

COMPENSATOR

The compensator, which is designated T (Fig. 2) is a two-winding air gap transformer, it has one primary current winding. The compensators which are designated TAB and TBC are three-winding air gap transformers, they have two

All possible contingencies which may arise during installation, operation, or maintenance, and all details and variations of this equipment do not purport to be covered by these instructions. If further information is desired by purchaser regarding his particular installation, operation or maintenance of his equipment, the local Westinghouse Electric Corporation representative should be contacted.

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