



# INSTALLATION • OPERATION • MAINTENANCE INSTRUCTIONS

## TYPES HU AND HU-1 TRANSFORMER DIFFERENTIAL RELAYS

**CAUTION** Before putting relays into service, remove all blocking which may have been inserted for the purpose of securing the parts during shipment, make sure that all moving parts operate freely, inspect the contacts to see that they are clean and close properly, and operate the relay to check the settings and electrical connections.

### APPLICATION

The types HU and HU-1 relays are high-speed relays used in the differential protection of transformers. These relays can be applied where the magnetizing inrush current to the transformers is severe.

Current transformer ratio error should not exceed 10% with maximum external fault current flowing, or with eight times relay tap current flowing.

The HU-1 relay has three restraint transformers and associated rows of taps; whereas, the HU relay has one less restraint transformer and two rows of taps. Otherwise the two relays are identical. Three-winding banks normally require the HU-1 relay, although the autotransformer application uses the HU if the tertiary is not loaded.

Both the HU or the HU-1 are available with a sensitivity of either 0.30 or 0.35 times tap. The 30%-sensitivity relay satisfactorily handles up to 15% mismatch (e.g.  $\pm 10\%$  transformer tap changing plus 5% CT mismatch). The 35%-sensitivity relay handles as much as 20% mismatch. See Fig. 7 for a comparison of the characteristics of the two sensitivities. Any of the relays may be recalibrated in the field to obtain either characteristic.

Ordinarily the 30%-sensitivity relay will suffice; however, where CT mismatch is abnormally high or where the transformer tap-changing range exceeds  $\pm 10\%$ , this calibration may be too sensitive.

**SUPERSEDES I.L. 41-347.1**

\*Denotes change from superseded issue.

### CONSTRUCTION

The types HU and HU-1 relays consist of a differential unit (DU), a harmonic-restraint unit (HRU), and an indicating contactor switch (ICS). The principal parts of the relay and their locations are shown in Figs. 1 to 4.

#### Differential Unit (DU)

The differential unit of the HU relay consists of two air-gap restraint transformers, three full-wave rectifiers, saturating operating-transformer, and a d-c polar unit.

The HU-1 relay, in addition to the above components, has a third air-gap restraint transformer, and a fourth full-wave rectifier.

Each of the restraint transformers and the operating transformer are provided with taps to compensate for mismatch of line current transformers. These taps are incorporated in the relay in such a manner, that changing a tap on a restraint transformer automatically changes the same tap on the operating transformer.

#### Harmonic-Restraint Unit (HRU)

The harmonic-restraint unit of the HU and HU-1 relays consists of an air-gap operating transformer, a second harmonic block filter, a fundamental block-second harmonic pass filter, two full-wave rectifiers, indicating instantaneous trip unit, varistor, and a d-c polar unit.

Taps are also incorporated in this unit to compensate for mismatch of the line current transformers. Changing a tap on the restraint transformer of the differential unit also changes the tap of this unit.

#### Polar Unit

The polar unit consists of a rectangular shaped

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