



INSTRUCTIONS

GEK- 42002
Insert Booklet GEH-1753

TIME OVERCURRENT RELAY

TYPE IAC99AA001A

TIME OVERCURRENT RELAY

TYPE IAC99AA001A

INTRODUCTION

These instructions are a supplement to instruction book GEH-1753 which is included in this book. The combination of the two are the instructions for the Type IAC99AA001A relay.

The Type IAC99AA001A relay is similar to the Type IAC51B relay except that the contacts of the main induction unit and the instantaneous unit are connected to separate sets of terminals and the standard instantaneous unit is replaced by a high dropout instantaneous unit.

INSTALLATIONMOUNTING

The outline and panel drilling dimensions are shown in Figure 20 of GEH-1753.

CONNECTIONS

The internal connection diagram is shown in Figure 1 of this supplement.

HIGH DROPOUT INSTANTANEOUS UNIT

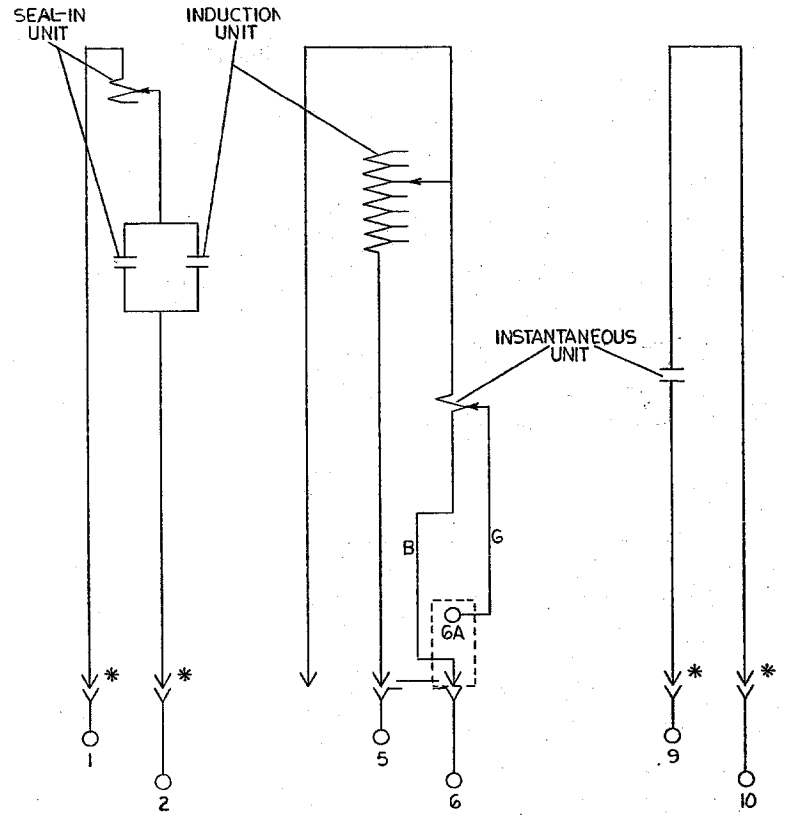
The high dropout instantaneous unit is similar to the standard instantaneous unit except it has no target, and dropout current is approximately 80 - 90% of the pickup current. Figure 2 is a picture of the high dropout unit.

The instantaneous unit has a low and a high range, for example, a 4 to 8 ampere low range and an 8 to 16 ampere high range. The connections for the two ranges are shown in the Internal Connections Diagram, Figure 1.

The adjustable core (A) sets the pickup level for each range. Turning the core down (clockwise, top view) lowers the pickup, while turning the core up (counter clockwise, top view) increases the pickup. Before attempting to turn the core, the locknut (B) must be loosened. After adjusting the core, the locknut must be retightened. When loosening or tightening the locknut, the sleeve (C) to which the shading ring (D) is attached must be held to prevent it from turning. Rotation of the shading ring sets the dropout level and thereby determines the quietness of operation in the picked up position. The core has been factory set to obtain 80% of dropout at the minimum setting and approximately 90% dropout at the maximum setting. Should it be necessary to change the dropout setting, the sleeve (C) to which the shading ring (D) is attached must always be turned in the clockwise direction (top view). This will prevent the sleeve and shading ring assembly from being loosened.

The unit will pickup at the scale-plate marking plus or minus 5 percent with gradually applied current.

These instructions do not purport to cover all details or variations in equipment nor to provide for every possible contingency to be met in connection with installation, operation or maintenance. Should further information be desired or should particular problems arise which are not covered sufficiently for the purchaser's purposes, the matter should be referred to the General Electric Company.



* = SHORT FINGERS

G=GREEN LEAD } POSITION SHOWN IS FOR LOW RANGE. INTER-
 B=BLACK LEAD } CHANGE G & B LEADS FOR HIGH RANGE.

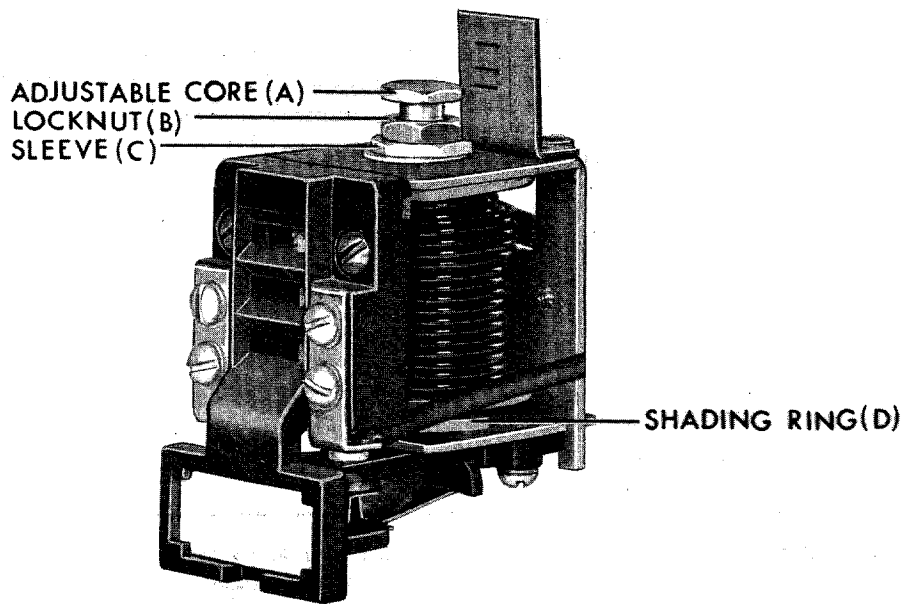


FIG. 2 (8036365) Construction Of The High-Dropout Unit



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