



INSTRUCTIONS

GEK-27871
Insert Booklet- GEH-1788

TIME OVERCURRENT RELAY
TYPE IAC
MODEL 12IAC80M(-)A

INTRODUCTION

This supplement in conjunction with GEH-1788 forms the instructions for relay model 12IAC80M(-)A.

DESCRIPTION

Relay model 12IAC80M(-)A consists of a single IAC type time overcurrent unit with an instantaneous unit and a seal-in unit mounted in a small single ended (S1) case. This relay is similar to model 12IAC53B(-)A described in GEH-1788 except:

1. The internal connections are as shown in figure 1 of this supplement.
2. The induction unit uses wound shading coils on the U-magnet to provide torque control. This control circuit (connected to studs 3 and 4) must be completed in order that there be a phase displacement in flux to rotate the disk. When the shading coil circuit is completed, torque can be developed on the induction disk and the unit will operate on overcurrent. When the shading coil circuit is open, the unit will not operate at current levels up to 20 times tap value.

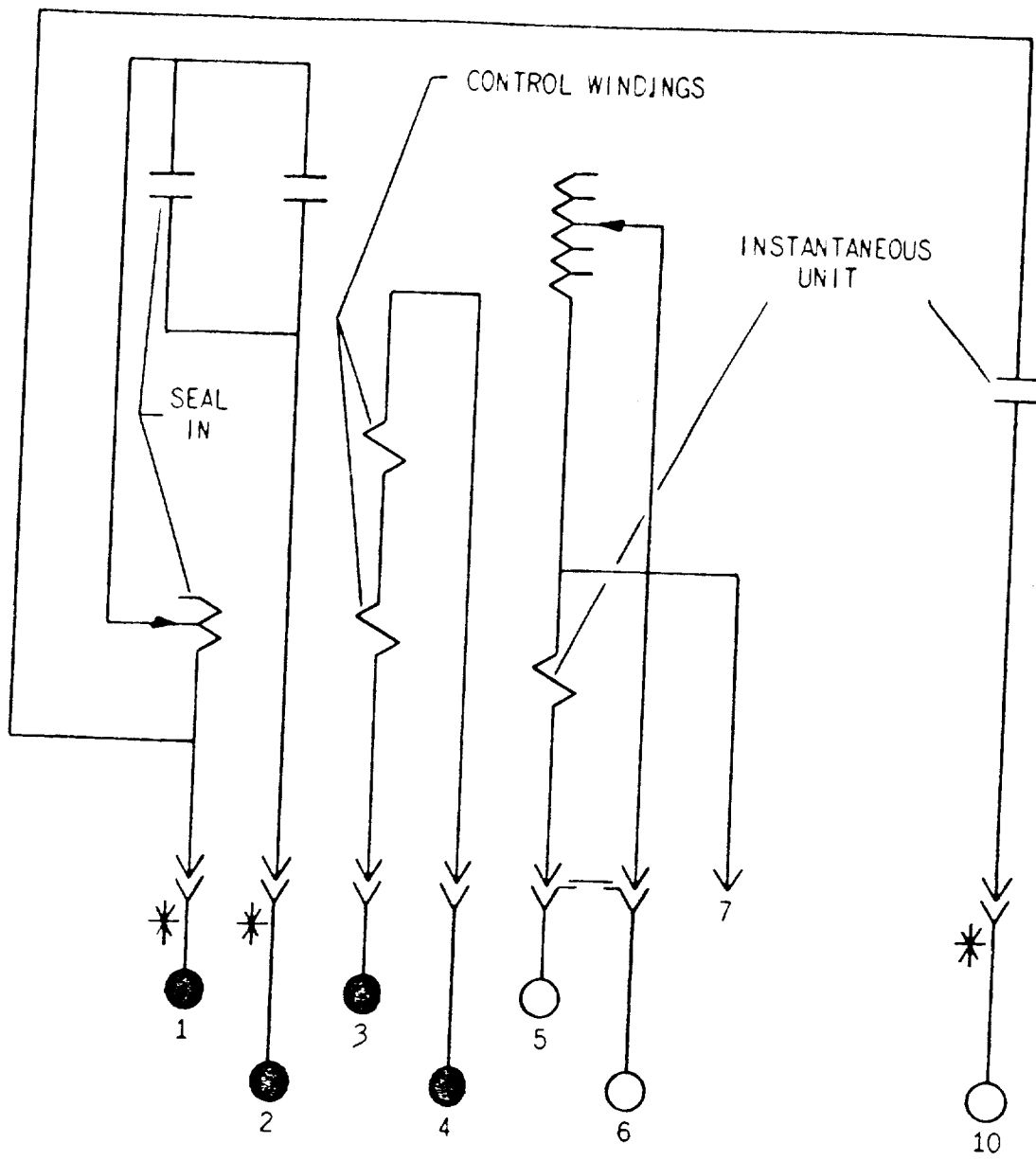
The time current curves, burdens, and ratings of this relay are as given in GEH-1788 for model 12IAC53B(-)A.

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.

POWER SYSTEMS MANAGEMENT DEPARTMENT

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* = SHORT FINGERS

FIG. 1 (0226A7212-0) INTERNAL CONNECTIONS DIAGRAM FOR THE IAC80M RELAY (FRONT VIEW)