



## INSTRUCTIONS

GEK-27870  
Insert Booklet- GEH-1788

TIME OVERCURRENT RELAY  
TYPE IAC  
MODEL 12IAC80L(-)A

### INTRODUCTION

This supplement in conjunction with GEH-1788 forms the instructions for relay model 12IAC80L(-)A.

### DESCRIPTION

Relay model 12IAC80L(-)A consists of a single IAC type time overcurrent unit with a seal-in unit mounted in a small single ended (S1) case. This relay is similar to model 12IAC53A(-)A described in GEH-1788 except:

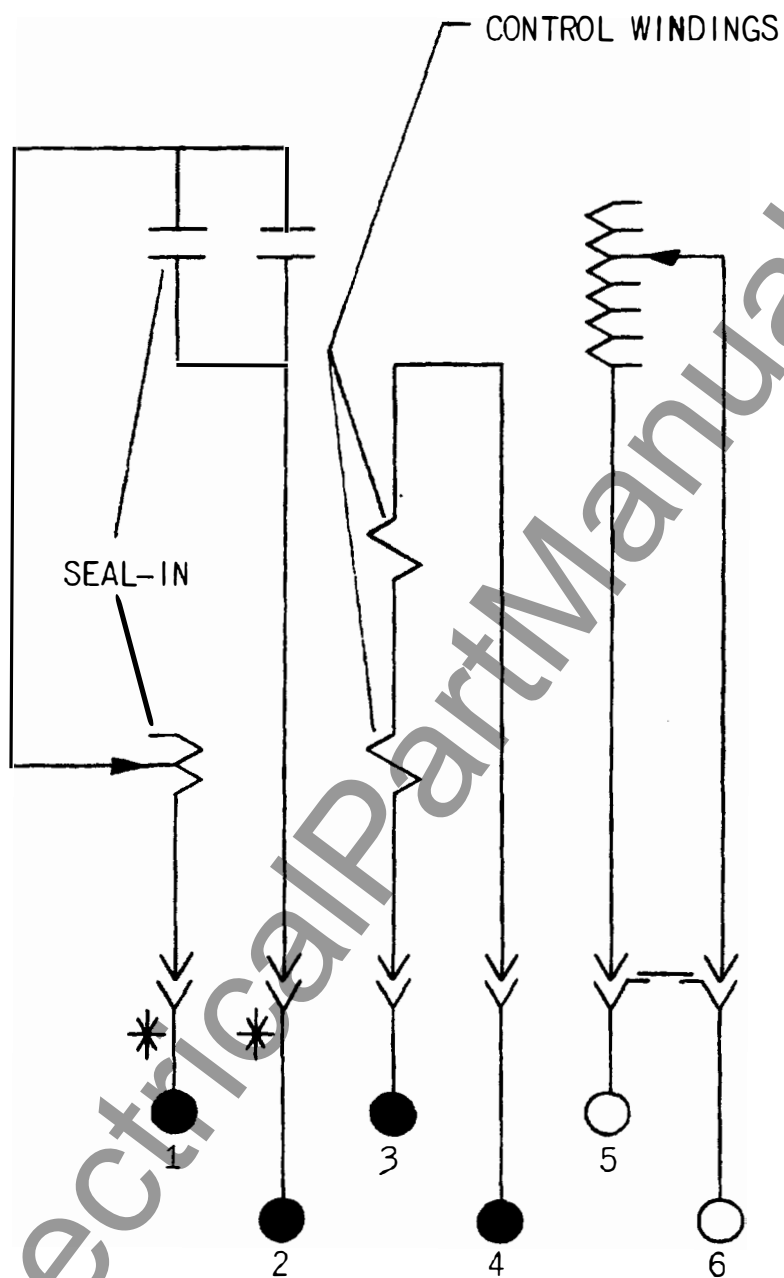
- 1) The internal connections are as shown in figure 1 of this supplement.
- 2) The induction unit uses wound shading coils on the U-magnet to provide torque control. This control circuit (connected to studs 3 and 4) must be completed in order that there be a phase displacement in flux to rotate the 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 12IAC53A(-)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

GENERAL  ELECTRIC



\* = SHORT FINGERS

FIG. 1 (0226A7211-0) INTERNAL CONNECTIONS DIAGRAM FOR THE IAC80L(-)A RELAY (FRONT VIEW)



## INSTRUCTIONS

GEH-1788L

### TIME OVERCURRENT RELAYS

#### TYPES

IAC53A	IAC53R
IAC53B	IAC54A
IAC53C	IAC54B



GENERAL  ELECTRIC