



## INSTRUCTIONS

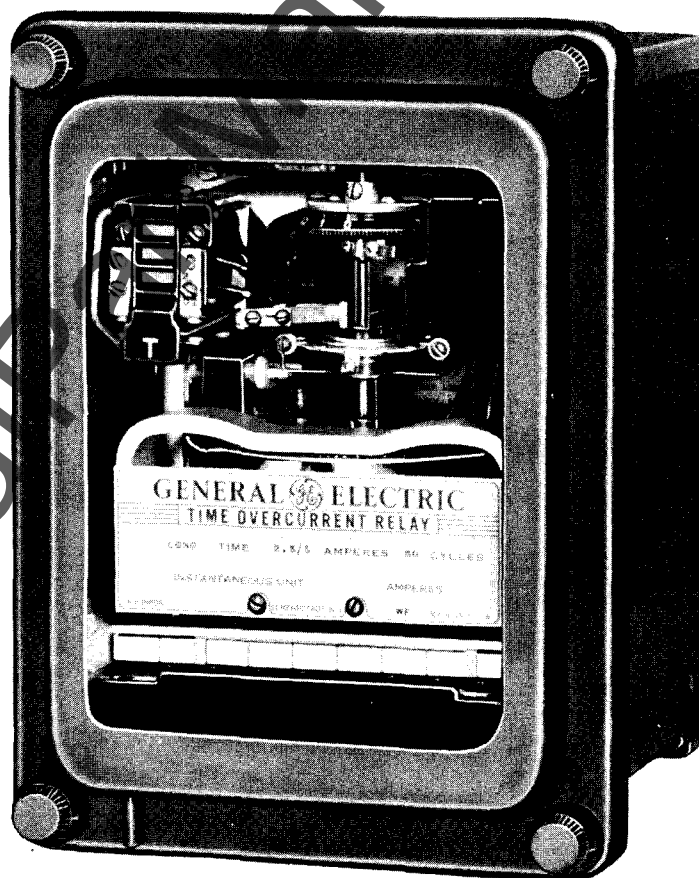
GEI-28818B

SUPERSEDES GEI-28818A

# TIME OVERCURRENT RELAYS

### Types

IAC66A IAC66R  
IAC66B IAC70A  
IAC66C IAC70B  
IAC66J



LOW VOLTAGE SWITCHGEAR DEPARTMENT

**GENERAL**  **ELECTRIC**

PHILADELPHIA, PA.

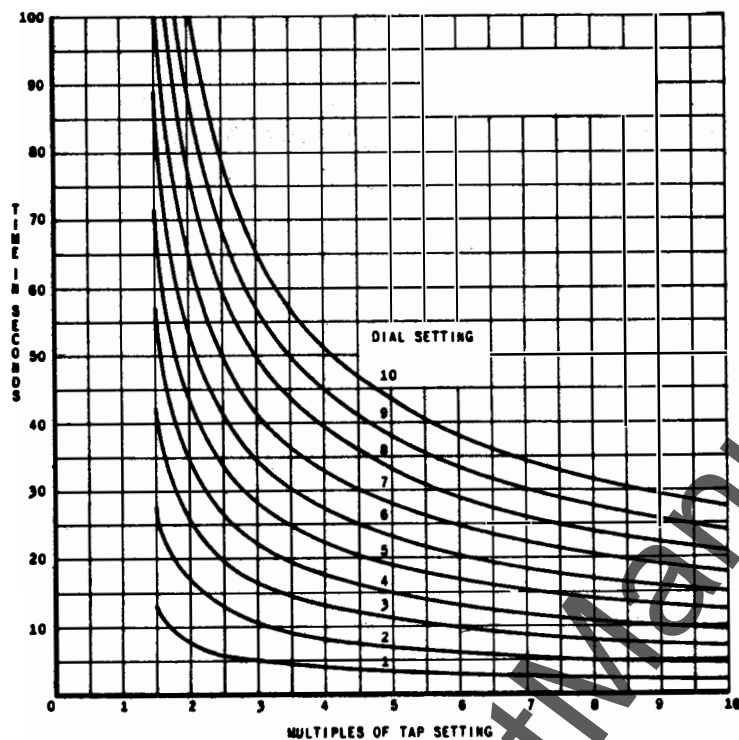


Fig. 1 Time-Current Characteristics

MINIMUM CURRENT REQUIRED TO START ROTATION OF DISK ON TYPE IAC RELAYS WITH LONG TIME CHARACTERISTICS AT VARIOUS TIME DIAL SETTINGS (CONTACTS CLOSE AT ZERO TIME DIAL SETTINGS)

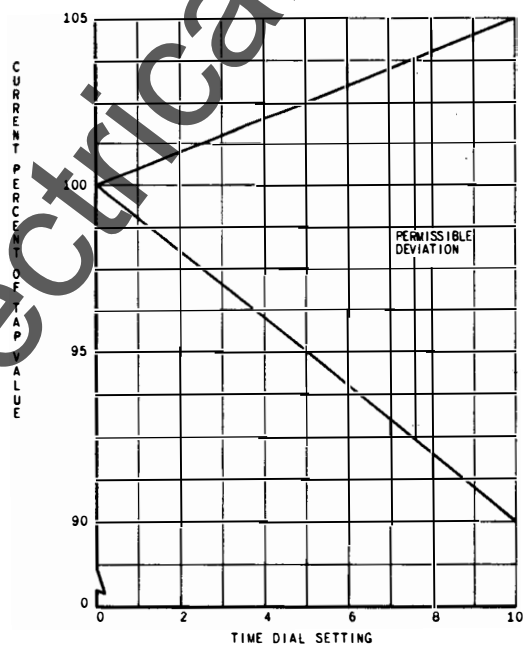


Fig. 2 Permissible Deviation of Current Required to Start Rotation of Disk

Fig. 1 (6277078)

Fig. 2 (6209293)

Cover (8009032)

# TIME OVERCURRENT RELAYS

## TYPE IAC

### INTRODUCTION

These instructions are a supplement to instruction book GEH-1753 which is included in this book. The combination of the two forms instructions for the Type IAC66A, IAC66B, IAC66C, IAC66J, IAC66R, IAC70A and IAC70B relays.

The Type IAC66A, IAC66B, IAC66R, IAC70A and IAC70B relays are similar to the Type IAC51A, IAC51B, IAC51R, IAC52A and IAC52B relays respectively except that some of the parts of the latter have been altered to give the former very long time operating characteristics. Time-current curves are shown in Fig. 1.

The Type IAC66C relay is the same as the Type IAC66B relay except that the time delay and instantaneous unit contact leads are brought out to separate studs.

The Type IAC66J relay is equivalent to three Type IAC66B relays mounted in a single three-unit case.

### APPLICATION

These relays are used primarily for motor overload protection and should be set at 125 to 150 percent of the motor rating.

### RATINGS

The tap values for the 2.5 to 5 ampere range relay are 2.5, 2.8, 3.1, 3.5, 4.0, 4.5 and 5 amperes. Those for the 4 to 8 ampere range relay are 4.0, 4.5, 5.0, 5.6, 6.3, 7.1 and 8.8 amperes.

The coil ratings are listed in the following table:

Relay Range	Continuous Current	Short-Time Current (1 sec.)
4-8	10	385
2.5-5	5	250

### INSTALLATION

The outline and panel drilling dimensions and internal connections figure numbers are given in the following table:

RELAY TYPE	INTERNAL CONNECTIONS		OUTLINE AND PANEL DRILLING
	GEI-2881B	GEH-1753	GEH-1753
IAC66A		Fig. 11	Fig. 19
IAC66B		Fig. 12	Fig. 19
IAC66C	Fig. 3		Fig. 19
IAC66J	Fig. 4		Fig. 20
IAC66R		Fig. 15	Fig. 19
IAC70A		Fig. 16	Fig. 19
IAC70B		Fig. 17	Fig. 19

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.

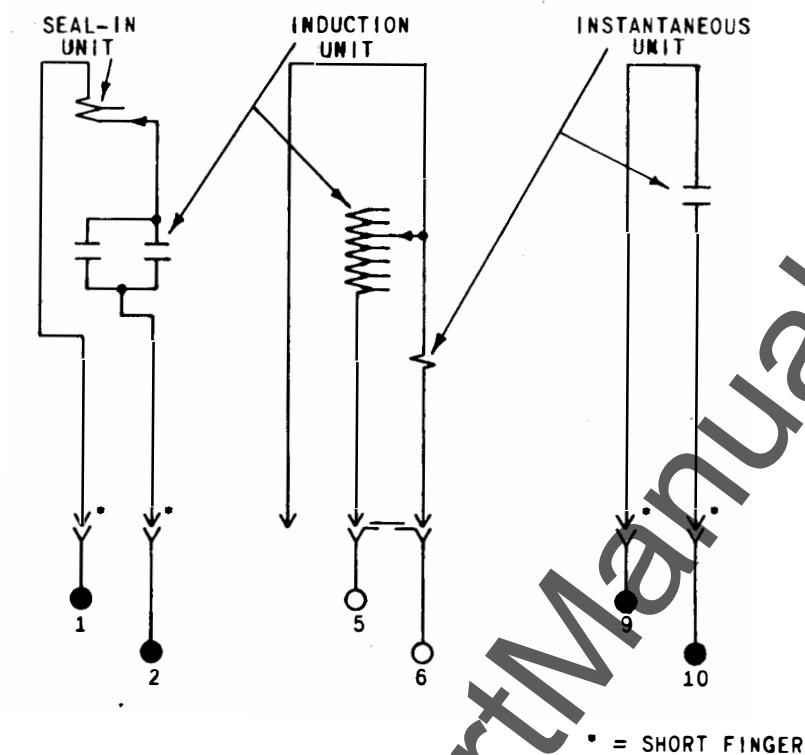


Fig. 3 Type IAC66C Relay, Internal Connections (Front View)

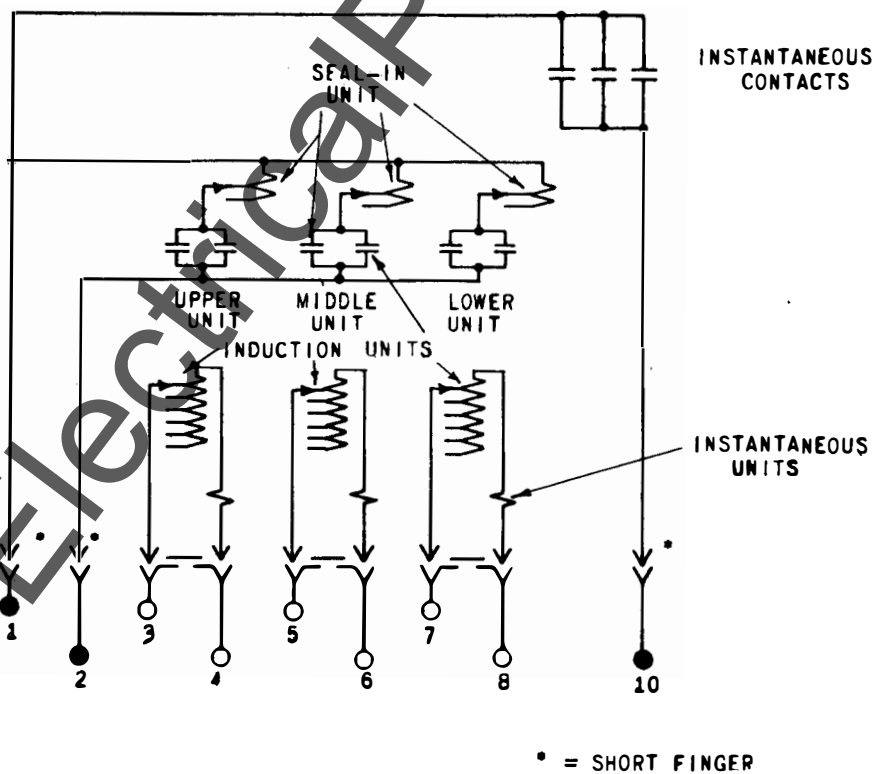


Fig. 4 Type IAC66J Relay, Internal Connections (Front View)