



VOLTAGE RELAY  
TYPE IAV51N(-)A

INTRODUCTION

These instructions plus those included in GEH-1814 form the instructions for the IAV51N(-)A Relay.

DESCRIPTION

The model IAV51N(-)A is similar to the model 121AV51K(-)A described in the attached booklet except that it includes an instantaneous overvoltage unit (IOV).

INSTANTANEOUS UNIT

DESCRIPTION

The instantaneous unit is a small instantaneous hinge-type element which may be mounted on the right front side of the induction unit. Its contacts are normally connected in parallel with the contacts of the main unit. Its coil is connected in parallel with the operating coil of the main unit.

When the voltage reaches a predetermined value the instantaneous unit operates, closing the contact circuit and raising its target into view. The target latches in the exposed position until released by pressing the button beneath the lower left-hand corner of the relay cover.

APPLICATION

The instantaneous unit is used to provide instantaneous tripping for voltage exceeding a predetermined value.

OPERATING CHARACTERISTICS

The instantaneous unit operates over a 180 to 300 volt range and has its calibration stamped on a scale mounted beside the adjustable pole piece.

RATINGS

The instantaneous unit is designed to have a pickup range of 180 to 300 volts. The current-closing rating of the contacts is 30 amperes for voltages not exceeding 250 volts.

CONNECTIONS

The internal connections of the type IAV51N(-)A Relay is shown in Figure 1 of this supplement.

BURDENS

A. Induction Unit

Refer to IAV51K Burdens listed in GEH-1814.

B. Instantaneous Unit

<u>Range</u>	<u>Freq</u>	<u>Volts</u>	<u>Z</u>	<u>PF</u>
180-300	50	180	4910	.98

*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.*

*To the extent required the products described herein meet applicable ANSI, IEEE and NEMA standards; but no such assurance is given with respect to local codes and ordinances because they vary greatly.*

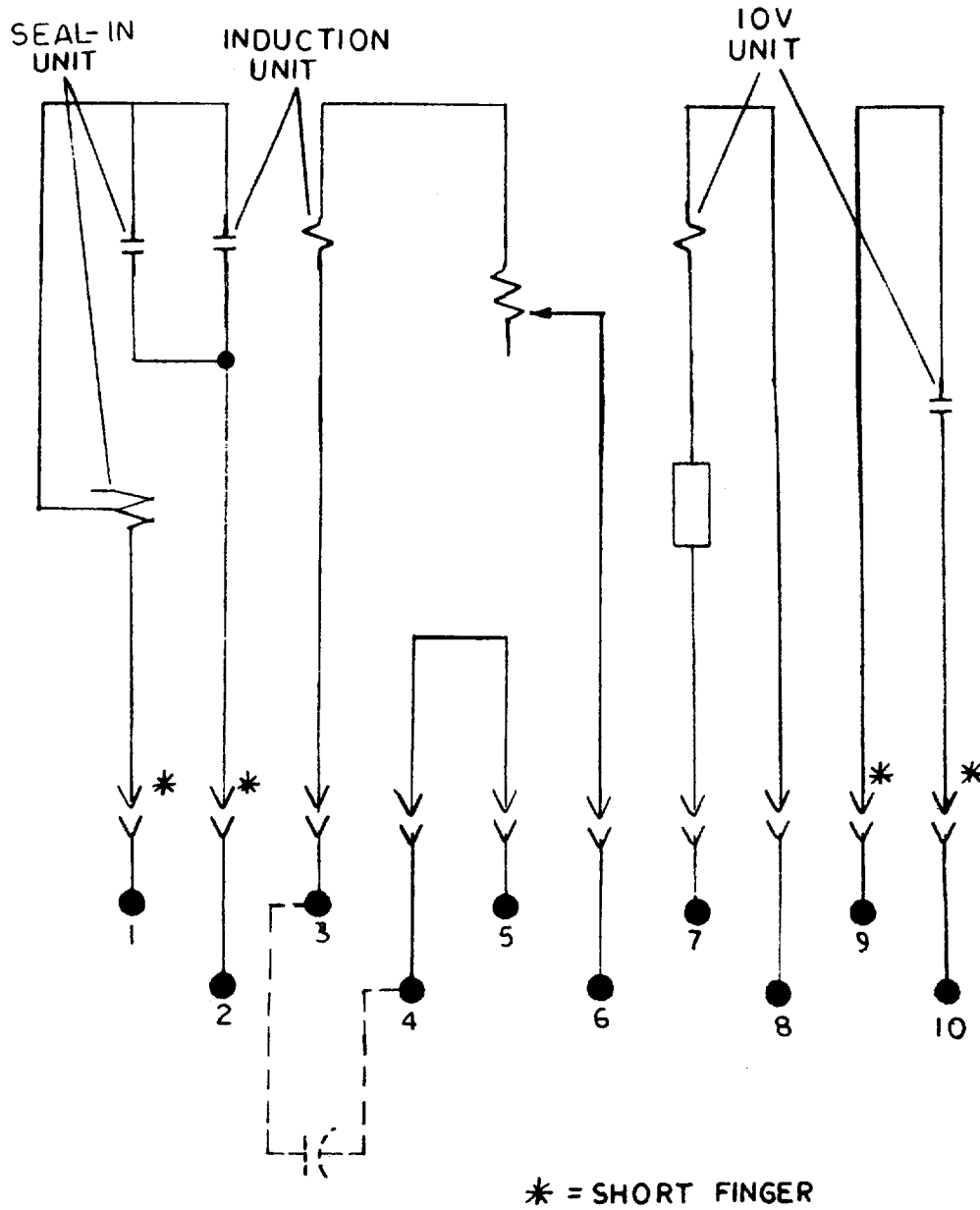


FIG. 1 (0257A8338 ) INTERNAL CONNECTIONS FOR THE IAV51N(-)A RELAY