



INSTRUCTIONS

GEK-27965
Insert Booklet GEK-1275

MHO Distance Relay

Type CEY61A(-)D

POWER SYSTEMS MANAGEMENT DEPARTMENT

GENERAL  ELECTRIC

PHILADELPHIA, PA.

MHO DISTANCE RELAY

TYPE CEY

MODEL 12CEY61A(-)D

INTRODUCTION

This supplement in addition to GEK-1275 constitutes the instruction book for the 12CEY61A(-)D relay.

DESCRIPTION

The CEY61A(-)D relay is similar to the CEY51A(-)D relay except as follows:

1. The CEY61A1D has both N.O. and N.C. contacts and the internal connection diagram is therefore as shown in figure 1 of this supplement (0208A2497). The burden, sensitivity, etc. for the CEY61A(-)D are the same as the CEY51A(-)D having the same ohmic reach.
2. The circuit opening time of the normally closed contacts of the CEY61A relay can be closely approximated from Fig. 7 of GEK-1275, which shows circuit closing times for the CEY51A. The opening time of the N.C. contact will be approximately 4 milliseconds less than the values shown in Figure 7.
3. The included instructions GEK-1275 provide information on the sensitivity of the CEY51A relay, for example Table I and the curves of Fig. 2. In the case of the CEY51A this information defines the closing point of a normally open contact. The normally closed contacts of the CEY61A have been adjusted so that the open at the values shown in Table I and Figure 2 of GEK-1275.

APPLICATION

The CEY61A relay was designed for use in a breaker failure scheme to indicate the presence of a three phase fault. For that particular application the opening of all three normally closed contacts wired between studs 3 and 4 is construed to indicate the presence of a three-phase fault. It should be recognized that all three phases can operate for double-phase-to-ground faults close to the relay location if the zero sequence impedance of the system is low. These conditions approximate a three-phase fault.

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.

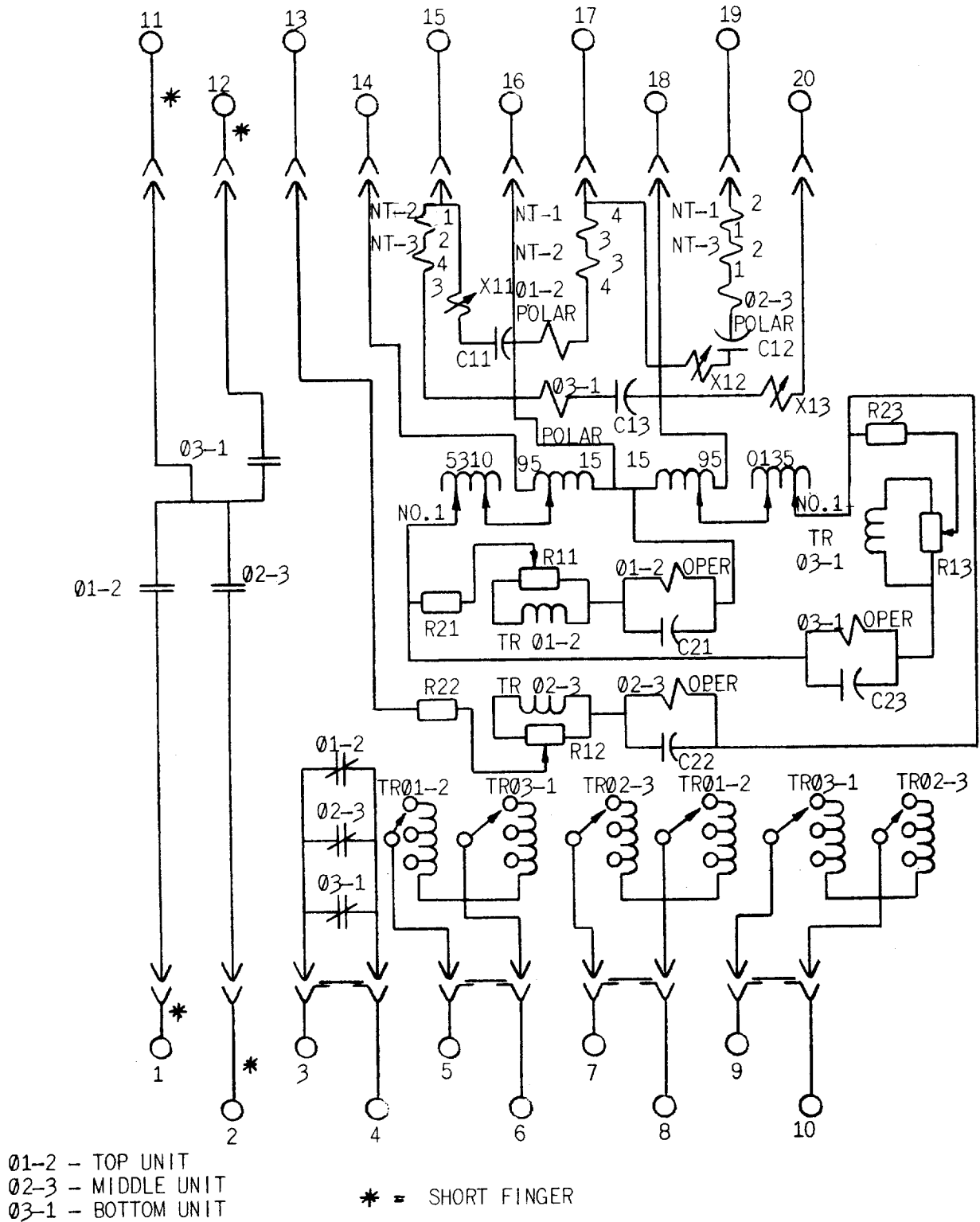


FIG. 1 (0208A2497-0) Internal Connections Diagram For The CEY61A(-)D Relay