



INSTRUCTIONS

GEI-74669

OFFSET MHO RELAY

CEB16B

POWER SYSTEMS MANAGEMENT DEPARTMENT

GENERAL  ELECTRIC

PHILADELPHIA, PA.

NOTES

OFFSET MHO RELAY CEB16B

INTRODUCTION

The CEB16B relay is similar to the CEB17A relay covered by the included instructions GEH-2043. The combination of the two books forms instructions for the CEB16B relay.

DESCRIPTION

The CEB16B does not have a normally closed contact on any of the three units. The circular characteristics of each unit may be shifted 0.2 ohm at an angle of 90 degrees lead.

RATINGS

The units are available with any one of the following ranges; 1-10, 2-20, and 3-30 ohms, phase-to-neutral at 75 degrees maximum torque angle. If the maximum torque angle is changed to 60 degree, the phase-to-neutral ohmic ranges will be changed as indicated in Table I.

TABLE I

OHMIC RANGE AT 75°	OHMIC RANGE AT 60°
1-10 ohms	0.85 - 8.5 ohms
2-20 ohms	1.7 - 17 ohms
3-30 ohms	2.5 - 25 ohms

CHARACTERISTICS

A typical time curve for the CEB16B relay is shown in Fig. 1 of this supplement.

The ranges of current over which the units are adjusted to have correct directional action when the polarizing voltage is 3 volts and the current is at the 75 degree angle of maximum torque are listed in Table II.

TABLE II

OHMIC RANGE (OHMS)	CURRENT RANGE (AMPS)
1-10	4.5-60
2-20	2.25-60
3-30	1.5-60

BURDEN

The current burden imposed on each current transformer at 5 amperes and 60 cycles is shown in Table III.

TABLE III

OFFSET	RANGE	WATTS	VARS	VA
NO	1-10	0.48	0.1	0.49
	2-20	0.93	0.35	0.99
	3-30	1.4	1.4	1.96
YES	1-10	0.7	0.32	0.77
	2-20	1.15	0.58	1.29
	3-30	1.62	1.02	1.91

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.

GEI-74669 Offset Mho Relay Type CEB

CONNECTIONS AND MOUNTING

The internal connection diagram is shown in Fig. 2 of this supplement. The outline and panel drilling diagram for the CEB16B is shown in Fig. 15 of the included instruction book.

ADJUSTMENTS

The control spring of each unit should be adjusted to have just enough tension to return the moving contact to its backstop when the relay is de-energized. This should be done when the relay is in a level and vertical position.

The contact gap on each mho unit should be approximately 0.020 inches.

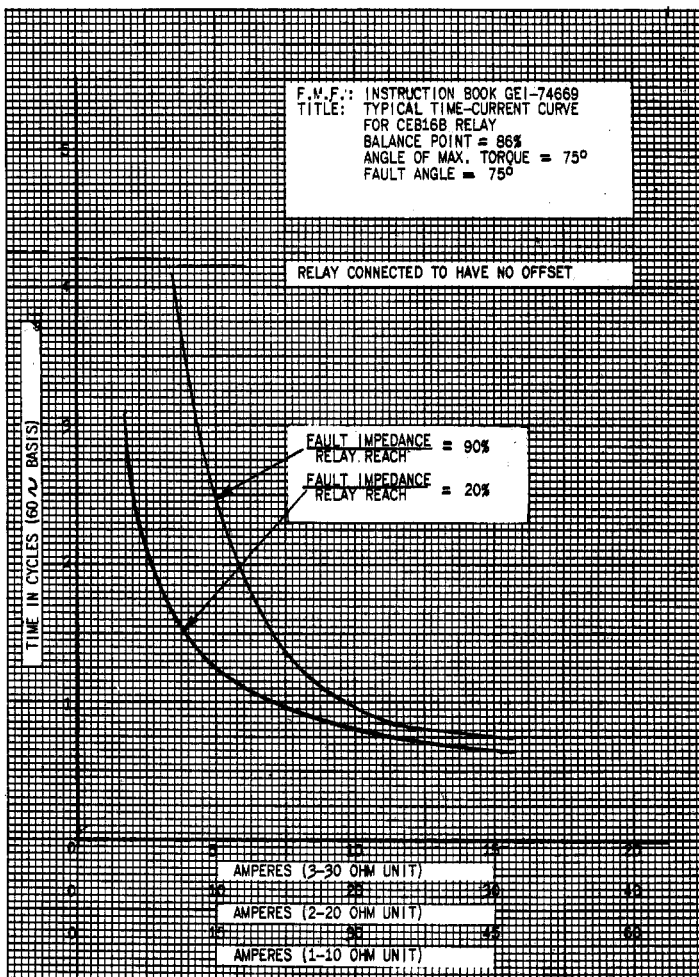


Fig. 1 Type Time Curves for CEB16A Relay

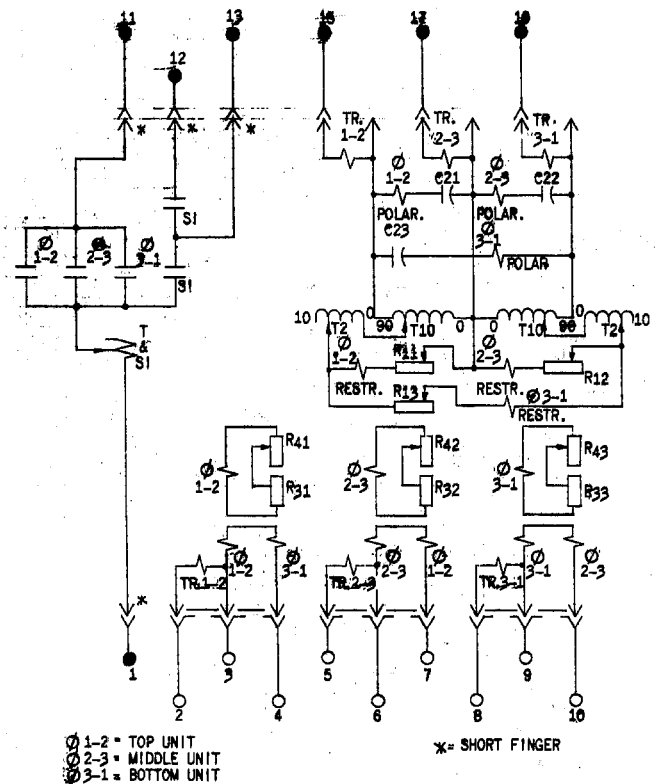


Fig. 2 Internal Connection Diagram for CEB16 Relay (Front View)

Fig. 1 (0127A9485-0)

Fig. 2 (0127A9416-0)