INSTRUCTIONS

GEK-49827A
INSERT BOOKLET GEK-45375

OVERCURRENT RELAYS

TYPES

IFC51AD and 51BD
IFC53AD and 53BD
IFC77AD and 77BD

GENERAL ELECTRIC

OVERCURRENT RELAYS
TYPES
IFC51AD and 51BD
IFC53AD and 53BD
IFC77AD and 77BD

INTRODUCTION

These instructions plus those in the included book, GEK-45375, form the instructions for these relays.

DESCRIPTION

The Types IFC51AD, IFC53AD and IFC77AD covered by these instructions are similar respectively to the IFC51A, IFC53A and IFC77A in the included instructions except that the target seal-in units have two electrically separate contacts. The Types IFC51BD, IFC53BD and IFC77BD are similar respectively to the IFC51B, IFC53B and IFC77B except that each target seal-in and instantaneous unit has two electrically separate contacts. The internal connections are included in these instructions as tabulated below:

Types	Figure
IFC51AD, -53AD, -77AD	1
IFC51BD, -53BD, -77BD	2

APPLICATION

The application areas of these relays are the same in all respects to those covered by the APPLICATION section in the included instructions, GEK-45375. Note that the second contact on the seal-in unit, and the instantaneous overcurrent unit when present, is intended for local alarm and/or remote indication as shown on the typical external connections in Figure 3 of these instructions.

All other sections of the included book, GEK-45375, also apply to these relays.

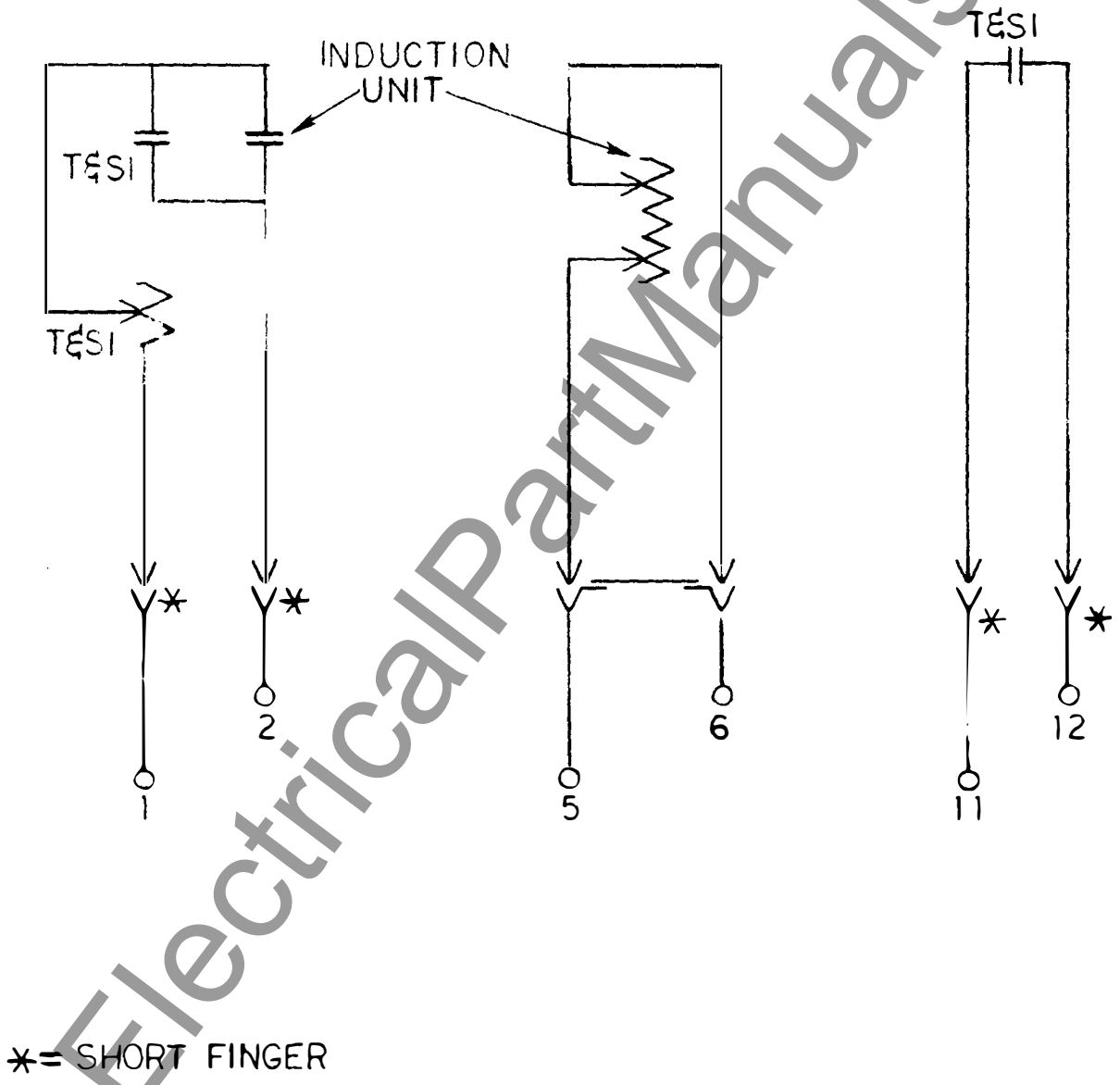
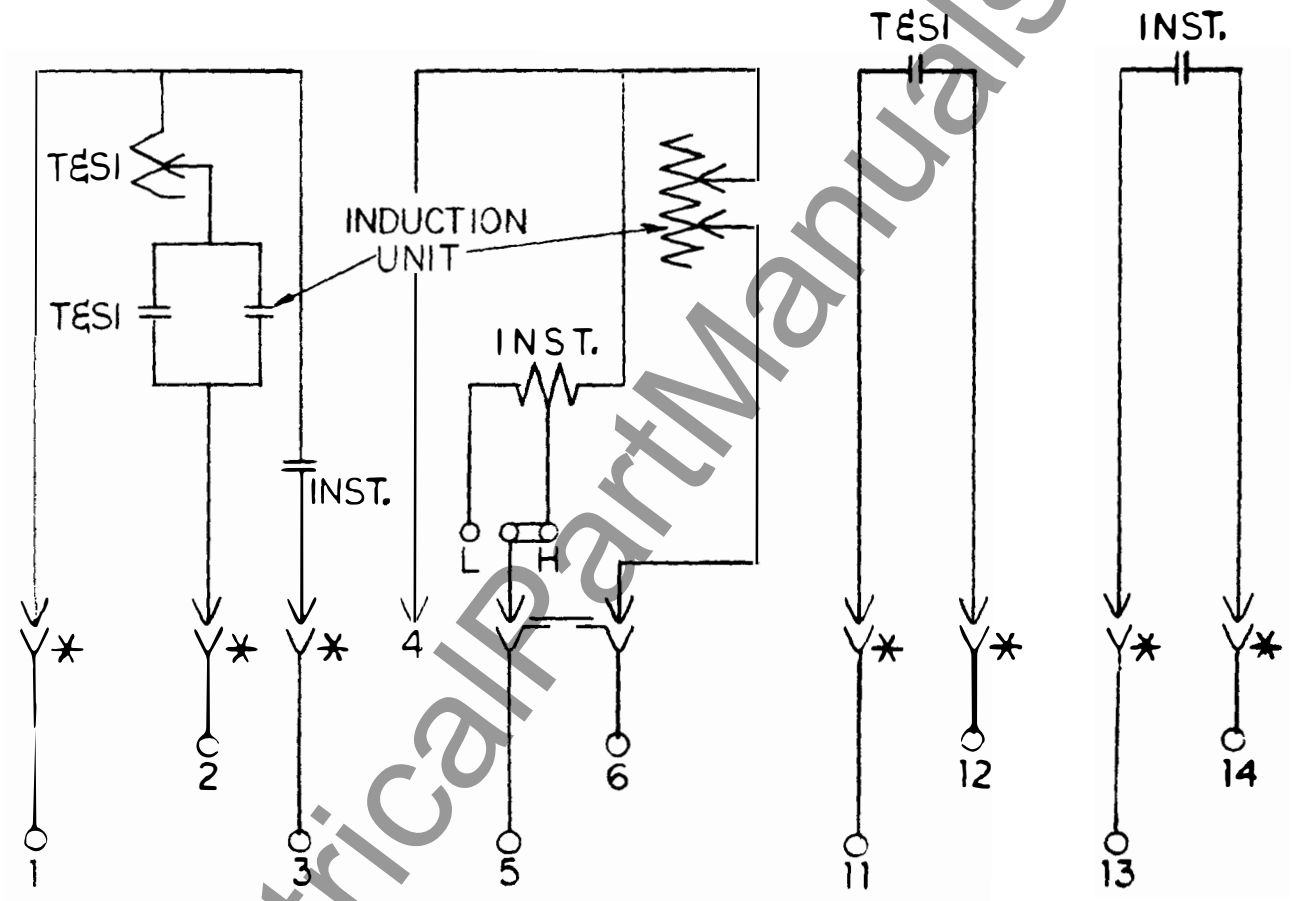


FIG. 1 (0208A8514-1) INTERNAL CONNECTIONS FOR RELAY TYPES IFC51AD, IFC53AD AND IFC77AD - FRONT VIEW.



INSTANTANEOUS SETTINGS:

SET LINK TO "H" FOR HIGH RANGE AND TO "L" FOR LOW RANGE. LINK SHOWN IN HIGH RANGE POSITION.

*=SHORT FINGER

FIG. 2 (0208A8515-1) INTERNAL CONNECTIONS FOR RELAY TYPES IFC51BD, IFC53BD AND IFC77BD - FRONT VIEW.

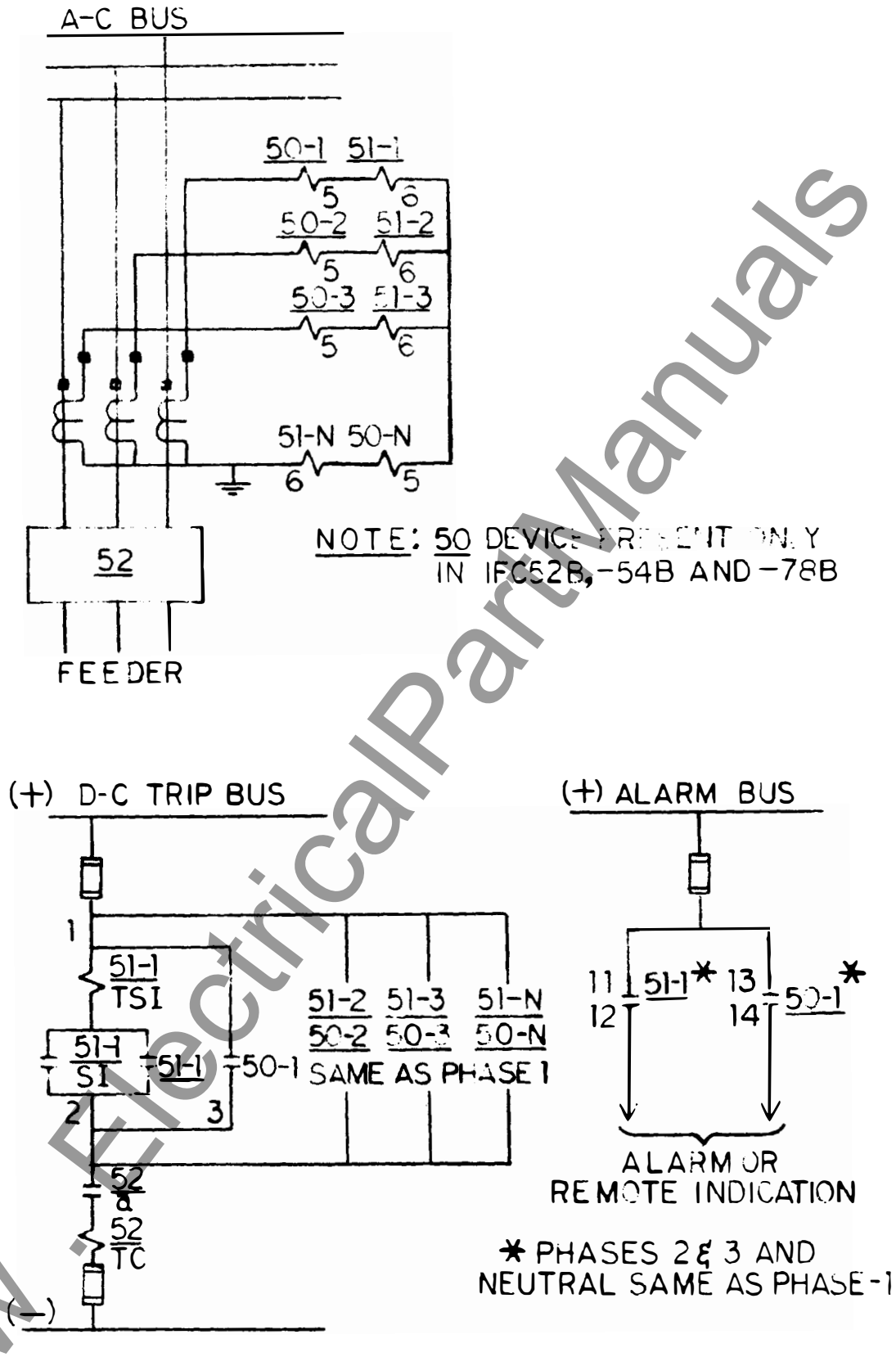


FIG. 3 (0275A1903-0) EXTERNAL CONNECTIONS OF FOUR IFC RELAYS USED FOR MULTI-PHASE AND PHASE TO GROUND FAULT PROTECTION OF A 3-PHASE CIRCUIT.

* TABLE I

IFC TOC SETTINGS
TAPS AVAILABLE

	0.5	0.6	0.7	0.8	1.0	1.2	1.5	2.0	2.5	3.0	4.0
IFC 51AD	A	A	B	B	C	C	D	D	E	E	F
IFC 51BD	M	L	L	K	K	J	J	H	H	G	G
IFC 53AD	A	A	A	A	A	A	B	B	A	A	E
IFC 53BD	J	H	G	F	E	D	E	D	C	B	F
IFC 77AD	A	A	A	A	A	A	E	A	A	C	E
IFC 77BD	J	H	G	F	E	D	H	C	B	D	F

* Revised since last issue

GENERAL ELECTRIC COMPANY
POWER SYSTEMS MANAGEMENT BUSINESS DEPT.
MALVERN, PA 19355

GENERAL ELECTRIC

(6/91) (1300)