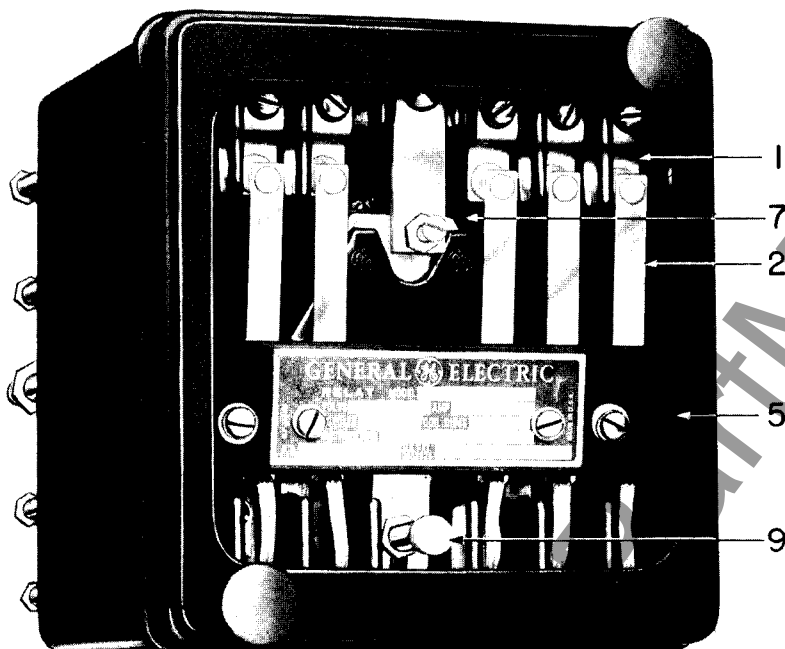


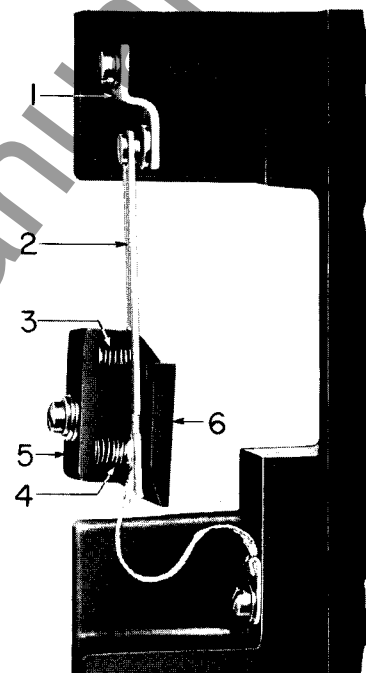
## RENEWAL PARTS

### TYPE HFA AUXILIARY RELAYS



(PHOTO 854306)

**Fig. 1. Typical HFA relay**



(PHOTO 854611)

**Fig. 2. Cutaway view of HFA  
contact arrangement**

#### ORDERING INSTRUCTIONS

1. Always specify the complete nameplate data of the relay.
2. Specify the quantity, catalog number (if listed), reference number (if listed), description, and this bulletin number.
3. Standard hardware such as screws, bolts, nuts, washers, etc., is not listed in this bulletin. Such items should be purchased locally.
4. For prices, refer to the nearest office of the General Electric Company.

When ordering renewal parts, give quantity, catalog number, description of each item required, and complete nameplate reading.

GENERAL  ELECTRIC

## TYPE HFA RELAYS

There are several varieties of HFA relays and each variety is, in turn, available in several ratings. As indicated in the table below, renewal parts are relatively few and, with the exception of coils, common to all forms of these relays. Because of the great number of possible combinations of relay form and rating, however, a listing of coils for individual relay models would cover many pages. To simplify the listing, therefore, coils are identified by an "index" number. This number is not the actual coil drawing number, but is a cross-reference between relay model number and coil drawing number. Note that relay model numbers in the main heading of the table include the symbol §. This symbol represents the relay "form number", whatever it may be, which varies with the rating. The symbol § also represents the coil index "group number", which is identical to the relay "form number".

Footnotes † and § explain the method of determining the complete coil reference. When an order for a coil is received at the factory the engineering section will select the proper coil drawing number from the index number ordered. The actual coil drawing number, or numbers - not the index number - will appear on the shipping papers.

	Quantity Required for Model -																Catalog Number	Description
Ref. No.	12HFA11A\$, 11A\$E, 11A\$F 11B\$, 11B\$E, 11B\$F 11C\$, 11C\$E, 11C\$F 11D\$, 11D\$E, 11D\$F 11E\$, 11E\$E, 11E\$F 11F\$, 11F\$E, 11F\$F	12HFA13A\$, 13A\$E, 13A\$F 13B\$, 13B\$E, 13B\$F 13D\$, 13D\$E, 13D\$F 13E\$, 13E\$E, 13E\$F 13F\$, 13F\$E, 13F\$F 13H\$, 13H\$E, 13H\$F 13J\$, 13J\$E, 13J\$F	12HFA14B\$, 14B\$E, 14B\$F 14C\$, 14C\$E, 14C\$F 14D\$, 14D\$E, 14D\$F 14E\$, 14E\$E, 14E\$F 14H\$, 14H\$E, 14H\$F 14J\$, 14J\$E, 14J\$F 14K\$, 14K\$E, 14K\$F	12HFA20A\$, 20A\$E, 20A\$F 20B\$, 20B\$E, 20B\$F 12HFA25B\$, 25B\$E, 25B\$F 25C\$, 25C\$E, 25C\$F														
*1	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6118675G2	Stationary contact
*2	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6118675G1	Moving contact with lead
3	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6078994	Fulcrum spring (upper)
4	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6078997	Fulcrum spring (lower)
5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	6128771P9	Contact support (front)
6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	6128771P8	Contact support (back)
*7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	†6400824G\$	Operating coil
*7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	†6400825G\$(Oper.)	Operating coil
*†8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	†6400825G\$(Reset)	Reset coil
*7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	†6400826G\$	Operating coil
9	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	6140437	Adjusting screw
†10	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	6078993	Tension spring for Ref. 9

\*Recommended for stock for normal maintenance.

†Not shown.

‡Coil index number. Caution: When ordering 6400825G§ be sure to include either "(Oper.)" or "(Reset)" following the index number, as indicated, since both coils are included under the same reference. If the note is omitted both operating coil and reset coil will automatically be furnished. See footnote§.

\$Represents relay "form number" and coil "group number", which are identical. See footnote ‡.

**Example 1:** Operating coil for relay model 12HFA11A14 is 6400824G14.

**Example 2:** Operating coil for relay model 12HFA14H9E is 6400825G9 (Oper.).

Reset coil for relay model 12HFA14H9E is 6400825G9 (Reset).

**Handbook Reference 7280**

**LOW VOLTAGE SWITCHGEAR DEPARTMENT, GENERAL ELECTRIC COMPANY, PHILADELPHIA, PA.**