

Renewal Parts

Type IAV Voltage Relays

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.
5. **The upper or lower terminal block will be supplied with contact fingers in all positions and loose shorting bars. These parts are to be used as required.**

How to Use this Bulletin

1. Relay models covered by this bulletin are listed in the left-hand column of the tabulation beginning on page 3.
2. To find the catalog number of a renewal part:
 - A. Referring to the illustrations on pages 1 and 2, find the reference letter for the required part.
 - B. Locate the reference letter and/or description of the part in the column headings at the top of the tabulation.
 - C. Note the numeral at the intersection of the reference letter column and model number line. This numeral, when added to the reference letter, provides the key to the catalog number of the part, which is listed in the table on the page indicated.

Example:

To find the catalog number of the Operating Coil Assembly for the Model 12IAV51A1A relay:

- A. Figure 3 on page 2 indicates that the reference letter for the Operating Coil Assembly is "A".
- B. Locate reference letter "A" in the column headings on page 3.
- C. At intersection of the "A" column and the Model 12IAV51A1A line find the numeral 11. The complete reference symbol is therefore, "A-11". Referring to page 6 in the catalog, the part number is found to be 721-6293205G57 (one required per relay).

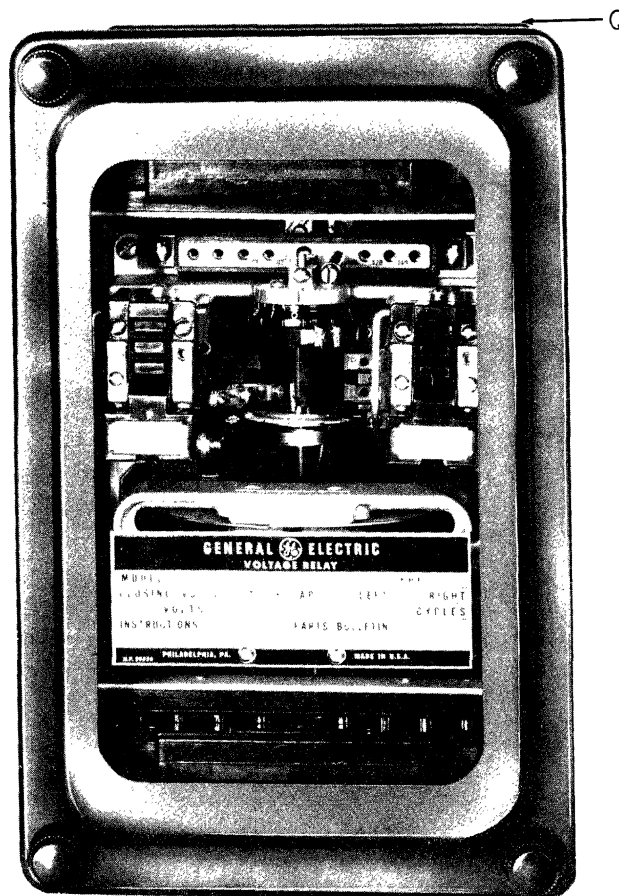


Fig. 1. Typical IAV relay

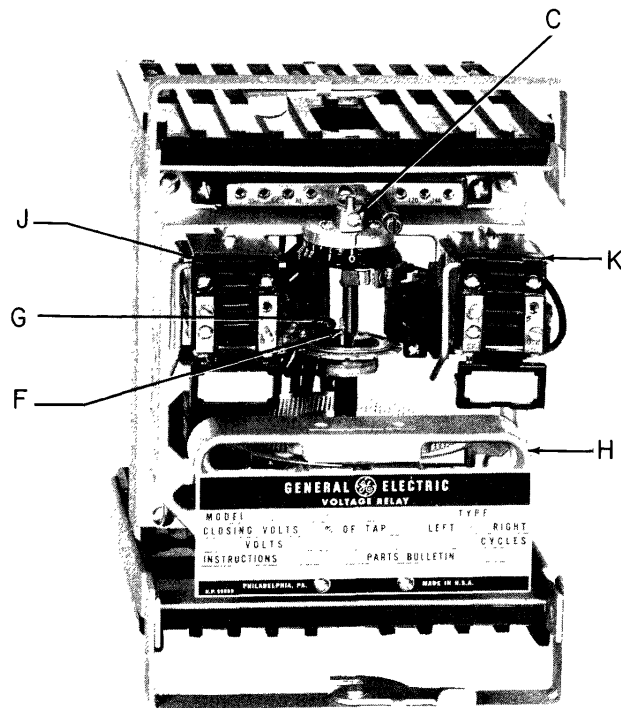


Fig. 2. Typical IAV relay, front view

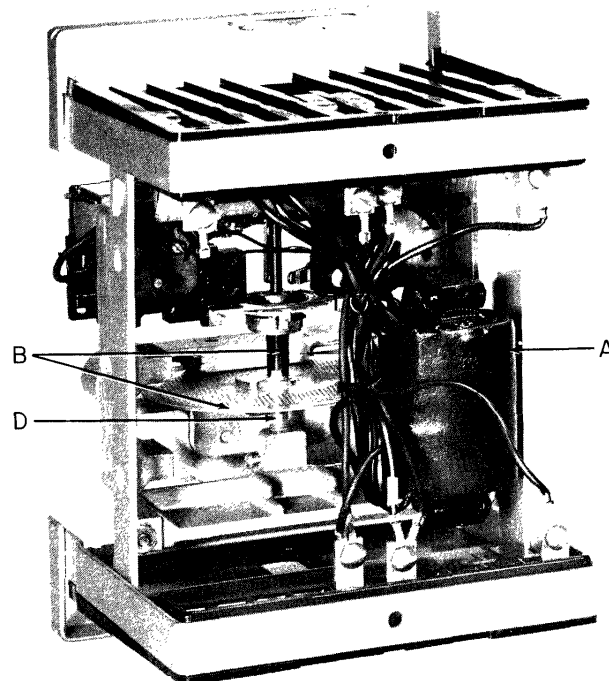


Fig. 3. Typical IAV relay unit, back view
NOTE: Resistor locations vary

■ Recommended for stock for normal maintenance
† Not shown.

* Recommended for stock for normal maintenance.
+ Not shown

RELAY MODEL NUMBER																
Operating Coil Assembly	Disk and Shaft Assembly	Top Bearing	Jewel Screw Assembly	Moving Contact and Spring Assembly (Upper)	Moving Contact and Spring Assembly (Lower)	Main Stationary Contact	Drag Magnet	Seal-In Unit (Left)	Seal-In Unit (Right)	Instantaneous Unit	Resistor (Adjustable)	Resistor (Fixed)	Capacitor	End Plate	Terminal Block Assembly	
*A	B	C	D	*E†	*F	*G	H	*J	*K	*L‡	*M†	*N†	P†	Q	R†	
Table																
12IAV54E3A	10	2	1	1	—	1	3	10	1	—	—	—	—	—	2	
12IAV54E4A	3	2	1	1	—	1	3	10	1	—	—	—	—	—	2	
12IAV54E5A	4	2	1	1	—	1	3	10	1	—	—	—	—	—	2	
12IAV54F1A	5	2	1	1	—	3	3	4	1	—	—	—	—	—	2	
12IAV54F2A	6	2	1	1	—	3	3	4	1	—	—	—	—	—	2	
12IAV54F3A	29	2	1	1	—	3	3	4	1	—	—	—	—	—	2	
12IAV54H1A	18	2	1	1	—	2	3	4	1	—	—	—	—	—	2	
12IAV54J1A	13	2	1	1	—	1	3	10	—	—	—	—	—	—	2	
12IAV54K1A	44	2	1	1	—	2	3	14	—	—	2	—	3	1	1	
12IAV55C1A	13	2	1	1	—	6	6	10	2	—	—	—	—	—	2	
12IAV55C2A	14	2	1	1	—	6	6	10	2	—	—	—	—	—	2	
12IAV69A1A	32	4	1	1	—	7	7	11	4	2	—	—	—	—	2	
12IAV69A2A	33	4	1	1	—	7	7	11	4	2	—	—	—	—	2	
12IAV69B1A	32	4	1	1	—	7	7	11	—	—	—	—	—	—	2	
12IAV69B2A	33	4	1	1	—	7	7	11	—	—	—	—	—	—	2	
12IAV69B3A	36	4	1	1	—	7	7	11	—	—	—	—	—	—	2	
12IAV70A1A	34	1	1	1	—	3	7	12	4	2	—	—	—	—	2	
12IAV70A2A	35	1	1	1	—	3	7	12	4	2	—	—	—	—	2	
12IAV70B1A	34	1	1	1	—	3	7	12	—	—	—	—	—	—	2	
12IAV70B2A	35	1	1	1	—	3	7	12	—	—	—	—	—	—	2	
12IAV71A1A	27	1	1	1	—	3	1	9	1	—	—	1	—	9	1	1
12IAV71A3A	27	1	1	1	—	3	1	9	1	—	—	1	—	2	1	1
12IAV71B2A	27	1	1	1	—	3	1	9	5	—	—	1	—	10	1	1
12IAV71B6A	31	1	1	1	—	3	1	9	5	—	—	1	2	10	1	1
12IAV72A1A	27	1	1	1	—	5	4	9	2	—	—	1	—	9	1	1
12IAV72B1A	27	1	1	1	—	5	4	9	6	—	—	1	1	9	1	1
12IAV72B3A	31	1	1	1	—	5	4	9	6	—	—	1	—	11	1	1
12IAV73A1A	26	3	1	1	1	1	6	6	3	1	—	1	—	9	—	2
12IAV73B1A	26	3	1	1	1	1	6	6	—	—	—	1	—	9	—	2
12IAV74A1A	28	2	1	1	—	3	3	13	1	—	—	1	—	4	—	2

* Recommended for stock for normal maintenance.

† Not shown.

GEF-3897, TYPE IAV RELAYS

Ref. Symbol	Fig. No.	Catalog Number	No. Per Relay
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TABLE A
OPERATING COIL ASSEMBLY

A-1	3	721-6293205G7	1
A-2	3	721-6293205G8	1
A-3	3	721-6293205G30	1
A-4	3	721-6293205G31	1
A-5	3	721-6293205G37	1
A-6	3	721-6293205G42	1
A-7	3	721-6293205G43	1
A-8	3	721-6293205G49	1
A-9	3	721-6293205G50	1
A-10	3	721-6293205G54	1
A-11	3	721-6293205G57	1
A-12	3	721-6293205G58	1
A-13	3	721-6293205G63	1
A-14	3	721-6293205G64	1
A-15	3	721-6293205G14	1
A-16	3	721-6293205G86	1
A-17	3	721-6293205G29	1
A-18	3	721-6293205G111	1
A-19	3	721-6293205G112	1
A-20	3	721-6293205G144	1
A-21	3	721-6293205G117	1
A-22	3	721-6293205G121	1
A-23	3	721-6293205G127	1
A-24	3	721-6293205G32	1
A-25	3	721-6293205G148	1
A-26	3	721-6293205G164	1
A-27	3	721-6293205G169	1
A-28	3	721-6293205G171	1
A-29	3	721-6293205G183	1
A-30	3	721-6293206G37	1
A-31	3	721-6293205G203	1
A-32	3	721-6293205G217	1
A-33	3	721-6293205G218	1
A-34	3	721-6293205G219	1
A-35	3	721-6293205G220	1
A-36	3	721-6293205G226	1
A-37	3	721-6293206G42	1
A-38	3	721-6293206G28	1
A-39	3	721-6293206G29	1
A-40	3	721-6293206G32	1
A-41	3	721-6293206G57	1
A-42	3	721-6293206G58	1
A-43	3	721-6293206G59	1

Ref. Symbol	Fig. No.	Catalog Number	No. Per Relay
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TABLE A (Continued)
OPERATING COIL ASSEMBLY

A-44	3	721-6293206G150	1
A-45	3	721-6293206G68	1
A-46	3	721-6293206G89	1
A-47	3	721-6293206G90	1
A-48	3	721-6293206G91	1
A-49	3	721-6293206G108	1
A-50	3	721-6293206G140	1

TABLE B
DISK AND SHAFT ASSEMBLY

B-1	3	721-6293210G1	1
B-2	3	721-6293210G3	1
B-3	3	721-6293210G4	1
B-4	3	721-6293210G2	1

TABLE C
TOP BEARING

C-1	2	721-6209409G1	1
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TABLE D
JEWEL SCREW ASSEMBLY

D-1	3	721-6209457G1	1
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TABLE E
MOVING CONTACT AND SPRING ASSEMBLY (UPPER)

E-1	—	721-6158531G7	1
E-2	—	721-6158531G10	1

TABLE F
MOVING CONTACT AND SPRING ASSEMBLY (LOWER)

F-1	2	721-6158531G1	1
F-2	2	721-6158531G2	1
F-3	2	721-6158531G3	1
F-4	2	721-6158531G5	1
F-5	2	721-6158531G6	1
F-6	2	721-6158531G4	1
F-7	2	721-6158531G8	1

TABLE G
MAIN STATIONARY CONTACT

G-1	2	721-6209430G1	1
G-2	2	721-6209430G2	1
G-3	2	721-6209430G3	1
G-4	2	721-6209430G4	2
G-5	2	721-6209430G2	2
G-6	2	721-6209430G3	2
G-7	2	721-6209430G4	1

Ref. Symbol	Fig. No.	Catalog Number	No. Per Relay
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TABLE H
DRAG MAGNET▲

H-1	2	721-108B9191G2 (540 pts)	1
H-2	2	721-108B9191G2 (150 pts)	1
H-3	2	721-108B9191G2 (300 pts)	1
H-4	2	721-108B9191G1 (1160 pts)	1
H-5	2	721-108B9191G2 (650 pts)	1
H-6	2	721-108B9191G2 (600 pts)	1
H-7	2	721-108B9191G2 (1500 pts)	1
H-8	2	721-108B9191G2 (225 pts)	1
H-9	2	721-108B9191G2 (410 pts)	1
H-10	2	721-108B9191G2 (270 pts)	1
H-11	2	721-108B9191G1 (750 pts)	1
H-12	2	721-108B9191G1 (1650 pts)	1
H-13	2	721-108B9191G2 (330 pts)	1
H-14	2	721-108B9191G2 (250 pts)	1
H-15	2	721-108B9191G1 (1500 pts)	1

TABLE J
SEAL-IN UNIT (LEFT)

J-1	2	721-6293203G1	1
J-2	2	721-6293203G2	1
J-3	2	721-6293203G11	1
J-4	2	721-6293203G203	1
J-5	2	721-6293203G3	1
J-6	2	721-6293203G4	1

TABLE K
SEAL-IN UNIT (RIGHT)

K-1	2	721-6293203G5	1
K-2	2	721-6293203G202	1

Ref. Symbol	Fig. No.	Catalog Number	No. Per Relay
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TABLE L
INSTANTANEOUS UNIT

L-1	—	721-6293203G120	1
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TABLE M
RESISTOR (ADJUSTABLE)

M-1	—	721-403A321P3	1
M-2	—	721-403A321P42	1
M-3	—	721-403A321P20	1
M-4	—	721-403A321P23	1
M-5	—	721-403A321P30	1

TABLE N
RESISTOR (FIXED)

N-1	—	721-403A322P116	1
N-2	—	721-403A322P183	1

TABLE P
CAPACITOR*

P-1	—	721-246A9045P50A	1
P-2	—	721-246A9045P100A	1
P-3	—	721-246A9023P125A	1
P-4	—	721-246A9023P150A	1
P-5	—	721-246A9026P350A	1
P-6	—	721-246A9024P1200A	1
P-7	—	721-246A9024P500A	1
P-8	—	721-246A9025P50E	1
P-9	—	721-246A9045P75B	1
P-10	—	721-246A9021P75B1	1
P-11	—	721-246A9045P100B	1
P-12	—	721-246A9045P50B	1

TABLE Q
END PLATE

Q-1	1	721-237C740P2	1
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TABLE R
TERMINAL BLOCK ASSEMBLY

R-1	—	721-285A5176G1	1
R-2	—	721-285A5176G1	2

*Oil-filled capacitors (21F, 28F etc.) referenced in this bulletin are original design style numbers. Due to environmental constraints and other factors beyond PSM's control, orders for these series of capacitors will be supplied as shown in GEF-6001. Note that in some instances the replacement capacitor, while electrically interchangeable, may require mechanical modifications to the relay.

▲ **IMPORTANT:** When ordering drag magnets, the exact model number of the relay must be specified on the order.



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