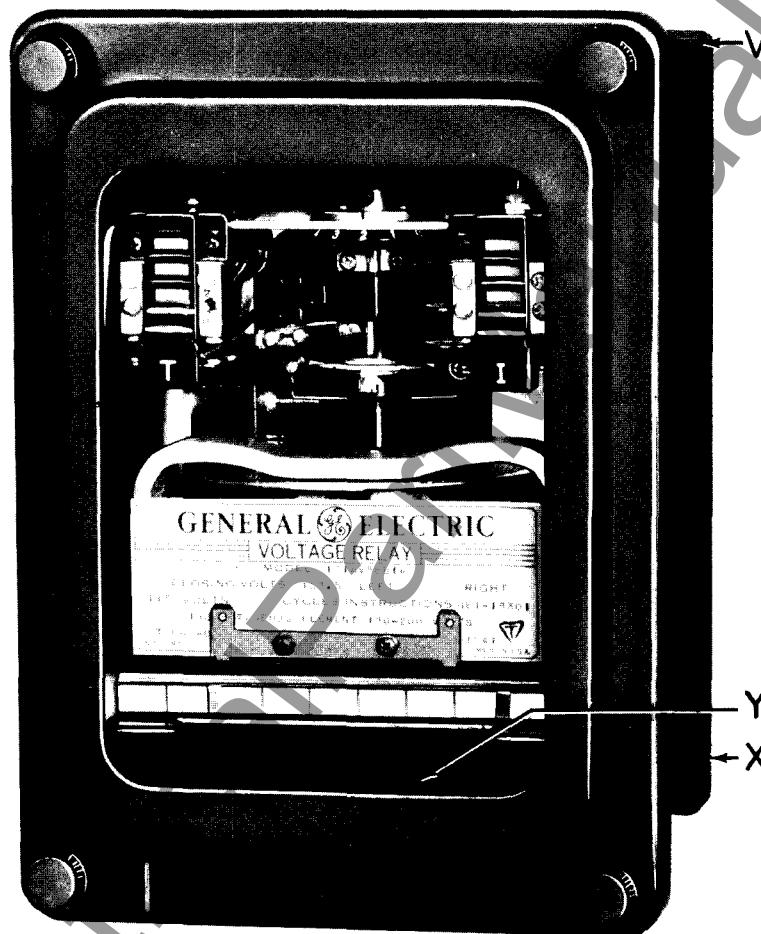


RENEWAL PARTS

GEF-3897B
Supersedes GEF-3897A



TYPE IAV VOLTAGE RELAYS



(PHOTO 8011810)

Fig. 1. typical IAV relay

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 IAV RELAYS

HOW TO USE THIS BULLETIN

Relay models covered by this bulletin are listed in the left hand column of the tabulation beginning on page 3.

To find the catalog number of a renewal part:

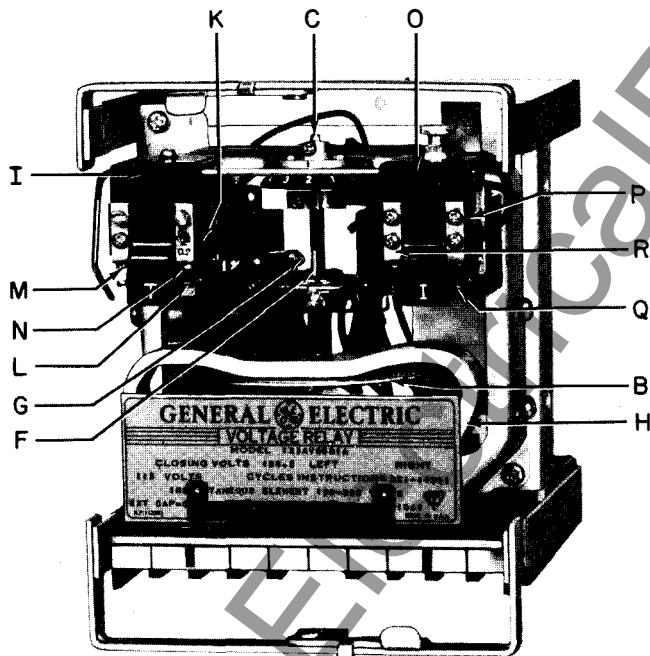
- (1) From illustrations on pages 1 and 2, find reference letter for required part. (References D, E, J, U, and W are not shown.)
- (2) Locate reference letter and/or description of part in column headings at top of tabulation.
- (3) Note numeral at intersection of reference letter column and model number line. This numeral, when added to reference letter, provides key to catalog number of part, which is listed in table on page indicated.

Example:

To find catalog number of stationary main contact for Model 12IAV51A7A relay:

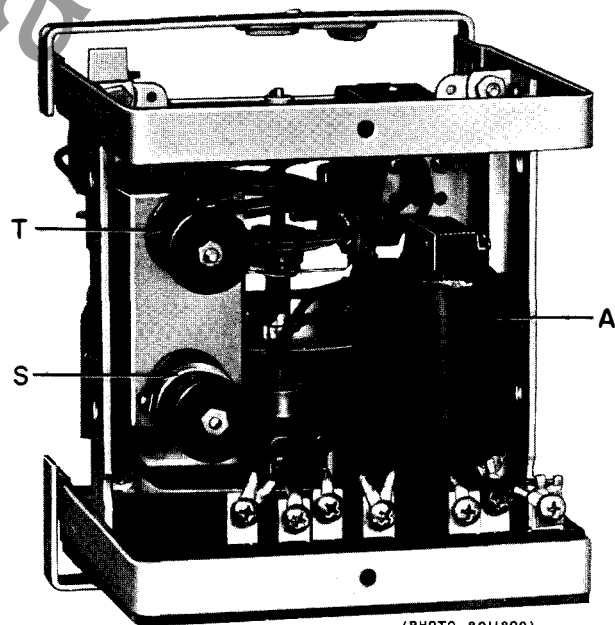
- (1) Figure 2 on page 2 indicates that reference letter for stationary main contact is "G".
- (2) Locate reference letter "G" in column headings on page 3.
- (3) At intersection of "G" column and Model 12IAV51A7A line find numeral "1". Complete reference symbol is therefore "G-1". Referring to page 6, catalog number is found to be 6209430G1 (one required per relay).

NOTE: Refer to page 9 for parts of obsolete relays in "Universal" Case.



(PHOTO 8011812)

Fig. 2. typical IAV relay, front view



(PHOTO 8011809)

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

TYPE IAV RELAYS

GEF-3897B

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				Stationary Contact				Drag Magnet				Seal-in Unit, Left				Seal-in Unit, Right				Coil				Moving Contact Assembly				Stationary Contact, Left				Stationary Contact, Right				Instantaneous Unit				Coil				Moving Contact Assembly				Stationary Contact, Left or Right				Resistor (Adjustable)				Resistor (Fixed)				Capacitor				End Plate				Terminal Block Assembly, Upper				Terminal Block Assembly, Lower				Connecting Plug																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
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* Recommended for stock for normal maintenance.

† Not shown.

‡ Assembly of laminations, pole pieces, coil, and tap block.

TYPE IAV RELAYS

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																												Stationary contact																												Drag Magnet																												Seal-in Unit, Left																												Seal-in Unit, Right																												Coil																												Moving Contact Assembly																												Stationary Contact, Left																												Stationary Contact, Right																												Instantaneous Unit																												Coil																												Moving Contact Assembly																												Stationary Contact, Left or Right																												Resistor (Adjustable)																												Resistor 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* Recommended for stock for normal maintenance.

† Not shown.

‡ Assembly of laminations, pole pieces, coil, and tap block.

GEF-3897B

* Recommended for stock for normal maintenance.
† Not shown.
‡ Assembly of laminations, pole pieces, coil, and tap block.

TYPE IAV RELAYS

Ref. Symbol	Fig. No.	Catalog Number	No. Per Relay
OPERATING COIL ASSEMBLY			
A-1	3	6293205G7	1
A-2	3	G8	1
A-3	3	G14	1
A-4	3	G27	1
A-5	3	G28	1
A-6	3	G29	1
A-7	3	G30	1
A-8	3	G31	1
A-9	3	G35	1
A-10	3	G37	1
A-11	3	G41	1
A-12	3	G42	1
A-13	3	G43	1
A-14	3	G49	1
A-15	3	G50	1
A-16	3	G54	1
A-17	3	G57	1
A-18	3	G58	1
A-19	3	G62	1
A-20	3	G63	1
A-21	3	G64	1
A-22	3	G79	1
A-23	3	G86	1
A-24	3	G90	1
A-25	3	G111	1
A-26	3	G112	1
A-27	3	G113	1
A-28	3	G117	1
A-29	3	G119	1
A-30	3	G120	1
A-31	3	G121	1
A-32	3	G123	1
A-33	3	G125	1
A-34	3	G127	1
A-35	3	G132	1
A-36	3	G135	1
A-37	3	G144	1
A-38	3	G147	1
A-39	3	G148	1
A-40	3	G149	1
A-41	3	G151	1
A-42	3	G155	1
A-43	3	G158	1
A-44	3	G164	1
A-45	3	G169	1
A-46	3	G171	1
A-47	3	G176	1
A-48	3	G180	1
A-49	3	G183	1
A-50	3	G191	1
A-51	3	6293206G5	1
A-52	3	G28	1
A-53	3	G29	1
A-54	3	G32	1
A-55	3	G39	1
A-56	3	G40	1
A-57	3	G57	1
A-58	3	G58	1
A-59	3	G59	1
A-60	3	G60	1
A-61	3	G61	1
A-62	3	G68	1
A-63	3	G69	1
A-64	3	G70	1

† Not shown.

Ref. Symbol	Fig. No.	Catalog Number	No. Per Relay
OPERATING COIL ASSEMBLY (Cont'd)			
A-65	3	6293206G73	1
A-66	3	G79	1
A-67	3	G80	1
A-68	3	G89	1
A-69	3	G90	1
A-70	3	G91	1
A-71	3	G97	1
A-72	3	G101	1
A-73	3	G108	1
A-74	3	G109	1

DISK AND SHAFT ASSEMBLY

B-1	2	6293210G1	1
B-2	2	G3	1
B-3	2	G4	1

TOP BEARING

C-1	2	6209409G1	1
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JEWEL SCREW ASSEMBLY

D-1	†	6209457G1	1
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MOVING CONTACT AND SPRING ASSEMBLY (UPPER)

E-1	†	6158531G7	1
E-2	†	G10	1

MOVING CONTACT AND SPRING ASSEMBLY (LOWER)

F-1	2	6158531G1	1
F-2	2	G2	1
F-3	2	G3	1
F-4	2	G5	1
F-5	2	G6	1
F-6	2	G12	1
F-7	2	G13	1
F-8	2	G14	1
F-9	2	G15	1
F-10	2	G16	1
F-11	2	G17	1

MAIN STATIONARY CONTACT

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

TYPE IAV RELAYS

GEF-3897B

Ref. Symbol	Fig. No.	Catalog Number	No. Per Relay
-------------	----------	----------------	---------------

§DRAG MAGNET

H-1	2	237C731G1	1
H-2	2	G2	1
H-3	2	G3	1

SEAL-IN UNIT (LEFT)

I-1	2	6293203G1	1
I-2	2	G2	1
I-3	2	G3	1
I-4	2	G4	1
I-5	2	G11	1

SEAL-IN UNIT (RIGHT)

J-1	†	6293203G5	1
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COIL FOR SEAL-IN UNIT

K-1	2	6275062G1	1
K-2	2	G1	2

MOVING CONTACT FOR SEAL-IN UNIT

L-1	2	6158533G1	1
L-2	2	G1	2
L-3	2	G3	1

STATIONARY CONTACT FOR SEAL-IN UNIT (LEFT)

M-1	2	6209416G1	1
M-2	2	G1	2

STATIONARY CONTACT FOR SEAL-IN UNIT (RIGHT)

N-1	2	6209416G2	1
N-2	2	G2	2

INSTANTANEOUS UNIT

O-1	2	6293204G24	1
O-2	2	G29	1
O-3	2	G37	1
O-4	2	G43	1
O-5	2	G62	1

† Not shown.

§ Specify complete relay model number when ordering drag magnet.

‡ Tapped at 625 and 1350 ohms.

Ref. Symbol	Fig. No.	Catalog Number	No. Per Relay
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COIL FOR INSTANTANEOUS UNIT

P-1	2	6306751G4	1
P-2	2	G15	1
P-3	2	G20	1

MOVING CONTACT FOR INSTANTANEOUS UNIT

Q-1	2	6158533G2	1
Q-2	2	G4	1

STATIONARY CONTACT FOR INSTANTANEOUS UNIT

R-1	2	6209416G4	2
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Ref. Symbol	Fig. No.	Catalog Number	Resistance Ohms	No. Per Relay
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RESISTOR (ADJUSTABLE)

S-1	3	403A321P2	800	1
S-2	3	P3	2500	1
S-3	3	P4	4000	1
S-4	3	P13	800	1
S-5	3	P15	2500	1
S-6	3	P20	9000	1
S-7	3	P21	7500	1
S-8	3	P23	250	1

RESISTOR (FIXED)

T-1	3	5901218G1-3750	3750	1
T-2	3	403A322P19	350	1
T-3	3	P23	850	1
T-4	3	P26	2000	2
T-5	3	P79	2600	1
T-6	3	P140	3600	1
T-7	†	403A323P3	‡2000	1

Ref. Symbol	Fig. No.	Catalog Number	No. Per Relay
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CAPACITOR

U-1	†	21F802	1
U-2	†	21F803	1
U-3	†	21F804	1
U-4	†	21F807	1
U-5	†	21F808	1
U-6	†	21F809	1

Ref. Symbol	Fig. No.	Catalog Number	No. Per Relay
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CAPACITOR (Cont'd)

U-7	†	21F811	1
U-8	†	21F813	1
U-9	†	21F815	1
U-10	†	21F816	1
U-11	†	21F902	1
U-12	†	21F903	1
U-13	†	21F906	1
U-14	†	21F914	1

END PLATE

V-1	1	6128447P1	1
V-2	1	P1	2

TERMINAL BLOCK ASSEMBLY (UPPER)

W-1	†	6418058G42	1
W-2	†	G127	1
W-3	†	G236	1
W-4	†	G292	1

Ref. Symbol	Fig. No.	Catalog Number	No. Per Relay
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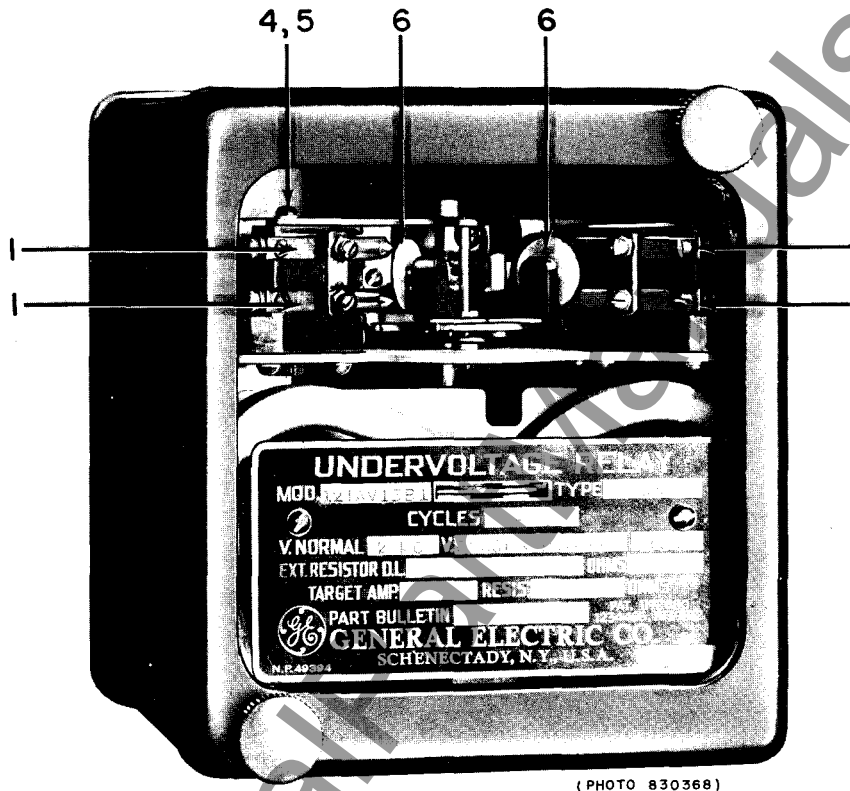
TERMINAL BLOCK ASSEMBLY (LOWER)

X-1	1	6418058G23	1
X-2	1	G24	1
X-3	1	G67	1
X-4	1	G89	1
X-5	1	G126	1
X-6	1	G178	1
X-7	1	G292	1
X-8	1	6418060G3	1
X-9	1	G4	1
X-10	1	G5	1
X-11	1	G23	1

CONNECTING PLUG

Y-1	1	6118736G1	1
Y-2	1	G1	1

PARTS FOR RELAYS OF SUPERSEDED DESIGN
IN THE "UNIVERSAL" (NON-DRAWOUT) CASE
TYPES IAV11 TO IAV15



(PHOTO 830368)

Fig. 4. typical IAV relay in "Universal" case

Only the following parts can be furnished:

Ref. No. (Fig. 4)	Catalog Number	Description
1	6174390G1	Stationary contact, top or bottom
*2	6174390G7	Stationary contact, left top
*3	3539566G1	Stationary contact, right top
4	6118625G1	Holding coil, 1.0 amp
5	6118625G5	Holding coil, 0.2 amp
6	3522578P1	Movable contact disk
†7	‡	§Operating coil assembly

* Not shown. One each of Ref. 2 and 3 (on top) used in conjunction with Ref. 1 (on bottom) for two-circuit-closing relays.

† Not shown.

‡ Order by description. Specify complete model number of relay.

§ Includes laminations, pole pieces, coil, leads, and tap block.

MEMORANDUM

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WHEN YOU NEED SERVICE

IF YOU NEED TO REPAIR, recondition, or rebuild any electric apparatus, a G-E service shop near you is available day and night, seven days a week, for work in the shops or on your premises. Latest factory methods and genuine G-E renewal parts are used to maintain the original performance of your G-E equipment. For full information about these services, contact the nearest service shop or sales office listed below:

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