

Renewal Parts

Type HGA Auxiliary 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 Stationary Contact, Left Front or Right Back for the Model 12HGA11A51 relay:

- A. Figures 4, 5, and 6 on page 3 indicates that the reference letter for the Stationary Contact, Left Front or Right Back is "A".
- B. Locate reference letter "A" in the column headings on page 3.
- C. At intersection of the "A" column and Model 12HGA-11A51 line find the numeral 1. The complete reference symbol is therefore, "A-1". Referring to page 6 in the catalog, the number is found to be 6075870G3 (two required per relay).

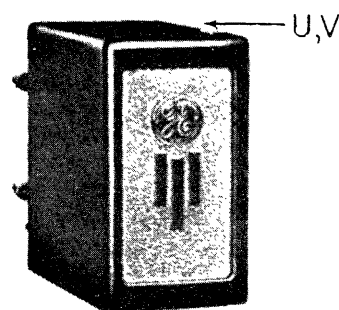


Fig. 1. Type HGA11A auxiliary relay (typical of relays with small molded cover)

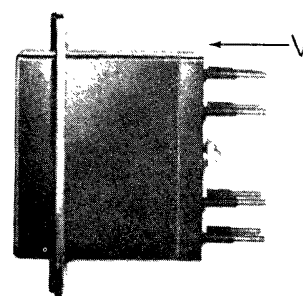


Fig. 2. Side view of semi-flush mounted cover

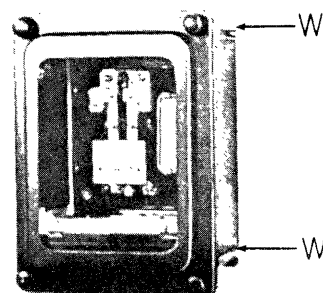


Fig. 3. Type HGA18A reclosing relay (typical of relays in drawout "A" case)

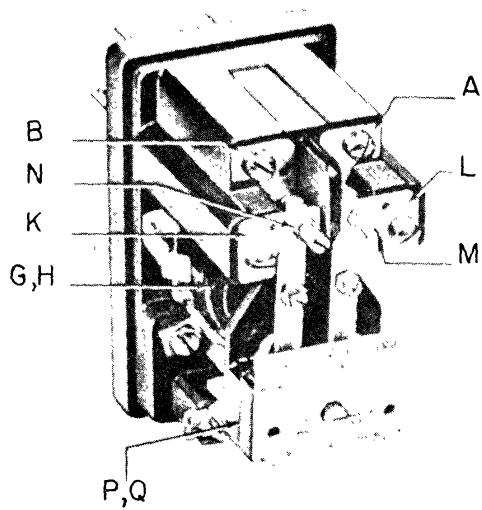


Fig. 4. Type HGA14 relay (cover removed)

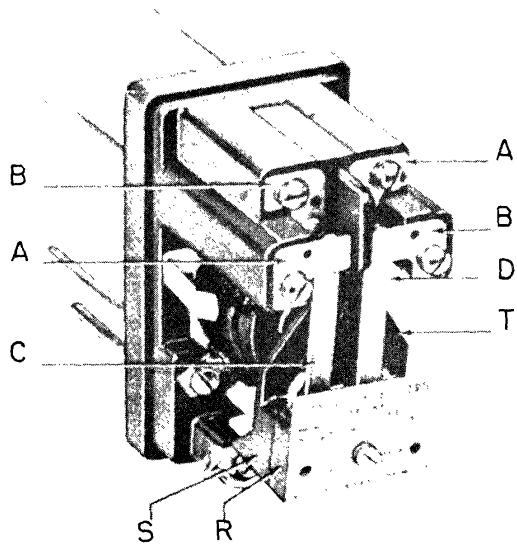


Fig. 5. Type HGA11 relay (cover removed)

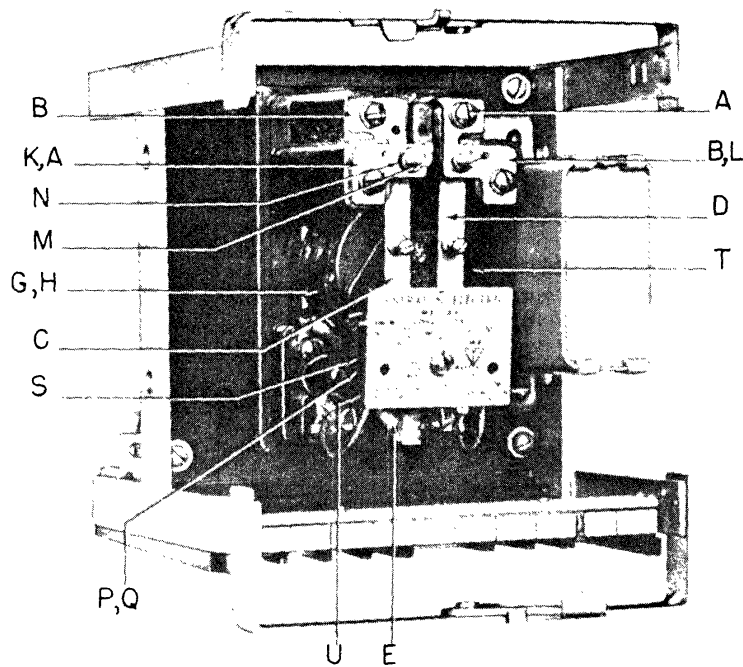


Fig. 6. Type HGA18 relay unit removed from enclosing case

* Recommended for stock for normal maintenance
+ Not shown
‡ Select proper coil from table starting on page 8
♢ Select proper coil from table starting on page 10

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Recommended for stock for normal maintenance.
Not shown

[illegible]

▪ Recommended for stock for normal maintenance.
† Not shown
‡ Select proper coil from table starting on page 8.
§ Select proper coil from table starting on page 10.

- Recommended for stock for normal maintenance.

• Recommended
† Not shown

GEF-2623, TYPE HGA RELAYS

Ref. Symbol	Fig. No.	Catalog Number	No. Per Relay
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TABLE A
STATIONARY CONTACT, LEFT FRONT OR RIGHT BACK

A-1	4,5,6	6075870G3	2
A-2	4,5,6	6075870G3	1
A-3	4,5,6	6075870G3	3
A-4	4,5,6	6075870G4	1
A-5	4,5,6	6075870G3	6
A-6	4,5,6	6075870G3	4
A-7	4,5,6	6075870G8	2

TABLE B
STATIONARY CONTACT, RIGHT FRONT OR LEFT BACK

B-1	4,5,6	6075870G4	2
B-2	4,5,6	6075870G4	1
B-3	4,5,6	6075870G4	6
B-4	4,5,6	6075870G4	4
B-5	4,5,6	6075870G3	1
B-6	4,5,6	6075870G9	2

TABLE C
MOVABLE CONTACT, LEFT

C-1	5,6	6118684G1	1
C-2	5,6	6118684G1	3
C-3	5,6	6118684G2	1
C-4	5,6	6118684G2	2
C-5	5,6	6118684G4	1
C-6	5,6	6375917G1	1
C-7	5,6	6118684G10	1
C-8	5,6	6118684G1	2

TABLE D
MOVABLE CONTACT, RIGHT

D-1	5,6	6118684G1	1
D-2	5,6	6118684G1	3
D-3	5,6	6118684G10	1
D-4	5,6	6118684G2	1
D-5	5,6	6118684G4	1
D-6	5,6	6118684G2	2
D-7	5,6	6375917G1	1

TABLE E
CONTROL SPRING

E-1	6	6078999P1	1
E-2	6	6078999P1	3
E-3	6	6074244P1	1
E-4	6	6074244P1	2
E-5	6	6078999P1	2

Ref. Symbol	Fig. No.	Catalog Number	No. Per Relay
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TABLE F
STATIONARY CONTACT, UPPER LEFT OR UPPER RIGHT

F-1	—	6118675G2	2
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TABLE G
OPERATING COILS

See Page 8

TABLE H
OPERATING COILS

See Page 10

TABLE K
STATIONARY CONTACT PLATE, LEFT FRONT

K-1	4,6	6056767P3	2
K-2	4,6	6056767P3	1
K-3	4,6	6056767P2	1

TABLE L
STATIONARY CONTACT PLATE, RIGHT FRONT

L-1	4,6	6056767P3	2
L-2	4,6	6056767P3	1

TABLE M
ADJUSTABLE STATIONARY CONTACT

M-1	4,6	6076469G1	2
M-2	4,6	6076469G1	1
M-3	4,6	6076469G1	4

TABLE N
NUT FOR ADJUSTABLE STATIONARY CONTACT

N-1	4,6	1750758P2	2
N-2	4,6	1750758P2	1
N-3	4,6	1750758P2	4

TABLE P
CONTACT SPRING, LEFT

P-1	4,6	6078998P1	1
P-2	4,6	6078998P1	3
P-3	4,6	6079851P1	1
P-4	4,6	6078997P1	1
P-5	4,6	6079857P1	1
P-6	4,6	6078998P2	1
P-7	4,6	6078997P1	2

TABLE Q
CONTACT SPRING, RIGHT

Q-1	4,6	6078998P1	1
Q-2	4,6	6078998P1	3

TYPE HGA RELAYS, GEF-2623

Ref. Symbol	Fig. No.	Catalog Number	No. Per Relay
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TABLE Q (Continued)
CONTACT SPRING, RIGHT

Q-3	4,6	6078998P1	2
Q-4	4,6	6078997P1	1
Q-5	4,6	6079857P1	1
Q-6	4,6	6078997P1	2

TABLE R
SPRING HOUSING

R-1	5,6	378A598P1	1
R-2	5,6	378A598P1	3
R-3	5,6	378A598P6	1
R-4	5,6	378A598P1	2

TABLE S
CONTACT SUPPORT

S-1	5,6	6118683P1	1
S-2	5,6	6118683P1	3
S-3	5,6	6118683P1	2
S-4	5,6	6118683P4	1

TABLE T
ARMATURE

T-1	5,6	6056766P1	1
T-2	5,6	6056766P1	3
T-3	5,6	6056766P1	2
T-4	5,6	6056766P3	1
T-5	5,6	6056766P4	1
T-6	5,6	6056766P3	2

Ref. Symbol	Fig. No.	Catalog Number	No. Per Relay
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TABLE U
COVER (DRAWOUT)

U-1	1	6229807G9	1
U-2	1	6229807G7	1
U-3	1	128B2305G2	1
U-4	1	6229807G8	1
U-5	1	6229807G17	1
U-6	1	128B2305G1	1
U-7	1	6229807G2	1

TABLE W
TERMINAL BLOCK, UPPER OR LOWER

W-1	3	285A5176G1	1
W-2	3	285A5176G1	2

TABLE X
TARGET UNIT

See Page 12

TABLE Y
EXTERNAL AUXILIARIES

See Page 13

GEF-2623, TYPE HGA RELAYS

TABLE G—OPERATING COILS
Single-unit Relays (One Coil Required)
(or) Three-unit Relays (Three Coils Required per Complete Relay)

Relay Model No.	Coil Cat. No.	Relay Model No.	Coil Cat. No.	Relay Model No.	Coil Cat. No.
12HGA***51	6306774G1	12HGA***133	6306774G24	12HGA14K8	6306774G16
52	G3	143	G54	14K9	G17
53	G6	144	G11	14K10	G18
54	G7	145	G51	12HGA14S11A	G1
55	G9	146	G50	S12A	G3
56	G10	147	G45	S13A	G1
57	G13	148	G77	S14A	G1
58	G15	150	G3	S15A	G1
59	G2	151	G82	S16A	G66
60	G4	152	G30	AH1	G10
65	G16	154	G9	AH2	G7
66	G17	155	G79	AH3	G6
67	G18	156	G83	AH4	G3
68	G19	157	G21	AH5	G1
69	G20	158	G85	AH6	G47
70	G47	159	G76	AH7	G46
71	G41	160	G47	AH8	G41
72	G37	162	G52	AH9	G41
73	G35	163	G86	AH10	G39
74	G46	164	G76	AH11	G36
75	G39	165	G15	AH12	G18
76	G36	167	G47	AH13	G37
77	G34	168	G32	AH14	G42
78	G41	169	G36	AH15	G15
79	G36	170	G36	AH16	G2
80	G32	171	G7	12HGA14AJ1	G51
81	G31	172	G53	12HGA14AK1A	G1
82	G58	173	G76	AK2A	G1
83	G57	174	G66	12HGA14AL1	G65
84	G55	175	G45	AL2	G15
85	G54	176	G92	AL3	G16
86	G56	177	G46	AL5	G17
87	G55	12HGA11R1A	G10	AL6	G13
88	G52	11R2A	G7	AL7	G65
89	G51	11R3A	G6	AL9	G16
90	G50	11R4A	G3	AL10	G17
91	G50	11R5A	G1	AL11	G12
94	G42	11R6A	G7	AL12	G65
95	G78	12HGA14B1	G13	AL13	G15
96	G53	14B2	G10	AL15	G16
97	G45	14B3	G17	AL17	G12
98	G46	14B4	G14	AL18	G14
99	G45	14B5	G6	AL19	G15
101	G45	14B6	G3	AL20	G16
102	G42	14B7	G17	AL21	G19
104	G41	14B8	G13	AL22	G19
105	G42	14B9	G11	AL23	G10
106	G33	14B10	G13	AL24	G7
107	G40	14B11	G9	AL25	G17
108	G39	14B12	G10	AL26	G17
109	G39	14B13	G22	AL28	G20
110	G39	14B14	G7	AL29	G26
111	G39	14B15	G1	AL30	G23
114	G37	12HGA14D1	G66	12HGA14AM1	G65
115	G37	14D2	G1	AM2	G15
117	G37	14D3	G3	AM3	G16
118	G35	14D4	G1	AM5	G17
119	G33	14D5	G1	AM6	G13
120	G46	14D6	G1	AM7	G65
121	G12	14D7	G1	AM9	G16
122	G11	12HGA14K1	G1	AM10	G17
123	G9	14K2	G3	AM11	G12
124	G8	14K3	G7	AM12	G65
125	G5	14K4	G9	AM13	G15
126	G4	14K5	G10	AM15	G16
127	G2	14K6	G13	AM16	G10
128	G15	14K7	G15	AM17	G12

***Includes Forms 11A, 11G, 11H, 11J, 11K, 11P, 11S, 11T, 11V, 11W, 14A, 14AD, 14AE, 14AF, 14AV, 14BE, 14BF

TABLE G—OPERATING COILS
 Single-unit Relays (One Coil Required)
 (or) Three-unit Relays (Three Coils Required per Complete Relay)

Relay Model No.	Coil Cat. No.	Relay Model No.	Coil Cat. No.	Relay Model No.	Coil Cat. No.
12HGA14AM18	6306774G14	12HGA14BC4	6306774G16	12HGA18F48A	6306774G69
AM19	G15	12HGA14BD2	G1	F51A	G69
AM20	G16	BD5	G1	F52A	G69
AM21	G19	BD6	G1	F55A	G69
AM22	G19	14BD7	G1	F57A	G69
AM23	G10	BD8	G1	F58A	G81
AM24	G7	12HGA17*51	366A732G1	F59A	G69
AM25	G17	52	G2	F60A	G69
AM26	G17	53	G9	12HGA18J1A	G69
AM28	G20	54	G3	J2A	G69
AM29	G17	55	G6	J3A	G69
AM30	G53	56	G4	J4A	G69
AM31	G17	57	G5	J5A	G69
AM32	G17	59	G2	J6A	G69
12HGA14AR1A	G2	60	G1	12HGA18L1A	G69
AR22A	G2	61	G8	L2A	G69
AR23A	G1	62	G10	12HGA26A1	366A732G6
12HGA14AS1	G17	63	G15	A2	G3
AS2	G13	64	G15	A3	G2
AS3	G10	65	G12	A4	G1
12HGA14AT1	G10	66	G11	A5	G4
AT2	G7	67	G14	12HGA26B1	6306774G9
AT3	G17	68	G1	B2	G7
AT4	G13	69	G13	B3	G3
AT5	G18	70	G15	B4	G1
AT6	G15	71	G19	B5	G10
AT7	G3	72	G20	12HGA111A1●	366A923G1
AT8	G20	73	G21	A2●	G3
AT9	G16	74	G15	A3●	G6
12HGA14AU2A	G15	75	G5	A4●	G7
AU3A	G16	76	G15	A5●	G10
AU7A	G65	77	G22	A6●	G13
AU17A	G12	78	G9	A7●	G15
AU26A	G17	12HGA18E21A	6306774G69	A8●	G99
12HGA14AY1A	G7	E22A	G69	A9●	G46
AY2A	G3	E23A	G81	A11●	G2
AY3A	G10	E24A	G69	A12●	G4
AY4A	G13	E25A	G69	A13●	G9
AY5A	G12	E27A	G69	A18●	G100
AY6A	G12	E28A	G69	A19●	G101
AY7A	G17	E29A	G81	12HGA111J1	366A923G1
AY8A	G13	E30A	G81	J2	G3
AY9A	G7	E31A	G69	J3	G6
AY10A	G16	E32A	G69	J4	G7
AY11A	G7	E33A	G69	J5	G10
AY12A	G16	E34A	G81	J6	G13
AY13A	G3	E35A	G81	J7	G15
AY14A	G1	12HGA18F31A	G69	J8	G99
AY15A	G1	F32A	G69	J9	G46
AY16A	G13	F33A	G81	J11	G2
AY17A	G3	F34A	G69	J12	G4
AY18A	G66	F35A	G69	J13	G9
AY19A	G3	F36A	G69	J18	G100
12HGA14BA1	G10	F37A	G69	J19	G101
BA2	G10	F38A	G69	12HGA111S1	366A923G1
BA3	G14	F39A	G81	S2	G3
BA4	G54	F40A	G69	S3	G6
12HGA14BB1	G10	F41A	G69	S4	G7
BB2	G10	F42A	G69	S5	G10
BB3	G14	F43A	G69	S6	G13
12HGA14BC1	G10	F44A	G69	S7	G15
BC2	G3	F45A	G69	S8	G99
BC3	G17	F47A	G69	S9	G46

***Includes Forms A, B, C, D, E, F, H, M, R, S and T

●Includes 12HGA111A_F

GEF-2623, TYPE HGA RELAYS

TABLE H—OPERATING COILS
Two-unit Relays (Units Side by Side)
One of Each Coil Required per Complete Relay

Relay Model No.	Coil Catalog No.		Relay Model No.	Coil Catalog No.	
	Left Unit	Right Unit		Left Unit	Right Unit
12HGA11N1A	6306774G10	6306774G10	12HGA11N251A	6306774G41	6306774G36
N2A	G10	G7	N280A	G39	G39
N3A	G10	G6	N281A	G39	G36
N4A	G10	G3	N311A	G36	G36
N5A	G10	G1	N342A	G15	G15
N6A	G10	G47	N373A	G13	G13
N7A	G10	G46	N374A	G13	G13
N8A	G10	G41	12HGA14AB1A	G10	G10
N9A	G10	G41	AB2A	G10	G7
N10A	G10	G39	AB3A	G10	G6
N11A	G10	G36	AB4A	G10	G3
N32A	G7	G7	AB5A	G10	G1
N33A	G7	G6	AB6A	G10	G47
N34A	G7	G3	AB7A	G10	G46
N35A	G7	G1	AB8A	G10	G41
N36A	G7	G47	AB9A	G10	G41
N37A	G7	G46	AB10A	G10	G39
N38A	G7	G41	AB11A	G10	G36
N39A	G7	G41	AB32A	G7	G7
N40A	G7	G39	AB33A	G7	G6
N41A	G7	G36	AB34A	G7	G3
N63A	G6	G6	AB35A	G7	G1
N64A	G6	G3	AB36A	G7	G47
B65A	G6	G1	AB37A	G7	G46
N66A	G6	G47	AB38A	G7	G41
N67A	G6	G46	AB39A	G7	G41
N68A	G6	G41	AB40A	G7	G39
N69A	G6	G41	AB41A	G7	G36
N70A	G6	G39	AB63A	G6	G6
N71A	G6	G36	AB64A	G6	G3
N94A	G3	G3	AB65A	G6	G1
N95A	G3	G1	AB66A	G6	G47
N96A	G3	G47	AB67A	G6	G46
N97A	G3	G46	AB68A	G6	G41
N98A	G3	G41	AB69A	G6	G41
N99A	G3	G41	AB70A	G6	G39
N100A	G3	G39	AB71A	G6	G36
N101A	G3	G36	AB94A	G3	G3
N125A	G1	G1	AB95A	G3	G1
N126A	G1	G47	AB96A	G3	G47
N127A	G1	G46	AB97A	G3	G46
N128A	G1	G41	AB98A	G3	G41
N129A	G1	G41	AB99A	G3	G41
N130A	G1	G39	AB100A	G3	G39
N131A	G1	G36	AB101A	G3	G36
N156A	G47	G47	AB125A	G1	G1
N157A	G47	G46	AB126A	G1	G47
N158A	G47	G41	AB127A	G1	G46
N159A	G47	G41	AB128A	G1	G41
N160A	G47	G39	AB129A	G1	G41
N161A	G47	G36	AB130A	G1	G39
N187A	G46	G46	AB131A	G1	G36
N188A	G46	G41	AB156A	G47	G47
N189A	G46	G41	AB157A	G47	G46
N190A	G46	G39	AB158A	G47	G41
N191A	G46	G36	AB159A	G47	G41
N218A	G41	G41	AB160A	G47	G39
N219A	G41	G41	AB161A	G47	G36
N220A	G41	G39	AB187A	G46	G46
N221A	G41	G36	AB188A	G46	G41
N249A	G41	G41	AB189A	G46	G41
N250A	G41	G39	AB190A	G46	G39

TABLE H—OPERATING COILS
Two-unit Relays (Units Side by Side)
One of Each Coil Required per Complete Relay

Relay Model No.	Coil Catalog No.		Relay Model No.	Coil Catalog No.	
	Left Unit	Right Unit		Left Unit	Right Unit
12HGA14AB191A	6306774G46	6306774G36	12HGA14AY4A	6306774G13	6306774G13
AB218A	G41	G41	AY5A	G12	G12
AB219A	G41	G41	AY6A	G12	G7
AB220A	G41	G39	AY7A	G17	G13
AB221A	G41	G36	AY8A	G13	G10
AB249A	G41	G41	AY9A	G7	G10
AB250A	G41	G39	AY10A	G16	G16
AB251A	G41	G36	AY11A	G7	G17
AB280A	G39	G39	AY12A	G16	G3
AB281A	G39	G36	AY13A	G3	G17
AB311A	G36	G36	AY14A	G1	G17
AB312A	G36	G36	AY15A	G1	G1
AB341A	G13	G13	AY16A	G13	G3
AB342A	G13	G13	AY17A	G3	G13
AY1A	G7	G7	AY18A	G66	G66
AY2A	G3	G3	AY19A	G3	G20
AY3A	G10	G10			

GEF-2623, TYPE HGA RELAYS

TABLE V
COVER (NON-DRAWOUT)

Relay Model No.	Suffix	Cover	Relay Model No.	Suffix	Cover	Relay Model No.	Suffix	Cover
12HGA11A	none	6118536P1	12HGA12AE	none	6118536P4	12HGA17A	none	6118536P1
12HGA11A	G	6118588G1	12HGA12AE	G	6118588G3	12HGA17A	G	6118588G1
12HGA11A	F	6118588G6	12HGA12AE	C	389A848P1	12HGA17A	F	6118588G6
12HGA11H		no cover	12HGA14AF	none	6118536P4	12HGA17B		no cover
12HGA11J	none	6118536P4	12HGA12AF	G	6118588G3	12HGA17C	none	6118536P4
12HGA11J	G	6118588G3	12HGA12AF	C	389A848P1	12HGA17C	G	6118588G3
12HGA11J	C	389A848P1	12HGA14J	none	6375932P1	12HGA17D	none	6118536P4
12HGA11K		no cover	12HGA14J	G	6118588G3	12HGA17D	G	6118588G3
12HGA11L	none	6375932P1	12HGA14AL	none	6375932P1	12HGA17D	C	389A848P1
12HGA11M		no cover	12HGA14AL	G	6118588G3	12HGA17E	none	6118536P4
12HGA11P	none	6118536P4	12HGA14AL	C	389A848P1	12HGA17E	G	6118588G3
12HGA11S	none	6118536P4	12HGA14AM	none	6118536P1	12HGA17E	C	389A848P1
12HGA11S	G	6118588G3	12HGA14AM	G	6118588G1	12HGA17F	none	6118536P1
12HGA11T	N	not avail.	12HGA14AM	F	6118588G6	12HGA17F	G	6118588G1
12HGA14A	none	6118536P1	12HGA14AS	none	6375932P1	12HGA17F	F	6118588G6
12HGA14A	G	6118588G1	12HGA14AS	G	6118588G3	12HGA17H	none	6118536P1
12HGA14A	F	6118588G6	12HGA14AT	none	6118536P1	12HGA17H	G	6118588G1
12HGA14B	none	6118536P1	12HGA14AT	G	6118588G1	12HGA17H	F	6118588G6
12HGA14B	G	6118588G1	12HGA14AT	F	6118588G6	12HGA17M		no cover
12HGA14D	none	6118536P1	12HGA14AV	none	6152110G2	12HGA17R		no cover
12HGA14D	G	6118588G1	12HGA14BA	none	6375932P1	12HGA17S	none	6118536P4
12HGA14D	F	6118588G6	12HGA14BA	G	6118588G3	12HGA17T	none	6118536P4
12HGA14J	none	6118536P1	12HGA14BB	none	6118536P1	12HGA26A	none	6375932P1
12HGA14J	G	6118588G1	12HGA14BB	G	6118588G1	12HGA26A	G	6118588G3
12HGA14K	none	6118536P1	12HGA14BB	F	6118588G6	12HGA26B	none	6375932P1
12HGA14K	G	6118588G1	12HGA14BC	none	6375932P1	12HGA26B	G	6118588G3
12HGA14K	F	6118588G6	12HGA14BC	G	6118588G3	12HGA111A	none	6118536P1
12HGA14M	none	6375932P1	12HGA14BD	none	6118536P4	12HGA111A	F	6118588G6
12HGA14M	G	6118588G3	12HGA14BD	G	6118588G3	12HGA111J	none	6118536P4
12HGA14N	none	6118536P1	12HGA14BF		no cover	12HGA111S	none	6118588G3
12HGA14N	G	6118588G1	12HGA14BF	none	6118536P4			
12HGA14AD		no cover						

TABLE X
TARGET UNIT

Relay Model No.	Target Cat. No.	Relay Model No.	Target Cat. No.	Relay Model No.	Target Cat. No.
12HGA18F31A	6052735G15	12HGA18F41A	6052735G16	12HGA18F57A	6052735G36
F32A	G15	F42A	G16	F58A	G36
F33A	G15	F43A	G16	F59A	G15
F34A	G15	F44A	G16	F60A	G15
F35A	G15	F45A	G16	12HGA18J1A	G15
F36A	G16	F47A	G16	J2A	G16
F37A	G15	F48A	G16	J3A	G36
F38A	G15	F51A	G36	J4A	G16
F39A	G15	F52A	G36	J5A	G16
F40A	G21	F55A	G36	J6A	G15

TABLE Y
EXTERNAL AUXILIARIES

Relay Model No.	Resistor		Rectifier		Capacitor*	
	Cat. No.	No. Req.	Cat. No.	No. Req.	Cat. No.	No. Req.
12HGA11A61	IC9006C101A3000	1	—	—	—	—
A62	IC9006A101C7000	1	—	—	—	—
A63	IC9006C101A9000	1	—	—	—	—
A64	IC9006C101A11000	1	—	—	—	—
12HGA11A106	IC9006C101A2600	1	0295B0274G22	1	—	—
A150	IC9006C101A150	1	—	—	—	—
A174	IC9006C101A550	1	0295B0274G22	1	—	—
12HGA11H61	IC9006C101A3000	1	—	—	—	—
H62	IC9006C101A7000	1	—	—	—	—
H63	IC9006C101A9000	1	—	—	—	—
H64	IC9006C101A11000	1	—	—	—	—
H106	IC9006C101A2600	1	0295B0274G22	1	—	—
H150	IC9006C101A150	1	—	—	—	—
H174	IC9006C101A550	1	0295B0274G22	1	—	—
12HGA11J61	IC9006C101A3000	1	—	—	—	—
J62	IC9006C101A7000	1	—	—	—	—
J63	IC9006C101A9000	1	—	—	—	—
J64	IC9006C101A11000	1	—	—	—	—
J106	IC9006C101A2600	1	0295B0274G22	—	—	—
J150	IC9006C101A150	1	—	—	—	—
J174	IC9006C101A550	1	0295B0274G22	1	—	—
12HGA11K61	IC9006C101A3000	1	—	—	—	—
K62	IC9006C101A7000	1	—	—	—	—
K63	IC9006C101A9000	1	—	—	—	—
K64	IC9006C101A11000	1	—	—	—	—
K106	IC9006C101A2600	1	0295B0274G22	1	—	—
K150	IC9006C101A150	1	—	—	—	—
K174	IC9006C101A550	1	0295B0274G22	1	—	—
12HGA11A61	IC9006C101A3000	1	—	1	—	—
A62	IC9006C101A7000	1	—	1	—	—
A63	IC9006C101A9000	1	—	—	—	—
A64	IC9006C101A11000	1	—	1	—	—
A106	IC9006A101A3000	1	0295B0274G22	1	—	—
A149	—	—	0295B0274G22	1	—	—
A150	IC9006C101A150	1	—	—	—	—
12HGA14D1	403A321P5	1	—	—	246A9024P2500A	4
D2	403A321P7	1	—	—	246A9024P2500A	1
D3	403A321P7	1	—	—	246A9024P2500A	1
D4	403A321P8	1	—	—	246A9024P2500A	1
D5	403A321P8	1	—	—	246A9024P2500A	2
D6	403A321P7	1	—	—	246A9024P2500A	2
D7	403A321P7	1	—	—	246A9024P2500A	4
12HGA14 S16A	—	—	—	—	246A9024P2500A	2
12HGA14 AC1	—	—	—	—	246A9024P2500A	2
AC2	—	—	—	—	246A9024P1500A	2
AC3	—	—	—	—	246A9024P1500A	2
12HGA14AD61	IC9006C101A3000	1	—	—	—	—
AD62	IC9006C101A7000	1	—	—	—	—
AD63	IC9006C101A9000	1	—	—	—	—
AD64	IC9006C101A11000	1	—	—	—	—
AD106	IC9006C101A300	1	0295B0274G22	1	—	—
AD149	—	—	0295B0274G22	1	—	—
AD150	IC9006C101A150	1	—	—	—	—
12HGA14AE61	IC9006C101A3000	1	—	—	—	—
AE62	IC9006C101A7000	1	—	—	—	—
AE63	IC9006C101A9000	1	—	—	—	—
AE64	IC9006C101A11000	1	—	—	—	—
AE106	IC9006C101A300	1	0295B0274G22	1	—	—
AE149	—	—	0295B0274G22	1	—	—

*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.

GEF-2623, TYPE HGA RELAYS

TABLE Y
EXTERNAL AUXILIARIES (CONT'D)

Relay Model No.	Resistor		Rectifier		Capacitor*	
	Cat. No.	No. Req.	Cat. No.	No. Req.	Cat. No.	No. Req.
12HGA14AF61	IC9006C101A3000	1	—	—	—	—
AF62	IC9006C101A7000	1	—	—	—	—
AF63	IC9006C101A9000	1	—	—	—	—
AF64	IC9006C101A11000	1	—	—	—	—
AF106	IC9006C101A300	1	0295B0274G22	1	—	—
AF149	—	—	0295B0274G22	1	—	—
A150	IC9006C101A150	1	—	—	—	—
12HGA14AL25	IC9006C101A40	1	—	—	—	—
AL26	IC9006C101A20	1	—	—	—	—
AL28	IC9006C101A3	1	—	—	—	—
12HGA14AM31	IC9006C101A30	1	—	—	—	—
AM32	IC9006C101A15	1	—	—	—	—
12HGA14AU26	IC9006C101A20	1	—	—	—	—
12HGA14BA1	IC9006C101A750	1	—	—	—	—
BA2	IC9006C101A1500	1	—	—	—	—
BA3	IC9006C101A82	1	—	—	—	—
BA4	IC9006C101A25	1	—	—	—	—
12HGA14BB1	IC9006C101A750	1	—	—	—	—
BB2	IC9006C101A1500	1	—	—	—	—
BB3	IC9006C10182	1	—	—	—	—
12HGA14BD2	—	—	—	—	246A9024P2500A	1
BD5	—	—	—	—	246A9024P2500A	2
BD5	—	—	—	—	246A9024P2500A	2
BD6	—	—	—	—	246A9024P2500A	2
BD7	—	—	—	—	246A9024P2500A	4
BD8	—	—	—	—	246A9024P2500A	4
12HGA17A62	—	—	—	1	—	—
A63	IC9006C101A240	1	0295B0274G22	1	—	—
A64	IC9006C101A2200	1	0295B0274G22	—	—	—
A74	IC9006C102B6000	1	0295B0274G21	1	—	—
A76	IC9006C101A1800	1	0295B0274G22	1	—	—
A78	—	—	0295B0274G22	1	—	—
12HGA17B62	—	—	—	1	—	—
B63	IC9006C101A240	1	0295B0274G22	1	—	—
B64	IC9006C101A2200	1	0295B0274G22	—	—	—
B74	IC9006C102B6000	1	0295B0274G21	1	—	—
B76	IC9006C101A1800	1	0295B0274G22	1	—	—
B78	—	—	0295B0274G22	1	—	—
12HGA17C62	—	—	—	1	—	—
C63	IC9006C101A240	1	0295B0274G22	1	—	—
C64	IC9006C101A2200	1	0295B0274G22	—	—	—
C74	IC9006C102B6000	1	0295B0274G21	1	—	—
C76	IC9006C101A1800	1	0295B0274G22	1	—	—
C78	—	—	0295B0274G22	1	—	—
D62	—	—	—	1	—	—
D63	IC9006C101A240	1	0295B0274G22	1	—	—
D64	IC9006C101A2200	1	0295B0274G22	—	—	—
D74	IC9006C102B6000	1	0295B0274G21	1	—	—
D76	IC9006C101A1800	1	0295B0274G22	1	—	—
D78	—	—	0295B0274G22	1	—	—
12HGA17E62	—	—	—	1	—	—
E63	IC9006C101A240	1	0295B0274G21	1	—	—
E64	IC9006C101A2200	—	0295B0274G22	—	—	—
E74	IC9006C102B6000	1	0295B0274G21	1	—	—
E76	IC9006C101A1800	1	0295B0274G22	1	—	—
E78	—	—	0295B0274622	1	—	—
12HGA17F62	—	—	—	1	—	—
F63	IC9006C101A240	1	0295B0274G22	1	—	—
F64	IC9006C101A2200	1	0295B0274G22	—	—	—

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TABLE Y
EXTERNAL AUXILIARIES (CONT'D)

Relay Model No.	Resistor		Rectifier		Capacitor*	
	Cat. No.	No. Req.	Cat. No.	No. Req.	Cat. No.	No. Req.
12HGA17F74	IC9006C102B6000	1	0295B0274G21	1	—	—
F76	IC9006C101A1800	1	0295B0274G22	1	—	—
F78	—	—	0295B0274G22	1	—	—
12HGA17H62	—	—	—	1	—	—
H63	IC9006C101A240	1	0295B0274G22	1	—	—
H64	IC9006C101A2200	1	0295B0274G22	—	—	—
H74	IC9006C102B6000	—	0295B0274G21	1	—	—
H76	IC9006C101A1800	1	0295B0274G22	1	—	—
H78	—	—	0295B0274G22	1	—	—
12HGA17M62	—	—	—	1	—	—
M63	IC9006C101A240	1	0295B0274G22	1	—	—
M64	IC9006C101A2200	1	0295B0274G22	—	—	—
M74	IC9006C102B6000	1	0295B0274G21	—	—	—
M76	IC9006C101A1800	1	0295B0274G22	1	—	—
M78	—	—	0295B0274G22	1	—	—
12HGA17R62	—	—	—	1	—	—
R63	IC9006C101A240	1	0295B0274G22	1	—	—
R64	IC9006C101A2200	1	0295B0274G22	—	—	—
R74	IC9006C102B6000	1	0295B0274G21	—	—	—
R76	IC9006C101A1800	1	0295B0274G22	1	—	—
R78	—	—	0295B0274G22	1	—	—
12HGA17S62	—	—	—	1	—	—
S63	IC9006C101A240	1	0295B0274G22	1	—	—
S64	IC9006C101A2200	1	0295B0274G22	—	—	—
S74	IC9006C102B6000	1	0295B0274G21	1	—	—
S76	IC9006C101A1800	1	0295B0274G22	1	—	—
S78	—	—	0295B0274G22	1	—	—
12HGA17T62	—	—	—	1	—	—
T63	IC9006C101A240	1	0295B0274G22	1	—	—
T64	IC9006C101A2200	1	0295B0274G22	—	—	—
T74	IC9006C102B6000	1	0295B0274G21	—	—	—
T76	IC9006C101A1800	1	0295B027G22	1	—	—
T78	—	—	0295B0274G22	1	—	—
12HGA18E23A	—	—	—	—	246A9024P1500A	1
E25A	—	—	—	—	246A9024P2500A	1
E28A	—	—	—	—	246A9024P1500A	1
E29A	—	—	—	—	246A9024P2500A	1
E30A	—	—	—	—	246A9024P2500A	3
E34A	—	—	—	—	246A9024P2500A	4
E35A	—	—	—	—	246A9024P1500A	2
12HGA18F33A	—	—	—	—	246A9024P1500A	1
F35A	—	—	—	—	246A9024P2500A	1
F38A	—	—	—	—	246A9024P1500A	1
F39A	—	—	—	—	246A9024P2500A	2
F45A	—	—	—	—	246A9024P2500A	1
F48A	—	—	—	—	246A9024P1500A	1
12HGA18J1A	—	—	0295B0274G22	1	—	—
J2A	—	—	0295B0274G22	1	—	—
J3A	—	—	0295B0274G22	1	—	—
J4A	—	—	0295B0274G22	1	—	—
J5A	—	—	0295B0274G22	1	—	—
J6A	—	—	0295B0274G22	1	—	—
12HGA18E29A	—	—	—	—	246A9024P2500A	1
E30A	—	—	—	—	246A9024P2500A	3
E34A	—	—	—	—	246A9024P2500A	4
E35A	—	—	—	—	246A9024P1500A	2
12HGA18F33A	—	—	—	—	246A9024P1500A	1
F35A	—	—	—	—	246A9024P2500A	1
F38A	—	—	—	—	246A9024P1500A	1

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GEF-2623, TYPE HGA RELAYS

TABLE Y
EXTERNAL AUXILIARIES (CONT'D)

Relay Model No.	Resistor		Rectifier		Capacitor*	
	Cat. No.	No. Req.	Cat. No.	No. Req.	Cat. No.	No. Req.
12HGA18F39A	—	—	—	—	246A9024P2500A	2
12HGA18F45A	—	—	—	—	246A9024P2500A	1
F48A	—	—	—	—	246A9024P1500A	1
12HGA18H1A	—	—	0295B0274G22	1	—	—
H2A	—	—	0295B0274G22	1	—	—
12HGA18J1A	—	—	0295B0274G22	1	—	—
J2A	—	—	0295B0274G22	1	—	—
J3A	—	—	0295B0274G22	1	—	—
J4A	—	—	0295B0274G22	1	—	—
J5A	—	—	0295B0274G22	1	—	—
J6A	—	—	0295B0274G22	1	—	—

*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.



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