

Westinghouse

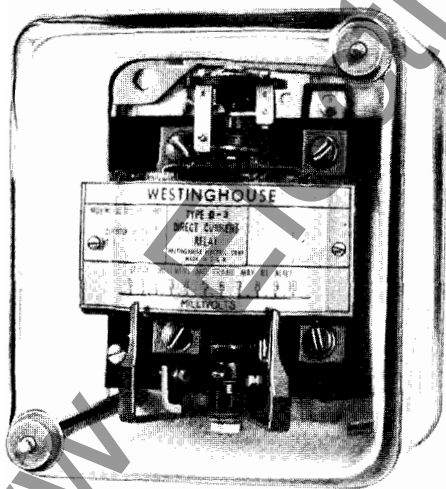


Relays
Type D-3, DT-3 and DGF

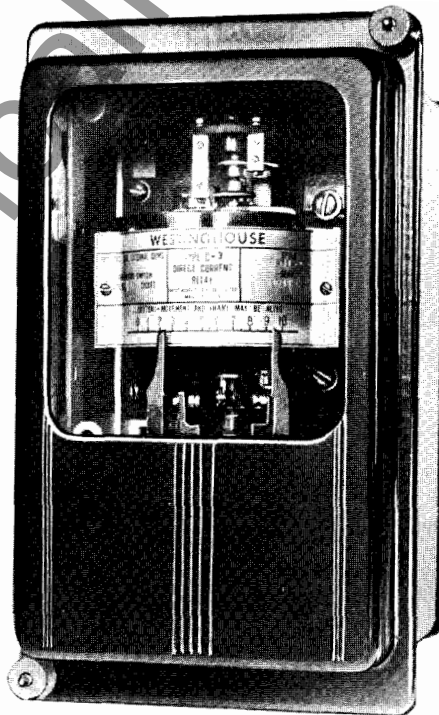
D-3 – Under, Over and Reverse Current
 DT-3 – Temperature
 DT-3 – Microns, Vacuum Measuring
 DGF – Generator Field, Ground Detector

Ordering Information

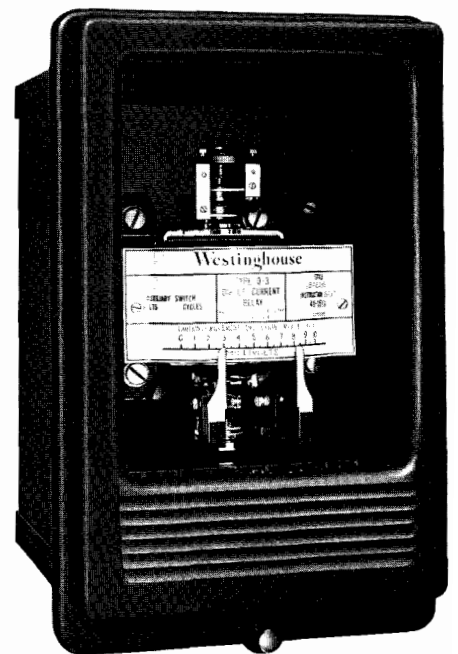
- Name the part and give its style number.
- Give the complete nameplate reading.
- State method of shipment desired.
- Send all orders or correspondence to nearest sales office of the company.



Standard Projection Case



Flexitest S-10 Case



Flexitest FT-21 Case

For FT-21 Flexitest case parts refer to RPD 41-076A1

November, 1971
 Supersedes RPD 41-151A1 dated June, 1966
 E. D. C/2781

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Style Numbers of Complete Relays

Description	Operating Range	Control Voltage	Relay in Standard Projection Case	Projection S-10 Flexitest Case ①	Flush S-10 Flexitest Case ①	FT-21 Flexitest Case	Internal Resistor	Internal Resistor	Moving Element Ref 15, Pg 7	Contact Switch 2 Required Ref 33, Pg 7
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Type D-3 Relays, Complete

Left Zero Scale, No Operation Indicator, No Contactor Switch	0-2 MA	1961 816	1339 324	719B248G15
	0-1.5 MV	.....	.....	.....	.....	1956 132	.....	.....	719B248G15	.....
	0-10 MV	.....	1542 331	1542 341	1542 336	1876 035	.....	.....	719B248G14	.....
	0-20 Volts	.....	.....	.....	.....	1961 267	1267 209	.....	719B248G14	.....
	0-40 MV	.....	.....	.....	.....	1955 729	1276 966	.....	719B248G14	.....
	0-50 MV	.....	.....	.....	1955 737	1956 888	.....	.....	719B248G14	.....
	0-50 MV	.....	1955 419	.....	.....	1955 867	1276 966	.....	719B248G14	.....
	0-75 MV	.....	.....	.....	.....	1956 827	1276 966	.....	719B248G14	.....
	0-100 MV	.....	.....	.....	1955 469	288B869A17	1276 966	.....	719B248G14	.....
	0-125 Volts	.....	.....	.....	1726 867	1956 626	1202 591	.....	719B248G14	.....
0-150 MV	.....	1955 731	.....	.....	288B869A16	1276 966	.....	719B248G14	.....
0-150 Volts 0-200 MV 0-200 Volts	.....	.....	.....	1726 779	1955 798	1267 303	.....	719B248G14	.....
	.....	1542 335	1542 345	1542 340	1876 036	1276 966	.....	719B248G14	.....
	.....	.....	.....	.....	1961 307	1205 222	.....	719B248G14	.....
Center Zero, No Operation Indicator, No Contactor Switch	.75-0-.75 MA	.....	1731 412	.....	.....	1956 890	.....	.....	719B248G15	.....
	5-0-5 MV	.....	1542 332	1542 342	1542 337	1876 037	.....	.....	719B248G14	.....
	50-0-50 MV	.....	1956 545	.....	.....	1961 205	1276 966	.....	719B248G14	.....
	80-0-80 MV	.....	.....	.....	.....	1956 158	1276 966	.....	719B248G14	.....
	100-0-100 MV	.....	1542 334	1544 344	1542 339	1876 038	1276 966	.....	719B248G14	.....
	100-0-100 MA	.....	.....	.....	.....	289B869A22	.....	.....	719B248G17	.....
100-0-100 MV	.....	.....	.....	.....	288D869A19	1270 598	.....	719B248G16	.....
Center Zero With Two Contactor Switches	5-0-5 MV DC	48 Volts DC	.....	.....	.....	1878 292	1267 283	.....	719B248G14	1008 923
	5-0-5 MV DC	125 Volts DC	.....	.....	.....	1878 152	1208 342	.....	719B248G14	1008 923
	5-0-5 MV DC	250 Volts DC	.....	.....	.....	1878 153	1267 314	.....	719B248G14	289B990G09
	50-0-50 MV DC	250 Volts DC	.....	.....	.....	288B868A32	1267 314	.....	719B248G14	289B990G09
Suppressed Zero, No Oper. Indicator, No Contactor Switch	20-40 Volts	.....	.....	.....	.....	288B869A14	1267 283	.....	719B248G14	.....
	20-60 MV	.....	.....	.....	1956 891	1956 891	1276 966	.....	719B248G14	.....
	40-80 MV	.....	1542 333	1542 343	1542 338	1876 040	1276 966	.....	719B248G14	.....
	40-80 Volts DC	.....	.....	.....	.....	289B869A23	1202 493	.....	719B248G14	.....
75-150 MV	.....	.....	.....	.....	289B869A15	1267 297	.....	719B248G14	.....
Left Zero With Two Contactor Switches	0-10 MV DC	48 Volts DC	.....	.....	.....	288B868A13	.....	1267 283	719B248G14	1008 923
	0-10 MV DC	125 Volts DC	.....	.....	.....	288B868A14	.....	1208 342	719B248G14	1008 923
	0-10 MV DC	250 Volts DC	.....	.....	.....	288B868A15	.....	1276 314	719B248G14	289B990G09
	0-10 MV DC	250 Volts DC	.....	.....	.....	1961 370	.....	1267 306	719B248G14	1008 923
	0-50 MV DC	125 Volts DC	.....	.....	.....	288B868A31	1208 342	.....	719B248G14	289B990G09
	0-75 Volts DC	48 Volts DC	.....	.....	.....	288B868A28	1267 283	1267 297	719B248G14	1008 923
	0-75 Volts DC	125 Volts DC	.....	.....	.....	288B868A29	1208 342	1267 297	719B248G14	1008 923
	0-75 Volts DC	250 Volts DC	.....	.....	.....	288B868A30	1267 297	1267 314	719B248G14	289B990G09
	0-100 MV DC	48 Volts DC	.....	.....	.....	288B868A16	.....	1267 283	719B248G14	1008 923
	0-100 MV DC	125 Volts DC	.....	.....	.....	288B868A17	.....	1208 342	719B248G14	1008 923
	0-100 MV DC	250 Volts DC	.....	.....	.....	288B868A18	.....	1267 314	719B248G14	289B990G09
	0-150 Volts DC	48 Volts DC	.....	.....	.....	288B868A22	1202 591	1267 283	719B248G14	1008 923
	0-150 Volts DC	125 Volts DC	.....	.....	.....	288B868A23	1202 591	1208 342	719B248G14	1008 923
	0-150 Volts DC	250 Volts DC	.....	.....	.....	288B868A24	1202 591	1267 314	719B248G14	289B990G09
	0-200 MV DC	48 Volts DC	.....	.....	1726 891	288B868A19	.....	1267 283	719B248G14	1008 923
	0-200 MV DC	125 Volts DC	.....	.....	.....	288B868A20	.....	1208 342	719B248G14	1008 923
	0-200 MV DC	250 Volts DC	.....	.....	.....	288B868A21	1276 966	1267 314	719B248G14	289B990G09
	0-250 Volts DC	48 Volts DC	.....	.....	.....	288B868A25	1267 283	1205 219	719B248G14	1008 923
	0-250 Volts DC	125 Volts DC	.....	.....	.....	288B868A26	1208 342	1205 219	719B248G14	1008 923
	0-250 Volts DC	250 Volts DC	.....	.....	.....	288B868A27	1267 314	1205 219	719B248G14	289B990G09

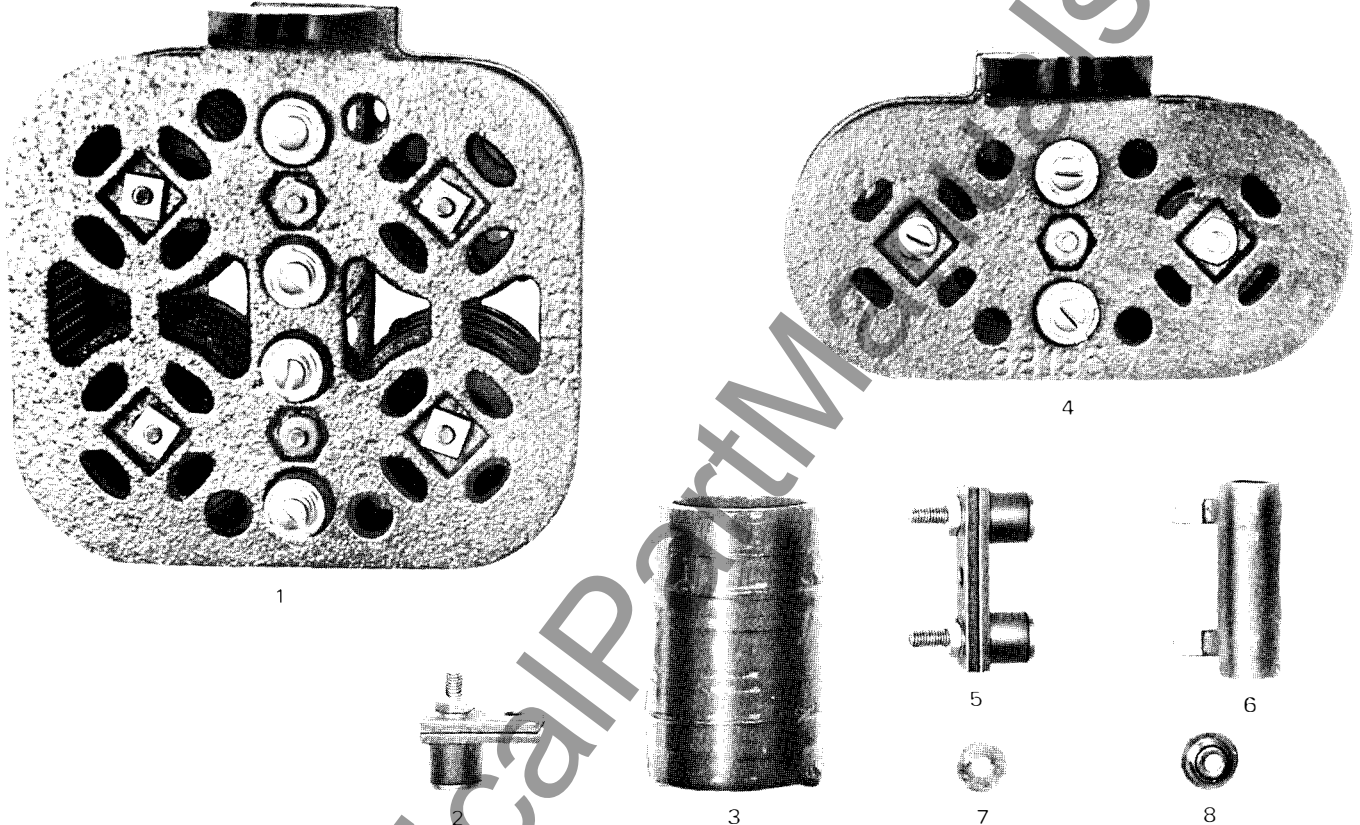
① Case and cover parts for obsolete S-10 Flexitest cases are not available.

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Relays Type D-3, DT-3 and DGF

D-3 – Under, Over and Reverse Current
DT-3 – Temperature
DT-3 – Microns, Vacuum Measuring
DGF – Generator Field, Ground Detector

Renewal Parts for External Bridge Box and External Resistor Used With DT-3 Relays



For Application of External Resistor and Bridge Boxes, See Page 5.

Resistor Values (For Resistors See pages 2 and 5)

Reference Number	Description of Parts	Style Number of Part	Number Required	Style	Ohms
①	Bridge box complete.....	1537 111	1	05D1327H62	.315
2	Terminal.....	422 571	4	17D3199G28	13.47
★④③	Resistor, 125 ohms.....	1336 143	1	182A915H01	325
★④③	Resistor, 12.5 ohms.....	1338 657	3	184A064H01	23000
⑤①	Bridge box complete.....	1163 619	1	184A064H02	45000
				1202 586	200
2	Terminal.....	422 571	4	1202 591	4000
★④③	Resistor, 12.5 ohms.....	1338 657	3	1205 214	5000
★④③	Resistor, 56 ohms.....	1267 324	1	1205 215	10000
⑤④	Resistor complete.....	1537 109	1	1205 216	250
5	Terminal.....	477 751	1		
				1205 222	6000
★6	Resistor, 200 ohms.....	1202 586	2	1208 342	3550
7	Mica washer.....	1201 886	1	1267 209	630
8	Centering washer.....	1202 559	2	1267 283	600
⑤⑦	Resistor complete.....	1878 239	1	1267 285	750
★6	Resistor, 1320 ohms.....	1876 260	1		
				1267 297	2240
⑤⑦	Resistor complete.....	1333 490	1	1267 303	4750
★6	Resistor, 1000 ohms.....	04D1301H81	1	1267 306	6300
7	Mica washer for mounting tubular resistors.....	1201 886	.	1270 598	12.88
8	Centering washer for mounting tubular resistors.....	1202 559	.	1276 314	11200
				1276 963	4
				1276 966	8
				1338 657	12.5
				1730 913	15000
				1878 234	95
				1955 691	28000

Parts indented are included in the part under which they are indented
 ④ Resistors are not exact duplicates of old large resistor, but can be used as a replacement.
 ⑤ Do not order complete box. If complete box is needed, contact sales department to add resistance as required internally in relay. Specify style number of relay and external box.
 ⑥ Instead of center tap 2 x 12.5 ohms, use two 12.5-ohm resistors.
 ⑦ Not illustrated. ★ Recommended for stock

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Style Numbers of Complete Relays (Continued from page 2)

Scale Range	Voltage	Relay in Standard Case	Projection S-10 Flexitest Case①	Flush S-10 Flexitest Case①	F-21 Flexitest Case
Type DT-3 Relays, Complete					
50-190°C	120 Volts AC	.....	.....	.....	1961 834
50-190°C	240 Volts AC	.....	.....	.....	288B881A26
50-190°C	240 Volt 60 HZ	.....	.....	.....	1962 311
50-190°C	120 Volt 60 HZ	.....	.....	.....	1963 900
	24 Volt DC	.....	.....	.....
50-190°C	240 Volt 60 HZ	.....	.....	.....	1963 760
	48 Volt DC	.....	.....	.....
50-190°C	120 Volt 50 HZ	.....	.....	.....	1963 589
	48 Volt DC	.....	.....	.....
50-190°C	240 Volt 50 HZ	.....	.....	.....	288B881A24
	48 Volt DC	.....	.....	.....
50-190°C	120 Volt 60 HZ	.....	.....	.....	1961 834
	125 Volt DC	.....	.....	.....
50-190°C	240 Volt 60 HZ	.....	.....	.....	288B881A26
	125 Volt DC	.....	.....	.....
50-190°C	125 Volt DC	.....	.....	.....	1963 345
50-190°C	250 Volt DC	.....	.....	.....	288B881A28
50-190°C	120 Volt 60 HZ	.....	.....	.....	288B881A29
	48 Volt DC	.....	.....	.....
50-190°C	120 Volt 60 HZ	.....	.....	.....	288B881A30
	250 Volt DC	.....	.....	.....
50-190°C	120 Volt 60 HZ	.....	.....	.....	1963 526
50-190°C	120 Volt 60 HZ	.....	.....	.....	288B881A32
	125 Volt DC	.....	.....	.....
50-190°C	120 Volt 60 HZ	.....	.....	.....	1962 961
50-190°C	240 Volt 60 HZ	.....	.....	.....	1963 901
50-190°C	120 Volt 60 HZ	.....	.....	.....	1962 384
	48 Volt DC	.....	.....	.....
50-190°C	120 Volt 60 HZ	.....	.....	.....	1963 754
60-120°C	20 Volts DC	1729 031	1729 033	1729 032	.....
60-120°C	20 Volts DC	.....	.....	.....	1876 041
60-120°C	125 Volts DC	1542 346	1542 360	1542 348	.....
60-120°C	125 Volts DC	.....	.....	.....	1876 042
60-120°C	250 Volts DC	1729 034	1729 036	1729 035	.....
60-120°C	250 Volts DC	.....	.....	.....	1876 043
60-140°C	20 Volts DC	.....	.....	.....	1961 560

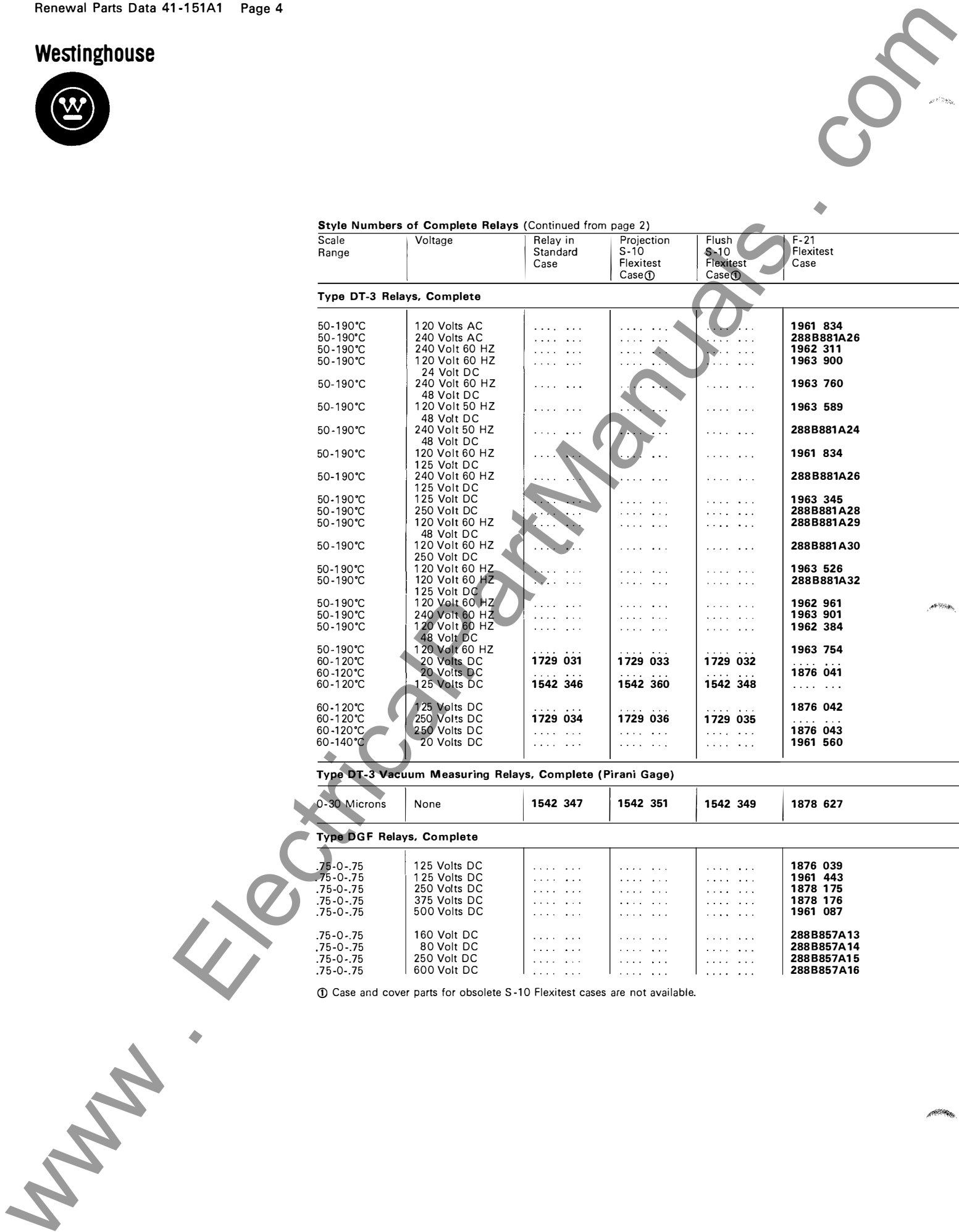
Type DT-3 Vacuum Measuring Relays, Complete (Pirani Gage)

0-30 Microns	None	1542 347	1542 351	1542 349	1878 627
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Type DGF Relays, Complete

.75-0-.75	125 Volts DC	1876 039
.75-0-.75	125 Volts DC	1961 443
.75-0-.75	250 Volts DC	.....	.....	.....	1878 175
.75-0-.75	375 Volts DC	.....	.....	.....	1878 176
.75-0-.75	500 Volts DC	.....	.....	.....	1961 087
.75-0-.75	160 Volt DC	.....	.....	.....	288B857A13
.75-0-.75	80 Volt DC	.....	.....	.....	288B857A14
.75-0-.75	250 Volt DC	.....	.....	.....	288B857A15
.75-0-.75	600 Volt DC	.....	.....	.....	288B857A16

① Case and cover parts for obsolete S-10 Flexitest cases are not available.



Type D-3, DT-3 end DGF Relays

D-3 – Under, Over and Reverse Current
 DT-3 – Temperature
 DT-3 – Microns, Vacuum Measuring
 DGF – Generator Field, Ground Detector

Internal Resistor	Internal Resistor	External Resistor	External Bridge Box	Internal Transformer	Contact Switch	Plate Assembly	Operation Indicator	Varistor
Ref. 28 Page 7	Ref. 32 Page 7	Ref. 4 Pg 3 1 Required	Ref. 1 Pg 3 1 Required	(Not Illus) 1 Required	Ref. 33 Page 7			Ref. 34 Page 7

05D1327H62②	1267 306	.....	.....	290B067G01	.....	.....	.....	.....
05D1327H62②	1267 306	.....	.....	290B067G02	.....	184A448G01	.....	.....
05D1327H62②	.....	.....	.....	290B067G02	1267 522	184A448G01	704 899	.....
05D1327H62②	1202 586	.....	.....	290B067G01	.....	.....	.....	.....
05D1327H62②	1205 216	.....	.....	290B067G02	289B990G09	184A448G01	.....	.....
05D1327H62②	1205 216	.....	.....	290B067G01	289B990G09	184A448G01	.....	.....
05D1327H62②	1267 306	.....	.....	290B067G02	289B990G09	184A448G01	.....	.....
05D1327H62②	1267 306	.....	.....	290B067G01	289B990G09	184A448G01	.....	.....
05D1327H62②	1267 306	.....	.....	290B067G02	289B990G09	184A448G01	.....	.....
1267 285②	1267 306	.....	.....	289B990G09	289B990G09	.....	.....	.....
17D3199G28③	1267 314	290B664G58	.....	289B990G09	289B990G09	.....	.....	.....
05D1327H62②	1205 216	.....	.....	290B067G01	289B990G09	184A448G01	704 899	.....
05D1327H62②	1267 314	.....	.....	290B067G01	289B990G09	184A448G01	704 899	.....
05D1327H62②	.....	.....	.....	290B067G01	.....	184A448G01	704 899	.....
05D1327H62②	1267 306	.....	.....	290B067G01	289B990G09	184A448G01	704 899	.....
05D1327H62②	1205 214	.....	.....	290B067G01	289B990G09	184A448G01	.....	.....
05D1327H62②	1205 216	.....	.....	290B067G02	289B990G09	184A448G01	704 899	.....
05D1327H62②	1205 216	.....	.....	290B067G01	289B990G09	184A448G01	.....	.....
05D1327H62②	1205 214	.....	.....	290B067G01	290B478G09	184A448G01	704 899	.....
1338 657③	1878 234	.....	1163 619	.....	.....	.....	.....	.....
.....	.....	1537 109	1537 111	.....	.....	.....	.....	.....
1338 657③	182A915H01	.....	.....	.....	.....	.....	.....	.....
.....	.....	1333 490	1537 111	.....	.....	.....	.....	.....
1338 657③	.....	1878 239	.....	.....	.....	.....	.....	.....
1270 598③	1878 234	.....	.....	.....	.....	.....	.....	.....

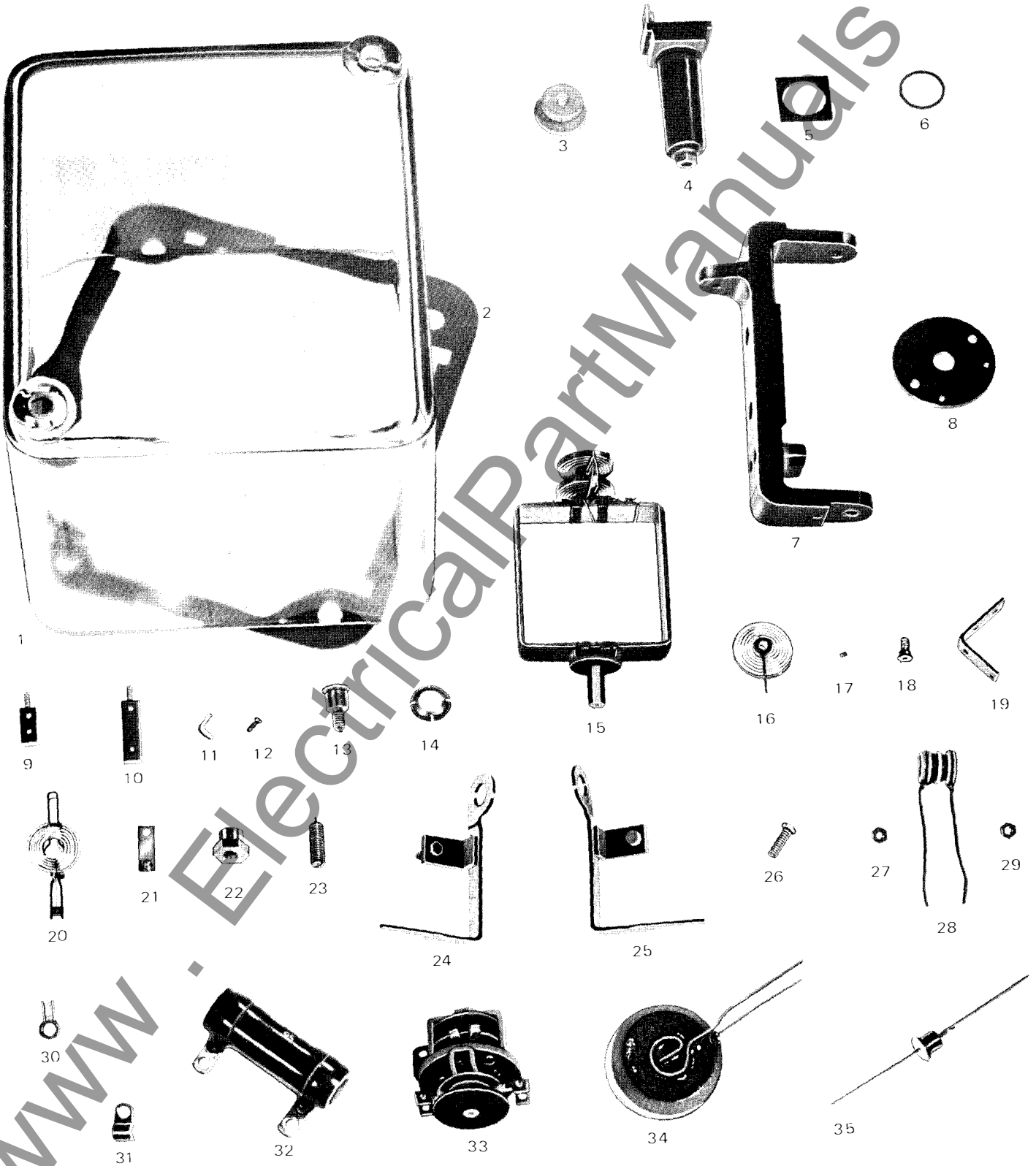
1276 969

.....	184A064H02	.....	183A122H01	.....	.....	.....	.....	.....
184A064H01	184A064H02	289B990G01	183A122H01	.....	.....	.....	.....	.....
184A064H01	1205 214	.....	183A122H01	.....	.....	.....	.....	.....
1955 691	1205 215	.....	183A122H01	.....	.....	.....	.....	.....
.....	184A064H02	.....	183A122H01	.....	.....	.....	.....	.....
184A064H01	.....	.....	.....	.....	.....	.....	.....	183A122H01
1267 297	.....	.....	.....	.....	.....	.....	.....	763A947H01
184A064H01	1730 913	704 899	183A122H01
184A064H02	185A273G23	183A122H01

② 2 required
 ③ 3 required

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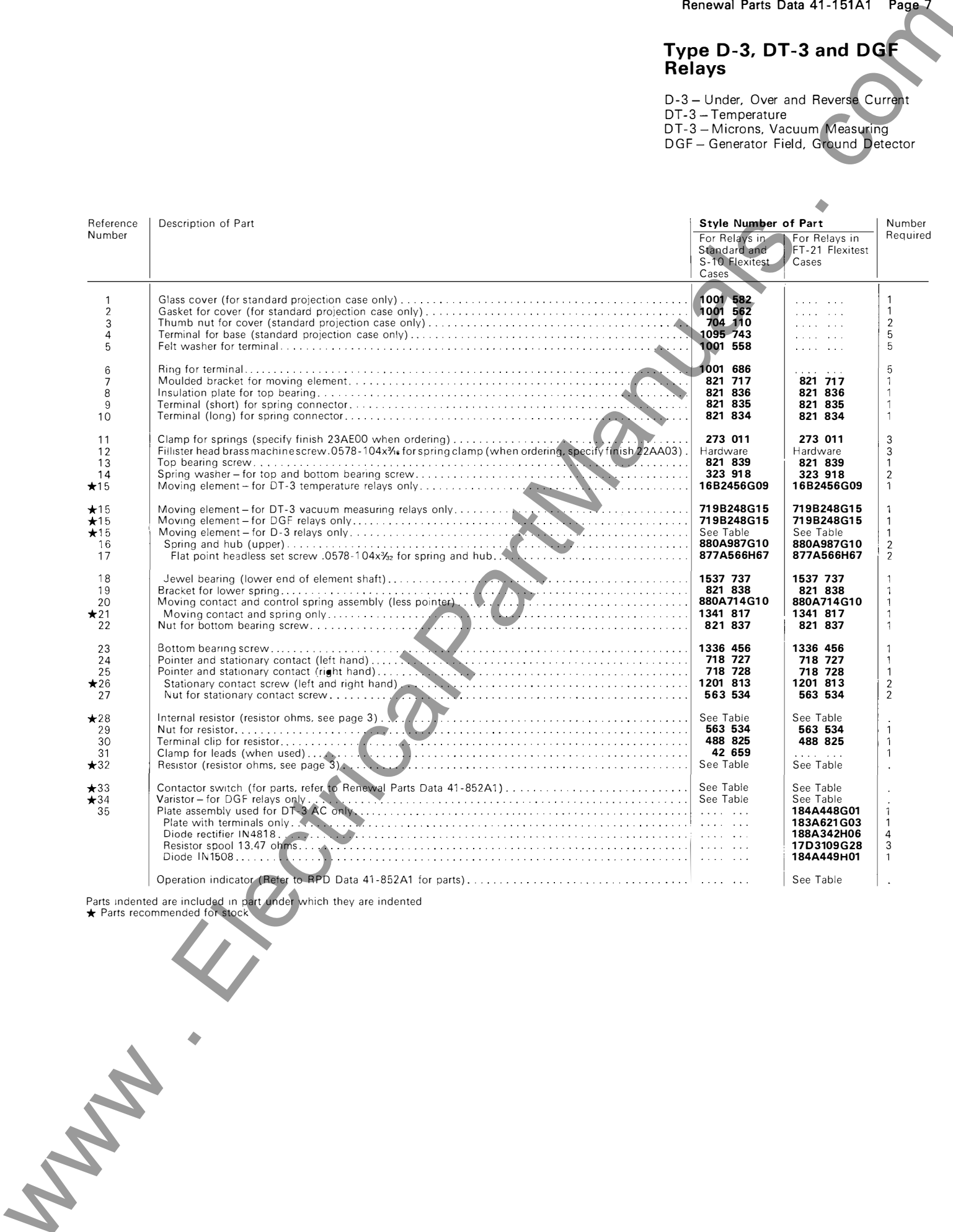
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Type D-3, DT-3 and DGF Relays

D-3 – Under, Over and Reverse Current
 DT-3 – Temperature
 DT-3 – Microns, Vacuum Measuring
 DGF – Generator Field, Ground Detector

Reference Number	Description of Part	Style Number of Part		Number Required
		For Relays in Standard and S-10 Flexitest Cases	For Relays in FT-21 Flexitest Cases	
1	Glass cover (for standard projection case only)	1001 582		1
2	Gasket for cover (for standard projection case only)	1001 562		1
3	Thumb nut for cover (standard projection case only)	704 110		2
4	Terminal for base (standard projection case only)	1095 743		5
5	Felt washer for terminal	1001 558		5
6	Ring for terminal	1001 686		5
7	Moulded bracket for moving element	821 717	821 717	1
8	Insulation plate for top bearing	821 836	821 836	1
9	Terminal (short) for spring connector	821 835	821 835	1
10	Terminal (long) for spring connector	821 834	821 834	1
11	Clamp for springs (specify finish 23AE00 when ordering)	273 011	273 011	3
12	Fillister head brass machine screw .0578-104x $\frac{7}{16}$ for spring clamp (when ordering, specify finish 22AA03)	Hardware	Hardware	3
13	Top bearing screw	821 839	821 839	1
14	Spring washer – for top and bottom bearing screw	323 918	323 918	2
★15	Moving element – for DT-3 temperature relays only	16B2456G09	16B2456G09	1
★15	Moving element – for DT-3 vacuum measuring relays only	719B248G15	719B248G15	1
★15	Moving element – for DGF relays only	719B248G15	719B248G15	1
★15	Moving element – for D-3 relays only	See Table	See Table	1
16	Spring and hub (upper)	880A987G10	880A987G10	2
17	Flat point headless set screw .0578-104x $\frac{7}{16}$ for spring and hub	877A566H67	877A566H67	2
18	Jewel bearing (lower end of element shaft)	1537 737	1537 737	1
19	Bracket for lower spring	821 838	821 838	1
20	Moving contact and control spring assembly (less pointer)	880A714G10	880A714G10	1
★21	Moving contact and spring only	1341 817	1341 817	1
22	Nut for bottom bearing screw	821 837	821 837	1
23	Bottom bearing screw	1336 456	1336 456	1
24	Pointer and stationary contact (left hand)	718 727	718 727	1
25	Pointer and stationary contact (right hand)	718 728	718 728	1
★26	Stationary contact screw (left and right hand)	1201 813	1201 813	2
27	Nut for stationary contact screw	563 534	563 534	2
★28	Internal resistor (resistor ohms, see page 3)	See Table	See Table	.
29	Nut for resistor	563 534	563 534	1
30	Terminal clip for resistor	488 825	488 825	1
31	Clamp for leads (when used)	42 659		1
★32	Resistor (resistor ohms, see page 3)	See Table	See Table	.
★33	Contact switch (for parts, refer to Renewal Parts Data 41-852A1)	See Table	See Table	.
★34	Varistor – for DGF relays only	See Table	See Table	.
35	Plate assembly used for DT-3 AC only		184A448G01	1
	Plate with terminals only		183A621G03	1
	Diode rectifier 1N4818		188A342H06	4
	Resistor spool 13.47 ohms		17D3109G28	3
	Diode 1N1508		184A449H01	1
	Operation indicator (Refer to RPD Data 41-852A1 for parts)		See Table	.

Parts indented are included in part under which they are indented
 ★ Parts recommended for stock



Type D-3, DT-3 and DGF Relays

D-3 – Under, Over and Reverse Current

DT-3 – Temperature

DT-3 – Microns, Vacuum Measuring

DGF – Generator Field, Ground Detector

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Auxiliary Relays

Type SG and SG-2



Rating	Style Number of Relays								Style Number of Operating Coil	
	Rear Connected - Closed Type DPDT				Front Connected					
	Molded Case			Flexitest Case®	Closed Type DPDT		Open Type			
	Projection	Projection with Window	Semi-flush with Window	Single Unit FT-11 Case	Double Unit FT-22 Case	Projection Solid Cover	Projection Glass Window	DPST Reversible Contacts	DPDT	

Direct Current

1 Amp	1157 848	1162 959	1342 932	1878 755	1955 556	293B254A09	293B255A09	1157 852	1875 946	1059 282
2 Amp	1729 023	1729 024	1729 025	1878 756	1955 557	293B254A10	293B255A10	1729 026	1729 027	1059 283
3 Amp	1157 849	1162 960	1342 933	1878 757	1955 558	293B254A11	293B255A11	1157 853	1875 947	1059 284
4 Amp	1956 249	1956 253	1956 257	1878 758	1956 447	293B254A12	293B255A12	1956 261	1956 245	1059 285
5 Amp	1157 850	1162 961	1342 934	1878 759	1955 559	293B254A13	293B255A13	1157 854	1875 948	1059 286
6 Volts	1343 116	1340 082	1343 117	1878 760	1955 560	293B254A14	293B255A14	1338 226	1340 727	1008 511
12 Volts	1155 686	1162 949	1343 118	1878 761	1955 561	293B254A15	293B255A15	1059 230	1205 619	1008 514
24 Volts	1155 687	1162 950	1342 923	1878 762	1955 562	293B254A16	293B255A16	1059 231	1205 620	1008 517
32 Volts	1729 011	1729 012	1729 013	1878 763	1955 563	293B254A17	293B255A17	1729 014	1729 015	1008 518
48 Volts	1155 688	1162 951	1342 924	1878 764	1955 564	293B254A18	293B255A18	1008 534	1205 612	1008 520
62.5 Volts	1729 017	1729 018	1729 019	1878 765	1955 565	293B254A19	293B255A19	1729 020	1729 021	1008 521
125 Volts	1155 689	1162 952	1342 925	1878 766	1955 566	293B254A20	293B255A20	1008 535	1161 540	1008 524
220 Volts	.....	.....	.....	.....	.....	293B254A38	.....	.....	.....	406C860G38
250 Volts	1343 088	1343 089	1343 090	1878 767	1955 567	293B254A21	293B255A21	1337 424	1210 936	1155 128

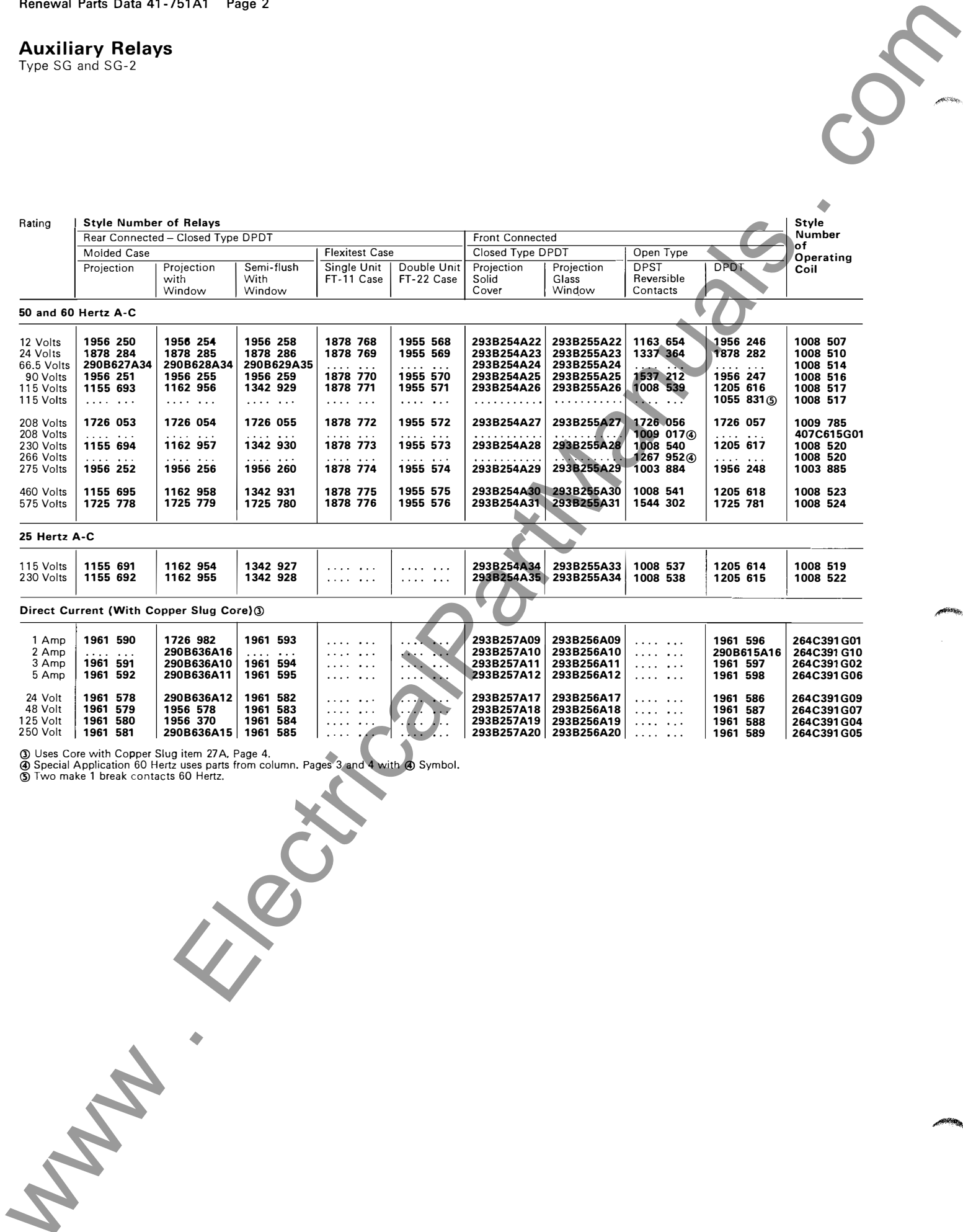
© For Flexitest case parts refer to RPD 41-076A1

Auxiliary Relays

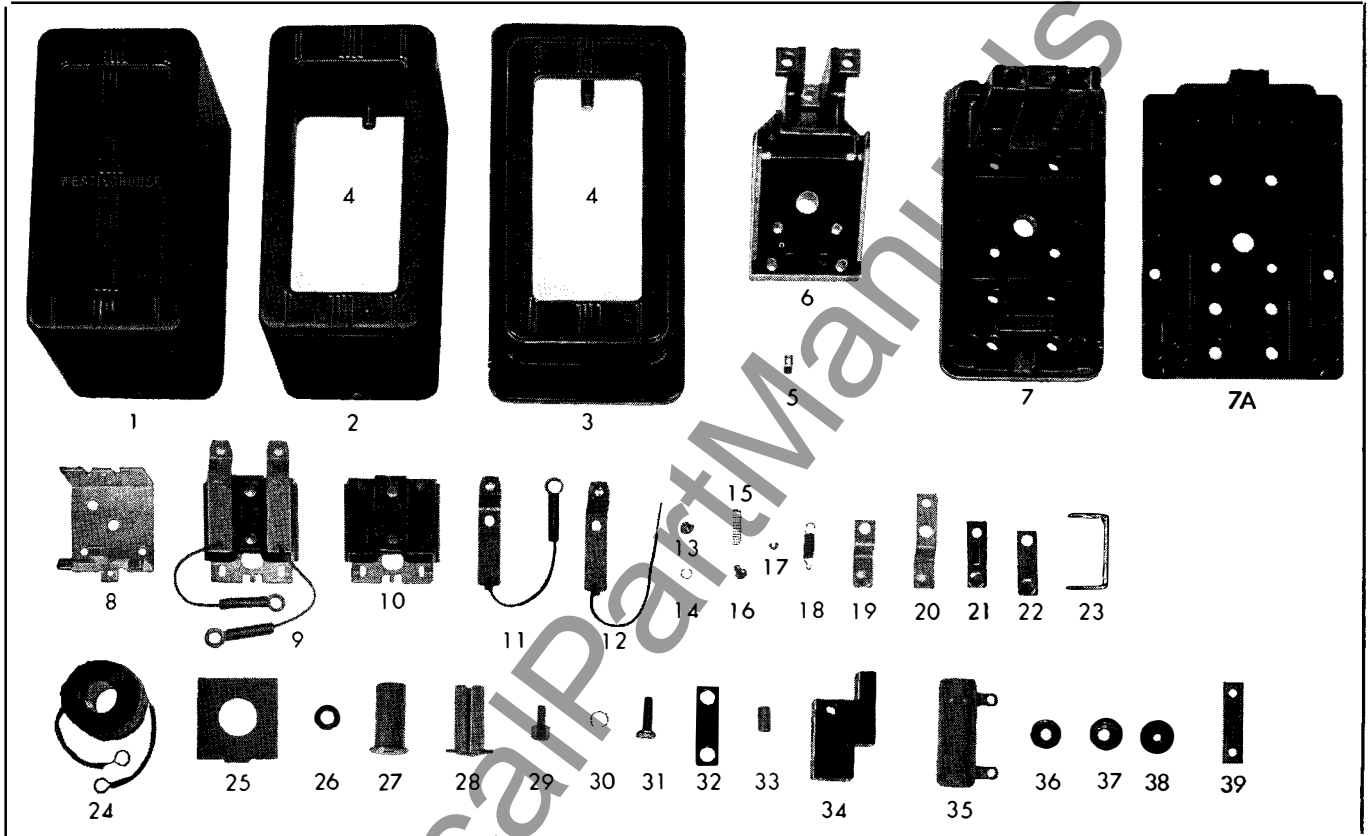
Type SG and SG-2

Rating	Style Number of Relays									Style Number of Operating Coil
	Rear Connected – Closed Type DPDT					Front Connected				
	Molded Case			Flexitest Case		Closed Type DPDT		Open Type		
	Projection	Projection with Window	Semi-flush With Window	Single Unit FT-11 Case	Double Unit FT-22 Case	Projection Solid Cover	Projection Glass Window	DPST Reversible Contacts	DPDT	
50 and 60 Hertz A-C										
12 Volts	1956 250	1956 254	1956 258	1878 768	1955 568	293B254A22	293B255A22	1163 654	1956 246	1008 507
24 Volts	1878 284	1878 285	1878 286	1878 769	1955 569	293B254A23	293B255A23	1337 364	1878 282	1008 510
66.5 Volts	290B627A34	290B628A34	290B629A35	.....	.....	293B254A24	293B255A24	.....	.....	1008 514
90 Volts	1956 251	1956 255	1956 259	1878 770	1955 570	293B254A25	293B255A25	1537 212	1956 247	1008 516
115 Volts	1155 693	1162 956	1342 929	1878 771	1955 571	293B254A26	293B255A26	1008 539	1205 616	1008 517
115 Volts	.....	.....	.....	.....	.....	.....	.....	.....	1055 831 ^⑤	1008 517
208 Volts	1726 053	1726 054	1726 055	1878 772	1955 572	293B254A27	293B255A27	1726 056	1726 057	1009 785
208 Volts	.....	.....	.....	.....	.....	.....	.....	1009 017 ^④	.....	407C615G01
230 Volts	1155 694	1162 957	1342 930	1878 773	1955 573	293B254A28	293B255A28	1008 540	1205 617	1008 520
266 Volts	.....	.....	.....	.....	.....	.....	.....	1267 952 ^④	.....	1008 520
275 Volts	1956 252	1956 256	1956 260	1878 774	1955 574	293B254A29	293B255A29	1003 884	1956 248	1003 885
460 Volts	1155 695	1162 958	1342 931	1878 775	1955 575	293B254A30	293B255A30	1008 541	1205 618	1008 523
575 Volts	1725 778	1725 779	1725 780	1878 776	1955 576	293B254A31	293B255A31	1544 302	1725 781	1008 524
25 Hertz A-C										
115 Volts	1155 691	1162 954	1342 927	.....	.....	293B254A34	293B255A33	1008 537	1205 614	1008 519
230 Volts	1155 692	1162 955	1342 928	.....	.....	293B254A35	293B255A34	1008 538	1205 615	1008 522
Direct Current (With Copper Slug Core) ③										
1 Amp	1961 590	1726 982	1961 593	.....	.....	293B257A09	293B256A09	.....	1961 596	264C391 G01
2 Amp	.....	290B636A16	.....	.....	.....	293B257A10	293B256A10	.....	290B615A16	264C391 G10
3 Amp	1961 591	290B636A10	1961 594	.....	.....	293B257A11	293B256A11	.....	1961 597	264C391 G02
5 Amp	1961 592	290B636A11	1961 595	.....	.....	293B257A12	293B256A12	.....	1961 598	264C391 G06
24 Volt	1961 578	290B636A12	1961 582	.....	.....	293B257A17	293B256A17	.....	1961 586	264C391 G09
48 Volt	1961 579	1956 578	1961 583	.....	.....	293B257A18	293B256A18	.....	1961 587	264C391 G07
125 Volt	1961 580	1956 370	1961 584	.....	.....	293B257A19	293B256A19	.....	1961 588	264C391 G04
250 Volt	1961 581	290B636A15	1961 585	.....	.....	293B257A20	293B256A20	.....	1961 589	264C391 G05

③ Uses Core with Copper Slug item 27A, Page 4.
 ④ Special Application 60 Hertz uses parts from column, Pages 3 and 4 with ④ Symbol.
 ⑤ Two make 1 break contacts 60 Hertz.



Auxiliary Relays
Type SG and SG-2



Reference Number	Description of Part	Style Number of Part				
		Rear Connected		Front Connected		
		Closed Type		Closed Type	Open Type	
		Molded Case	Flexitest Case	Projection Case	DPST DPDT	Special Application④
1	Cover for projection relays.....	19C0484G04	.....	34A0471H05	.....	.....
2	Cover for projection relays with window.....	19C0483G05	.....	293B233G01	.....	.....
3	Cover for semi-flush relay with window.....	1537 707	.....	.....	.....	.....
4	Glass.....	836 171	.....	1958 079	.....	.....
5	Clips.....	838 123	.....	838 123	.....	.....
6	Base for open type and Flexitest case.....	.....	821 999	.....	821 999	1335 570
7	Base for semi-flush.....	02B1377G05	.....	.....	.....	.....
7	Base for projection.....	02B1377G04	.....	.....	.....	.....
7A	Base for projection, front connected.....	.....	.....	541D611H01	.....	.....
8	Yoke.....	1340 454	1340 454	1340 454	1340 454	668 593
9★	Armature complete.....	1163 647	1163 647	1163 647	1163 647	56B0980G01
10	Armature block.....	1543 718	1543 718	1543 718	1543 718	1544 940
11	Moving contact and lead.....	1725 270②	1725 270②	1725 270②	1725 270②	1725 270①
12	Moving contact and lead.....	.....	.....	.....	.....	1726 341①
13	Bushing through contact arm.....	1008 223	1008 223	1008 223	1008 223	1008 223
14	Spring between contact arm and armature.....	1001 025	1001 025	1001 025	1001 025	1001 025
15	Spring between contact arm and front bushing.....	1000 826	1000 826	1000 826	1000 826	1000 826
16	Bushing between spring and clip washer.....	1537 773	1537 773	1537 773	1537 773	1537 773
17	Clip washer.....	1537 799	1537 799	1537 799	1537 799	1537 799

① One only used
 ② Two used – special application 60 Hertz used only for relays with Page 1.
 ④ Special Application 60 Hertz used only for relays with ④ symbol, Page 2.
 ★ Recommended for stock.

Auxiliary Relays

Type SG and SG-2

Reference Number	Description of Part	Style Number of Part				
		Rear Connected		Front Connected		
		Closed Type		Closed Type	Open Type	
		Molded Case	Flexitest Case	Projection Case	DSPT DPDT	Special Application④
18	Spring for armature, DPDT.....	1156 399	1156 399	1156 399	1156 399	1000 998
18	Spring for armature, reversible contacts.....		1000 998		1000 998	
91★	Stationary contact, reversible, DPST.....		1008 711②		1008 711②	1008 711②
02★	Stationary contact, make, DPDT.....		1537 701②		1537 701②	
12★	Stationary contact, break, DPDT.....		1537 702②		1537 702②	
22★	Stationary contact, break, DPDT.....	01D2107G01②		01D2107G01②		
23★	Stationary contact, make, DPDT.....	1102 942②		1102 942②		
24★	Operating coil.....	See pages 1 and 2	See pages 1 and 2	See pages 1 and 2	See pages 1 and 2	See pages 1 and 2
25	Insulation.....	1275 103	1275 103	1275 103	1275 103	1275 103
26	Washer between core and yoke, a-c relays.....	935 765	935 765	935 765	935 765	935 765
27	Core, d-c relays.....	1008 224	1008 224	1008 224	1008 224	1008 224
27A⑥	Core with copper slug assembly.....	40C0045G02⑦		40C0045G02⑦		
28	Core, a-c relays.....	1008 225	1008 225	1008 225	1008 225	1008 225
29	Stud to hold core to yoke.....	836 180		836 180		
30	Spring washer for terminals.....	1102 940		1102 940		
31	Terminal screw.....		837 321		837 321	838 321
32	Spacer.....		1275 102		1275 102	
33	Bushing.....		1545 590		1545 590	
34	Block for mounting resistor.....					1002 516
35	Resistor, 1400 ohms.....					1267 292
35	Resistor, 2360 ohms.....					1267 298
36	Mica washer.....					1201 886
37	Centering washer.....					1202 559
38	Cover nut.....			242 574		
39	Terminal.....			188A083H01		

- ② Two used – special application 60 Hertz used only for relays with Page 1.
- ④ Special Application 60 Hertz uses parts from column, Page 2.
- ⑦ Use only on relays (Dc) with copper slug core.
- ⑥ Not illustrated
- ★ Recommended for stock.

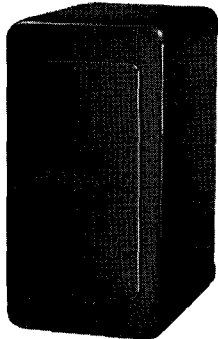


auxiliary relays type SG

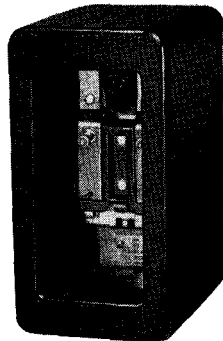
renewal
parts data
41-751A1

page 1

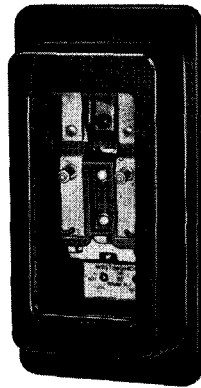
closed type relays



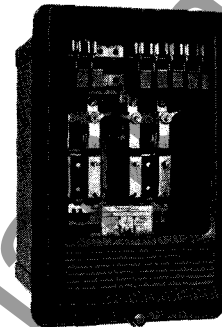
projection



projection with window

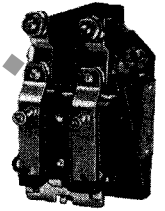


semi-flush with window

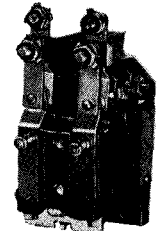


Flexitest universal case FT-22

open type relays



two reversible contacts



two make and two break contacts

rating	style number of relay						style number of operating coil	
	closed type relays, DPDT						open type relays	
	molded case relays			Flexitest case relays			DPST reversible contacts	DPDT
	projection	projection with window	semi-flush with window	single unit FT-11 case	double unit FT-22 case			
direct current								
1 amp	1157 848	1162 959	1342 932	1878 755	1955 556	1157 852	1875 946	1059 282
2 amp	1729 023	1729 024	1729 025	1878 756	1955 557	1729 026	1729 027	1059 283
3 amp	1157 849	1162 960	1342 933	1878 757	1955 558	1157 853	1875 947	1059 284
4 amp	1956 249	1956 253	1956 257	1878 758	1956 447	1956 261	1956 245	1059 285
5 amp	1157 850	1162 961	1342 934	1878 759	1955 559	1157 854	1875 948	1059 286
6 volts	1343 116	1340 082	1343 117	1878 760	1955 560	1338 226	1340 727	1008 511
12 volts	1155 686	1162 949	1343 118	1878 761	1955 561	1059 230	1205 619	1008 514
24 volts	1155 687	1162 950	1342 923	1878 762	1955 562	1059 231	1205 620	1008 517
32 volts	1729 011	1729 012	1729 013	1878 763	1955 563	1729 014	1729 015	1008 518
48 volts	1155 688	1162 951	1342 924	1878 764	1955 564	1008 534	1205 612	1008 520
62.5 volts	1729 017	1729 018	1729 019	1878 765	1955 565	1729 020	1729 021	1008 521
125 volts	1155 689	1162 952	1342 925	1878 766	1955 566	1008 535	1161 540	1008 524
250 volts	1343 088	1343 089	1343 090	1878 767	1955 567	1337 424	1210 936	1155 128
50 and 60 cycles a-c								
12 volts	1956 250	1956 254	1956 258	1878 768	1955 568	1163 654	1956 246	1008 507
24 volts	1878 284	1878 285	1878 286	1878 769	1955 569	1337 364	1878 282	1008 510
90 volts	1956 251	1956 255	1956 259	1878 770	1955 570	1537 212	1956 247	1008 516
115 volts	1155 693	1162 956	1342 929	1878 771	1955 571	1008 539	1205 616	1008 517
115 volts	.....	.....	.....	.....	.....	.....	1055 831	1008 517
208 volts	1726 053	1726 054	1726 055	1878 772	1955 572	1726 056	1726 057	1009 785
208 volts	.....	.....	.....	.....	.....	1009 017+	.....	1008 519
230 volts	1155 694	1162 957	1342 930	1878 773	1955 573	1008 540	1205 617	1008 520
266 volts	.....	.....	.....	.....	.....	1267 952+	.....	1008 520
275 volts	1956 252	1956 256	1956 260	1878 774	1955 574	1003 884	1956 248	1003 885
460 volts	1155 695	1162 958	1342 931	1878 775	1955 575	1008 541	1205 618	1008 523
575 volts	1725 778	1725 779	1725 780	1878 776	1955 576	1544 302	1725 781	1008 524
25 cycles a-c								
115 volts	1155 691	1162 954	1342 927	.....	.....	1008 537	1205 614	1008 519
230 volts	1155 692	1162 955	1342 928	.....	.....	1008 538	1205 615	1008 522

■ refer to RPD 41-076A1 for parts information on Flexitest cases

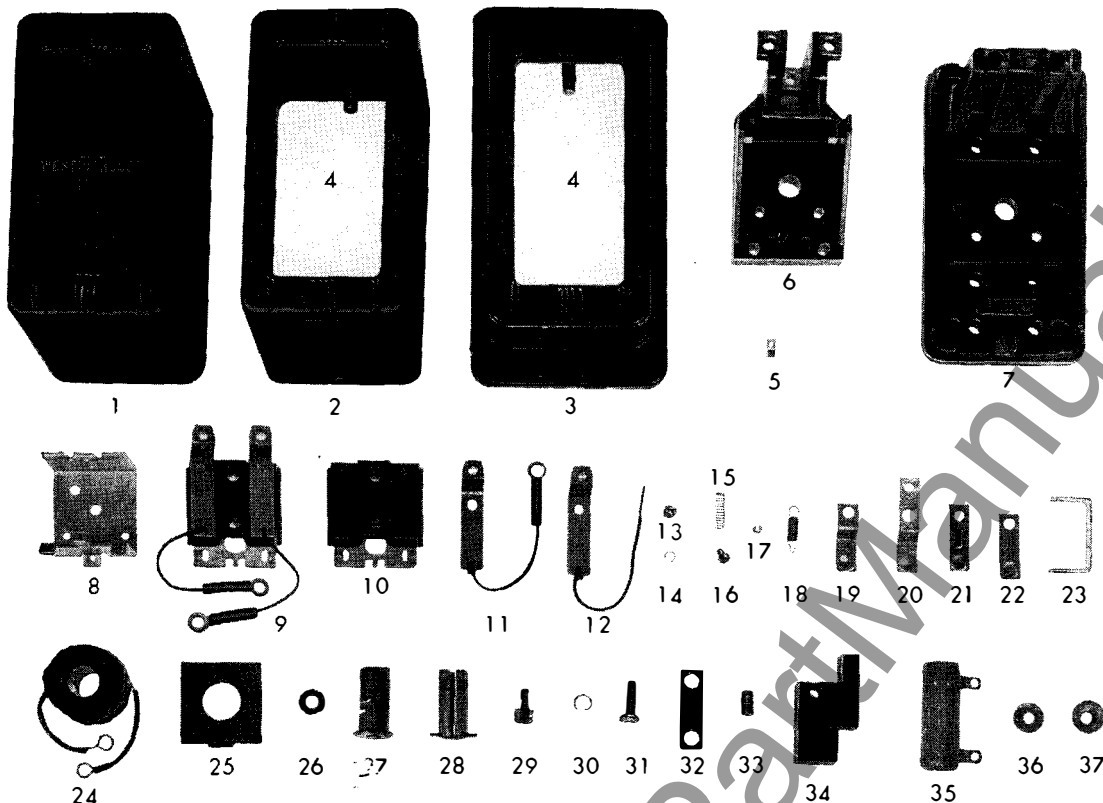
+ special application, 60 cycles, see col. 4, page 2

† two make, one break contacts, 60 cycles

December, 1959

supersedes rpd 41-751A1 dated March, 1959

mailed to: E/688; D6S-6A; C/604



reference number	description of part	style number of part		
		closed type relays molded case	open type relay special† application	open and Flexitest case relays
1	cover for projection relays	876 718		
2	cover for projection relays with window	876 270		
3	cover for semi-flush relays with window	1537 707		
4	glass	836 171		
5	clips	838 123		
6	base		1335 570	821 999
7	base for semi-flush relays	02B1377G05		
8	base for projection relays	02B1377G04		
8	yoke	1340 454	668 593	1340 454
★9	armature complete	1163 647	56B0980G01	1163 647
10	armature block	1543 718	1544 940	1543 718
11	moving contact and lead	1725 270‡	1725 270*	1725 270‡
12	moving contact and lead		1726 341*	
13	bushing through contact arm	1008 223	1008 223	1008 223
14	spring between contact arm and armature	1001 025	1001 025	1001 025
15	spring between contact arm and front bushing	1000 826	1000 826	1000 826
16	bushing between spring and clip washer	1537 773	1537 773	1537 773
17	clip washer	1537 799	1537 799	1537 799
18	spring for armature, DPDT	1156 399	1000 998	1156 399
18	spring for armature, reversible contacts			1000 998
★19	stationary contact, reversible, DPST		1008 711‡	1008 711‡
★20	stationary contact, make, DPDT			1537 701‡
★21	stationary contact, break, DPDT			1537 702‡
★22	stationary contact, make, DPDT	01D2107G01‡		
★23	stationary contact, break, DPDT	1102 942‡		
★24	operating coil	see pg 1	see pg 1	see pg 1
25	insulation	1275 103	1275 103	1275 103
26	washer between core and yoke, a-c relays	935 765	935 765	935 765
27	core, d-c relays	1008 224	1008 224	1008 224
28	core, a-c relays	1008 225	1008 225	1008 225
29	stud to hold core to yoke	836 180		
30	spring washer for terminals	1102 940		
31	terminal screw		837 321	837 321
32	spacer			1275 102
33	bushing			1545 590
34	block for mounting resistor		1002 516	
35	resistor, 2350 ohms		1267 292	
35	resistor, 1400 ohms		407 282	
36	mica washer		1201 886	
37	centering washer		1202 559	

parts indented are included in the part under which they are indented
† see page 1 ★ recommended for stock * one per unit ‡ two per unit

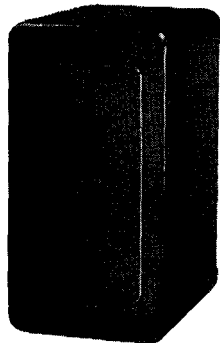


auxiliary relays type SG

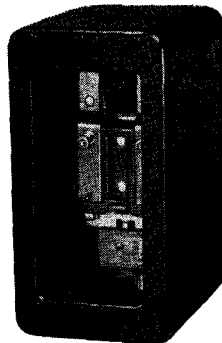
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page 1

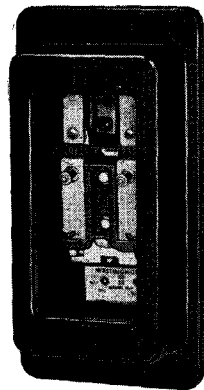
closed type relays



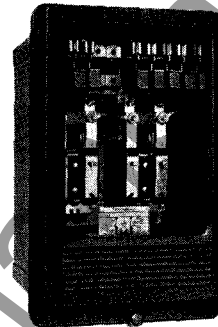
projection



projection with window

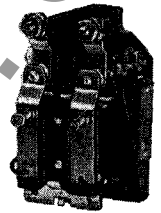


semi-flush with window

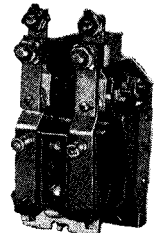


Flexitest universal case FT-22

open type relays



two reversible contacts



two make and two break contacts

rating	style number of relay						style number of operating coil	
	closed type relays, DPDT					open type relays		
	molded case relays			Flexitest case relays		DPST reversible contacts		DPDT
projection	projection with window	semi-flush with window	single unit FT-11 case	double unit FT-22 case				
direct current								
1 amp	1157 848	1162 959	1342 932	1878 755	1955 556	1157 852	1875 946	1059 282
2 amp	1729 023	1729 024	1729 025	1878 756	1955 557	1729 026	1729 027	1059 283
3 amp	1157 849	1162 960	1342 933	1878 757	1955 558	1157 853	1875 947	1059 284
4 amp	1956 249	1956 253	1956 257	1878 758	1956 447	1956 261	1956 245	1059 285
5 amp	1157 850	1162 961	1342 934	1878 759	1955 559	1157 854	1875 948	1059 286
6 volts	1343 116	1340 082	1343 117	1878 760	1955 560	1338 226	1340 727	1008 511
12 volts	1155 686	1162 949	1343 118	1878 761	1955 561	1059 230	1205 619	1008 514
24 volts	1155 687	1162 950	1342 923	1878 762	1955 562	1059 231	1205 620	1008 517
32 volts	1729 011	1729 012	1729 013	1878 763	1955 563	1729 014	1729 015	1008 518
48 volts	1155 688	1162 951	1342 924	1878 764	1955 564	1008 534	1205 612	1008 520
62.5 volts	1729 017	1729 018	1729 019	1878 765	1955 565	1729 020	1729 021	1008 521
125 volts	1155 689	1162 952	1342 925	1878 766	1955 566	1008 535	1161 540	1008 524
250 volts	1343 088	1343 089	1343 090	1878 767	1955 567	1337 424	1210 936	1155 128
50 and 60 cycles a-c								
12 volts	1956 250	1956 254	1956 258	1878 768	1955 568	1163 654	1956 246	1008 507
24 volts	1878 284	1878 285	1878 286	1878 769	1955 569	1337 364	1878 282	1008 510
90 volts	1956 251	1956 255	1956 259	1878 770	1955 570	1837 212	1956 247	1008 516
115 volts	1155 693	1162 956	1342 929	1878 771	1955 571	1008 539	1205 616	1008 517
115 volts	.....	.....	.....	.....	.....	.....	1055 831x	1008 517
208 volts	1726 053	1726 054	1726 055	1878 772	1955 572	1726 056	1726 057	1009 785
208 volts	.....	.....	.....	1878 773	1955 573	1009 017+	.....	1008 519
230 volts	1155 694	1162 957	1342 930	1878 773	1955 573	1008 540	1205 617	1008 520
266 volts	.....	.....	.....	1878 774	1955 574	1267 952+	.....	1008 520
275 volts	1956 252	1956 256	1956 260	1878 774	1955 574	1003 884	1956 248	1003 885
460 volts	1155 695	1162 958	1342 931	1878 775	1955 575	1008 541	1205 618	1008 523
575 volts	1725 778	1725 779	1725 780	1878 776	1955 576	1544 302	1725 781	1008 524
25 cycles a-c								
115 volts	1155 691	1162 954	1342 927	.....	.....	1008 537	1205 614	1008 519
230 volts	1155 692	1162 955	1342 928	.....	.....	1008 538	1205 615	1008 522

■ refer to RPD 41-076A1 for parts information on Flexitest cases

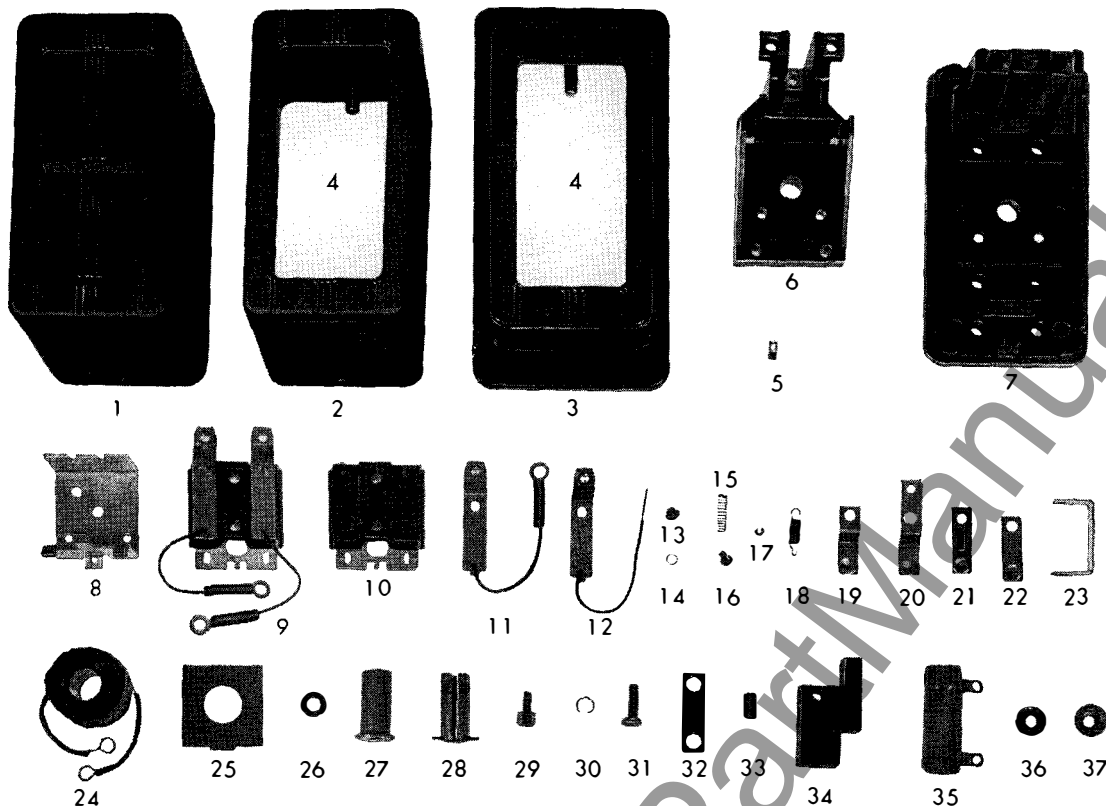
+ special application, 60 cycles, see col. 4, page 2

x two make, one break contacts, 60 cycles

December, 1959

supersedes rpd 41-751A1 dated March, 1959

mailed to: E/688; D65-6A; C/604



reference number	description of part	style number of part		
		closed type relays molded case	open type relay special† application	open and Flexitest case relays
1	cover for projection relays	876 718		
2	cover for projection relays with window	876 270		
3	cover for semi-flush relays with window	1537 707		
4	cover for semi-flush relays with window	836 171		
5	glass	838 123		
5	clips			
6	base		1335 570	821 999
7	base for semi-flush relays	02B1377G05		
7	base for projection relays	02B1377G04		
8	yoke	1340 454	668 593	1340 454
★9	armature complete	1163 647	56B0980G01	1163 647
10	armature block	1543 718	1544 940	1543 718
11	moving contact and lead	1725 270‡	1725 270*	1725 270‡
12	moving contact and lead	1725 270‡	1726 341*	1725 270‡
13	bushing through contact arm	1008 223	1008 223	1008 223
14	spring between contact arm and armature	1001 025	1001 025	1001 025
15	spring between contact arm and front bushing	1000 826	1000 826	1000 826
16	bushing between spring and clip washer	1537 773	1537 773	1537 773
17	clip washer	1537 799	1537 799	1537 799
18	spring for armature, DPDT	1156 399	1000 998	1156 399
18	spring for armature, reversible contacts			1000 998
★19	stationary contact, reversible, DPST		1008 711‡	1008 711‡
★20	stationary contact, make, DPDT			1537 701‡
★21	stationary contact, break, DPDT			1537 702‡
★22	stationary contact, make, DPDT	01D2107G01‡		
★23	stationary contact, break, DPDT	1102 942‡		
★24	operating coil	see pg 1	see pg 1	see pg 1
25	insulation	1275 103	1275 103	1275 103
26	washer between core and yoke, a-c relays	935 765	935 765	935 765
27	core, d-c relays	1008 224	1008 224	1008 224
28	core, a-c relays	1008 225	1008 225	1008 225
29	stud to hold core to yoke	836 180		
30	spring washer for terminals	1102 940		
31	terminal screw		837 321	837 321
32	spacer			1275 102
33	bushing			1545 590
34	block for mounting resistor		1002 516	
35	resistor, 2350 ohms		1267 292	
35	resistor, 1400 ohms		407 282	
36	mica washer		1201 886	
37	centering washer		1202 559	

parts indented are included in the part under which they are indented
 † see page 1 ★ recommended for stock • one per unit ‡ two per unit

Westinghouse



Auxiliary Relays
Type SG and SG-2



Rating	Style Number of Relays								Style Number of Operating Coil
	Rear Connected - Closed Type DPDT					Front Connected			
	Molded Case			Flexitest Case®		Closed Type DPDT		Open Type	
	Projection	Projection with Window	Semi-flush with Window	Single Unit FT-11 Case	Double Unit FT-22 Case	Projection Solid Cover	Projection Glass Window	DPST Reversible Contacts	DPDT

Direct Current										
1 Amp	1157 848	1162 959	1342 932	1878 755	1955 556	293B254A09	293B255A09	1157 852	1875 946	1059 282
2 Amp	1729 023	1729 024	1729 025	1878 756	1955 557	293B254A10	293B255A10	1729 026	1729 027	1059 283
3 Amp	1157 849	1162 960	1342 933	1878 757	1955 558	293B254A11	293B255A11	1157 853	1875 947	1059 284
4 Amp	1956 249	1956 253	1956 257	1878 758	1956 447	293B254A12	293B255A12	1956 261	1956 245	1059 285
5 Amp	1157 850	1162 961	1342 934	1878 759	1955 559	293B254A13	293B255A13	1157 854	1875 948	1059 286
6 Volts	1343 116	1340 082	1343 117	1878 760	1955 560	293B254A14	293B255A14	1338 226	1340 727	1008 511
12 Volts	1155 686	1162 949	1343 118	1878 761	1955 561	293B254A15	293B255A15	1059 230	1205 619	1008 514
24 Volts	1155 687	1162 950	1342 923	1878 762	1955 562	293B254A16	293B255A16	1059 231	1205 620	1008 517
32 Volts	1729 011	1729 012	1729 013	1878 763	1955 563	293B254A17	293B255A17	1729 014	1729 015	1008 518
48 Volts	1155 688	1162 951	1342 924	1878 764	1955 564	293B254A18	293B255A18	1008 534	1205 612	1008 520
62.5 Volts	1729 017	1729 018	1729 019	1878 765	1955 565	293B254A19	293B255A19	1729 020	1729 021	1008 521
125 Volts	1155 689	1162 952	1342 925	1878 766	1955 566	293B254A20	293B255A20	1008 535	1161 540	1008 524
220 Volts	.....	.....	.....	.....	.....	293B254A38	.....	.....	.....	406C860G38
250 Volts	1343 088	1343 089	1343 090	1878 767	1955 567	293B254A21	293B255A21	1337 424	1210 936	1155 128

© For Flexitest case parts refer to RPD 41-076A1

Auxiliary Relays

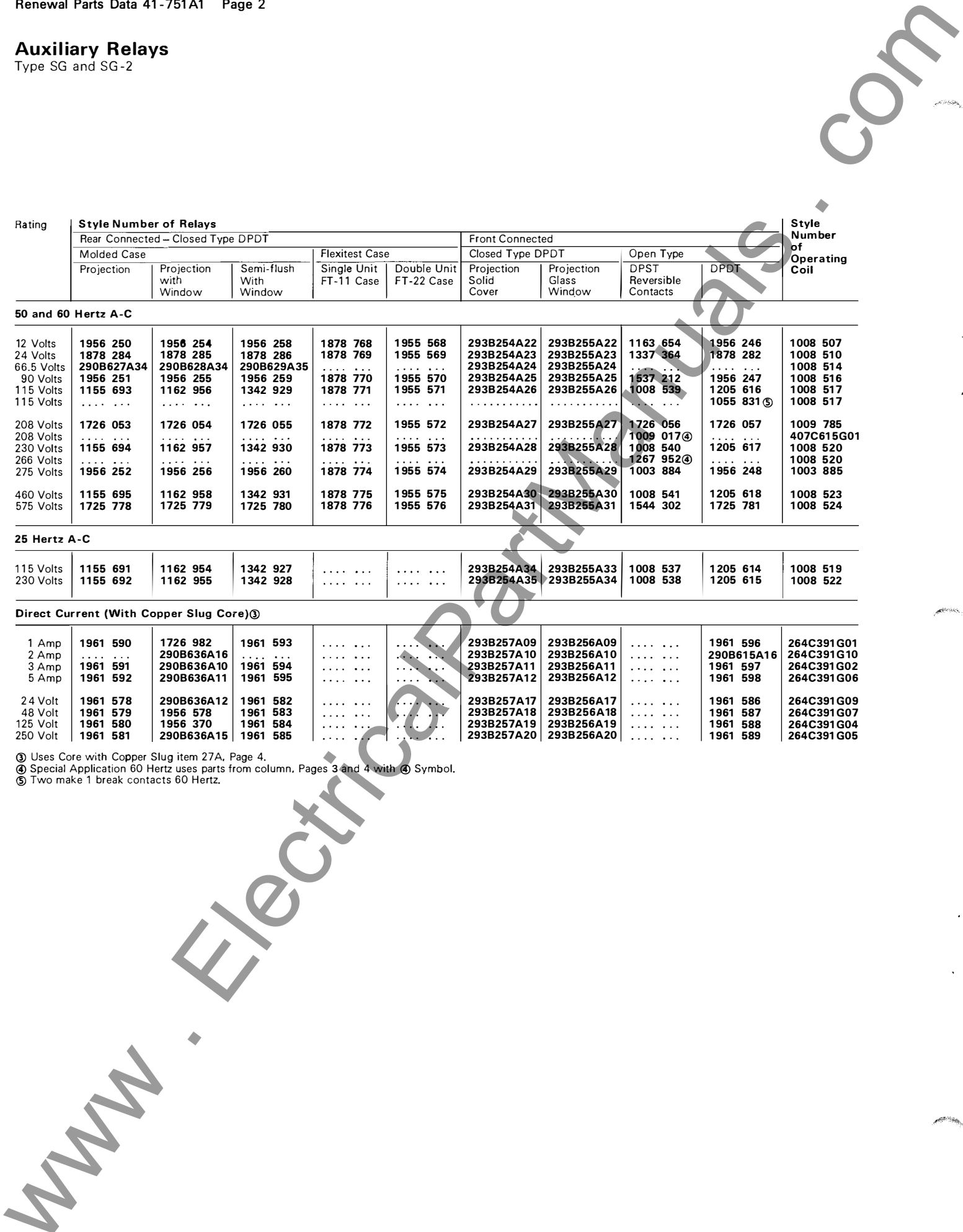
Type SG and SG-2

Rating	Style Number of Relays									Style Number of Operating Coil
	Rear Connected – Closed Type DPDT					Front Connected				
	Molded Case			Flexitest Case		Closed Type DPDT		Open Type		
	Projection	Projection with Window	Semi-flush With Window	Single Unit FT-11 Case	Double Unit FT-22 Case	Projection Solid Cover	Projection Glass Window	DPST Reversible Contacts	DPDT	
50 and 60 Hertz A-C										
12 Volts	1956 250	1956 254	1956 258	1878 768	1955 568	293B254A22	293B255A22	1163 654	1956 246	1008 507
24 Volts	1878 284	1878 285	1878 286	1878 769	1955 569	293B254A23	293B255A23	1337 364	1878 282	1008 510
66.5 Volts	290B627A34	290B628A34	290B629A35	.....	.....	293B254A24	293B255A24	.....	.....	1008 514
90 Volts	1956 251	1956 255	1956 259	1878 770	1955 570	293B254A25	293B255A25	1537 212	1956 247	1008 516
115 Volts	1155 693	1162 956	1342 929	1878 771	1955 571	293B254A26	293B255A26	1008 539	1205 616	1008 517
115 Volts	.....	.....	.....	.....	.....	.....	.....	.....	1055 831 ^⑤	1008 517
208 Volts	1726 053	1726 054	1726 055	1878 772	1955 572	293B254A27	293B255A27	1726 056	1726 057	1009 785
208 Volts	.....	.....	.....	.....	.....	.....	.....	1009 017 ^④	.....	407C615G01
230 Volts	1155 694	1162 957	1342 930	1878 773	1955 573	293B254A28	293B255A28	1008 540	1205 617	1008 520
266 Volts	.....	.....	.....	.....	.....	.....	.....	1267 952 ^④	.....	1008 520
275 Volts	1956 252	1956 256	1956 260	1878 774	1955 574	293B254A29	293B255A29	1003 884	1956 248	1003 885
460 Volts	1155 695	1162 958	1342 931	1878 775	1955 575	293B254A30	293B255A30	1008 541	1205 618	1008 523
575 Volts	1725 778	1725 779	1725 780	1878 776	1955 576	293B254A31	293B255A31	1544 302	1725 781	1008 524

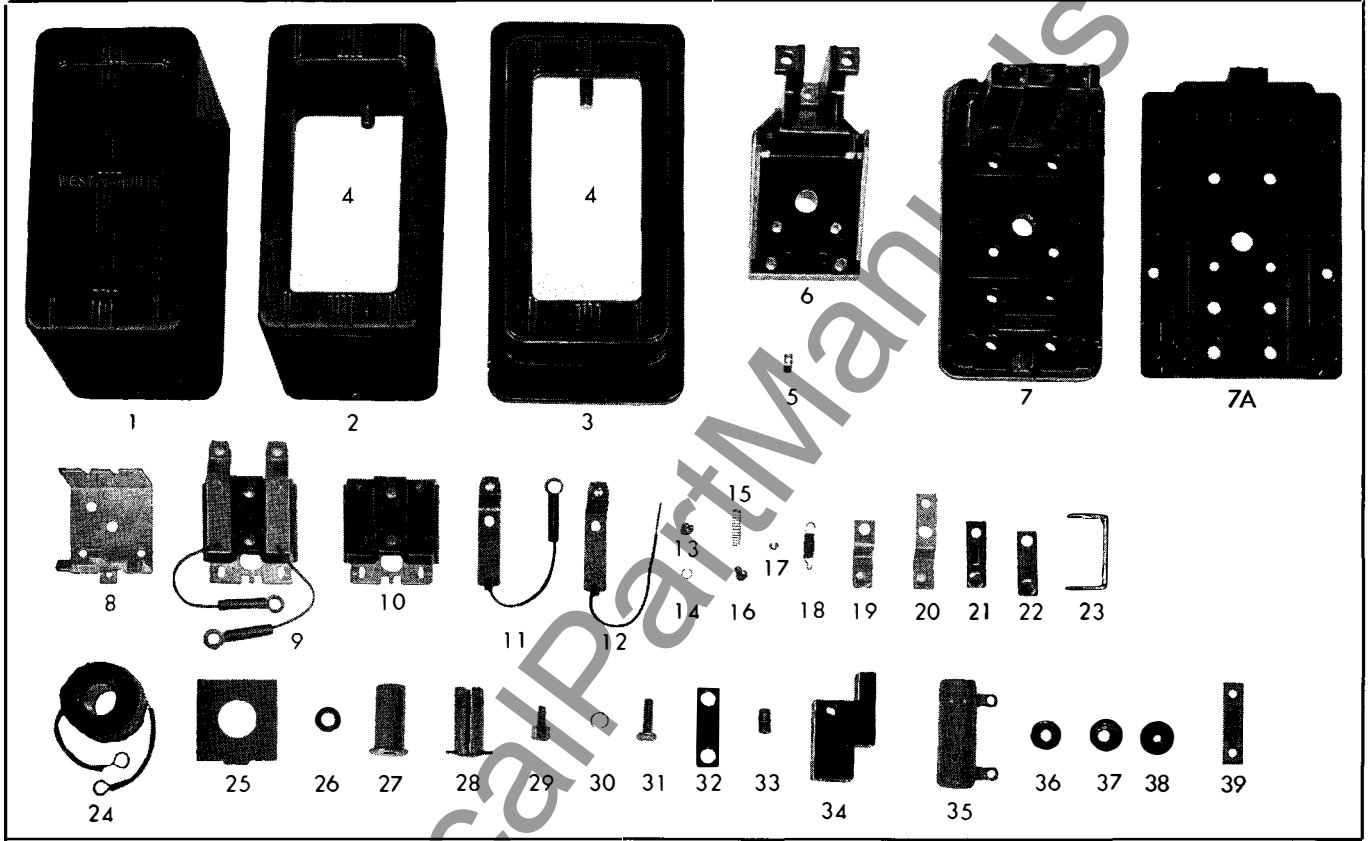
25 Hertz A-C										
115 Volts	1155 691	1162 954	1342 927	.....	.....	293B254A34	293B255A33	1008 537	1205 614	1008 519
230 Volts	1155 692	1162 955	1342 928	.....	.....	293B254A35	293B255A34	1008 538	1205 615	1008 522

Direct Current (With Copper Slug Core)^③										
1 Amp	1961 590	1726 982	1961 593	.....	.....	293B257A09	293B256A09	.....	1961 596	264C391G01
2 Amp	.....	290B636A16	.....	.....	.....	293B257A10	293B256A10	.....	290B615A16	264C391G10
3 Amp	1961 591	290B636A10	1961 594	.....	.....	293B257A11	293B256A11	.....	1961 597	264C391G02
5 Amp	1961 592	290B636A11	1961 595	.....	.....	293B257A12	293B256A12	.....	1961 598	264C391G06
24 Volt	1961 578	290B636A12	1961 582	.....	.....	293B257A17	293B256A17	.....	1961 586	264C391G09
48 Volt	1961 579	1956 578	1961 583	.....	.....	293B257A18	293B256A18	.....	1961 587	264C391G07
125 Volt	1961 580	1956 370	1961 584	.....	.....	293B257A19	293B256A19	.....	1961 588	264C391G04
250 Volt	1961 581	290B636A15	1961 585	.....	.....	293B257A20	293B256A20	.....	1961 589	264C391G05

③ Uses Core with Copper Slug item 27A, Page 4.
 ④ Special Application 60 Hertz uses parts from column, Pages 3 and 4 with ④ Symbol.
 ⑤ Two make 1 break contacts 60 Hertz.



Auxiliary Relays
Type SG and SG-2



Reference Number	Description of Part	Style Number of Part				
		Rear Connected		Front Connected		
		Closed Type		Closed Type	Open Type	
		Molded Case	Flexitest Case	Projection Case	DPST DPDT	Special Application ^④
1	Cover for projection relays.	19C0484G04	.....	34A0471H05	.....	.....
2	Cover for projection relays with window.	19C0483G05	.....	293B233G01	.....	.....
3	Cover for semi-flush relay with window.	1537 707	.....	.....	.....	.....
4	Glass.	836 171	.....	1958 079	.....	.....
5	Clips.	838 123	.....	838 123	.....	.....
6	Base for open type and Flexitest case.	.....	821 999	.....	821 999	1335 570
7	Base for semi-flush.	02B1377G05	.....	.....	.....	.....
7	Base for projection.	02B1377G04	.....	.....	.....	.....
7A	Base for projection, front connected.	.....	.....	541D611H01	.....	.....
8	Yoke.	1340 454	1340 454	1340 454	1340 454	668 593
9★	Armature complete.	1163 647	1163 647	1163 647	1163 647	56B0980G01
10	Armature block.	1543 718	1543 718	1543 718	1543 718	1544 940
11	Moving contact and lead.	1725 270 ^②	1725 270 ^②	1725 270 ^②	1725 270 ^②	1725 270 ^①
12	Moving contact and lead.	.....	.....	.....	.....	1726 341 ^①
13	Bushing through contact arm.	1008 223	1008 223	1008 223	1008 223	1008 223
14	Spring between contact arm and armature.	1001 025	1001 025	1001 025	1001 025	1001 025
15	Spring between contact arm and front bushing.	1000 826	1000 826	1000 826	1000 826	1000 826
16	Bushing between spring and clip washer.	1537 773	1537 773	1537 773	1537 773	1537 773
17	Clip washer.	1537 799	1537 799	1537 799	1537 799	1537 799

① One only used
 ② Two used - special application 60 Hertz used only for relays with Page 1.
 ④ Special Application 60 Hertz used only for relays with ④ symbol, Page 2.
 ★ Recommended for stock.

Auxiliary Relays

Type SG and SG-2

Reference Number	Description of Part	Style Number of Part				
		Rear Connected		Front Connected		
		Closed Type		Closed Type	Open Type	
		Molded Case	Flexitest Case	Projection Case	DSPT DPDT	Special Application ^④
18	Spring for armature, DPDT.....	1156 399	1156 399	1156 399	1156 399	1000 998
18	Spring for armature, reversible contacts.....	1000 998	1000 998	.....	1000 998	.....
91★	Stationary contact, reversible, DPST.....	.....	1008 711 ^②	.....	1008 711 ^②	1008 711 ^②
02★	Stationary contact, make, DPDT.....	.....	1537 701 ^②	.....	1537 701 ^②	.....
12★	Stationary contact, break, DPDT.....	.....	1537 702 ^②	.....	1537 702 ^②	.....
22★	Stationary contact, break, DPDT.....	01D2107G01 ^②	.....	01D2107G01 ^②	.....	.....
23★	Stationary contact, make, DPDT.....	1102 942 ^②	.....	1102 942 ^②	.....	.....
24★	Operating coil.....	See pages 1 and 2	See pages 1 and 2	See pages 1 and 2	See pages 1 and 2	See pages 1 and 2
25	Insulation.....	1275 103	1275 103	1275 103	1275 103	1275 103
26	Washer between core and yoke, a-c relays.....	935 765	935 765	935 765	935 765	935 765
27	Core, d-c relays.....	1008 224	1008 224	1008 224	1008 224	1008 224
27A ^⑥	Core with copper slug assembly.....	40C0045G02 ^⑦	.....	40C0045G02 ^⑦	40C0045G02 ^⑦	.....
28	Core, a-c relays.....	1008 225	1008 225	1008 225	1008 225	1008 225
29	Stud to hold core to yoke.....	836 180	.....	836 180	.....	.....
30	Spring washer for terminals.....	1102 940	.....	1102 940	.....	.....
31	Terminal screw.....	.....	837 321	.....	837 321	838 321
32	Spacer.....	.....	1275 102	.....	1275 102	.....
33	Bushing.....	.....	1545 590	.....	1545 590	.....
34	Block for mounting resistor.....	.....	.....	.....	.....	1002 516
35	Resistor, 1400 ohms.....	.....	.....	.....	.....	1267 292
35	Resistor, 2360 ohms.....	.....	.....	.....	.....	1267 298
36	Mica washer.....	.....	.....	.....	.....	1201 886
37	Centering washer.....	.....	.....	.....	.....	1202 559
38	Cover nut.....	.....	.....	242 574	.....	.....
39	Terminal.....	.....	.....	188A083H01	.....	.....

② Two used – special application 60 Hertz used only for relays with Page 1.

④ Special Application 60 Hertz uses parts from column, Page 2.

⑦ Use only on relays (Dc) with copper slug core.

⑥ Not illustrated

★ Recommended for stock.