



power  
circuit  
breakers

## components and spare parts

price list

33-320

indoor and outdoor

page 1

### condenser bushings

Condenser bushings listed are for spare or renewal parts for Westinghouse oil circuit breakers.

#### net prices

breaker	rated kv	60 cycle current	60 cycle 1 minute withstand: kv	positive or negative 1.5 x 40 ms impulse full wave withstand	net price each	shipping wt lbs
<b>indoor condenser bushings</b>						
♦F-11	2.5	400	14	45	\$ 24	20
+F-122	4.16	600	24	60	36	30
F-124A	7.2	600	30	75	44	35
F-124A	4.16	1200	24	60	69	45
F-100	7.2	600	30	75	69	90
F-100	7.2	1200	30	75	92	65
F-100	7.2	2000	30	75	151	75
138F150, 138B250	13.8	600	38	95	80	55
138B500	13.8	1200	38	95	106	70
O-111A	14.4	1200	50	110	242	110
O-22B	14.4	2000	50	110	345	150
O-44C	14.4	3000	50	110	520	240
O-44C	14.4	4000	50	110	665	450
O-44C	34.5	1200	80	200	320	145

♦ F-11 bushings are porcelain.

+ F-122 and larger bushings are wound paper type.

breaker	rated kv	60-cycle current	minimum creepage distance: inches	60-cycle kv 1 min. dry	withstand kv 10 sec. wet	positive or negative 1.5 x 40 ms impulse full wave withstand	net price each	shipping wt lbs	type of bushing
<b>outdoor condenser bushings</b>									
144GC100, 144GC250, 144GC500, 144GC250, 144GC500	14.4	600	11.0	50	45	110	\$ 140	90	S
	14.4	1200	11.0	50	45	110	155	115	S
230GC250	23	600	17.0	70	70	150	155	95	S
G—all other types	15 or 23	1200	17.0	70	70	150	167	205	S
	15 or 23	2000	17.0	70	70	150	285	250	S
	15 or 23	3000	17.0	70	70	150	410	350	S
	15 or 23	4000	17.0	70	70	150	560	500	S
	34.5	1200	26.5	95	95	200	214	255	S
	34.5	2000	26.5	95	95	200	400	310	S
	46	1200	35.0	120	120	250	266	300	S
	69	1200	48.5	175	175	350	374	460	O
	69	2000	48.5	175	175	350	715	560	O
GM—all types	115	1200	79.0	280	230	550	1105	800	O
	115	1600	79.0	280	230	550	1175	900	O
	115	2000	79.0	280	230	550	1425	900	O
	138	1200	92.0	335	275	650	1440	940	O
	138	1600	92.0	335	275	650	1535	1400	O
	138	2000	92.0	335	275	650	1865	1400	O
	161	1200	114.0	385	315	750	1825	1450	O
	161	1600	114.0	385	315	750	2080	1700	O
	161	2000	114.0	385	315	750	2365	1700	O
GW—all types	230 (196)	1200	135.0	465	385	900	3750	2100	O
	230 (196)	1600	135.0	465	385	900	3750	2600	O
	230 (196)	2000	135.0	465	385	900	4435	2700	O
	345	1600	205.0	680	555	1300	8930	5400	O

The above prices apply to bushings when required for spares or replacement. The potential tap is included on all bushings 115 kv to 345 kv inclusive.

April 11, 1961

supersedes price list 33-320 dated December 1, 1959  
mailed to: E/274-280/PL; D/811/PL; C/333/PL

prices effective April, 11, 1961; subject to change without notice

for standard terms and conditions  
of sale, refer to selling policy 33-000



## bushing potential devices

### type PBA—2

115 kv bushing and above, with proper voltage tap	shipping weight	net price
bushing potential device.....	350 lb	\$1600

See descriptive bulletin 33-357 for ratings of PBA potential device. All 115 kv breakers and above are regularly furnished with standard bushings with taps for this feature.

## suggested spare parts

These prices will apply when the spare parts are ordered with the oil circuit breakers. In addition to the parts listed, one or more circuit breaker bushings should be added from page 1. One group of parts is suggested for each 5 breakers or multiple thereof. Refer to Renewal Parts Sales and Data Section, for prices when parts are sold separately or individual orders are purchased. Power Circuit Breaker Department, TC 111, Trafford, Pa.

Schedules include freight as follows: The Corporation will prepay (allow) freight charges to all railroad freight stations including delivery service (store door delivery) where common carrier provides such service. The method and route of shipment to be optional with the Corporation. No allowances will be made in lieu of freight cartage if customer accepts shipment at factory, warehouse, or railroad freight station.

## outdoor oil circuit breakers

### small • pole, frame or wall mounted

### types 144GC100, 144GC250, and 144GC500, 14,400 volts

Each group of spare parts will consist of the following:

- 1—set of stationary arcing contact details with mounting hardware for one pole.
- 1—set of moving arcing contacts for one pole.
- 1—set of gaskets for complete 3 pole breaker.
- 1—closing coil for solenoid closing mechanism.
- 1—shunt trip coil.

## net prices

breaker	rated kv	amps	interr. capacity 3 ph mva	net prices	
				manually operated <sup>‡</sup>	solenoid operated
144GC100	14.4	600	100	\$100	\$140
144GC250	14.4	600	250	...	185
144GC250	14.4	1200	250	...	195
144GC500	14.4	600	500	...	185
144GC500	14.4	1200	500	...	195

<sup>‡</sup> Does not include solenoid closing coil.

## outdoor oil circuit breakers • continued

### large • frame mounted

### type G, 14,400 to 69,000 volts

Each group of spare parts will consist of the circuit breaker parts listed below plus the parts listed for the solenoid or pneumatic operating mechanism.

#### circuit breaker parts:

- 1—set stationary arcing contact details with mounting hardware for 1 pole.
- 1—set moving arcing contacts for 1 pole.
- 1—set of gaskets for 3 pole breaker.

#### solenoid operating mechanism parts:

- 1—set control relay contacts.
- 1—closing coil
- 1—trip coil.
- 1—set of latch details.

#### pneumatic operating mechanism parts:

- 1—set of latch details.
- 1—trip coil.
- 1—set of operating mechanism gaskets

## net prices

breaker	rated kv	amps	interr. capacity 3 ph mva	net prices	
				solenoid or pneumatic	
144G1000	14.4	1200	1000	\$250	
144G1500		3000	1500	525	
144G1500		4000	1500	615	
230GC250*	23	600	250	250	
230G500		1200	500	250	
345G500	34.5	1200	500	250	
345G1000		1200	1000	250	
345G1500		1200	1500	250	
345G2500		2000	2500	560	
460G500	46	1200	500	265	
460G1500		1200	1500	345	
690G1000	69	1200	1000	300	
690G1500		1200	1500	300	
690G2500		1200	2500	300	
GM6A		2000	3500	600	

\* Solenoid breaker only.

*floor mounted*

**type GM and GW, 69 kv to 345 kv**

Each group of spare parts will consist of the circuit breaker parts listed below plus the parts listed for the solenoid or pneumatic operating mechanism:

**circuit breaker parts:**

- 1—set stationary arcing contact details with mounting hardware for 1 pole.
- 1—set intermediate contacts for 1 pole.
- 1—set moving contacts for 1 pole.
- 1—set of gaskets for 3 pole breaker.

**solenoid operating mechanism parts:**

- 1—set control relay contacts.
- 1—closing coil
- 1—trip coil.
- 1—set of latch details.

**pneumatic operating mechanism parts:**

- 1—set of latch details.
- 1—trip coil.
- 1—set of operating mechanism gaskets.

**net prices**

breaker	rated kv	60-cycle amps	interr. capacity 3 ph mva	net prices solenoid or pneumatic
GO-5-A 690GM5000	69	1200 2000	2500 5000	\$ 365 680
GM-3 GM-6 1150GM10000	115	800 1200 1600	1500 5000 10000	680 705 755
GM-5 GM-7 1380GM15000	138	1200 1600 2000	5000 10000 15000	705 755 755
GM-5 GM-7 1610GM15000	161	1200 1600 1600	5000 10000 15000	705 755 755
2300GW5000 2300GW10000 2300GW15000 2300GW20000	230	1200 1600 1600 1600	5000 10000 15000 20000	1000 1000 1000 1000
3450GW25000	345	1600	25000	♦

♦ Refer to Power Circuit Breaker Sales, TC 203, Trafford, Pa.

**renewal parts data**

A complete list of renewal parts data for power circuit breakers will be supplied on request. Send Form #22006 with complete identification of breakers to Renewal Parts Sales and Data Section, Power Circuit Breaker Dept. TC 111, Trafford, Pa.

**obsolete breakers**

Spare parts for these breakers can still be obtained but will become increasingly difficult to secure depending on their age. Tools in some cases have been disposed of and parts will have to be made by hand. Consequently the production cost will be higher than similar parts for current breakers, and shipping time longer.

**compressed air breakers**

For recommended spare parts of type CA compressed air breakers, and CAF arc furnace compressed air breakers, refer to Renewal Parts Sales and Data Section, Power Circuit Breaker Dept. TC 111, Trafford, Pa.

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**components and  
spare parts**