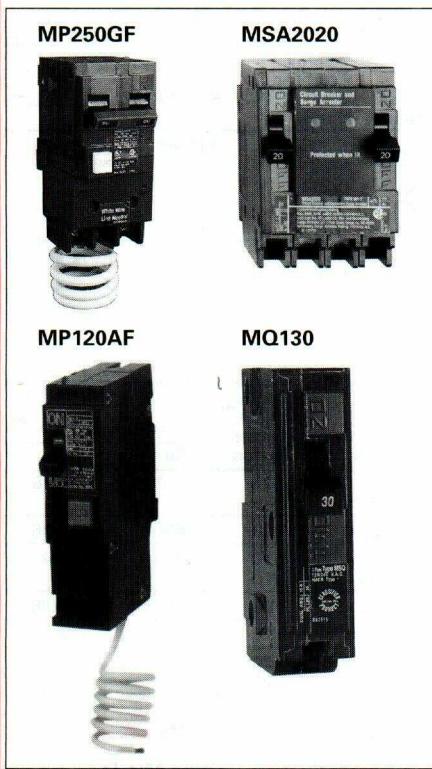


CIRCUIT BREAKERS

CB 6

CIRCUIT BREAKERS



Wire range is lug capacity. Refer to National Electrical Code for specific wire sizes.

Accessories—See page CB-12.

Figure 1

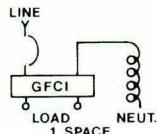


Figure 2

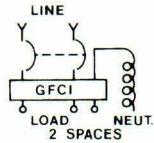


Figure 3

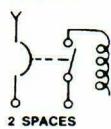


Figure 4

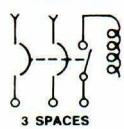


Figure 5

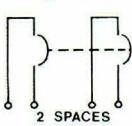


Figure 6

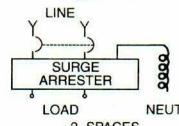
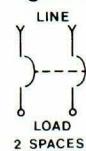


Figure 7



Figure 8



① UL Listed for use with 60/75°C wire.

② Two independent outside circuit breaker poles.

GFCI Circuit Breakers^①

UL listed as Class A Devices (5 milliamp sensitivity)

Amps	Symb.	Catalog #	List Each	Std. Master/ Carton	Approx. Wgt. Lbs. Master/ Carton	Wire Range
1 Pole 120V AC (Type MP-GT)				Std. Master/ Carton	Approx. Wgt. Lbs. Master/ Carton	Wire Range
15	Fig-1	MP115GF	163.00	1/30	.5/15	#14-#8
20		MP120GF	163.00	1/30	.5/15	#14-#8
30		MP130GF	163.00	1/30	.5/15	#14-#6
2 Pole 120/240V AC (Type MP-GT)				Std. Master/ Carton	Approx. Wgt. Lbs. Master/ Carton	Wire Range
15	Fig-2	MP215GF	291.50	1/10	1/10	#14-#10
20		MP220GF	291.50	1/10	1/10	#12-#8
30		MP230GF	291.50	1/10	1/10	#14-#4
40		MP240GF	291.50	1/10	1/10	#14-#4
50		MP250GF	291.50	1/10	1/10	#12-#8
60		MP260GF	291.50	1/10	1/10	#12-#8

Discount Schedule "I"

Surge Arrester Circuit Breaker 120/240V AC (Type MP-T)^①

Requires two 1" adjacent load center spaces. Outer two $\frac{1}{2}$ " poles are independent single pole circuit breakers. Surge arrester is rated 920 joules, line to line. Clamping value is 600 volts @ 3000 amps, line to neutral. Pigtail must be connected to load center neutral.

Amps ^②	Symb.	Catalog #	List Each	Std. Pkg.	Approx. Wgt. Lbs.	Wire Range
1 Pole 120V AC				Std. Pkg.	Approx. Wgt. Lbs.	Wire Range
15	Fig-6	MSA1515	158.00	1	1.00	#14-#4
20		MSA2020	158.00	1	1.00	#12-#4

Switched Neutral^① (Type MG)

Used for gas pump circuits. Neutral pole of breaker does not connect to load center bus.

Amps	Symb.	Catalog #	List Each	Std. Pkg.	Approx. Wgt. Lbs.	Wire Range
1 Pole 120V AC				Std. Pkg.	Approx. Wgt. Lbs.	Wire Range
15	Fig-3	MP215SN	62.00	1	.6	#14-#8
20		MP220SN	62.00	1	.6	#12-#8
2 Pole 120/240V AC				Std. Pkg.	Approx. Wgt. Lbs.	Wire Range
20	Fig-4	MP320SN	93.00	1	.75	#14-#8
						#12-#8

3/4" Format Circuit Breakers^① (Type MSQ)

UL Classified for use in certain Square D load centers. Refer to panelboard compatibility list packaged with each circuit breaker for specific panelboards. Type MSQ circuit breakers are rated 10,000 AIC and *cannot* be used in series with higher IC-Rated Square D circuit breakers.

Amps	Symb.	Catalog #	List Each	Std. Sleeve/ Master	Approx. Wgt. Lbs. Sleeve/ Master	Wire Range
1 Pole 120/240V AC (Type MSQ)				Std. Sleeve/ Master	Approx. Wgt. Lbs. Sleeve/ Master	Wire Range
15	Fig-7	MQ115	21.00	16/64	4/16	#14-#10
20		MQ120	21.00	16/64	4/16	—
30		MQ130	21.00	16/64	4/16	#14-#6
40		MQ140	21.00	16/64	4/16	#8-#6
50		MQ150	21.00	16/64	4/16	#8-#4
60		MQ160	21.00	16/64	4/16	#8-#3
2 Pole 120/240V AC (Type MSQ)				Std. Sleeve/ Master	Approx. Wgt. Lbs. Sleeve/ Master	Wire Range
15	Fig-8	MQ215	46.50	8/32	4/16	#14-#10
20		MQ220	46.50	8/32	4/16	—
30		MQ230	46.50	8/32	4/16	#14-#6
40		MQ240	46.50	8/32	4/16	#8-#6
50		MQ250	46.50	8/32	4/16	#8-#4
60		MQ260	46.50	8/32	4/16	#8-#3

AFCI Arc Breakers^① (NEW PRODUCT)

UL listed Arc-Fault Circuit Interrupted

Amps	Symb.	Catalog #	List Each	Std. Master/ Carton	Approx. Wgt. Lbs. Master/ Carton	Wire Range
1 Pole 120V AC (Type MP-AF)				Std. Master/ Carton	Approx. Wgt. Lbs. Master/ Carton	Wire Range
15	Fig-1	MP115AF	163.00	1/30	.5/15	#14-#8
20		MP120AF	163.00	1/30	.5/15	#14-#8

Discount Schedule "A"

MURRAY

CIRCUIT BREAKERS

CB 2

GENERAL DESCRIPTION

CIRCUIT BREAKERS

Circuit Breakers

Circuit breakers in this section are plug-in and bolted style, 15-1200 amp, 1, 2 and 3 poles. A standard modular construction of either one inch per pole or one-half inch per pole is used on all plug-in circuit breakers. (Style MSQ breakers are $\frac{3}{8}$ " format.)

1" per pole circuit breakers are available in 1, 2 and 3 pole units. Multi-pole breakers are factory riveted, with handle ties, and internal common-trip mechanisms. Single pole circuit breakers may be used in pairs, as two pole breakers with appropriate handle tie accessory. When field paired, these breakers have no internal common trip provision.

Half size $\frac{3}{8}$ " per pole circuit breakers are available as riveted duplex, triplex and quadplex breakers. Riveted duplexes combine two independent poles in a one-inch space. Triplex breakers are four $\frac{3}{8}$ " poles riveted together with two single poles on the outside and two common-trip poles on the inside, requiring 2" of panel space. Quadplex breakers are four $\frac{3}{8}$ " poles, riveted together with handle-tied poles on the outside and handle-tied poles on the inside, requiring 2" of panel space.

Design/Performance Features

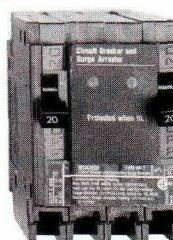
- Murray breakers through 125 amp are Underwriters' Laboratories listed for use with 60°C or 75°C wire.
- Full size and half size circuit breakers are UL Listed for HACR.
- Full size circuit breakers, page CB-4, 1 pole, 15 & 20 amp, are UL Listed SWD.
- Trip free handle mechanism assures breaker will trip on over-current even if handle is blocked.
- Center-position "trip" indication of handle gives clear visual identification of tripped breaker.

MP250GF



Double pole ground fault circuit breaker, rated 120/240V AC, UL listed as a Class A device (5 milliamp sensitivity).

MSA2020



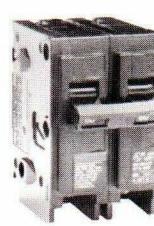
20 Amp circuit breaker and secondary surge arrester. Whole house transient surge protection combined with two independent 20 Amp single pole circuit breakers.

MP120



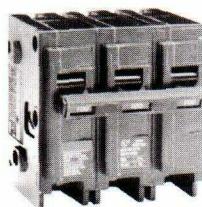
20 Amp full size (1" per pole) plug-in circuit breaker. Single pole 120/240V AC, 10,000 AIC. SWD/HACR rated.

MP260



60 Amp full size (1" per pole) plug-in circuit breaker. Double pole, common trip, 120/240V AC, 10,000 AIC. HACR rated.

MP3100



100 Amp full size (1" per pole) plug-in circuit breaker. Three pole 240V AC, 10,000 AIC. HACR rated.

MP120AF



20 Amp full size plug-in Arc-Fault circuit interrupter, rated 120/240 VAC, UL listed device.

MURRAY

Time-Current Characteristic Curves

125 Amp MP Frame, Type MP-T, 1, 2 & 3 Poles

For application and coordination purposes only. Based on 40°C ambient cold start. Connected with 4 feet of rated wire (75°C) per terminal. Tested in open air with current in all poles.

Type MP-T	60 HZ 1-Pole	120/240 Volts
	60 HZ 2-Pole	120/240 Volts
	60 HZ 3-Pole	240 Volts

1 Pole Instantaneous Trip Table

Rating Amperes	Fixed Instantaneous Trip Amperes
15-20	160-210
25-40	350-550
45-50	450-700

2 & 3 Pole Instantaneous Trip Table

Rating Amperes	Fixed Instantaneous Trip Amperes
15, 25-35	350-700
20	450-700
40	350-550

Interrupting Rating Symmetrical RMS Amperes

Breaker Type	120V	120/240V	240V
1-Pole	—	10,000	—
2-Pole	—	10,000	—
3-Pole	—	—	10,000

Footnotes refer to curve at right.

① Single pole test data at 25°C in accordance with NEMA standards.

0-30 amperes—50 seconds

31-50 amperes—80 seconds

② Sample Instantaneous shown (20 Amp 1, 2 & 3 Pole). For other instantaneous values, see tables above.

Industry and Government Specifications

Murray circuit breakers meet or exceed the latest edition of the following specifications:

Industry

NEMA—Standard #AB1

UL—Standard #489

CSA—Standard #C22.1, No. 5.1

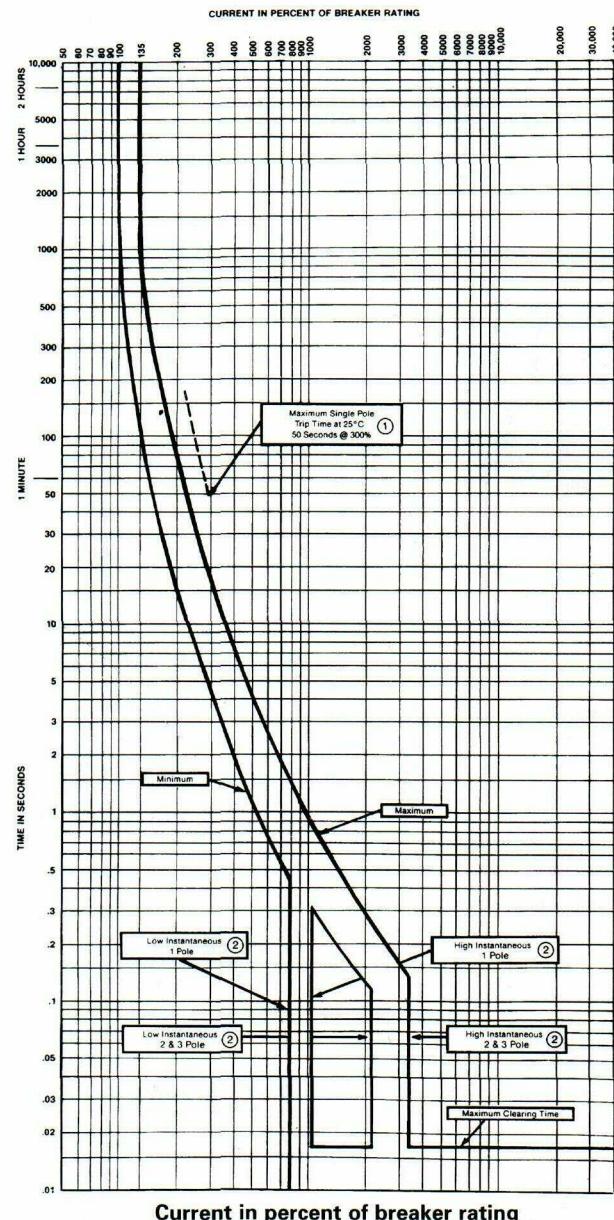
U.S. Government

Standard #W-C-375B

60°C/75°C Ampacity Rating

Murray circuit breakers rated 125A and below are Listed by UL for use with 60/75°C ampacities. This listing allows use of smaller wire sizes in many applications. Consult NEC Article #310 for application details and limitations.

Murray Time-Current Characteristic Curves
125 AMP MP Frame, Type MP-T 1, 2 & 3 Poles



Circuit Breaker UL Type

Catalog # Prefix	UL Type*
MP(150-200A)	MD-A, MD-H, MD-T, MD-HT
MP(125A)	MP-T, MP-HT, MP-MT, MG, MW
MP(Duplex)	MH-T
MP(Triplex)	MH-T
MP(GFCI)	MP-GT, MP-HGT
MP(AFCI)	MP-AF, MP-HAF

*UL Type is shown on circuit breaker label.

SWD

Full size, single pole 15&20 amp, UL Type MP-T circuit breakers are UL Listed "SWD", for switching duty use on circuits controlling fluorescent lights. (1996 NEC article #240-83d).

HACR

All Murray circuit breakers are UL Listed "HACR" rated for use on heating, air conditioning and refrigeration circuits per 1996 NEC article #430-53 (c) (3).