

Circuit Breakers

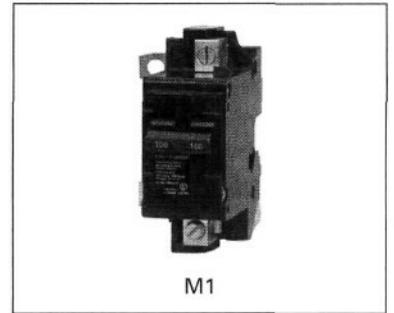
Main and Branch Circuit Breakers^①

CIRCUIT BREAKERS 2

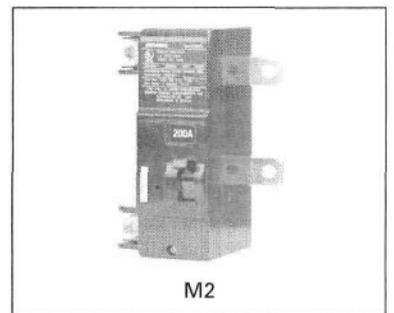
Breaker Type	Ampere Rating	Catalog Number	List Price \$	Catalog Number ^{②④}	List Price \$	UL Interrupting Ratings (kA)
MD-T[®] 2-Pole 120/240V AC	150	MPD2150	311.00	MPD2150R	311.00	10
	175	MPD2175■	311.00	MPD2175R■	311.00	10
	200	MPD2200	311.00	MPD2200R	311.00	10
MD-HT[®] 2-Pole 120/240V AC	150	MPD2150KH	373.00	MPD2150RH	373.00	22
	175	MPD2175KH■	373.00	MPD2175RH■	373.00	22
	200	MPD2200KH	373.00	MPD2200RH	373.00	22
MD-MT[®] 2-Pole 120/240V AC	150	MPD2150KM	1605.00	MPD2150RM	1605.00	65
	175	MPD2175KM■	1605.00	MPD2175RM■	1605.00	65
	200	MPD2200KM	1605.00	MPD2200RM	1605.00	65



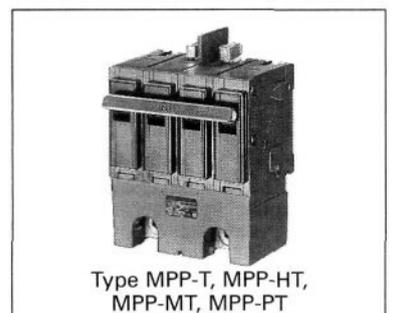
Breaker Type	Ampere Rating	Catalog Number	List Price \$	UL Interrupting Ratings (kA)
M1[®] 2-Pole 120/240V AC	100	MBK100M	166.00	22
	125	MBK125M	341.00	22
M2[®] 2-Pole 120/240V AC	150	MBK150M	424.00	22
	200	MBK200M	424.00	22
	225	MBK225M	424.00	22



Breaker Type	Ampere Rating	Catalog Number	UL Interrupting Ratings (kA)	List Price \$
ED-A[®] 3-Pole 240V AC	125	EP3125	10	906.00
	150	EP3150	10	906.00
	200	EP3200	10	906.00
	175	EP3175	10	906.00
	225	EP3225	10	906.00



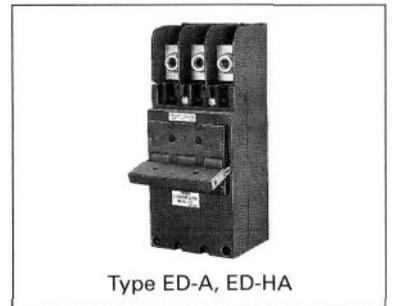
Breaker Type	Ampere Rating	Catalog Number	List Price \$	UL Interrupting Ratings (kA) Volts AC 120/240
MPP[®] 2-Pole 120/240V AC	125	MPP2125	286.00	10
	150	MPP2150	316.00	10
	175	MPP2175■	316.00	10
	200	MPP2200	316.00	10
	225	MPP2225	316.00	10
MPP-HT[®] 2-Pole 120/240V AC	125	MPP2125KH	770.00	22
	150	MPP2150KH	811.00	22
	175	MPP2175KH■	811.00	22
	200	MPP2200KH	811.00	22
MPP-MT[®] 2-Pole 120/240V AC	125	MPP2125KM■	1605.00	65
	150	MPP2150KM	1605.00	65
	175	MPP2175KM■	1605.00	65
	200	MPP2200KM	1605.00	65
MPP-PT[®] 2-Pole 120/240V AC	125	MPP2125KP■	1961.00	100
	150	MPP2150KP■	1961.00	100
	175	MPP2175KP■	1961.00	100
	200	MPP2200KP■	1961.00	100
	225	MPP2225KP■	1961.00	100



Accessories

MD-T(R), MD-HT(R), MD-MT(R), M1 and M2

Accessory Description	Catalog Number	Field/Factory Installed	List Price \$
120V Shunt Trip	add suffix...ST■	Factory	275.00(adder)
Padlocking Device (100-125A)	BX125N	Field	35.00
Padlocking Device (150-200A)	BX050N	Field	39.00
Filler Plate [®]	LX400FP	Field	11.60



■ Built to order. Allow 2-3 weeks for delivery.
 ① All circuit breakers on this page are common trip.
 ② Reverse handle, ON toward lugs. See page 2-23.
 ③ Requires 4 panel spaces, 2 adjacent, and 2 opposite.

④ For use as load center branch and/or replacement main for old-style load center.
 ⑤ Main breaker kit for Rock Solid load center.
 ⑥ Requires 6 spaces due to cross over design.

⑦ 4-poles wide for use with 200A modular and Uni-Pak metering
 ⑧ For use with breaker types MD-T(R), MD-HT(R), MD-MT(R)

Section 2

CIRCUIT BREAKERS

General/Technical Data

Technical Information	2-2
Catalog Coding System	2-3
Interrupting Ratings	2-4
Lug Data	2-5

Load Center Breakers

Type MP-T, 1-Inch Breakers	2-6
Type MH-T, 1/2-Inch Breakers	2-7
Arc-Fault and Ground Fault Breakers	2-8
Special Application Breakers	2-9
Type MSQ, 3/4-Inch Breakers	2-10
Surge Protection	2-11
Main and Branch Circuit Breakers	2-12
Type MQ, MQH, MQL Breakers	2-13

Panelboard Breakers

Type BL, BLH, HBL, BLF (GFCI)	2-14
Type BLE (GFCI), BL HID, BL Switching Neutral, BAF (AFCI), BOD, ED4	2-15
Type HED4, ED6, QJ2, QJH2, QJ2H.....	2-16
Type FXD6, HFD6, JXD2, JXD6, HJD6	2-17
Type LXD6, HLD6, MD6, HMD6, ND6, HND6	2-18

Breaker Accessories

Breaker Enclosures/Enclosed Breakers	2-19–2-20
External Accessories	2-21
Internal Accessories	2-22

General Data

Line Diagrams	2-23
Enclosure Knockout and Wiring Diagrams	2-24



Circuit Breakers

Technical Information

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.

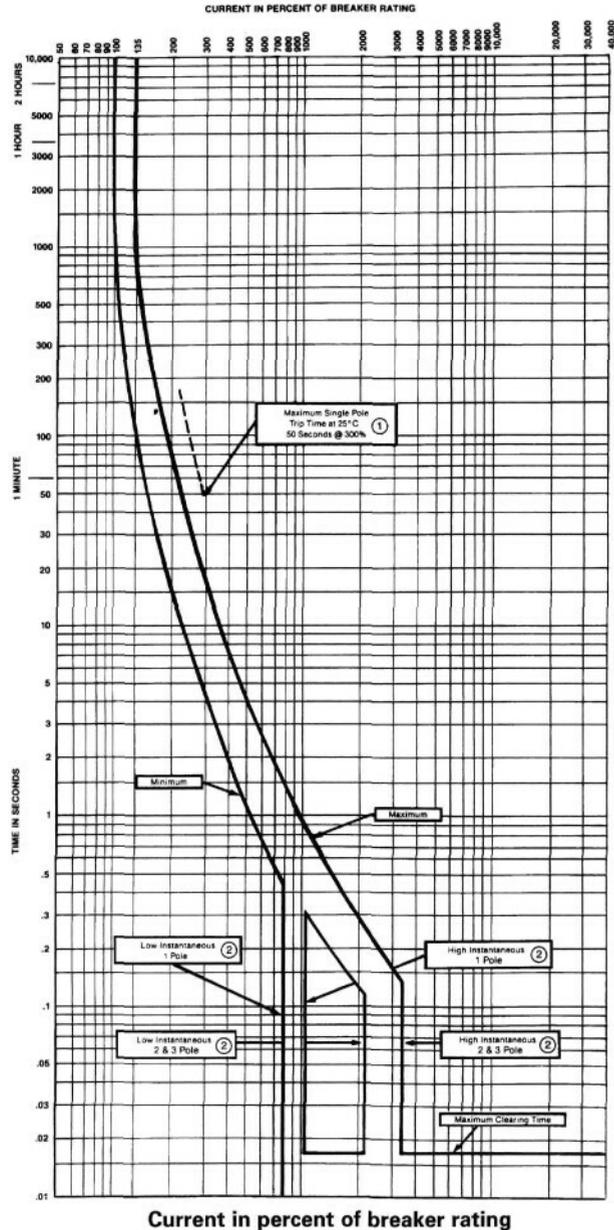
① Single pole test data at 25°C in accordance with NEMA standards.

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.

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



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.

Circuit Breaker UL Type

Catalog # Prefix	UL Type*
MP(150-200A)	MD-A, MD-H, MD-T, MD-HT
MP(15-125A)	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-AT, MP-HAT

*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. 2002 NEC Article #240-83 (d).

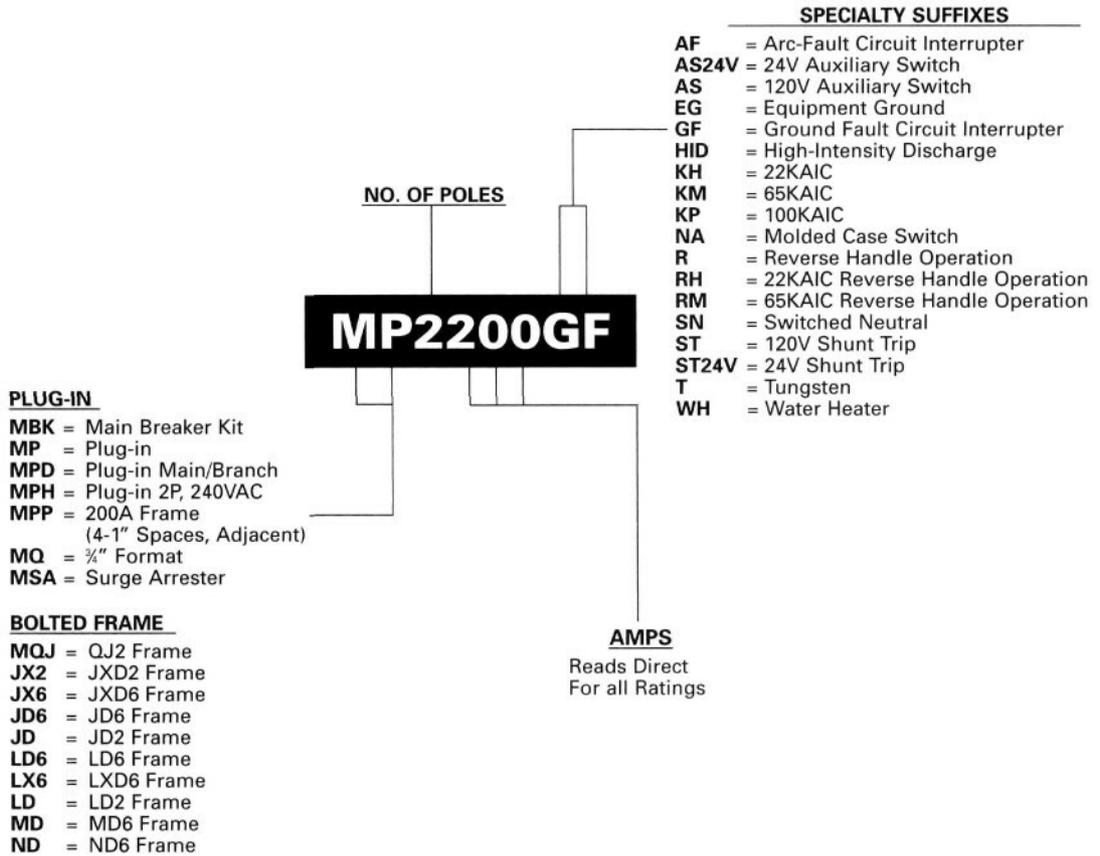
HACR

All Murray circuit breakers are UL Listed "HACR" rated for use on heating, air conditioning and refrigeration circuits per 2002 NEC Article 430.53 (c) (3).

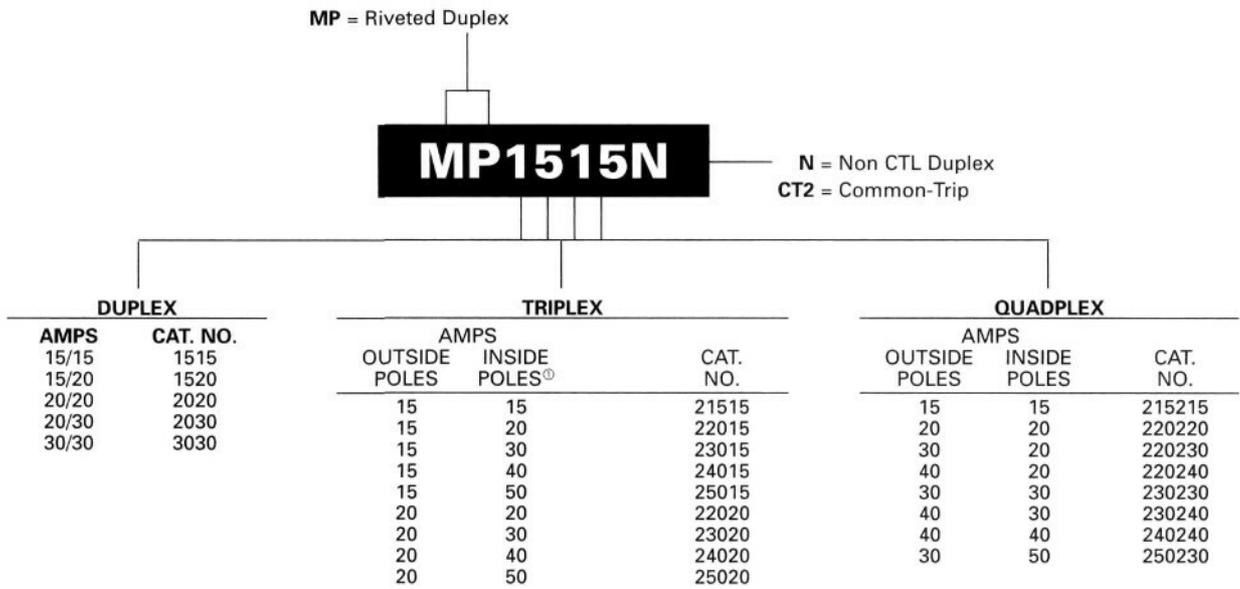
Circuit Breakers

Catalog Coding System

Full-Size Circuit Breakers



Half-Size Circuit Breakers



^① Inside poles are common trip.

Circuit Breakers

Lug Data

Circuit Breaker Type	Circuit Breaker Ampere Rating	Cables Per Connector	Connector Wire Range
MP-T, MP-HT, MP-MT	LOAD SIDE		
	15-20	1 1	#14-#8 AWG Cu #12-#8 AWG Al
	25-35	1 1	#14-#6 AWG Cu #14-#6 AWG Al
	40-50	1 1	#8-#6 AWG Cu #8-#4 AWG Al
	55-70	1 1	#8-#4 AWG Cu #8-#2 AWG Al
	80-100	1 1	#4-#1/0 AWG Cu #2-#1/0 AWG Al
	110-125 ^②	1 1	#2-#1/0 AWG Cu #1/0-#2/0 AWG Al
MH-T	15-35	1 1	#14-#8 AWG Cu #12-#8 AWG Al
	40	1	#8 AWG CU-AL
	40-50	1 1	#8-#6 AWG Cu #8-#4 AWG Al
MP-GT, MP-HGT, MP-ET, MP-HET	15-30	1 1	#14-#10 AWG Cu #12-#8 AWG Al
	40-60	1 1	#8-#6 AWG Cu #8-#4 AWG Al
MP-AT, MP-HAT	15-20	1 1	#14-#12 AWG Cu #12-#10 AWG Al
MSQ	15-20	2	#14-#8 AWG Cu Only
	15-20	1	#14-#12 AWG Cu #12-#10 AWG Al
	25-35	1 1	#10-#8 AWG Cu #10-#6 AWG Al
	40-60	1 1	#8-#6 AWG Cu #8-#4 AWG Al
MD-T, MD-HT, MD-MT, MD-PT, MD-TR, MD-HTR, MD-MTR, MD-PTR	150-200	1	#1-300kcmil Cu-Al
M1	100	1	#4-3/0 AWG Cu-Al
	125	1	#4-3/0 AWG Cu-Al
M2	150	1	#1-300kcmil Cu-Al
	200	1	#1-300kcmil Cu-Al
	225	1	#1-300kcmil Cu-Al
MPP-T, MPP-HT, MPP-MT, MPP-PT	125	1 1	#1 AWG Cu #2/0 AWG Al
	150	1 1	#1/0 AWG Cu #3/0 AWG Al
	175	1 1	#2/0 AWG Cu #4/0 AWG Al
	200	1 1	#3/0 AWG Cu 250kcmil AWG Al
	225	1 1	#4/0 AWG Cu 300kcmil AWG Al
	ED-A, ED-HA	125-200	1
QJ2, QJH2, QJ2H	60-225	1	#6-300kcmil Cu #4-300kcmil Al
FXD6, HFD6	70-250	1	#6-350kcmil Cu #4-350kcmil Al
JXD2, JXD6, HJD6 LXD6, HLD6	250-600	2	3/0-500kcmil Cu 4/0-500kcmil Al
MD6, HMD6	500-800	3	#1-500kcmil Cu-Al
ND6, HND6	800-1200	4	250-500kcmil Cu-Al