

Thermal-Magnetic / Magnetic Only Molded Case Circuit Breakers

Introduction

Table 12: Powerpack® M-frame Catalog Numbering System★

Number Segment	Character	Description	M	G	A	3	6	800	6▲	AB■
Circuit Breaker Family	M									
Circuit Breaker Type (Interrupting Rating)	G	35 kA @ 480 Volts								
	J	65 kA @ 480 Volts								
Connection Type	A	I-Line®								
	F	No lugs (Bus Connection)								
	L	Lugs on both ends								
	M	Lugs on ON (I) end only								
	P	Lugs on OFF (O) end only								
Poles	2	2-pole								
	3	3-pole								
Voltage	6	600 Vac								
Continuous Current Rating (Amperes)	300									
	350									
	400									
	450									
	500									
	600									
	700									
	800									
I-Line Phasing	2-pole	1 = AB								
		2 = AC								
		3 = BA								
		4 = BC								
		5 = CA								
		6 = CB								
	3-pole	None = ABC								
		6 = CBA								
Accessory Suffix Codes★										

★ See *M-frame, P-frame, R-frame and NS630b–NS3200 Electronic Trip Circuit Breakers Catalog* for more information. Also, see Class 611, 612, 613, and 734 catalogs for other Powerpack and Masterpack® circuit breakers.

▲ May be collapsed if none.

■ May be collapsed if none. May be multiple options.

Thermal-Magnetic / Magnetic Only Molded Case Circuit Breakers

800 / 1000 Ampere Frame

800 / 1000 AMPERE FRAME

This section provides specific information on Square D® 800 / 1000 ampere frame thermal-magnetic molded case circuit breakers. For more information, see the Introduction in this catalog.

Description

Table 32: Description of 800 / 1000 Ampere Frame Circuit Breakers

Circuit Breaker	Description
MG/MJ	300-800 ampere, 600 Vac, 50/60 Hz, 2- and 3-pole
MA/MH	300-800 ampere, 600 Vac, 50/60 Hz, 250 Vdc, 2- and 3-pole
MAL/MHL	300-1200 ampere, 600 Vac, 50/60 Hz, 250 Vdc, 2- and 3-pole

Applications

MA / MH circuit breakers are used in industrial enclosures, panelboards, switchboards, busway plug-in units, combination starters and motor control centers.

Table 33: 800 / 1000 Ampere Frame Interrupting Ratings

Catalog Number Prefix		No. of Poles	Cont. Ampere Rating	UL Listed Interrupting Rating (kA)								Federal Specs. W-C-375B/GEN	IEC 60947-2 Icu/Ics (kA) AC Voltage
				AC Volts - RMS Symmetrical Amperes					DC Volts				
Unit Mount	I-Line®			120	240	480Y/277	480	600	125	250	500		415/240
MAL	—	2, 3	300–1000	42	42	30	30	22	14	14	—	21a	30/30
—	MA	2, 3	300–800	42	42	30	30	22	14	14	—	21a	30/30
MHL★	—	2, 3	300–1000	65	65	65	65	25	—	—	—	23a	65/33
—	MH★	2, 3	300–800	65	65	65	65	25	14	14	—	23a	65/33
LHL-DC▲	—	3	—	—	—	—	—	—	—	—	20	—	—

★ Separate UL rating available for 240 Vac and 480 Vac grounded B single phase systems. Breakers must be ordered with 5861 suffix. See *Supplemental Digest* for specific ratings.

▲ UL Listed 500 Vdc rating for use on ungrounded systems. Must be connected 3 poles in series. Consult your local Square D sales office for additional information 1-888-Square D.

Table 34: 800 Ampere Powerpact® M-frame Molded Case Circuit Breakers★

Catalog Number Prefix		No. of Poles	Cont. Ampere Rating	UL Listed Interrupting Rating (kA)								Federal Specs. W-C-375B/GEN	IEC 60947-2 Icu/Ics (kA) AC Voltage
				AC Volts - RMS Symmetrical Amperes					DC Volts				
Unit Mount	I-Line			120	240	480Y/277	480	600	125	250	500		415/240
MG	▲	2, 3	300–800	65	65	35	35	18	—	—	—	22a	35/17.5
MJ	▲	2, 3	300–800	100	100	65	65	25	—	—	—	23a	50/25

★ See Powerpact Class 611, 612, 613, and 734 catalogs for other Powerpact and Masterpact® circuit breakers.

▲ See the Introduction section, Powerpact M-frame Catalog Numbering System, for available information.

Thermal-Magnetic / Magnetic Only Molded Case Circuit Breakers 800 / 1000 Ampere Frame



MA/MH
Two- and Three-pole
9" Mounting Height
300-800 Amperes



MAL/MHL
Two- and Three-pole
300-1000 Amperes

Selection Data

Table 35: 800 Ampere I-Line® Circuit Breakers

Ampere Rating	AC Magnetic Trip Settings Amperes [▲]	Two Pole [★] Catalog No.	Three Pole Catalog No.	Standard Lug Kit Wire Range	
MA Standard Interrupting					
	Low	High	600 Vac/250 Vdc	600 Vac/250 Vdc	
300	1500	3000	MA26300()	MA36300	AL900MA 3-#3/0-500 kcmil
350	1750	3500	MA26350()	MA36350	
400	2000	4000	MA26400()	MA36400	
450	2250	4500	MA26450()	MA36450	
500	2500	5000	MA26500()	MA36500	
600	3000	6000	MA26600()	MA36600	
700	3500	7000	MA26700()	MA36700	
800	4000	8000	MA26800()	MA36800	
MH High Interrupting					
	Low	High	600 Vac/250 Vdc	600 Vac/250 Vdc	
300	1500	3000	MH26300()	MH36300	AL900MA 3-#3/0-500 kcmil
350	1750	3500	MH26350()	MH36350	
400	2000	4000	MH26400()	MH36400	
450	2250	4500	MH26450()	MH36450	
500	2500	5000	MH26500()	MH36500	
600	3000	6000	MH26600()	MH36600	
700	3500	7000	MH26700()	MH36700	
800	4000	8000	MH26800()	MH36800	

★ Two pole circuit breaker catalog numbers are completed by adding required phase connection letters as a suffix to the catalog number.

▲ UL magnetic trip setting tolerances are -20% /+30% (Low) and -20% /+30% (High) from the nominal values shown.

Table 36: 1000 Ampere Frame Unit Mount Circuit Breakers

Ampere Rating	AC Magnetic Trip Settings Amperes [▲]		Two Pole [★] Catalog No.	Three Pole Catalog No.	Standard Lug Kit Wire Range
MAL Standard Interrupting					
	Low	High	600 Vac/250 Vdc	600 Vac/250 Vdc	
300	1500	3000	MAL26300	MAL36300	AL900MA 3-#3/0-350 kcmil
350	1750	3500	MAL26350	MAL36350	
400	2000	4000	MAL26400	MAL36400	
450	2250	4500	MAL26450	MAL36450	
500	2500	5000	MAL26500	MAL36500	
600	3000	6000	MAL26600	MAL36600	
700	3500	7000	MAL26700	MAL36700	
800	4000	8000	MAL26800	MAL36800	
900	4500	9000	MAL26900	MAL36900	
1000	5000	10000	MAL261000	MAL361000	
1200	5100	10200	MHL261200	MHL361200	AL1000MA 4-#1/0-500 kcmil

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Thermal-Magnetic / Magnetic Only Molded Case Circuit Breakers 800 / 1000 Ampere Frame

Dimensions

Figure 16: MAL, MHL 800 / 1000 Ampere Frame

