

M-, P-, and R-Frame Molded Case Circuit Breakers

	PowerPact 800 A M-Frame			PowerPact 1200 A P-Frame				PowerPact 3000 A R-Frame			
											
Circuit Breaker Type	MG	MJ	PG	PJ	PK	PL	RG	RJ	RK	RL	
Number of Poles	2, 3	2, 3	2, 3, 4	2, 3, 4	2, 3, 4	2, 3, 4	2, 3, 4	2, 3, 4	2, 3, 4	2, 3, 4	
Current Range (A)	300–800	300–800	100–1200	100–1200	100–1200	100–1200	240–3000	240–3000	240–3000	240–3000	
Interrupting Ratings											
UL/CSA/NOM Rating (kA RMS) (50/60 Hz)	240 Vac	65	100	65	100	65	125	65	100	65	125
	480Y/277 Vac	35	65	35	65	50	100	35	65	65	100
	480 Vac	35	65	35	65	50	100	35	65	65	100
	600Y/347 Vac	18	25	18	25	50	25	18	25	65	50
DC Ratings	600 Vac	18	25	18	25	50	25	18	25	65	50
	250 Vdc	—	—	—	—	—	—	—	—	—	—
IEC (kA RMS) (50/60 Hz) Icu/Ics [46]	500 Vdc [45]	—	—	—	—	—	—	—	—	—	—
	240 Vac	50/25	65/35	50/25	65/35	50/25	125/65	50/25	65/35	85/65	125/65
415 Vac	35/20	50/25	35/20	50/25	50/25	85/45	35/20	50/25	70/55	85/45	
Special Ratings											
CCC	X	X	X	X	X	X	X	X	X	X	
Fed. Specs W-C-375B/GEN	X	X	X	X	X	X	X	X	X	X	
HACR (2P, 3P)	X	X	X	X	X	X	X	X	X	X	
Connections/Terminations											
Unit Mount	X	X	X	X	X	X	X	X	X	X	
I-Line™	X	X	X	X	X	X	X [47]	X [47]	X [47]	X [47]	
Rear Connection	—	—	—	—	—	—	—	—	—	—	
Drawout	—	—	X [48]	X [48]	X [48]	X [48]	X [48]	—	—	—	
Optional Lugs	X	X	X	X	X	X	X	X	X	X	
Accessories and Modifications											
Shunt Trip	X	X	X	X	X	X	X	X	X	X	
Undervoltage Trip	X	X	X	X	X	X	X	X	X	X	
Auxiliary Switches	X	X	X	X	X	X	X	X	X	X	
Alarm Switch	X	X	X	X	X	X	X	X	X	X	
Motor Operator	—	—	X [48]	X [48]	X [48]	X [48]	X [48]	—	—	—	
Handle Operators	—	—	X [48]	X [48]	X [48]	X [48]	X [48]	—	—	—	
Mechanical Interlocks (3P)	—	—	X	X	X	X	X	—	—	—	
Handle Padlock Attachment	X	X	X	X	X	X	X	X	X	X	
Cylinder Lock (3P)	—	—	—	—	—	—	—	—	—	—	
Optional GF Protection	—	—	X	X	X	X	X	X	X	X	
Trip System Type											
Thermal-magnetic	—	—	—	—	—	—	—	—	—	—	
Instantaneous-only (MCP)	—	—	—	X	X	—	—	—	—	—	
Molded Case Switch (Automatic)	—	—	X	X	X	X	X	X	X	X	
Electronic	X	X	X	X	X	X	X	X	X	X	
Enclosures (page 7-79–page 7-81)											
General Purpose (NEMA 1)	X	X	X	X	X	X	—	—	—	—	
Raintight (NEMA 3R)	X	X	X	X	X	X	—	—	—	—	
Dust-tight (NEMA 12)	X	X	X	X	X	X	—	—	—	—	
Watertight (NEMA 4, 4X, 5)	X	X	—	—	—	—	—	—	—	—	
Explosion Proof (NEMA 7, 9)	—	—	—	—	—	—	—	—	—	—	
Dimensions (3P Unit Mount)	Height—in. (mm)	12.80 (325)			16.20 (413)			15 (381)			
	Width—in. (mm)	8.30 (210)			8.30 (210)			16.50 (420)			
	Depth—in. (mm)	8.10 (205)			8.10 (205)			14.40 (366)			
Pages (Unit Mount)/(I-Line)	page 7-37/Section 9			page 7-38, page 7-48/Section 9				page 7-39, page 7-48/Section 9			

NOTE: All circuit breakers on this chart are UL Listed and CSA Certified unless otherwise noted.

[45] Ungrounded UPS systems only. See page 7-49.

[46] Dual UL and IEC ratings and CE markings on circuit breakers. For additional IEC ratings, see the Supplemental Digest, Section 10.

[47] 1000 A and 1200 A only.

[48] 65/50 kA Icu/Ics for 450–600 A ratings.

Intended for use within equipment where branch circuit protection is already provided or not needed

- Range from 0.5 to 63 A
- 10 k AIR @ 120/240 Vac; 5 k AIR at 480Y/277; 10 k AIR @ 60 Vdc (1P) and 125 Vdc (2P)
- Suitable for reverse feeding
- DIN mounting for easy installation
- Suitable for reverse feeding
- A wide range of electrical and mechanical accessories
- Trip-free mechanism
- Positive indication of contact disconnect

Interrupting ratings see page 7-5

Accessories see page 7-28

Dimensions see page 7-79



1P
UL 1077 C60



2P
UL 1077 C60



2P
UL 1077 C60



4P
UL 1077 C60

UL 1077 Multi 9 C60 Miniature Circuit Breakers

Trip Curve	Use	Magnetic Release
B	For sensitive equipment	3.2–4.8 x ampere rating
C	For typical loads	7–10 x ampere rating (7–14 for DC)
D	For high inrush	10–14 x ampere rating

Table 7.44: UL 1077 Supplementary Protectors

Rating (A)	1P	2P	3P	4P
B Curve—Magnetic Setting Between 3.2 and 4.8 Times Ampere Rating				
1	MG24110	MG24125	MG24140	MG24155
1.2	MG17402	MG17432	—	—
1.5	MG17403	MG17433	—	—
2	MG24111	MG24126	MG24141	MG24156
3	MG24112	MG24127	MG24142	MG24157
4	MG24113	MG24128	MG24143	MG24158
5	MG17404	MG17434	—	—
6	MG24114	MG24129	MG24144	MG24159
7	MG17405	MG17435	—	—
8	MG24115	MG24130	MG24145	MG24160
10	MG24116	MG24131	MG24146	MG24161
13	MG24117	MG24132	MG24147	MG24162
15	MG17406	MG17436	MG17461	—
16	MG24118	MG24133	MG24148	MG24163
20	MG24119	MG24134	MG24149	MG24164
25	MG24120	MG24135	MG24150	MG24165
30	MG17407	MG17437	MG17462	—
32	MG24121	MG24136	MG24151	MG24166
35	MG17408	MG17438	MG17463	—
40	MG24122	MG24137	MG24152	MG24167
50	MG24123	MG24138	MG24153	MG24168
60	MG17409	MG17439	MG17464	—
63	MG24124	MG24139	MG24154	MG24169
C Curve—Magnetic Setting Between 7 and 10 Times Ampere Rating				
0.5	MG17411	—	—	—
1	MG24425	MG24442	MG24459	MG24476
1.2	MG17412	MG17442	—	—
1.5	MG17413	MG17443	—	—
2	MG24426	MG24443	MG24460	MG24477
3	MG24427	MG24444	MG24461	MG24478
4	MG24428	MG24445	MG24462	MG24479
5	MG17414	MG17444	—	—
6	MG24430	MG24447	MG24464	MG24481
7	MG17415	MG17445	—	—
8	MG24431	MG24448	MG24465	MG24482
10	MG24432	MG24449	MG24466	MG24483
13	MG24433	MG24450	MG24467	MG24484
15	MG17416	MG17446	MG17466	—
16	MG24434	MG24451	MG24468	MG24485
20	MG24435	MG24452	MG24469	MG24486
25	MG24436	MG24453	MG24470	MG24487
30	MG17417	MG17447	MG17467	—
32	MG24437	MG24454	MG24471	MG24488
35	MG17418	MG17448	MG17468	—
40	MG24438	MG24455	MG24472	MG24489
50	MG24439	MG24456	MG24473	MG24490
60	MG17419	MG17449	MG17469	—
63	MG24440	MG24457	MG24474	MG24491
D Curve—Magnetic Setting Between 10 and 14 Times Ampere Rating				
0.5	MG17421	—	—	—
1	MG24500	MG24516	MG24532	MG24548
1.2	MG17422	MG17452	—	—
1.5	MG17423	MG17453	—	—
2	MG24501	MG24517	MG24533	MG24549
3	MG24502	MG24518	MG24534	MG24550
4	MG24503	MG24519	MG24535	MG24551
5	MG17424	MG17454	—	—
6	MG24504	MG24520	MG24536	MG24552
7	MG17425	MG17455	—	—
8	MG24505	MG24521	MG24537	MG24553
10	MG24506	MG24522	MG24538	MG24554
13	MG24507	MG24523	MG24539	MG24555
15	MG17426	MG17456	MG17471	—
16	MG24508	MG24524	MG24540	MG24556
20	MG24509	MG24525	MG24541	MG24557
25	MG24510	MG24526	MG24542	MG24558
30	MG17427	MG17457	MG17472	—
32	MG24511	MG24527	MG24543	MG24559
35	MG17428	MG17458	MG17473	—
40	MG24512	MG24528	MG24544	MG24560
50	MG24513	MG24529	MG24545	MG24561
60	MG17429	MG17459	MG17474	—
63	MG24514	MG24530	MG24546	MG24562

The PowerPact Advantage

- **Proven Performance:** Industry-leading circuit breaker innovation and protection for heavy-duty commercial and industrial applications.
- **Smart:** Integrated metering options provide a cost-effective solution to reduce energy consumption, optimize energy costs, and improve energy availability for your facilities.
- **Flexible:** Full range of thermal-magnetic and electronic trip molded case circuit breakers from 15 A to 3000 A, delivering the ratings, configurations, and operators for your unique applications.
- **Simple:** Common catalog numbers, standardized ratings, and a full range of field-installable accessories make product selection, installation and maintenance easier than ever.
- **Common Design Features:** Mounting holes, door trim, and handle accessories

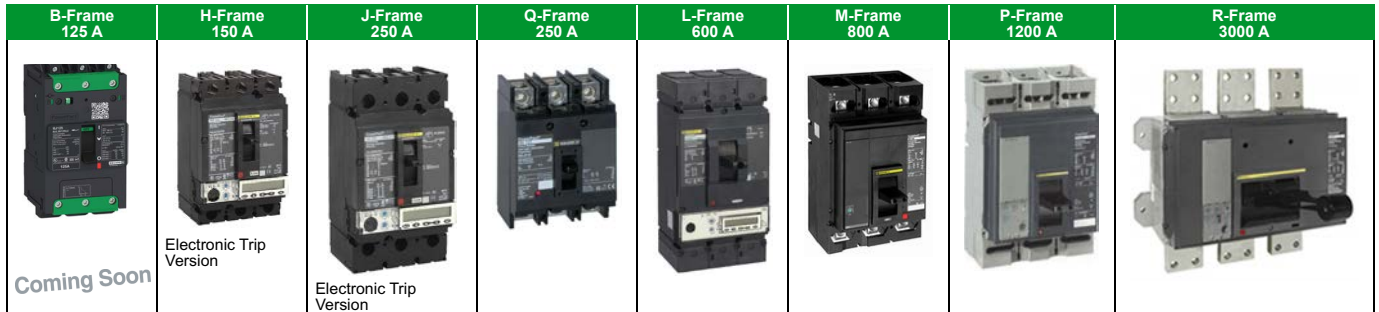
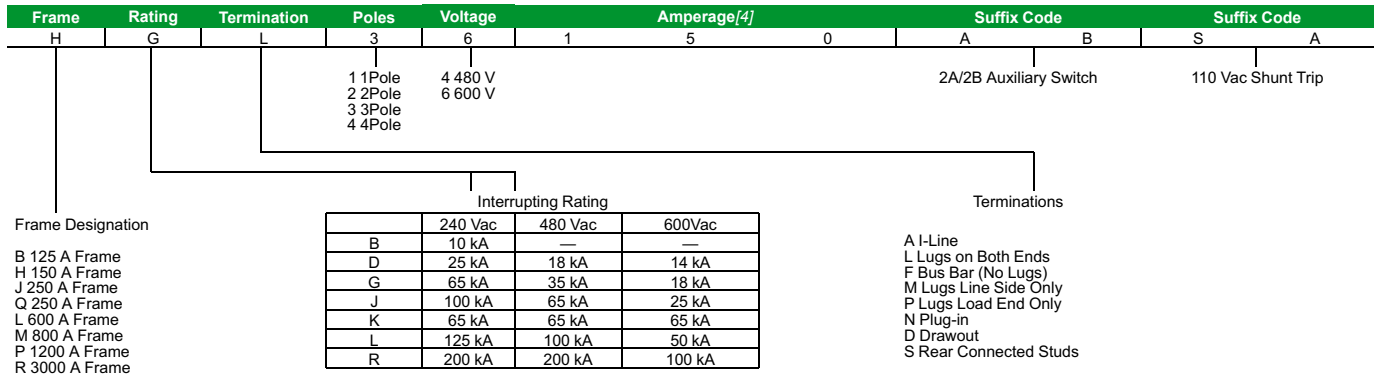


Table 7.47: PowerPact Interrupting Ratings

Voltage	Interrupting Rating						
	B	D	G	J	K	L	R
240 Vac	10 kA	25 kA	65 kA	100 kA	65 kA [1]	125 kA	200 kA
480 Vac		18 kA	35 kA	65 kA	65 kA [2]	100 kA	200 kA
600 Vac		14 kA	18 kA	25 kA	65 kA [2]	50 kA [3]	100 kA

Table 7.48: Common Catalog Numbering System



Description

- B-Frame Circuit Breakers, page 7-30
- H- and J-Frame Circuit Breakers, page 7-31
- Q-Frame Circuit Breakers, page 7-35
- L-Frame Circuit Breakers, page 7-36
- P-Frame Circuit Breakers, page 7-38
- R-Frame Circuit Breakers, page 7-39
- PowerPact™ H- and J-Frame Electronic Motor Circuit Protectors, page 7-41
- Motor Circuit Protectors and Motor Protector Circuit Breakers, page 7-44
- Automatic Switches, page 7-48
- 500 Vdc Circuit Breakers, page 7-49
- Mission Critical Circuit Breakers, page 7-57
- PowerPact™ Circuit Breaker Accessories, page 7-59
- Motor Operators and Rotary Handles, page 7-60
- Locks, Installation Accessories, and Rear Connections, page 7-62
- Mechanical Lugs, page 7-62
- Compression Lugs and Power Distribution Connectors (PDC), page 7-65
- Terminal Nuts, Terminal Pads, Terminal Shields and Accessories, page 7-67
- Plug-In and Drawout Mountings, page 7-68
- Micrologic™ Electronic Trip Units, page 7-69
- Micrologic™ Trip Unit Accessories, page 7-73

[1] B-Frame K interrupting rating is 100 kA at 240 Vac
 [2] P-frame K interrupting is 50 kA at 480 and 600 Vac.
 [3] P-frame L interrupting is 25 kA at 600 Vac.
 [4] For amperage of M-, P- or R-frame circuit breakers, add a zero to the three amperage digits; for example, 120 = 1200 A.