

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 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

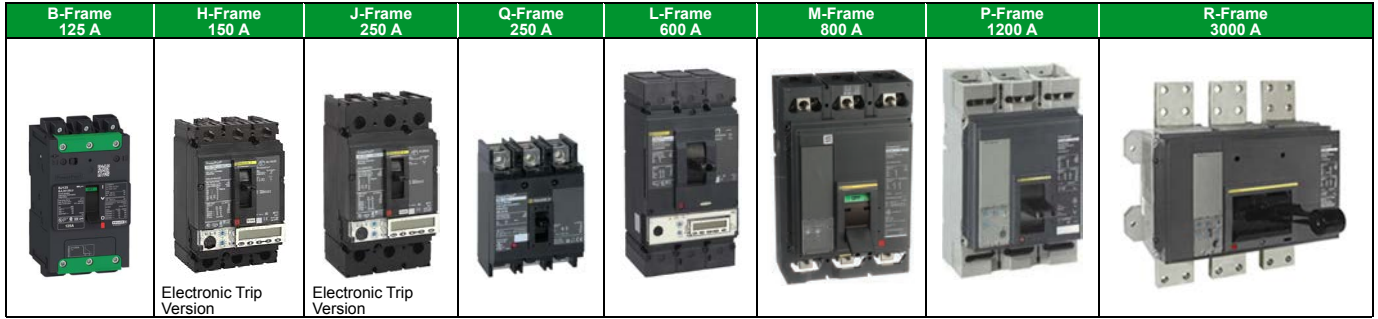


Table 7.46: PowerPact Interrupting Ratings

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 7.47: Common Catalog Numbering System

Frame	Rating	Termination	Poles	Voltage	Amperage ^[4]	Suffix Code	Suffix Code				
H	G	L	3	6	1	5	0	A	B	S	A
		1=1Pole 2=2Pole 3=3Pole 4=4Pole		4=480 V 6=600 V			2A/2B Auxiliary Switch	110 Vac Shunt Trip			

Frame Designation		Interrupting Rating			Terminations		
B	125 A Frame	B	240 Vac	480 Vac	600Vac	A	I-Line
H	150 A Frame	D	10 kA	—	—	L	Lugs on Both Ends
J	250 A Frame	J	25 kA	18 kA	14 kA	F	Bus Bar (No Lugs)
Q	250 A Frame	G	65 kA	35 kA	18 kA	M	Lugs Line Side Only
L	600 A Frame	J	100 kA	65 kA	25 kA	P	Lugs Load End Only
M	800 A Frame	K	100 kA	65 kA	65 kA	N	Plug-in
P	1200 A Frame	L	125 kA	100 kA	50 kA	D	Drawout
R	3000 A Frame	R	200 kA	200 kA	100 kA	S	Rear Connected Studs

For more information:

- B-Frame Circuit Breakers, page 7-32
- H- and J-Frame Circuit Breakers, page 7-33
- Q-Frame Circuit Breakers, page 7-36
- L-Frame Circuit Breakers, page 7-38
- P-Frame Circuit Breakers, page 7-41
- R-Frame Circuit Breakers, page 7-42
- H, J, and L-Frame Motor Protectors, page 7-50
- Motor Circuit Protectors and Motor Protector Circuit Breakers, page 7-50
- Automatic Switches, page 7-46
- 500 Vdc Circuit Breakers, page 7-45
- Mission Critical Circuit Breakers, page 7-44
- Electrical Accessories for Circuit Breakers, page 7-51
- Motor Operators, page 7-52 and Rotary Handles, page 7-53
- Locks, Installation Accessories, and Rear Connectors, page 7-54
- Mechanical Lugs, page 7-56
- Compression Lugs, page 7-57 and Power Distribution Connectors, page 7-58
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- Plug-In and Drawout Mountings, page 7-60
- MicroLogic Electronic Trip Units, page 7-61
- Trip Unit Accessories, page 7-64

[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.



PowerPact M-Frame Circuit Breaker with Basic Electronic Trip Unit

PowerPact M-Frame Molded Case Circuit Breakers (800 A)

PowerPact M-frame circuit breakers use an electronic trip system with the simplicity of a thermal magnetic breaker.

- Basic electronic trip protection from 300 to 800 A up to 600 Vac
- 2- and 3-pole unit mount and I-line construction
- UL listed interrupting ratings from 35 to 65 kA at 480 Vac
- Common mounting holes, handle locations and trim dimensions with shared auxiliaries and accessories with P-frame devices
- Available in standard (80%) rating only
- UL, CSA, NOM, CCC and IEC certified and CE marked for global acceptance

Table 7.72: M-Frame 800 A, Basic Electronic Trip System Type ET 1.0 [40] Factory-Sealed Trip Unit

Electronic Trip Unit		Ampere Rating	Adjustable Instantaneous Trip Range		Interrupting Rating	
Type	Function		Low	High	G	J
2P, 600 Vac 50/60 Hz						
Basic	Fixed Long-time, Adjustable Instantaneous Trip	400 A	800	4000	MGL26400	MJL26400
		600 A	1200	6000	MGL26800[41]	MJL26800[41]
3P, 600 Vac 50/60 Hz						
Basic	Fixed Long-time, Adjustable Instantaneous Trip	400 A	800	4000	MGL36400	MJL36400
		600 A	1200	6000	MGL36800[41]	MJL36800[41]

Table 7.73: M-Frame 800 A, Adjustable Amperage Electronic Trip Unit

Electronic Trip Unit		Adjustable Long-Time Settings	Adjustable Instantaneous		Interrupting Rating	
Type	Function		Low	High	G	J
2P, 600 Vac 50/60 Hz						
Basic	Adjustable Long-Time Adjustable Instantaneous Trip	300–800	2x	10x	MGL26800E10	MJL26800E10
3P, 600 Vac 50/60 Hz						
Basic	Adjustable Long-Time Adjustable Instantaneous Trip	300–800	2x	10x	MGL36800E10	MJL36800E10

Table 7.74: M-Frame Termination Options

Termination Letter	Termination Option
A	I-Line (See Section 9—Panelboards)
F	No lugs
L	Lugs both ends
M	Lugs ON end, terminal nut kit OFF end
P	Lugs OFF end, terminal nut kit ON end

M G L 3 6 4 0 0

For factory-installed termination, place termination letter in the third block of the circuit breaker catalog number.

Table 7.75: PowerPact M-Frame Interrupting Ratings

Voltage	Interrupting Rating	
	G	J
240 Vac	65 kA	100 kA
480 Vac	35 kA	65 kA
600 Vac	18 kA	25 kA

Accessories see page 7-51
Optional Lugs see page 7-56

Dimensions see page 7-87
Enclosures see page 7-88

[40] The ET 1.0 trip unit cannot be field replaced or have the long-time trip point setting adjusted. It is considered an electronic equivalent of a thermal-magnetic circuit breaker.

[41] This item is entering obsolescence. The purchase opportunity will extend until December 2021.