

The PowerPact Advantage

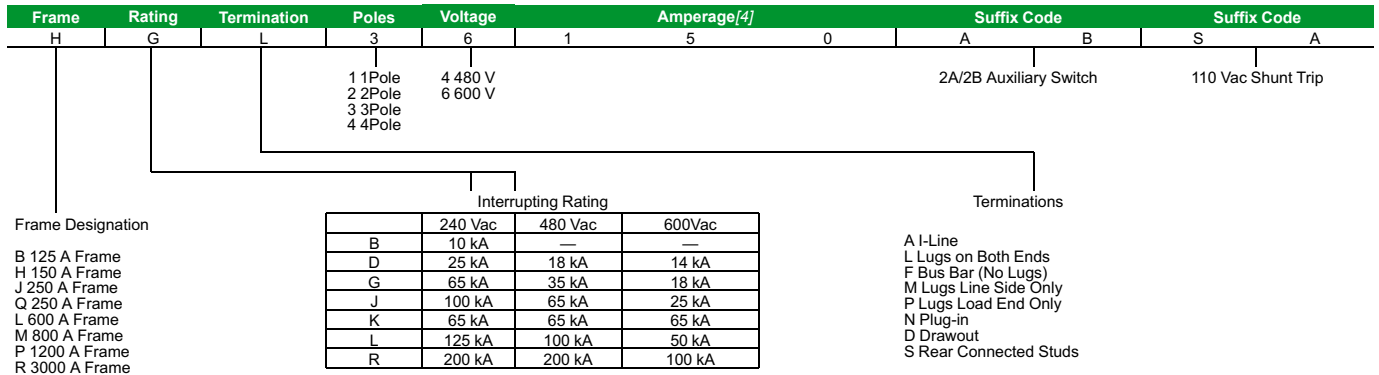
- **Proven Performance:** Industry-leading circuit breaker innovation and protection for heavy-duty commercial and industrial applications.
- **Smart:** Integrated metering options provide a cost-effective solution to reduce energy consumption, optimize energy costs, and improve energy availability for 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.

Q-Frame Molded Case Circuit Breakers

Table 7.61: PowerPact Q-Frame 250 A Thermal-Magnetic Circuit Breaker (240 Vac)

[20]



QBL 2P
70–250



QBL 3P
70–250 A

Ampere Rating	Fixed AC Magnetic Trip		Interrupting Rating				Terminal Wire Range	
	Hold	Trip	B	D	G	J		
2P, 240 Vac								
70 A	1000 A	1800 A	QBL22070	QDL22070	QGL22070	QJL22070	#4 AWG - 300 kcmil Al/Cu	
80 A	1000 A	1800 A	QBL22080	QDL22080	QGL22080	QJL22080		
90 A	1000 A	1800 A	QBL22090	QDL22090	QGL22090	QJL22090		
100 A	1200 A	2400 A	QBL22100	QDL22100	QGL22100	QJL22100		
110 A	1200 A	2400 A	QBL22110	QDL22110	QGL22110	QJL22110		
125 A	1200 A	2400 A	QBL22125	QDL22125	QGL22125	QJL22125		
150 A	1200 A	2400 A	QBL22150	QDL22150	QGL22150	QJL22150		
175 A	1200 A	2400 A	QBL22175	QDL22175	QGL22175	QJL22175		
200 A	1200 A	2400 A	QBL22200	QDL22200	QGL22200	QJL22200		
225 A	1200 A	2400 A	QBL22225	QDL22225	QGL22225	QJL22225		
250 A [21]	1200 A	2400 A	QBL22250	QDL22250	QGL22250	QJL22250		
3P, 240 Vac								
70 A	1000 A	1800 A	QBL32070	QDL32070	QGL32070	QJL32070		#4 AWG - 300 kcmil Al/Cu
80 A	1000 A	1800 A	QBL32080	QDL32080	QGL32080	QJL32080		
90 A	1000 A	1800 A	QBL32090	QDL32090	QGL32090	QJL32090		
100 A	1200 A	2400 A	QBL32100	QDL32100	QGL32100	QJL32100		
110 A	1200 A	2400 A	QBL32110	QDL32110	QGL32110	QJL32110		
125 A	1200 A	2400 A	QBL32125	QDL32125	QGL32125	QJL32125		
150 A	1200 A	2400 A	QBL32150	QDL32150	QGL32150	QJL32150		
175 A	1200 A	2400 A	QBL32175	QDL32175	QGL32175	QJL32175		
200 A	1200 A	2400 A	QBL32200	QDL32200	QGL32200	QJL32200		
225 A	1200 A	2400 A	QBL32225	QDL32225	QGL32225	QJL32225		
250 A [21]	1200 A	2400 A	QBL32250	QDL32250	QGL32250	QJL32250		

Table 7.62: Q-Frame Termination Options

Termination Letter	
A = I-Line (See Section 9)	Q G L 3 2 2 0 0 For factory-installed termination, place termination letter in the third block of the circuit breaker catalog number.
E = Bolt-on I-Line (See Section 9)	
F = No lugs	
L = Lugs both ends	
M = Lugs ON end, studs on OFF end	
P = Lugs OFF end, studs on ON end	

Table 7.63: Q-Frame Interrupting Ratings

Voltage	Interrupting Rating			
	B	D	G	J
240 Vac [22]	10 kA	25 kA	65 kA	100 kA [23]

Dimension see page 7-80

Enclosures see page 7-81

[20] Replacement lugs and electrical accessories are not available for PowerPact Q-frame circuit breakers.

[21] 250 A lugs are suitable for copper conductors only.

[22] Q-frame circuit breakers are 240 Vac only.

[23] 3P QJ circuit breakers are rated at 208Y/120 Vac only.