

B-, H-, J-Frame Molded Case Circuit Breakers

PowerPacT™ 125 A B-Frame					PowerPacT 150 A H-Frame					PowerPacT 250 A J-Frame					
															
	Electronic Trip Version				Electronic Trip Version					Electronic Trip Version					
Circuit Breaker Type	BD	BG	BJ	BK	HD	HG	HJ	HL	HR	JD	JG	JJ	JL	JR	
Number of Poles	1, 2, 3, 4	1, 2, 3, 4	1, 2, 3, 4	1, 2	2, 3	2, 3	2, 3 [33]	2, 3 [33]	3	2, 3 [33]	2, 3 [33]	2, 3 [33]	2, 3 [33]	3	
Current Range (A)	15–125	15–125	15–125	15–30	15–150	15–150	15–150	15–150	15–150	70–250 [34]	70–250 [34]	70–250 [34]	70–250 [34]	70–250 [34]	
Interrupting Ratings															
UL/CSA/ NOM AC Rating (kA RMS) (50/60 Hz)	240 Vac	25	65	100	100	25	65	100	125	200	25	65	100	125	200
	480Y/277 Vac	18	35	65	65	18	35	65	100	200	18	35	65	100	200
	480 Vac	18	35	65	65	18	35	65	100	200	18	35	65	100	200
	600Y/347 Vac	14	18	25	65	14	18	25	50	100	14	18	25	50	100
	600 Vac	—	—	—	—	14	18	25	50	100	14	18	25	50	100
UL/CSA/ NOM DC Ratings	250 Vdc [35] [36]	10	20	50	—	20	20	20	20	—	20	20	20	20	—
	500 Vdc [35]	—	—	—	—	—	20	—	50	—	—	20	—	50	—
IEC AC Rating (kA RMS) (50/60 Hz) Icu/Ics [37]	220/240 Vac	25	65	100	100	25	65	100	125	150	25	65	100	125	150
	380/415 Vac	18	35	65	65	18	35	65	100	125	18	35	65	100	125
	440/480 Vac	18	35	65	65	18	35	65	100	125	18	35	65	100	125
	500/525 Vac	14	18	25	25	14	18	25	50	75	14	20	20	20	75
	690 Vac	—	—	—	—	—	—	—	—	20	—	—	—	—	20
IEC DC Ratings	250 Vdc	—	—	—	—	—	—	—	—	—	20	20	20	20	—
	500 Vdc	—	—	—	—	—	—	—	—	—	20	20	20	20	—
Special Ratings															
CCC	X	X	X	X	X	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	X	X	X	X	X
HACR	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Connections/Terminations															
Unit Mount	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
I-Line™	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Rear Connection	—	—	—	—	X [38]	X [38]	X	X	X	X	X	X	X	X	X
Drawout	—	—	—	—	X [38]	X [38]	X	X	X	X	X	X	X	X	X
Optional Lugs	X	X	X	X	X [38]	X [38]	X	X	X	X	X	X	X	X	X
Accessories and Modifications															
Shunt Trip	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Undervoltage Trip	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Auxiliary Switches	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Alarm Switch	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Motor Operator	—	—	—	—	X [38]	X [38]	X	X	X	X	X	X	X	X	X
Handle Operators	X	X	X	X	X [38]	X [38]	X	X	X	X	X	X	X	X	X
Mechanical Interlocks (3P)	X	X	X	—	X	X	X	X	X	X	X	X	X	X	X
Handle Padlock Attachment	X	X	X	X	X [38]	X [38]	X	X	X	X	X	X	X	X	X
Cylinder Lock (3P)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Optional GF Protection	—	—	—	—	X	X	X	X	X	X	X	X	X	X	X
Trip System Type															
Thermal-magnetic	X	X	X	X	X	X	X	X	—	X	X	X	X	X	X
Instantaneous-only (MCP)	—	—	—	—	—	X	X [39]	X [39]	X [39]	—	X [39]	X [39]	X	X	X
Molded Case Switch (Automatic)	X	X	X	X	—	X	—	X	—	—	X	—	X	X	X
Electronic	—	—	—	—	X [39]	X [39]	X [39]	X [39]	X [39]	X [39]	X [39]	X [39]	X [39]	X [39]	X [39]
Enclosures (page 7-82–page 7-84)															
General Purpose (NEMA 1)	—	—	—	—	X	X	X	X	—	X	X	X	X	X	—
Raintight (NEMA 3R)	—	—	—	—	X	X	X	X	—	X	X	X	X	X	—
Dust-tight (NEMA 12)	—	—	—	—	X	X	X	X	—	X	X	X	X	X	—
Watertight (NEMA 4, 4X, 5)	—	—	—	—	X	X	X	X	—	X	X	X	X	X	—
Explosion Proof (NEMA 7, 9)	—	—	—	—	—	—	—	—	—	X [40]	X [40]	—	—	—	—
Dimensions (3P Unit Mount) in. (mm)	Height	5.4 (137)				6.4 (163)				7.5 (191)					
	Width	3.2 (81)				4.1 (104)				4.1 (104)					
	Depth	3.5 (89)				3.4 (86)				3.4 (86)					
Pages (Unit Mount) / (I-Line)		page 7-32 / Section 9				page 7-33 / Section 9				page 7-33 / Section 9					

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

[33] 2P in a 3P module.

[34] 70–250 A with electronic trip system

[35] Not available with electronic trip units

[36] 1P Available at 125 Vdc

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

[38] Not available in HD and HG 2P rating (2P module).

[39] 3P only.

[40] Not UL Listed due to wire bending space.

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

B-Frame 125 A	H-Frame 150 A	J-Frame 250 A	Q-Frame 250 A	L-Frame 600 A	M-Frame 800 A	P-Frame 1200 A	R-Frame 3000 A
							
	Electronic Trip Version	Electronic Trip Version					

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

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

Frame Designation		Interrupting Rating				Terminations	
B	125 A Frame		240 Vac	480 Vac	600 Vac	A	I-Line
H	150 A Frame	B	10 kA	—	—	L	Lugs on Both Ends
J	250 A Frame	D	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](#)
[Terminal Nuts, Terminal Pads, Terminal Shields, and Accessories, page 7-59](#)
[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.



J-Frame
MicroLogicTM Trip Unit



J-Frame 3-Pole
Thermal-Magnetic Trip Unit

Table 7.54: Lug Kit Wire Ranges

Sensor Rating	Standard Lug Kit	Terminal Wire Range
60–150 A	AL150HD	14–3/0 AWG Al or Cu
250 A	AL250JD	3/0 AWG–350 kcmil Al or Cu

PowerPacT H- and J-Frame Molded-Case Circuit Breakers (150 A and 250 A)

A flexible, high performance offer certified to global standards.

- Thermal magnetic or MicroLogicTM trip protection from 15–250 A up to 600 Vac and 250 Vdc
- 2 and 3-pole unit mount and I-Line constructions^[5]
- High performance UL listed interrupting ratings from 18 to 200 kA at 480 Vac
- H- and J-Frame have common mounting holes, handle locations and trim dimensions with many shared accessories and auxiliaries.
- UL, CSA, NOM, IEC, CCC certified and CE marked for global acceptance.

Table 7.55: H- and J-Frame Interrupting Ratings

Voltage	Interrupting Rating				
	D	G	J	L	R
240 Vac	25 kA	65 kA	100 kA	125 kA	200 kA
480 Vac	18 kA	35 kA	65 kA	100 kA	200 kA
600 Vac	14 kA	18 kA	25 kA	50 kA	100 kA
250 Vdc ^[6]	20 kA	20 kA	20 kA	20 kA	—

Table 7.56: H- and J-Frame Termination Options

Termination Letter	
A = I-Line (See Section 9—Panelboards)	H D L 3 6 0 1 5 For factory-installed termination, place termination letter in the third block of the circuit breaker catalog number.
F = No Lugs (includes terminal nut kit on both ends)	
L = Lugs both ends	
M = Lugs ON end Terminal Nut Kit OFF end	
P = Lugs OFF end Terminal Nut Kit ON end	
N = Plug-in	
D = Drawout	
S = Rear Connected	

Accessories see [page 7-51](#)

Optional Lugs see [page 7-56](#)

Dimensions see [page 7-83](#)

Enclosures see [page 7-84](#)

[5] H- and J- frame circuit breakers can be used as a main or sub-feed circuit breaker in an NQ or NF panelboard.

[6] Not available with electronic trip units.