



J-Frame MicroLogic™ 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 MicroLogic™ trip protection from 15–250 A up to 600 Vac and 250 Vdc
- 2 and 3-pole unit mount and I-Line constructions<sup>[5]</sup>
- 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 <sup>[6]</sup>	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 7-86](#)  
 Enclosures see [page 7-87](#)

[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.

**Q-Frame Molded Case Circuit Breakers (250 A)**

PowerPacT Q-frame circuit breakers are used for overcurrent protection and switching on 240 Vac applications.<sup>[20]</sup>

- Fixed thermal magnetic protection from 70–250 A at 240 Vac
- 2- and 3-pole unit mount and I-Line constructions<sup>[21]</sup>
- UL listed interruption ratings from 10 kA to 100 kA at 240 Vac
- Available in standard (80%) rating only
- UL 489 Listed, CSA, NOM and IEC certified



2-Pole Q-Frame with Thermal-Magnetic Trip Unit 70–250

3-Pole Q-Frame with Thermal-Magnetic Trip Unit 70–250 A

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

Ampere Rating	Fixed AC Magnetic Trip		Interrupting Rating				Terminal Wire Range
	Hold	Trip	B	D	G	J	
<b>2P, 240 Vac</b>							
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 <sup>[22]</sup>	1200 A	2400 A	QBL22250	QDL22250	QGL22250	QJL22250	
<b>3P, 240 Vac</b>							
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 <sup>[23]</sup>	1200 A	2400 A	QBL32250	QDL32250	QGL32250	QJL32250	

**Table 7.62: Q-Frame Interrupting Ratings**

Voltage	Interrupting Rating			
	B	D	G	J
240 Vac	10 kA	25 kA	65 kA	100 kA <sup>[24]</sup>

**Table 7.63: Q-Frame Termination Options**

Termination Letter	
A = I-Line (See Section 9—Panelboards)	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	

Dimension see page 7-86

Enclosures see page 7-87

<sup>[20]</sup> Replacement lugs and electrical accessories are not available for PowerPacT Q-frame circuit breakers.

<sup>[21]</sup> Q-frame can be used as main or sub-feed circuit breaker in a NQ panelboard.

<sup>[22]</sup> 250 A lugs are suitable for copper conductors only.

<sup>[23]</sup> 250 A circuit breakers are suitable for copper conductors only.

<sup>[24]</sup> 3P QJ circuit breakers are rated at 208Y/120 Vac only.