

F-frame

Table 9.111: QO™ Distribution Panel—240 Vac Max. Only Mounts in Type HCM, HCP, HCP-SU, or HCR-U I-Line panelboards, 30 A max. branch circuit breaker.

Maximum No. 1-pole QO Circuit Breakers	Phase Connection	Mounting Height		2-pole Catalog Number	3-pole Catalog Number
		In.	mm		
6	AB	4.5	114	HQO206AB	—
6	BC	4.5	114	HQO206BC	—
6	AC	4.5	114	HQO206AC	—
6	ABC	4.5	114	—	HQO306



FA/FH, 1-pole  
1.5 in (38 mm)  
Mounting Height



FA/FH, 2-pole  
3 in (76 mm)  
Mounting Height



FA/FH, 3-pole  
4.5 in (114 mm)  
Mounting Height

Table 9.112: Example: FJA, 20 A 1-pole, 277 Vac and 70 A 2- and 3-pole QB 240 Vac. Use phase option number for HD, HG, HJ, HL, JD, JG, JJ, JL, MG, and MJ.

Phase Option Number	Phase Connection	1-pole	2-pole	3-pole
1	A	FJA140201	—	—
3	B	FJA140203	—	—
5	C	FJA140205	—	—
1	AB	—	QBA220701	—
2	AC	—	QBA220702	—
3	BA	—	QBA220703	—
4	BC	—	QBA220704	—
5	CA	—	QBA220705	—
6	CB	—	QBA220706	—
Standard [1]	ABC	—	—	QBA32070
6	CBA	—	—	QBA320706

Table 9.113: Example: FA, 30 A, 480 Vac. Use phase option letters for FH, FI, KI, LA, LH, LC, and LI.

Phase Option Letter	1-pole	2-pole	3-pole
A	FA14035A	—	—
B	FA14035B	—	—
C	FA14035C	—	—
AB	—	FA24030AB	—
AC	—	FA24030AC	—
BC	—	FA24030BC	—
ABC	—	—	FA34030
CBA	—	—	FA34030CBA

Table 9.114: Interrupt Ratings (kA)

	FA (240 V)	FA (480 V)	FJ
240 V	10	18 (1P), 25 (2, 3P)	65
277 V	—	18	65
480 V	—	18	—
600 V	—	—	—

F-frame accessories starting on Supplemental Digest Section 3.

Table 9.115: F-frame—100 A, Thermal-magnetic (240 Vac)

40 A	AC Magnetic Trip Settings		FA22040( )	Terminal Wire Range	
	Hold	Trip			
Ampere Rating	275	600	Standard Interrupting	AL50FA #14–#4 AWG Cu or #12–#4 AWG Al	
			Catalog Number		
			2-pole, 240 Vac [2]		
			FA22015( )		
20 A	400	850	FA22020( )	AL100FA #14–#1/0 AWG Cu or #12–#1/0 AWG Al	
25 A			FA22025( )		
30 A			FA22030( )		
35 A			FA22035( )		
45 A	800	1450	FA22045( )	AL100FA #14–#1/0 AWG Cu or #12–#1/0 AWG Al	
50 A			FA22050( )		
60 A			FA22060( )		
70 A			FA22070( )		
80 A	900	1700	FA22080( )	AL100FA #14–#1/0 AWG Cu or #12–#1/0 AWG Al	
90 A			FA22090( )		
100 A			FA22100( )		
3-pole, 240 Vac					
15 A	275	600	FA32015	AL50FA #14–#4 AWG Cu or #12–#4 AWG Al	
20 A			FA32020		
25 A			FA32025		
30 A			FA32030		
35 A	400	850	FA32035	AL100FA #14–#1/0 AWG Cu or #12–#1/0 AWG Al	
40 A			FA32040		
45 A			FA32045		
50 A			FA32050		
60 A	800	1450	FA32060	AL100FA #14–#1/0 AWG Cu or #12–#1/0 AWG Al	
70 A			FA32070		
80 A			FA32080		
90 A			FA32090		
100 A	900	1700	FA32100	AL100FA #14–#1/0 AWG Cu or #12–#1/0 AWG Al	

[1] The absence of a phase option number after a 3-pole catalog number will result in an ABC phase connection.

[2] 1- and 2-pole circuit breaker catalog numbers are completed by adding the required phase connection letters as a suffix.

**Table 9.119 PowerPact™ Q-frame— 225 A, Thermal-magnetic (240 Vac) (cont'd.)**

Ampere Rating	AC Magnetic Trip Settings		"B" Interrupting	"D" Interrupting	"G" Interrupting	"J" Interrupting
	Hold	Trip	Catalog Number	Catalog Number	Catalog Number	Catalog Number
100 A	1200	2400	QBA32100( )	QDA32100( )	QGA32100( )	QJA32100( )
110 A			QBA32110( )	QDA32110( )	QGA32110( )	QJA32110( )
125 A			QBA32125( )	QDA32125( )	QGA32125( )	QJA32125( )
150 A			QBA32150( )	QDA32150( )	QGA32150( )	QJA32150( )
175 A			QBA32175( )	QDA32175( )	QGA32175( )	QJA32175( )
200 A			QBA32200( )	QDA32200( )	QGA32200( )	QJA32200( )
225 A			QBA32225( )	QDA32225( )	QGA32225( )	QJA32225( )

See [4] below.

**Table 9.120: Interrupt Ratings (kA)**

	FA	FH	FI	QB	QD	QG	QJ [5]
240 V	25	25 (1P 35–100 A), 65 (1P 15–30 A, 2P, 3P)	200	10	25	65	100
480 V	18	25 (2, 3P)		—	—	—	—
600 V	14	18 (2, 3P)	100	—	—	—	—

F-frame, see Supplemental Digest Section 3

Q-frame accessories Digest Section 7

Q-frame dimensions Digest Section 7

Q-frame optional lugs Supplemental Digest Section 3

**H- and J-frame for I-Line™ Panelboards and Switchboards**

**Table 9.121: H-frame 150 A Thermal-Magnetic UL Current-Limiting [6] Circuit Breakers (600 Vac, 250 Vdc) With Factory Sealed Trip Unit [7] Suitable for Reverse Connection [7]**

Current Rating @ 40°C	Fixed AC Magnetic Trip		Cat. No. [8]	Terminal Wire Range
	Hold	Trip		
<b>H-frame, 150A 2P, 600 Vac 50/60 Hz, 250 Vdc [9]</b>				
15 A	350 A	750 A	H( )A26015( )	AL150HD 14–3/0 AWG Al or Cu
20 A	350 A	750 A	H( )A26020( )	
25 A	350 A	750 A	H( )A26025( )	
30 A	350 A	750 A	H( )A26030( )	
35 A	400 A	850 A	H( )A26035( )	
40 A	400 A	850 A	H( )A26040( )	
45 A	400 A	850 A	H( )A26045( )	
50 A	400 A	850 A	H( )A26050( )	
60 A	800 A	1450 A	H( )A26060( )	
70 A	800 A	1450 A	H( )A26070( )	
80 A	800 A	1450 A	H( )A26080( )	
90 A	800 A	1450 A	H( )A26090( )	
100 A	800 A	1700 A	H( )A26100( )	
110 A	900 A	1700 A	H( )A26110( )	
125 A	900 A	1700 A	H( )A26125( )	
150 A	900 A	1700 A	H( )A26150( )	
<b>H-frame 150A 3P, 600 Vac 50/60 Hz, 250 Vdc</b>				
15 A	350 A	750 A	H( )A36015	AL150HD 14–3/0 AWG Al or Cu
20 A	350 A	750 A	H( )A36020	
25 A	350 A	750 A	H( )A36025	
30 A	350 A	750 A	H( )A36030	
35 A	400 A	850 A	H( )A36035	
40 A	400 A	850 A	H( )A36040	
45 A	400 A	850 A	H( )A36045	
50 A	400 A	850 A	H( )A36050	
60 A	800 A	1450 A	H( )A36060	
70 A	800 A	1450 A	H( )A36070	
80 A	800 A	1450 A	H( )A36080	
90 A	800 A	1450 A	H( )A36090	
100 A	800 A	1700 A	H( )A36100	
110 A	900 A	1700 A	H( )A36110	
125 A	900 A	1700 A	H( )A36125	
150 A	900 A	1700 A	H( )A36150	

[4] Replacement lugs are not available on QB, QD, QG, or QJ circuit breakers. Lugs for QB, QD, QG, or QJ circuit breakers accept one #4 AWG–300 kcmil. No accessories are available for PowerPact Q Frame breakers.

[5] 3-pole QJ circuit breakers are rated at 208Y/120 Vac only.

[6] Circuit breakers with J, L, and R interrupting ratings are UL certified as current limiting.

[7] See Supplemental Digest Section 3 for circuit breakers with field-interchangeable trip units.

[8] To complete catalog number, replace the blank with the appropriate rating (D, G, J, L).

[9] 2 pole circuit breaker catalog numbers are completed by adding the required phase connection number as a suffix see Table 9.128, page 9-45.