

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 Ampere Rating	AC Magnetic Trip Settings		FA22040() Standard Interrupting Catalog Number	Terminal Wire Range
	Hold	Trip		
2-pole, 240 Vac [2]				
15 A	275	600	FA22015()	AL50FA #14-#4 AWG Cu or #12-#4 AWG Al
20 A			FA22020()	
25 A			FA22025()	
30 A			FA22030()	
35 A	400	850	FA22035()	AL100FA #14-#1/0 AWG Cu or #12-#1/0 AWG Al
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			FA22080()	
90 A			FA22090()	
100 A	900	1700	FA22100()	AL100FA #14-#1/0 AWG Cu or #12-#1/0 AWG Al
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	800	1450	FA32040	AL100FA #14-#1/0 AWG Cu or #12-#1/0 AWG Al
45 A			FA32045	
50 A			FA32050	
60 A			FA32060	
70 A			FA32070	
80 A			FA32080	
90 A	900	1700	FA32090	AL100FA #14-#1/0 AWG Cu or #12-#1/0 AWG Al
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 9.122: J-frame 250 A Thermal-Magnetic UL Current-Limiting^[10] Circuit Breakers (600 Vac, 250 Vdc) With Factory Sealed Trip Unit^[11] Suitable for Reverse Connection^[11]

Current Rating @ 40°C	Adjustable AC Magnetic Trip		Cat. No. ^[12]	Terminal Wire Range
	Low	High		
J-frame 250A 2P, 600 Vac 50/60 Hz, 250 Vdc^[13]				
150 A	750 A	1500 A	J()A26150()	AL175JD 4–4/0 AWG Al or Cu
175 A	875 A	1750 A	J()A26175()	
200 A	1000 A	2000 A	J()A26200()	AL250JD 3/0 AWG–350 kcmil Al or Cu
225 A	1125 A	2250 A	J()A26225()	
250 A	1250 A	2500 A	J()A26250()	
J-frame 250A 3P, 600 Vac 50/60 Hz, 250 Vdc				
150 A	750 A	1500 A	J()A36150	AL175JD 4–4/0 AWG Al or Cu
175 A	875 A	1750 A	J()A36175	
200 A	1000 A	2000 A	J()A36200	AL250JD 3/0 AWG–350 kcmil Al or Cu
225 A	1125 A	2250 A	J()A36225	
250 A	1250 A	2500 A	J()A36250	

Table 9.123: H-frame 150 A and J-frame 250 A Electronic Trip UL Current-Limiting^[10] Circuit Breakers (600 Vac) With Factory Sealed Trip Unit^[11] Suitable for Reverse Connection^[14]

Electronic Trip Unit			Sensor Rating	Cat. No. ^[12]	Terminal
Type	Function	Trip Unit			
600 Vac, 50/60 Hz, 3P					
Micrologic Standard	LI	3.2 ^[15]	60 A	H()A36060U31X	AL150HD ^[16]
			100 A	H()A36100U31X	
			150 A	H()A36150U31X	
			250 A	J()A36250U31X	AL250JD ^[17]
Micrologic Standard	LSI	3.2S ^[15]	60 A	H()A36060U33X	AL150HD ^[16]
			100 A	H()A36100U33X	
			150 A	H()A36150U33X	
			250 A	J()A36250U33X	AL250JD ^[17]
Micrologic Ammeter	LSI	5.2A	60 A	H()A36060U43X	AL150HD ^[16]
			100 A	H()A36100U43X	
			150 A	H()A36150U43X	
			250 A	J()A36250U43X	AL250JD ^[17]
Micrologic Energy	LSI	5.2E	60 A	H()A36060U53X	AL150HD ^[16]
			100 A	H()A36100U53X	
			150 A	H()A36150U53X	
			250 A	J()A36250U53X	AL250JD ^[17]
Micrologic Ammeter	LSIG	6.2A	60 A	H()A36060U44X	AL150HD ^[16]
			100 A	H()A36100U44X	
			150 A	H()A36150U44X	
			250 A	J()A36250U44X	AL250JD ^[17]
Micrologic Energy	LSIG	6.2E	60 A	H()A36060U54X	AL150HD ^[16]
			100 A	H()A36100U54X	
			150 A	H()A36150U54X	
			250 A	J()A36250U54X	AL250JD ^[17]

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

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

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

[13] 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.

[14] For applications requiring communications, see page 7-69.

[15] 3P circuit breakers with this trip unit can be used for 2P applications.

[16] AL150HD wire range is 14–3/0 AWG Al or Cu.

[17] AL250JD wire range is 3/0 AWG–350 kcmil Al or Cu. For smaller wire range (4–4/0 AWG Al or Cu), replace the lug's wire binding screws with the larger binding screws provided.