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This page contains UL Tested and Certified series combination ratings for panelboards. These ratings apply to either an integral main located in the same enclosure or a remote main located in a separate enclosure.

Table 9.1: NQ Series Connected Circuit Breaker Ratings (RMS Symmetrical)

Max. System Voltage AC ▲■	Max. Short Circuit Current Rating	Square D Brand Integral or Remote Main Circuit Breakers and Remote Main Fuses	Square D Brand Branch Circuit Breaker Catalog Designation and Allowable Ampere Ranges ◆★▼				
			Type	1 Pole	2 Pole	3 Pole	
120/240 1PH	22,000	MG	QO (B)	15-30A	—	—	
	42,000 65,000 100,000 125,000	HD, JD HG, JG HJ, JJ HL, JL	QO (B) PL QO (B) PL QO (B) PL QO (B) PL	15-30A	15-60 A	—	
120/240 1PH	100,000	DJ 400A	QO (B) VH QO (B) GFI QO (B) AFI	15-70 A 15-30 A 15-20 A	15-125 A 40-60 A —	— — —	
			QO (B) AFI, QO (B) CAFI	15-20 A	—	—	
QO (B) VH QO (B) EPD	— 15-30 A		150 A 15-60 A	15-150 A 15-30 A			
QO (B) AS QO (B) GFI QO (B) VH QO (B) PL QO (B) AFI	15-70 A 15-30 A — 15-30 A 15-20 A		15-125 A 15-60 A 150 A 15-60 A —	15-30 A 15-30 A 35-150 A 15-30 A —			
208Y/120	30,000	DJ-W 150A MC△	QO (B) QO (B) GFI	15-70 A 15-30 A	15-70 A 15-60 A	— —	
			QO (B) AFI, QO (B) CAFI	15-20 A	—	—	
QO (B) EPD QO (B) VH	15-30 A —		15-60 A —	— 15-70 A			
208Y/120	30,000	DJ-W 250A MC△	QO (B) QO (B) GFI	15-70 A 15-30 A	15-100 A 15-60 A	— —	
			QO (B) AFI, QO (B) CAFI	15-20 A	—	—	
QO (B) EPD QO (B) VH	15-30 A —		15-60 A —	— 15-100 A			
208Y/120	30,000	DJ-W 400A & 600A MC△	QO (B) QO (B) GFI	15-70 A 15-30 A	15-100 A 15-60 A	— —	
			QO (B) AFI, QO (B) CAFI	15-20 A	—	—	
QO (B) EPD QO (B) VH	15-30 A —		15-60 A —	— 15-100 A			
208Y/120	18,000	LA/LH (L) 34200MC	QO (B)	15-30A	15-30 A	15-30 A	
		LA/LH (L) 34225MC					
		LA/LH (L) 34250MC					
		LA/LH (L) 34400MC					
240	22,000	QO (B) VH	QO (B) QO (B) AS QO (B) GFI QO (B) PL QO (B) AFI	15-70 A 15-30 A 15-30 A 15-30 A 15-20 A	15-125 A 15-30 A 15-60 A 15-30 A —	15-100 A 15-30 A — — —	
			Q2-H	QO (B) QO (B) GFI QO (B) AFI	15-70 A 15-30 A 15-20 A	15-100 A 15-30 A —	15-30 A — —
	25,000	QD	QO (B) QO (B) AS QO (B) GFI QO (B) VH QO (B) PL QO (B) AFI	15-70 A 15-30 A 15-30 A — 15-30 A 15-20 A	15-125 A 15-30 A 15-60 A 150 A 15-60 A —	15-30 A 15-30 A — 35-150 A 15-30 A —	
			ED, FD	QO (B) QO (B) GFI QO (B) AFI	15-70 A 15-30 A 15-20 A	15-125 A 15-60 A —	15-100 A — —
		KD	QO (B) QO (B) AS QO (B) GFI QO (B) AFI	15-70 A 15-30 A 15-30 A 15-20 A	15-125 A 15-30 A 15-60 A —	15-100 A 15-30 A — —	
			HD, JD	QO (B) QO (B) VH QO (B) GFI QO (B) AFI QO (B) H QOB2150VH	15-70 A — 15-30 A 15-20 A — —	15-125 A 15-60 A — — 15-100 A 150 A	15-100 A 35-150 A — — — —
	42,000	LA, MA	Q2L-H QDL	—	—	100-225 A 70-225 A	100-225 A 70-225 A
			LC400A	QO (B) QO (B) VH QOBVH QO (B) GFI QO (B) AFI	15-70 A 15-30 A — 15-30 A 15-20 A	— 15-125 A 150 A 15-60 A —	15-100 A — — — —
		LC600A	QO (B) VH QOBVH QO (B) GFI QO (B) AFI	15-30 A — — 15-20 A	— — 15-60 A —	— — — —	
			MG	QO (B) VH	15-30 A	15-30 A	15-30 A

Table 9.1: NQ Series Connected Circuit Breaker Ratings (RMS Symmetrical) (continued)

Max. System Voltage AC ▲■	Max. Short Circuit Current Rating	Square D Brand Integral or Remote Main Circuit Breakers and Remote Main Fuses	Square D Brand Branch Circuit Breaker Catalog Designation and Allowable Ampere Ranges ◆★▼			
			Type	1 Pole	2 Pole	3 Pole
240	65,000	LC400A	QO (B) QO (B) VH QOBVH QO (B) GFI QO (B) AFI	15-30 A 15-30 A — 15-30 A 15-20 A	— 15-125 A 150 A — —	— 15-100 A — — —
			LC600A	QO (B) VH QOBVH QO (B) GFI QO (B) AFI	15-30 A — — 15-20 A	15-125 A 150 A — —
		DJ 400A	QO (B) QO (B) VH QO (B) H	15-70 A — —	15-125 A 150 A 15-100 A	15-150 A — —
		DJ, DG, DL 150 to 600A	QO (B) EPD QO (B) EPE	— —	— —	15-30 A 15-30 A
		EG, FG, KG	QO (B) QO (B) GFI QO (B) AFI	15-70 A 15-30 A 15-20 A	15-125 A 15-60 A —	15-100 A — —
		65,000	QG	QO (B) QO (B) AS QO (B) VH	15-70 A 15-30 A —	15-125 A 15-30 A 150 A
	QG, HG, JG		QO (B) GFI QO (B) PL QO (B) AFI	15-30 A 15-30 A 15-20 A	15-60 A 15-60 A —	15-30 A — —
	HG, JG		QO (B) QO (B) VH QO (B) H QOB2150VH	15-70 A — — —	15-125 A 150 A 150 A —	15-100 A 35-150 A — —
	FC or KC_22_		QO (B)	15-70 A	15-100 A	15-100 A
	100,000	65,000	FC or KC_32_	QO (B) AS	15-30 A	15-30 A
FC or KC_24_			QO (B) GFI	15-30 A	15-30 A	—
100,000		FC or KC_34_	QO (B) AFI	15-20 A	—	—
		DJ 400A	QO (B) H	—	15-100 A	—
		EJ, FJ	QO (B) QO (B) GFI QO (B) AFI	15-70 A 15-30 A 15-20 A	15-125 A 15-60 A —	15-100 A — —
		HJ, JJ	QO (B) QO (B) VH QO (B) GFI	15-70 A — 15-30 A	15-125 A 15-60 A —	15-100 A 35-150 A —
125,000	HL, JL	QO (B) QO (B) PL QO (B) AFI QO (B) H QOB 2150VH	15-30 A 15-30 A 15-20 A — —	15-60 A — 15-100 A 150 A —	15-30 A — — — —	
200,000	FI, KI	QO (B) QO (B) AS QO (B) GFI QO (B) AFI	15-70 A 15-30 A 15-30 A 15-20 A	15-125 A 15-30 A 15-60 A —	15-100 A 15-30 A — —	
65,000	400 A Max. Class J or T6 Fuses	QO (B) VH QOB-VH QO (B) AFI	15-30 A — 15-20 A	15-125 A 150 A —	15-100 A — —	
100,000	200 A Max. Class T3 Fuses	QO (B) AFI	15-20 A	—	—	
200,000	200 A Max. Class J or T6 Fuses and 400 A Max. Class T3 Fuses	QO (B) QO (B) AS QO (B) GFI	15-70 A 15-30 A 15-30 A	15-125 A 15-30 A 15-60 A	15-100 A 15-30 A —	

- ▲ For shown circuit breakers rated less than this maximum voltage, the indicated short circuit current rating also applies, but at the voltage rating of the circuit breaker.
- Short circuit tests are conducted at 100-105% of the maximum rated voltage of the panelboard.
- ◆ Suffixes HID, SWD, and SWN may also be applied to the applicable branch circuit breakers shown above. Suffix SWN may not be applied in combination with LC main breakers.
- ★ Where QO (B) circuit breakers are shown above, QO (B) H, QO (B) VH, and QH (B) circuit breakers may also be used.
- ▼ Where QO (B) GFI circuit breakers are shown above, QO (B) EPD circuit breakers may also be used.
- △ To achieve selective coordination, the rating of the DJ main circuit breaker must be at least two times greater than the ampere rating of any branch circuit breaker.

This page contains UL Tested and Certified series combination ratings for panelboards. These ratings apply to either an integral main located in the same enclosure or a remote main located in a separate enclosure

Table 9.2: NF Series Connected Circuit Breaker Ratings (RMS Symmetrical)

Maximum System Voltage, AC ▲	Max. Short Circuit Current Rating	Square D Brand Integral or Remote Main Circuit Breakers and Remote Main Fuses	Square D Brand Branch Circuit Breaker Catalog Designation and Allowable Ampere Ranges
120 120/240 240	65,000	EG, FH, FG, KH, LH, MH, MX, HG, JG, DG	EDB, EDB-EPD
		EG	ECB-G3
	100,000	EJ, FC, FJ, KC, LC, LX, HJ, JJ	EDB, EDB-EPD, EGB
		EJ, FC, KC, HJ, JJ	ECB-G3
	125,000	DJ	EDG, EGB
		HL, JL	EDB, EDB-EPD, EGB, ECB-G3
200,000	FI, KI, LI, LXI	EDB, EDB-EPD, EGB, EJB	
	Class J or T (600 V) 200 A Max Fuses	ECB-G3	
277 480Y/277	35,000	EG, FG, KH, LH, HG, JG, DG	EDB, EDB-EPD
		EG, HG, JG	ECB-G3
	65,000	EJ, FC, FJ, KC, LC, LX, HJ, JJ, DJ	EDB, EDB-EPD, EGB
		EJ, FC, KC, HJ, JJ	ECB-G3
	100,000	HL, JL	EDB, EDB-EPD, EGB, EJB
		400 A Max Fuses	EDB, EDB-EPD, EGB, EJB
200,000	FI, KI, LI, LXI	EDB, EDB-EPD, EGB, EJB	
	200 A Max Fuses	ECB-G3	
600Y/347	18,000	HG, JG, MG	EDB
		EJ, FI, KH, KI, LC, LE, LX, LI, LXI, HJ, JJ	EDB, EGB
	25,000	LH	(15-70 A), EDB, EGB
		LC, LE, LX	EDB, EGB, EJB
	50,000	HL, JL	EDB, EGB, EJB
		FI, KI	EDB, EGB, EJB
65,000	LI, LXI	EJB	
	Class J or T (600 V) 200 A max Fuses	EDB, EGB, EJB	

▲ Short circuit tests are conducted at 100-105% of the maximum rated voltage of the panelboard.

Table 9.3: I-Line Series Connected Circuit Breaker Ratings (RMS Symmetrical)

Maximum System Voltage, AC ▲	Max. Short Circuit Current Rating (RMS Symm.)	Integral or Remote 2- or 3-pole Main Circuit Breaker	Square D Branch Circuit Breakers	
			Designation	Poles
120	42k	MG	FY	1
		QG, LH	FA, FD▲	
		FJ▲, QJ	FD▲	
208Y/120	100k	QJ, LC	FA	2, 3
		QJ	FA, FD▲	
240	35k	QJ, PH, PJ, RJ	QD, QG	1, 2, 3
		MG	FA	
		KA	FD▲	
240	42k	LA, MA	HD, JD, QD	2, 3
		MG	FA	
		MG	FA (25 A Max.)	
240	65k	HG, JG	FA, HD	2, 3
		JG	JD, QD	
		QG	FA, FD▲, QD	1, 2, 3
		LH, MH, PA, PG, RG	HD, JD, QD	
		FG▲, FH, MH, MX, PJ	FD▲	1, 2, 3
		FC, KC, KH, LC, LH	FD▲, FG▲	
		LH	FA	2, 3
		LH	LA	
		MG	HD, JD, KA	2, 3
		DG	FH, HD, JD, KA, LA, MA	
240	85k	RL	FH, KH	2, 3
		FC, KC, LC, LX	FD▲, FG▲, FJ	
		PH, PJ, RJ	QD, QG	2, 3
		QJ	FD▲	
		FJ▲	FD▲	2
		FC, KC	FA, FH, FD▲, FG▲, FJ▲	
		LC, LX	FH, FD▲, FG▲, FJ▲	2, 3
		KC, LC, LX	KA	
		KC, LC	KH	1, 2, 3
		LC	LA, LH, MG	
		LC	FA	1, 2, 3
		HJ, JJ	FA, FH, HD, HG	
JJ	JD, JG	2, 3		
LC, LX, MJ, PJ, RJ	HD, HG, JD, JG			
240	100k	MJ	LA, LH	2, 3
		DJ	FH, HD, HG, JD, JG, KA, LA, MA, MG	
		RL	RG	2, 3
		HL, JL	HD, HG, HJ, FA, FH	
		JL	JD, JG, JJ	2, 3
		PC, PH, PL, RL	HD, HG, JD, JG	
		PC, PL, RL	HH, JJ	2, 3

Table 9.3: I-Line Series Connected Circuit Breaker Ratings (RMS Symmetrical) (continued)

Maximum System Voltage, AC ▲	Max. Short Circuit Current Rating (RMS Symm.)	Integral or Remote 2- or 3-pole Main Circuit Breaker	Square D Branch Circuit Breakers	
			Designation	Poles
240	200k	FI, KI, LI, LXI	HD, HG, HJ	2, 3
		KI, LI, LXI	JD, JG, JJ	
		FI, KI, LI, LXI	FD▲, FG▲, FJ	1
		FI, KI	FA, FH, FC, FD▲, FG▲, FJ▲	
		LI, LXI	FH, FD▲, FG▲, FJ▲	
		LI	FC	
277	25k	LI, LXI	KA, QD, QG, QJ	2, 3
		LI	KC	
	35k	FH, KA	FD▲	1
		FG▲, KH, LH	FD▲	
	65k	DG	FH, FY	1
		FJ▲	FD▲	
		FC, KC	FA, FH, FY, FD▲, FG▲	
		LC, LX (400 A Max.)	FH	
	100k	LC, LX (600 A Max.)	FY, FD▲, FG▲	1
		DJ	FH, FY	
	200k	DL	FH, FJ	1
		FI, KI	FA, FH, FY, FD▲, FG▲, FJ	
480	22k	LI, LXI (400 A Max.)	FH	1
		LI, LXI (600 A Max.)	FY, FD▲, FG▲, FJ	
	30k	MG	FA	2, 3
		KH, LA, MA, MX, PA, PC,	FH	
		LA, MA, PA, PC, PX	KA	
		LA, MA, PA	HD, JD	
		MG	FA (25 A Max.),	
		MH, MX, PA	HD, JD	
	35k	HG, JG	FA, HD	2, 3
		JG	JD	
		LH, MG, PG, RG	HD, JD	
		LH	HG, JG	
DG		FH, HD, JD, KA, LA, MA		
MJ		FH (25 A Max.)		
480	42k	RL	RG	2, 3
		MJ	KA, KH	
	50k	MJ	KA, FH	2, 3
		FC, KC	FA, FH	
	65k	HJ, JJ	FA, FH, HD, HG	2, 3
		JJ	JD, JG	
LC, LI, LX, LXI		HD, HG, JD, JG		
LC, LX (400 A Max.)		FH		
KC, LC, LX		KA		
LC, LX		LA		
480	100k	DJ	FH, HD, HG, JD, JG, KA, LA, MA	2, 3
		HL, JL	FA, FH, HD, HG, HJ	
		JL	JD, JG, JJ	
		LI, LXI (600 A Max.)	KA	
	200k	DL	FH, HD, HG, HJ, JD, JG, JJ, KA, LA, MA	2, 3
		PC, PH, PL, RL	HJ, JJ	
		RL	RG	
		FI, KI	FA, FH, FC, HD, HG, HJ	
		KI	JD, JG, JJ, KA	
		LI	FC, KA, KC, LA, HJ, HL, JJ, JL	
480Y/277	25k	LXI	KA, HJ, HL, JJ, JL	2, 3
		FH, KA	FD▲	
	35k	FG▲, KH, LH	FD▲	2, 3
		FJ▲	FD▲	
	65k	FC, KC	FD▲, FG▲	2, 3
		LC, LX (600 A Max.)	FD▲, FG▲	
200k	LI, LXI (600 A Max.)	FD▲, FG▲, FJ▲	2, 3	
	LI, LXI (600 A Max.)	FD▲, FG▲, FJ▲		
600	18k	HG, JG	FA, HD	2, 3
		JG	JD	
	25k	MG, PG, RG	HD, JD	2, 3
		MG	FA	
	35k	HJ, JJ	FA, HD, HG	2, 3
		JJ	JD	
600	50k	PJ, RJ	MG	2, 3
		LC	FH, HD, HG, HJ	
	100k	HL, JL	FA, HD, HG, HJ	2, 3
		JL	JD, JG, JJ	
	18k	PK	HJ, JJ, MJ	2, 3
		FI, KI	HD, HG, HJ	
25k	KI	JD, JG, JJ	2, 3	
	KI, LI	FH		
50k	LI	LA	1	
	MG	FA (25 A max.)		
600Y/347	25k	MJ	FA (30 A max.)	1
		HL, JL	FJ	

▲ Obsolete. Contact the Square D/Schneider Electric local Field Sales Office for the replacement circuit breaker.

PANELBOARDS

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Table 9.4: Fuse/I-Line Circuit Breaker Series Connected Ratings

Maximum System Voltage AC	Max. Short Circuit Current Rating (RMS Symm.)	Remote Main Fuse		Square D Branch Circuit Breakers
		Maximum Amperage	Fuse Class	Designation ▲
120/240 1Ø 208Y/120	100,000	1200 A	L, T (300 V)	QD, QG
		800 A	T (600 V)	QD, QG
		600 A	J, RK5	QD, QG
240	65,000	1200 A	L, T (300 V)	QD
		800 A	T (600 V)	QD
		600 A	J, RK5	QD
240	100,000	1200 A	L, T (300 V)	QD, QG (2 Pole)
		800 A	T (600 V)	QD, QG (2 Pole)
		600 A	J, RK5	QD, QG (2 Pole)
			L, T (600 V)	FA, FH, KA, KH, KC, LA, LH, MA, MH, MX, PG
			RK5	FH, KA, KH, LA, LH, MA, MH, MX, PG, HD, HG, HJ, HL, JD, JG, JJ, JL
		800 A	J	HD, HG, HJ, HL, JD, JG, JJ, JL
			T (600 V)	FH, KA, KH, LA, LH, MA, MH, MX, PG
			T (300 V)	PG
		1200 A	L	FH, KA, KH, LA, LH, MA, MH, MX, PG
			L	FH, KH, LA, LH, MA, MH, MX, PG
			T (600 V)	HD, HG, HJ, HL, JD, JG, JJ, JL
		1600/2000 A	L	KH, MA, MH, MX, PG
		4000 A	L	HD, HG, HJ, HL, JD, JG, JJ, JL
		240	200,000	600 A
RK5	FH, FC, HD, HG, HJ, HL, JD, JG, JJ, JL KH, KC, LA, LH, LC, MA, MH, MX, NC, NX, PG, PJ, PL			
J	HD, HG, HJ, HL, JD, JG, JJ, JL			
800 A	T (600V)			FH, FC, KA, KH, KC, LA, LH, LC, MA, MH, MX, NA, NC, NX, PG, PJ, PL
	T (300V)			PG, PJ, PL
1200 A	L			FH,FC, KH, KC, LA, LH, LC, MA, MH, MX, NA, NC, NX, PG, PJ, PL
	L			FC, KH, KC, LC, MA, MH, MX, NA, NC, NX, PG, PJ, PL
1600/2000 A	L			HD, HG, HJ, HL, JD, JG, JJ, JL
4000 A	L			NA, NC, NX, PJ, PL
480	100,000			400 A
		J, RK5	HJ, HL, JJ, JL	
		600 A	J, T(600V)	FC, KA, KH, KC, LA, LH, LC, MA, MH, MX, NA, PG, PJ
			RK5	FC, KA, KH, KC, LA, LH, LC, MA, MH, MX, NA, PG, PJ
		800 A	L, T (600V)	FC, KA, KH, KC, LA, LH, LC, MA, MH, MX, NA, PG, PJ
			L	FC, KH, KC, LA, LH, LC, MA, MH, MX, NA, PG, PJ
		1200 A	T (600V)	HJ, HL, JJ, JL
			L	KC, LC, MA, MH, MX, NA, PG, PJ
		2000 A	L	KC, LC, MH,MG, MJ, MX, NA, PG, PJ
		4000 A	L	HJ, HL, JJ, JL
480	200,000	200 A	RK5	HJ, HL
			J	FA, FH, FC, HJ, HL, JJ, JL, KA, KH, KC, LA, LH, LC, MA, MH, MX, NA, NC, NX, PG, PJ, PL
		400 A	T(600V)	FA, FH, FC, HJ, HL, JJ, JL, KA, KH, KC, LA, LH, MA, MH, MX, NA, NC, NX
			J	FC, KA, KH, KC, LA, LH, LC, MA, MH, MX, MG, MJ, NA, NC, NX, PG, PJ, PL
		600 A	T(600V)	KA, KH, KC, LA, LH, MA, MH, MX, NA, NC, NX
			RK5	KC, LA, LH, LC, MA, MH, MX, MG, MJ, NC, NX, PG, PJ,
		800 A	T(300V)	PG, PJ, PL
			T(600V)	KA, KH, KC, LA, LH, MA, MH, MX, MG, MJ, NA, NC, NX, PG, PJ, PL
1200 A	L	KC, LA, LH, LC, MA, MH, MX, NA, NC, NX, PG, PJ, PL		
1600/2000 A	L	KC, LC, MA, MH, MX, MG, MJ, NA, NC, NX, PG, PJ, PL		
600	100,000	30 A	CC	HG, JG (Molded Case Switches)
		200 A	J	HD, HG, HJ, HL, JD, JG, JJ, JL
		400 A	J, T (600V)	HJ, HL, JJ, JL
		600 A	R	MG, MJ
		1200 A	L	MG, MJ
600	200,000	600 A	J	MG, MJ
		800 A	T (600V)	MG, MJ

▲ Series rating valid for 2-pole or 3-pole circuit breakers.

Note:

- The fuse used in this UL test is an envelope (umbrella) fuse. This fuse is designed as a "worst case" fuse. Thus, no matter what manufacturer's fuse is used, the Square D circuit breaker is protected.
- The line side fused switch may be in a separate enclosure, or in the same enclosure as the loadside circuit breaker. A line side fused switch may be a submain, integral main, or remote main. A load side circuit breaker may be a branch, submain, or an integral main used on the load side of a remote main. This series combination short circuit current rating shall not exceed that of the line side fused switch. The charts apply to Square D Company load side circuit breakers only. However, the line side fuse ratings are independent of the fuse manufacturer.
- Not applicable to Corner Grounded Systems.
- Limiters used in Square D DSL and DSL II fused power circuit breakers are not class L fuses and do not have series ratings.

NQ and NF Merchandised Pricing Procedure

1. List circuit breakers required, either plug-on or bolt-on. See appropriate pages for catalog numbers.
2. Determine equivalent number of pole spaces required.
3. Select proper main lug interior (from page 9-6) or main lug interior and main circuit breaker adapter kit (from page 9-7) based on equivalent number of poles and ampere rating. Interiors include solid neutral and are field convertible to top-feed.
4. Select enclosure from appropriate page.
Type 1—Select box and front catalog number corresponding to interior catalog number.
Type 3R, 5, 12—Select enclosure. Interior trim kit for Type 3R, 5, 12 is included with the enclosure.
5. For complete price, add the component prices. Include panelboard accessories.
6. Apply appropriate discount schedule.

NQ Merchandised Example

Table 9.5: 208Y/120 Vac, 3Ø4W, 10 kA SCCR, 225 A, MLO, Type-1 surface mount, bolt-on branch circuit breakers, main sub-feed lugs

Branches	Page No.	Catalog Number	Spaces	\$ Price
(20) 20/1	9-10	(20) QOB120	20	795.
two 40/2	9-10	two QOB240	4	177.
two 30/3	9-10	two QOB330	6	585.
			Total 30	
<hr/>				
225 A MLO Interior	9-6	NQ430L2	—	1215.
Box	9-6	MH32	—	113.
Cover	9-6	NC32S	—	527.
Sub-feed Lugs	9-6	NQSFL2	—	203.
			Total Price :	3615.

NF Merchandised Example

Table 9.6: 480Y/277 Vac, 3Ø4W, 25 kA SCCR, fully rated, copper bus, 100 A, main circuit breaker, Type 1 flush mount, bolt-on branch circuit breakers

Branches	Page No.	Catalog No.	Spaces	\$ Price
(13) 20/1	9-15	EGB14020	13	3315.
one 40/2	9-15	EGB24040	2	776.
one 50/3	9-15	EGB34050	3	1131.
			Total 18	
<hr/>				
Main circuit breaker adapter kit (less circuit breaker)	9-13	N150MH	—	780.
Main circuit breaker	7-28	HGL36100	—	1701.
125 A MLO Cu Bus Int.	9-13	NF418L1C	—	1838.
Box	9-13	MH38	—	113.
Cover	9-13	NC38F	—	549.
			Total Price:	10203.

NQ and NF Factory Assembled Pricing Procedure

The following Factory Assembled pricing procedure may be used to price NQ and NF panelboards.

1. Select BASE PRICE for main lugs or main circuit breaker from BASE PRICE TABLE. Include equipment ground bar when required.
2. List BRANCH CIRCUIT BREAKERS (either plug-on or bolt-on) and determine total spaces required. Select price from BRANCH CIRCUIT BREAKERS TABLE. Include space only charge for future requirements.
3. If total spaces required exceeds the maximum listed, price as two or more panelboards and add price for sub-feed or feed-through lugs, so installer can cable between sections.
4. Add price for special features from appropriate page. Contact field office for additional special features.
5. For complete price, add all prices. Order by description.

NOTE: Additional special price adders can be found in the Supplemental and Obsolescence Digest, Section 4.

6. Apply appropriate discount schedule.

NQ Factory Assembled Example

Table 9.7: 208Y/120 Vac, 3Ø4W, 10 kA SCCR, 225 A, MLO, Type-1 surface mount, bolt-on branch circuit breakers, main sub-feed lugs

Item	Page No.	\$ Price
225 A MLO Base Price	9-11	928.
(20) 20/1 Bolt-on	9-11	1360.
two 40/2 Bolt-on	9-11	268.
two 30/3 Bolt-on	9-11	704.
Sub-feed Lugs	9-12	128.
Total Price:		3388.

NF Factory Assembled Example

Table 9.8: 480Y/277 Vac, 3Ø4W, 25 kA SCCR, fully rated, copper bus, 250 A, main circuit breaker, Type 1 flush mount, bolt-on branch circuit breakers

Item	Page No.	\$ Price
250 A Main Circuit Breaker Base Price	9-18	6180.
Copper bus adder	9-19	458.
(13) 20/1	9-18	4212.
one 40/2	9-18	746.
one 50/3	9-18	1264.
Total Price:		12860.

Table 9.9: Main Lug Interiors—Accepts plug-on and bolt-on circuit breakers

Pole Spaces	Mains Rating	Total Price Interior Front and Enclosure		Interior Only (Order Branch Circuit Breakers Separately)		Type 1 Enclosure						Type 3R, 5, 12 Enclosure Δ		Height (In.)		
						Box 20 in. W x 5.75 in. D ■		Mono-Flat® Front ♦		Hinged Front		Enclosure 20 in. W x 6.5 in. D				
						Type 1	Type 3R, 5, 12	Catalog No. ▲	\$Price	Catalog No.	\$ Price	Catalog No.	\$ Price		Catalog No.	\$ Price
20 in. Wide Cabinet □—Single Phase 3-Wire																
18	100	1395.	2977.	NQ18L1	785.	MH26	113.	NC26 ()	497.	NC26()HR	620.	MH26WP	2192.	26		
		1474.	3056.	NQ18L1C	864.											
30		1585.	3149.	NQ30L1	945.			MH32	NC32 ()	527.	NC32()HR	657.	MH32WP	2204.	32	
		1675.	3239.	NQ30L1C	1035.											
30	225	1744.	3308.	NQ30L2	1104.	MH32	113.	NC32 ()	527.	NC32()HR	657.	MH32WP	2204.	32		
		1819.	3383.	NQ30L2C	1179.											
42		2002.	3556.	NQ42L2	1340.	MH38		NC38 ()	549.	NC38()HR	687.	MH38WP	2216.	38		
		2080.	3634.	NQ42L2C	1418.											
72★		3073.	4900.	NQ72L2	2297.	MH44		NC44 ()	663.	NC44()HR	830.	MH44WP	2603.	44		
		3206.	5033.	NQ72L2C	2430.											
84★	3521.	5288.	NQ84L2	2679.	MH50	NC50 ()	729.	NC50()HR	912.	MH50WP	2609.	50				
	3677.	5444.	NQ84L2C	2835.												
30	400	2462.	4229.	NQ30L4	1620.	MH50	113.	NC50V ()	729.	NC50V()HR	912.	MH50WP	2609.	50		
		2579.	4346.	NQ30L4C	1737.											
42		2620.	4387.	NQ42L4	1778.				NC68V ()	948.	NC68V()HR	1185.	MH68WP	2742.	68	
		2738.	4505.	NQ42L4C	1896.											
84★	4853.	6534.	NQ84L4C	3792.	MH68											
30	600	2705.	4548.	NQ30L6C	1863.	MH50	113.	NC50V ()	729.	NC50V()HR	912.	MH62WP▼	2685.	50/62		
		2861.	4704.	NQ42L6C	2019.											
42		2861.	4704.	NQ42L6C	2019.				NC68V ()	948.	NC68V()HR	1185.	MH80WP▼	2835.	68/80	
		5099.	6873.	NQ84L6C	4038.			MH68								
84★																
20 in. Wide Cabinet □ —Three Phase 4-Wire																
18	100	1486.	3068.	NQ418L1	876.	MH26	113.	NC26 ()	497.	NC26()HR	620.	MH26WP	2192.	26		
		1561.	3143.	NQ418L1C	951.											
30		1752.	3316.	NQ430L1	1112.			MH32	NC32 ()	527.	NC32()HR	657.	MH32WP	2204.	32	
		1831.	3395.	NQ430L1C	1191.											
30	225	1855.	3419.	NQ430L2	1215.	MH32	113.	NC32 ()	527.	NC32()HR	657.	MH32WP	2204.	32		
		1932.	3496.	NQ430L2C	1292.											
42		2138.	3692.	NQ442L2	1476.	MH38		NC38 ()	549.	NC38()HR	687.	MH38WP	2216.	38		
		2213.	3767.	NQ442L2C	1551.											
54		2559.	4113.	NQ454L2	1898.	MH44		NC44 ()	663.	NC44()HR	830.	MH44WP	2603.	44		
		2655.	4209.	NQ454L2C	1994.											
72★	3307.	5134.	NQ472L2	2531.	MH50	NC50 ()	729.	NC50()HR	912.	MH50WP	2609.	50				
	3436.	5263.	NQ472L2C	2660.												
84★	3794.	5561.	NQ484L2	2952.	MH50	NC50V ()	729.	NC50V()HR	912.	MH50WP	2609.	50				
	3944.	5711.	NQ484L2C	3102.												
30	400	2704.	4471.	NQ430L4	1862.	MH50	113.	NC50V ()	729.	NC50V()HR	912.	MH50WP	2609.	50		
		2822.	4589.	NQ430L4C	1980.											
42		2854.	4621.	NQ442L4	2012.				NC62V ()	887.	NC62V()HR	1109.	MH62WP	2685.	62	
		2975.	4742.	NQ442L4C	2133.											
72★	4449.	6134.	NQ472L4	3449.	MH62	NC68V ()	948.	NC68V()HR	1185.	MH68WP	2742.	68				
	4657.	6342.	NQ472L4C	3657.												
84★	5327.	7008.	NQ484L4C	4266.	MH68											
30	600	2983.	4826.	NQ430L6C	2141.	MH50	113.	NC50V ()	729.	NC50V()HR	912.	MH62WP▼	2685.	50/62		
		3116.	4959.	NQ442L6C	2274.											
42		3116.	4959.	NQ442L6C	2274.				NC68V ()	948.	NC68V()HR	1185.	MH80WP▼	2835.	68/80	
		5609.	7383.	NQ484L6C	4548.			MH68								
84★																

▲ "C" suffix indicates copper bussing.
 ■ Embossed mounting holes add a .25 inch standoff to back of MH box.
 ♦ Add "F" for flush, "S" for surface.
 ★ Use only if the Local Jurisdiction where this panelboard interior is being applied has adopted the 2008 NEC, which allows single panelboard interiors greater than 42 circuits.
 ▼ When NEMA 3R, 5, or 12 enclosures are selected, an NQ12RDE kit should also be selected. See Table 9.17.
 Δ Enclosure includes trim kit.
 □ For 14 in. wide offer, see the Supplemental & Obsolescence Digest.

Table 9.10: Main Circuit Breaker Interiors—Will accept plug-on and bolt-on circuit breakers

Pole Spaces	Mains Rating	Total \$ Price Interior, Front, Box and Adapter Kit Δ		Interior Only (Order Branch Circuit Breakers Separately)		Main Circuit Breaker Adapter Kit (Less Circuit Breaker) Δ			Type 1 Enclosure						Type 3R, 5, 12 Enclosure ∇		
		Type 1	Type 3R, 5, 12	Catalog No. \blacktriangle	\$ Price	Catalog No.	\$ Price	Circuit Breaker Frame Size \square	Box 20 in. W x 5.75 in. D \blacksquare		Mono-Flat [®] Front		Hinged Front		Enclosure 20 in. W x 6.5in. D		Height (In.)
									Catalog No.	\$ Price	Catalog No. \blacklozenge	\$ Price	Catalog No.	\$ Price	Catalog No.	\$ Price	
20 in. Wide Cabinet \diamond —Single Phase 3-Wire																	
16 \ominus	100 back-fed	1395.	2977.	NQ18L1	785.	—	—	Select QOB 2-pole or QOB-VH \star	MH26	113.	NC26 ()	497.	NC26()HR	620.	MH26WP	2192.	26
		1474.	3056.	NQ18L1C	864.	—	—		MH32	113.	NC32 ()	527.	NC32()HR	657.	MH32WP	2204.	32
		1585.	3149.	NQ30L1	945.	—	—		MH38	113.	NC38 ()	549.	NC38()HR	687.	MH38WP	2216.	38
28 \ominus	100	1675.	3239.	NQ30L1C	1035.	—	—	HD, HG, HJ, HL* 100A maximum	MH44	113.	NC44 ()	663.	NC44()HR	830.	MH44WP	2603.	44
		2227.	3781.	NQ18L1	785.	NQMB2HJ	780.		MH44	113.	NC44 ()	663.	NC44()HR	830.	MH44WP	2603.	44
30	100	2501.	4328.	NQ30L1	945.	—	—	HD, HG, HJ, HL* 100A maximum	MH44	113.	NC44 ()	663.	NC44()HR	830.	MH44WP	2603.	44
		2591.	4418.	NQ30L1C	1035.	NQMB2HJ	780.		MH44	113.	NC44 ()	663.	NC44()HR	830.	MH44WP	2603.	44
30	225	2660.	4487.	NQ30L2	1104.	—	—	HD, HG, HJ, HL* or JD, JG, JJ, JL	MH44	113.	NC44 ()	663.	NC44()HR	830.	MH44WP	2603.	44
		2735.	4562.	NQ30L2C	1179.	NQMB2HJ	780.		MH50	113.	NC50 ()	729.	NC50()HR	912.	MH50WP	2609.	50
42	225	2962.	4729.	NQ42L2	1340.	—	—	QB, QD, QG, QJ KI	MH50	113.	NC50 ()	729.	NC50()HR	912.	MH50WP	2609.	50
		3040.	4807.	NQ42L2C	1418.	NQMB2Q	780.		MH56	113.	NC56 ()	786.	NC56()HR	983.	MH56WP	2652.	56
72 \star	225	3976.	5729.	NQ72L2	2297.	—	—	KI	MH56	113.	NC56 ()	786.	NC56()HR	983.	MH56WP	2652.	56
		4109.	5862.	NQ72L2C	2430.	NQMB2KI	780.		MH62	113.	NC62 ()	887.	NC62()HR	1109.	MH62WP	2685.	62
84 \star	225	4459.	6144.	NQ84L2	2679.	—	—	LA/LH \diamond	MH62	113.	NC62 ()	887.	NC62()HR	1109.	MH62WP	2685.	62
		4615.	6300.	NQ84L2C	2835.	NQMB4LA	780.		MH62	113.	NC62V ()	887.	NC62V()HR	1109.	MH62WP	2685.	62
30	400	3400.	5085.	NQ30L4	1620.	—	—	LA/LH \diamond	MH62	113.	NC62V ()	887.	NC62V()HR	1109.	MH62WP	2685.	62
		3517.	5202.	NQ30L4C	1737.	NQMB4LA	780.		MH80	113.	NC80V ()	1001.	NC80V()HR	1245.	MH80WP	2835.	80
42	400	3558.	5243.	NQ42L4	1778.	—	—	LA/LH \diamond	MH62	113.	NC62V ()	887.	NC62V()HR	1109.	MH62WP	2685.	62
		3676.	5361.	NQ42L4C	1896.	NQMB4LA	780.		MH80	113.	NC80V ()	1001.	NC80V()HR	1245.	MH80WP	2835.	80
84 \star	400	5686.	7407.	NQ84L4C	3792.	NQMB4LA	780.	LA/LH \diamond	MH80	113.	NC80V ()	1001.	NC80V()HR	1245.	MH80WP	2835.	80
20 in. Wide Cabinet \diamond —Three Phase 4-Wire																	
15 \ominus	100 back-fed	1395.	2977.	NQ418L1	785.	—	—	Select QOB 3-pole or QOB-VH ∇	MH26	113.	NC26 ()	497.	NC26()HR	620.	MH26WP	2192.	26
		1474.	3056.	NQ418L1C	864.	—	—		MH32	113.	NC32 ()	527.	NC32()HR	657.	MH32WP	2204.	32
		1585.	3149.	NQ430L1	945.	—	—		MH38	113.	NC38 ()	549.	NC38()HR	687.	MH38WP	2216.	38
27 \ominus	100	1675.	3239.	NQ430L1C	1035.	—	—	HD, HG, HJ, HL 100A maximum	MH44	113.	NC44 ()	663.	NC44()HR	830.	MH44WP	2603.	44
		2318.	3872.	NQ418L1	876.	NQMB2HJ	780.		MH44	113.	NC44 ()	663.	NC44()HR	830.	MH44WP	2603.	44
30	100	2393.	3947.	NQ418L1C	951.	—	—	HD, HG, HJ, HL or JD, JG, JJ, JL	MH44	113.	NC44 ()	663.	NC44()HR	830.	MH44WP	2603.	44
		2668.	4495.	NQ430L1	1112.	NQMB2HJ	780.		MH50	113.	NC50 ()	729.	NC50()HR	912.	MH50WP	2609.	50
30	225	2771.	4598.	NQ430L2	1215.	—	—	QB, QD, QG, QJ KI	MH50	113.	NC50 ()	729.	NC50()HR	912.	MH50WP	2609.	50
		2848.	4675.	NQ430L2C	1292.	NQMB2Q	780.		MH56	113.	NC56 ()	786.	NC56()HR	983.	MH56WP	2652.	56
42	225	3098.	4865.	NQ442L2	1476.	—	—	KI	MH56	113.	NC56 ()	786.	NC56()HR	983.	MH56WP	2652.	56
		3173.	4940.	NQ442L2C	1551.	NQMB2KI	780.		MH62	113.	NC62 ()	887.	NC62()HR	1109.	MH62WP	2685.	62
54	225	3519.	5286.	NQ454L2	1898.	—	—	LA/LH \diamond	MH62	113.	NC62V ()	887.	NC62V()HR	1109.	MH62WP	2685.	62
		3615.	5382.	NQ454L2C	1994.	NQMB4LA	780.		MH74	113.	NC74V ()	972.	NC74V()HR	1215.	MH74WP	2757.	74
72 \star	225	4210.	5963.	NQ472L2	2531.	—	—	LA/LH \diamond	MH74	113.	NC74V ()	972.	NC74V()HR	1215.	MH74WP	2757.	74
		4339.	6092.	NQ472L2C	2660.	NQMB4LA	780.		MH80	113.	NC80V ()	1001.	NC80V()HR	1245.	MH80WP	2835.	80
84 \star	225	4732.	6417.	NQ484L2	2952.	—	—	LA/LH \diamond	MH80	113.	NC80V ()	1001.	NC80V()HR	1245.	MH80WP	2835.	80
		4882.	6567.	NQ484L2C	3102.	NQMB4LA	780.		MH80	113.	NC80V ()	1001.	NC80V()HR	1245.	MH80WP	2835.	80
30	400	3642.	5327.	NQ430L4	1862.	—	—	LA/LH \diamond	MH62	113.	NC62V ()	887.	NC62V()HR	1109.	MH62WP	2685.	62
		3760.	5445.	NQ430L4C	1980.	NQMB4LA	780.		MH74	113.	NC74V ()	972.	NC74V()HR	1215.	MH74WP	2757.	74
42	400	3792.	5477.	NQ442L4	2012.	—	—	LA/LH \diamond	MH74	113.	NC74V ()	972.	NC74V()HR	1215.	MH74WP	2757.	74
		3913.	5598.	NQ442L4C	2133.	NQMB4LA	780.		MH80	113.	NC80V ()	1001.	NC80V()HR	1245.	MH80WP	2835.	80
72 \star	400	5314.	6986.	NQ472L4	3449.	—	—	LA/LH \diamond	MH80	113.	NC80V ()	1001.	NC80V()HR	1245.	MH80WP	2835.	80
		5522.	7194.	NQ472L4C	3657.	NQMB4LA	780.		MH80	113.	NC80V ()	1001.	NC80V()HR	1245.	MH80WP	2835.	80
84 \star	400	6160.	7881.	NQ484L4C	4266.	NQMB4LA	780.	LA/LH \diamond	MH80	113.	NC80V ()	1001.	NC80V()HR	1245.	MH80WP	2835.	80

- \blacktriangle "C" suffix indicates copper bussing.
- \blacksquare Embossed mounting holes add a .25 inch standoff to back of MH box.
- \blacklozenge Add "F" for flush, "S" for surface.
- \star Use only if the Local Jurisdiction where this panelboard interior is being applied has adopted the 2008 NEC, which allows single panelboard interiors greater than 42 circuits.
- ∇ Enclosure includes trim kit.
- Δ Select the appropriate main circuit breaker from tables starting on page 7-22 and add the circuit breaker price to the total price of the panelboard.
- \square Circuit breaker interrupt ratings, see tables starting on page 7-22.
- \diamond For 14 in. wide offer, see the Supplemental & Obsolescence Digest.
- \star QOB2150VH takes four pole spaces; all other QOB two pole circuit breakers take two pole spaces.
- ∇ QOB3110VH to QOB3150VH take six pole spaces; all other QOB three pole circuit breakers take three pole spaces.
- \ominus Pole spaces shown are available for branch circuits, with spaces deducted for the back fed main breaker.
- \star For single phase applications, order a 3-pole breaker. Example: HDL36100.
- \diamond For 400A applications order short handle circuit breaker (LAL36400MB).

Table 9.11: Main Lug Interiors with TVSS

Mains Rating	Pole Spaces	Voltage	Surge Rating	Total Price Interior, Front, Box and Adapter Kit		Interior Only (Order Branch Circuit Breakers Separately)		Type 1 Enclosure						Type 3R/5/12 Enclosure ▼	
								Box 20 in. W x 5.75 in. D ■		Mono-Flat® Front		Hinged Fronts		20 in. W x 6.5 in. D	
				Type 1	Type 3R, 5, 12	Catalog Number ▲	\$ Price	Cat. No.	\$ Price	Cat. No. ♦	\$ Price	Cat. No.	\$ Price	Cat. No.	\$ Price
225 A	30	208Y/120 Vac	120,000 A	24026.	25793.	NQ430L2TVS212	23184.	MH50	113.	NC50()	729.	NC50()HR	912.	MH50WP	2609.
				24103.	25870.	NQ430L2TVS212C	23261.								
			160,000 A	28141.	29908.	NQ430L2TVS216	27299.								
				28218.	29984.	NQ430L2TVS216C	27375.								
225 A	42	208Y/120 Vac	120,000 A	24344.	26097.	NQ442L2TVS212	23445.	MH56	113.	NC56()	786.	NC56()HR	983.	MH56WP	2652.
				24419.	26172.	NQ442L2TVS212C	23520.								
			160,000 A	28459.	30212.	NQ442L2TVS216	27560.								
				28534.	30287.	NQ442L2TVS216C	27635.								
225 A	72★	208Y/120 Vac	120,000 A	25500.	27185.	NQ472L2TVS212	24500.	MH62	113.	NC62()	887.	NC62()HR	1109.	MH62WP	2685.
				25629.	27314.	NQ472L2TVS212C	24629.								
			160,000 A	25042.	26723.	NQ442L4TVS212	23981.								
				25163.	26844.	NQ442L4TVS212C	24102.								
400 A	42	208Y/120 Vac	120,000 A	29156.	30837.	NQ442L4TVS216	28095.	MH68	113.	NC68V()	948.	NC68V()HR	1185.	MH68WP	2742.
				29278.	30959.	NQ442L4TVS216C	28217.								
			160,000 A	26532.	28253.	NQ472L4TVS212	25418.								
				26740.	28461.	NQ472L4TVS212C	25626.								
400 A	72★	208Y/120 Vac	120,000 A	26532.	28253.	NQ472L4TVS212	25418.	MH80	113.	NC80V()	1001.	NC80V()HR	1245.	MH80WP	2835.
				26740.	28461.	NQ472L4TVS212C	25626.								

- ▲ "C" suffix indicates copper bussing.
- Embossed mounting holes add a .25 inch standoff to back of MH box.
- ♦ Add "F" for flush, "S" for surface.
- ★ Use only if the Local Jurisdiction where this panelboard interior is being applied has adopted the 2008 NEC, which allows single panelboard interiors greater than 42 circuits.
- ▼ Enclosure includes trim kit.

Table 9.12: Main Circuit Breaker Interiors with TVSS

Mains Rating	Pole Spaces	Voltage	Surge Rating	Total Price Interior, Front, Box and Adapter Kit ▲		Interior Only (Order Main Circuit Breaker, Kit and Branches Separately)		Main Circuit Breaker Adapter Kit			Type 1 Enclosure						Type 3R/5/12 Enclosure ▼	
								Kit Catalog No. ▲	\$ Price	Main Circuit Breaker Frame	Box 20 in. W x 5.75 in. D ♦		Mono-Flat® Front ★		Hinged Fronts		20 in. W x 6.5 in. D	
				Type 1	Type 3R, 5, 12	Catalog Number ■	\$ Price				Cat. No.	\$ Price	Cat. No.	\$ Price	Cat. No.	\$ Price	Cat. No.	\$ Price
225 A	30	208Y/120 Vac	120,000 A	24964.	26649.	NQ430L2TVS212	23184.	NQMB2HJ or NQMB2Q or NQMB2KI	780.	HD/HG/HJ/HL QB/QD/QG/QJ KI	MH62	113.	NC62()	887.	NC62()HR	1109.	MH62WP	2685.
				25041.	26726.	NQ430L2TVS212C	23261.											
			160,000 A	29079.	30764.	NQ430L2TVS216	27299.											
				29155.	30840.	NQ430L2TVS216C	27375.											
225 A	42	208Y/120 Vac	120,000 A	25286.	26967.	NQ442L2TVS212	23445.	780.	KI	MH68	113.	NC68()	948.	NC68()HR	1185.	MH68WP	2742.	
				25361.	27042.	NQ442L2TVS212C	23520.											
			160,000 A	29401.	31082.	NQ442L2TVS216	27560.											
				29476.	31157.	NQ442L2TVS216C	27635.											
225 A	72△	208Y/120 Vac	120,000 A	26365.	28037.	NQ472L2TVS212	24500.	780.		MH74	113.	NC74()	972.	NC74()HR	1215.	MH74WP	2757.	
				26494.	28166.	NQ472L2TVS212C	24629.											
			160,000 A	25875.	27596.	NQ442L4TVS212	23981.											
				25996.	27717.	NQ442L4TVS212C	24102.											
400 A	42	208Y/120 Vac	120,000 A	29989.	31710.	NQ442L4TVS216	28095.	NQMB4LA	780.	LA/LH (LC is F/A only)	MH80	113.	NC80V()	1001.	NC80V()HR	1245.	MH80WP	2835.
				30111.	31832.	NQ442L4TVS216C	28217.											

- ▲ Select the appropriate main circuit breaker from tables starting on page 7-22 and add the circuit breaker price to the total price of the panelboard.
- "C" suffix indicates copper bussing.
- ♦ Embossed mounting holes add a .25 inch standoff to back of MH box.
- ★ Add "F" for flush, "S" for surface.
- ▼ Enclosure includes trim kit.
- △ Use only if the Local Jurisdiction where this panelboard interior is being applied has adopted the 2008 NEC, which allows single panelboard interiors greater than 42 circuits.

Table 9.13: NQ Merchandised Neutrals

Mains Ampacity	200% Neutral Kit				Copper 100% Neutral Kit			
	Catalog No.	Price	Box Add	Schedule	Catalog No.	Price	Box Add	Schedule
100	NQNL1	315.		PE-1A	NQN1CU	192.	no adder	PE-1A
225	NQNL2 or NQNL2ACCY	426.	no adder	PE-1A	NQN2CU			
400	NQNL4	639.	no adder	PE-1A	NQN6CU	585.	no adder	PE-1A
600		Not Available			NQN6CU			

- ▲ Not to be used with SFL, FTL or SFB. These combinations are factory assembled only.
- For 225A panel with SFL, FTL or SFB, use NQNL2ACCY (enclosure size increases by 6 inches). Otherwise, use NQNL2.

Table 9.14: NQ Merchandised Sub-feed Lugs, Feed-through Lugs and Sub-feed Breakers

Mains Ampacity	Sub-feed Lugs (N/A in MCB Interiors)			Feed-through Lugs			Sub-feed Circuit Breaker Kits (breaker not incl.)					
	Catalog No.	Price	Schedule	Catalog No.	Price	Schedule	Single SFB			Two SFB		
							Catalog No.	Price	Schedule	Catalog No.	Price	Schedule
100 A	NQSFL1	155.	PE-1A	100 A not available;	—	—	—	—	—	—	—	—
225 A	NQSFL2	203.	PE-1A	NQFTL2L▲	476.	PE-1A	NQSF2Q or NQSF2HJ	1029.	PE-1A	—	—	—
			NQFTL2H■									
400 A	NQSFL4	260.	PE-1A	NQFTL4L▲	507.	PE-1A	Use the 2 SFB kit		—	NQSF4Q or NQSF4HJ	1290.	PE-1A
				NQFTL4H■								
600 A	Use FTL			Factory Assembled Only								

Note: See Table 9.15 & Table 9.16 for box selection table.

- ▲ The final character L indicates the kit is used for Low circuit count interiors 30 and 42.
- The final character H indicates the kit is used for High circuit count interiors 54, 72 and 84.

Table 9.15: Box Selection Table: Merchandised NQ Main Lug Panelboards with Accessories

Feature	Sub-feed Lugs			Feed-through Lugs			Sub-feed Circuit Breakers					
Circuits	100A	225 A	400A	600 A	100A	225 A	400A	600A	100A	225 A (one)	400A (two)	600A (two)
18	MH26	—	—	Use FTL	—	—	—	—	—	—	—	—
30	MH32	MH38	MH50	Use FTL	Use 225A Interior	MH38	MH50	Factory Asm. Only	—	MH50	MH74	Factory Asm. Only
42	—	MH44	MH50	Use FTL		MH38	MH56		—	MH56	MH80	
72	—	MH50	MH62	Use FTL		MH50	MH68		—	MH62	MH86	
84	—	MH56	MH68	Use FTL		MH56	MH68		—	MH68	▲	

- ▲ (c) Requires box longer than available box offer.

Table 9.16: Box Selection Table: Merchandised NQ Vertically Mounted Main Breaker Panelboards w/ Accessories

Feature	Feed-through Lugs			Sub-feed Circuit Breakers				
Circuits	100A	225 A	400A	600A	100A	225 A (one)	400A (two)	600A (two)
18	—	—	—	Factory Asm. Only	—	—	—	Factory Asm. Only
30	—	—	MH62		—	MH62	MH86	
42	—	MH50	MH68		—	MH68	MH86	
72	—	MH62	MH80		—	MH74	▲	
84	—	MH68	MH80		—	MH80	▲	

- ▲ (c) Requires box longer than available box offer.

Table 9.17: NQ Accessories

Description	Catalog No.	\$ Price	Schedule	
Sub-feed (Bolt-on)				
2-pole	QOB2125SL	176.00	DE2A	
3-pole	QOB3125SL	176.00		
Equipment Ground Bars				
Aluminum	PK27GTA	33.80	DE3A	
PK23GTA+ #1 to #4/0 Al or Cu lug	PK23GTAL	40.70		
Copper	PK27GIACU	84.00	PE-1A	
Ground Bar Insulator Kit	PKGTAB	43.80	DE3A	
Filler plate (15 per package)	NQFP15▲	68.00	PE1A	
Circuit I.D. Number Strips				
1-102 odd/even (left side numbered 1,3,5 ...101)	NQ102OE	7.90	PE1A	
103-204 odd/even (left side numbered 103,105,107 ... 203)	NQ204OE	7.90		
1-102 sequential (left side numbered 1,2,3 ... 102)	NQ102S	7.90		
103-204 sequential (left side numbered 103,104,105 ... 204)	NQ204S	7.90		
Rail & Deadfront Extensions	6 in. Extension	NQ6RDE		252.00
	12 in. Extension	NQ12RDE		283.00
	18 in. Extension	NQ18RDE	343.00	
	24 in. Extension	NQ24RDE	397.00	
Touch-up paint USAS #49 Gray (Aerosol can)	PK49SP	39.00	DE1	
Handle Attachments—Branch Circuit Breakers				
Handle lock-off	HLO1	9.90	DE2A	
Handle tie - (QO and QOB only)	QO1HT	3.80		
Handle padlock attachment—1-pole	QO1PA	10.70		
2- and 3-pole	QO1PL	10.70		
Handle tie & lock-off for three 1-pole (QO, QOB)	QO3HT	13.40		
Handle Padlock Attachment for Padlocking in OFF position				
For padlocking 1P QO circuit breaker in OFF position only, fixed attachment	QO1PAF	43.50	DE2E	
For padlocking 2P and 3P QO circuit breaker in OFF position only, fixed attachment	QO2PAF	25.80		
For padlocking 1P QO-GFI, QO-AFI, QO-CAFI and QO-EPD circuit breakers in OFF position only, fixed attachment	QOGFI1PAF	51.00		
For padlocking 2P QO-GFI and QO-EPD circuit breakers in OFF position only, fixed attachment	QOGFI2PAF	38.40		
Neutral or Ground Lugs				
#10 to #2 Al or #14 to #4 Cu	QO70AN	9.90	DE3A	
#4 to #1/0 Al or Cu	Q1100AN	11.10		
#1 to #4/0 Al or Cu	Q1150AN	32.40		
Endwalls for MH Enclosures				
Blank (one per package)	8011010501	41.10	PE1A	
With Knockouts (one per package)	8011010401	41.10		

- ▲ Filler Plates are \$3.00 each and must be ordered in packages of 15.

Table 9.18: QOB-GFI, QOB-EPD, and QOB-EPE Circuit Breakers

Ampere Rating ▲	1P		2P—Common Trip		3P—Common Trip			
	Catalog No.	\$ Price	Catalog No.	\$ Price	Catalog No.	\$ Price	Catalog No.	\$ Price
QOB-GFI—QOB QWIK-GARD® Circuit Breaker With Ground Fault Circuit Interrupter—UL Class A 4–6 mA People Protection. ■								
	120 Vac—10 k AIR		120/240 Vac—10 k AIR		208Y/120 Vac—10 k AIR			
15	QOB115GFI	248.	QOB215GFI	444.	QO315GFI	791.	—	—
20	QOB120GFI	248.	QOB220GFI	444.	QO320GFI	791.	—	—
25	QOB125GFI	248.	QOB225GFI	444.	—	—	—	—
30	QOB130GFI	248.	QOB230GFI	444.	QO330GFI	791.	—	—
40	—	—	QOB240GFI	444.	QO340GFI	791.	—	—
50	—	—	QOB250GFI	444.	QO350GFI	791.	—	—
60	—	—	QOB260GFI	444.	—	—	—	—
QOB-VHGF ★								
	120 Vac—22,000 AIR		240 Vac—10 k AIR					
15	QOB115VHGF	497.	—	—	—	—	—	—
20	QOB120VHGF	497.	—	—	—	—	—	—
25	QOB125VHGF	497.	—	—	—	—	—	—
30	QOB130VHGF	497.	—	—	—	—	—	—
QOB-EPD—QOB Equipment protection circuit breakers with UL Listed 30 mA (EPD) or 100 mA (EPE) equipment protection.								
	120 Vac—10,000 AIR		240 Vac—10 k AIR					
15	QOB115EPD	417.	QOB215EPD	671.	QO315EPD	1077.	QO315EPE	1077.
20	QOB120EPD	417.	QOB220EPD	671.	QO320EPD	1077.	QO320EPE	1077.
25	QOB125EPD	417.	QOB225EPD	671.	—	—	—	—
30	QOB130EPD	417.	QOB230EPD	671.	QO330EPD	1077.	QO330EPE	1077.
40	—	—	QOB240EPD	671.	QO340EPD	1077.	QO340EPE	1077.
50	—	—	QOB250EPD	671.	QO350EPD	1077.	QO350EPE	1077.
60	—	—	QOB260EPD	671.	—	—	—	—
QOB-HM—High magnetic trip circuit breakers								
15	QOB115HM	39.80	—	—	—	—	—	—
20	QOB120HM	39.80	—	—	—	—	—	—
QOB-K—Key operated QOB circuit breakers ▲								
	120 Vac—10,000 AIR		240 Vac—10 k AIR					
10	QOB110K	168.	—	—	—	—	—	—
15	QOB115K	168.	—	—	—	—	—	—
20	QOB120K	168.	—	—	—	—	—	—
25	QOB125K	168.	—	—	—	—	—	—
30	QOB130K	168.	—	—	—	—	—	—

(Footnotes for Tables 9.18, 9.19, and 9.20)

- ▲ 10–30 A circuit breakers are suitable for use with 60° C or 75° C conductors. 35–60 A circuit breakers are suitable for use with 75° C conductors.
- Do not connect to more than 250 feet of load conductor for the total one-way run to prevent nuisance tripping.
- ◆ Suitable only for feeding 240 Vac and 208 Vac two-wire loads. Does not contain load neutral connection.
- ★ Recommended for applications where high initial inrush may occur and for individual dimmer applications.
- ▼ UL Listed as SWD (switching duty) rated suitable for switching 120 Vac fluorescent lighting loads.
- △ Available in single pole construction and can be mounted in any single pole space which will accept a standard QOB. These circuit breakers can be turned ON or OFF or to RESET with a special key (Catalog No. QOK10) included with the circuit breaker. These circuit breakers are UL Listed and available as shown in the table.
- UL Listed for use on circuit feeding fluorescent and High Intensity Discharge (HID) lighting systems such as mercury vapor, metal halide, or high pressure sodium. These circuit breakers are physically interchangeable with QOB circuit breakers.
- ◇ UL Listed 5,000 AIR on 3Ø corner grounded delta systems.
- ☆ UL Listed as HACR type for use with air conditioning, heating and refrigeration equipment having motor group combinations and marked for use with HACR type circuit breakers.
- ▽ DC Rating is not available on indicated products.
- QOB2150VH uses 4 pole spaces. QOB3110VH, QOB3125VH, and QOB3150VH each use 6 pole spaces. 40A maximum circuit breaker mounted opposite. Use with 75° C wire only.
- * For QO plug-on circuit breaker pricing, see tables starting on page 1–2.
- ◆ See note in Instruction Bulletin when using in an enclosure with a QO403 or QON prefix.

Table 9.21: QO/QOB Circuit Breaker Wire Sizes

Breaker Type	Ampere Rating ▲	Wire Size (AWG)	
		Al	Cu
QOB 1-pole	10–30	#14–8	#14–8
	10–30	—	two #14–10
	35–70	#8–2	#8–2
QOB 2-pole	10–30	#14–8	#14–8
	10–30	—	two #14–10
	35–70	#8–2	#8–2
QOB 3-pole	80–125	#4–2/0	#4–2/0
	150–200	#4–300 kcmil	#4–300 kcmil
	10–30	#14–8	#14–8
QOB-VH	110–150	#4–300 kcmil	#4–300 kcmil
	15–20	#12–8	#14–8
	15–30	#12–8	#14–8
QOB-GFI & QOB-EPD	40, 50, 60	#12–4	#14–6

- ▲ 10–30 A circuit breakers are suitable for use with 60° C or 75° C conductors. 35–60 A circuit breakers are suitable for use with 75° C conductors.

Table 9.19: Standard Interrupting QOB 10,000 AIR Circuit Breakers

Ampere Rating ▲	One-pole		Two-pole—Common Trip		Two-pole—Common Trip ◇		Three-pole—Common Trip	
	Catalog No.	\$ Price	Catalog No.	\$ Price	Catalog No.	\$ Price	Catalog No.	\$ Price
QOB Bolt-On								
	120 Vac—10 k AIR 48 Vdc—5 k AIR		120/240 Vac—10 k AIR 48 Vdc—5 k AIR ▼		240 Vac—10 k AIR		240 Vac—10 k AIR 48 Vdc—5 k AIR ▼	
10	QOB110	39.80	QOB210	89.	—	—	QOB310	293.
15	QOB115	39.80	QOB215	89.	QOB215H	240.	QOB315	293.
20	QOB120	39.80	QOB220	89.	QOB220H	240.	QOB320	293.
25	QOB125	39.80	QOB225	89.	QOB225H	240.	QOB325	293.
30	QOB130	39.80	QOB230	89.	QOB230H	240.	QOB330	293.
35	QOB135	39.80	QOB235	89.	—	—	QOB335	293.
40	QOB140	39.80	QOB240	89.	QOB240H	240.	QOB340	293.
45	QOB145	39.80	QOB245	89.	—	—	QOB345	293.
50	QOB150	39.80	QOB250	89.	QOB250H	240.	QOB350	293.
60	QOB160	39.80	QOB260	89.	QOB260H	240.	QOB360	293.
70	QOB170	78.	QOB270	168.	QOB270H	308.	QOB370	369.
80	—	—	QOB280	240.	QOB280H	366.	QOB380	419.
90	—	—	QOB290	240.	QOB290H	366.	QOB390	419.
100	—	—	QOB2100	240.	QOB2100H	366.	QOB3100	419.
110	—	—	QOB2110	501.	—	—	—	—
125	—	—	QOB2125	501.	—	—	—	—
Molded Case Switch 60 A max — 240 Vac			QOB200	89.	—	—	QOB300	293.
Molded Case Switch 100 A max — 240 Vac			QOB2000	234.	—	—	QOB3000	507.

Table 9.20: High Interrupting QOB and Specialty Circuit Breakers

Ampere Rating ▲	One-pole		Two-pole—Common Trip		Three-pole—Common Trip	
	Catalog No.	\$ Price	Catalog No.	\$ Price	Catalog No.	\$ Price
QOB-VH						
	120 Vac—22,000 AIR		120/240 Vac —22,000 AIR		240 Vac—22,000 AIR	
15	QOB115VH	72.	QOB215VH	171.	QOB315VH	440.
20	QOB120VH	72.	QOB220VH	171.	QOB320VH	440.
25	QOB125VH	72.	QOB225VH	171.	QOB325VH	440.
30	QOB130VH	72.	QOB230VH	171.	QOB330VH	440.
40	—	—	QOB240VH	171.	QOB340VH	440.
50	—	—	QOB250VH	171.	QOB350VH	440.
60	—	—	QOB260VH	171.	QOB360VH	440.
70	—	—	QOB270VH	273.	QOB370VH	560.
80	—	—	QOB280VH	384.	QOB380VH	629.
90	—	—	QOB290VH	384.	QOB390VH	629.
100	—	—	QOB2100VH	384.	QOB3100VH	629.
110	—	—	QOB2110VH	1110.	QOB3110VH	1809.
125	—	—	QOB2125VH	1110.	QOB3125VH	1809.
150	—	—	QOB2150VH	1223.	QOB3150VH	1809.
QHB						
	120 Vac—65,000 AIR		120 Vac/240 Vac—65,000 AIR		240 Vac—65,000 AIR	
15	QHB115	122.	QHB215	342.	QHB315	596.
20	QHB120	122.	QHB220	342.	QHB320	596.
25	QHB125	122.	QHB225	342.	QHB325	596.
30	QHB130	122.	QHB230	342.	QHB330	596.
QOB-HID—HID circuit breakers □						
	120 Vac—10,000 AIR		120/240 Vac—10,000 AIR		240 Vac—10,000 AIR	
15	QOB115HID	49.50	QOB215HID	108.	QOB315HID	327.
20	QOB120HID	49.50	QOB220HID	108.	QOB320HID	327.
25	QOB125HID	49.50	QOB225HID	108.	QOB325HID	327.
30	QOB130HID	49.50	QOB230HID	108.	QOB330HID	327.
40	QOB140HID	49.50	QOB240HID	108.	—	—
50	QOB150HID	49.50	QOB250HID	108.	—	—
QOB-SWN—Switch Neutral—Common Trip—NEC 514.11						
	1-pole—2-Wire 2 Spaces—120 Vac		2-pole—3-Wire 3 Spaces—120/240 Vac			
10	—	—	QOB210SWN	116.	QOB310SWN	170.
15	—	—	QOB215SWN	116.	QOB315SWN	170.
20	—	—	QOB220SWN	116.	QOB320SWN	170.
25	—	—	QOB225SWN	116.	QOB325SWN	170.
30	—	—	QOB230SWN	116.	QOB330SWN	170.
40	—	—	QOB240SWN	116.	QOB340SWN	170.
50	—	—	QOB250SWN	116.	QOB350SWN	170.
Table 9.22: QO® Arc-Fault Circuit Breakers ▲ ■						
Circuit Breaker Type	Ampere Rating ▲	1P 120 Vac 10 kAIR 1 Space Required		1P 120 Vac 22 kAIR 1 Space Required		
		Catalog Number	\$ Price	Catalog Number	\$ Price	
Combination Arc-Fault Interrupter	15	QOB115CAFI	306.	QOB115VHCAFI	612.	
	20	QOB120CAFI	306.	QOB120VHCAFI	612.	

- Note: See page 7-12 for accessories.
- ▲ UL Listed as HACR type for use with air conditioning, heating and refrigeration equipment having motor group combinations and marked for use with HACR type circuit breakers.
 - QO arc-fault circuit breakers provide branch feeder protection (i.e. QO115CAFI) or combination protection (i.e. QO115CAFI) as required by the NEC and local code adoption, and comply with UL 1699.
 - ◆ 10–30 A circuit breakers are suitable for use with 60° C or 75° C conductors. 35–60 A circuit breakers are suitable for use with 75° C conductors.

Table 9.23: Base Price (With Solid Neutral)

Mains Rating	Main Lugs		Main Circuit Breaker (Circuit Breaker Interrupt Rating—pages 6-2 through 6-8) ▲											
	2-pole	3-pole	Standard IC			HIC			Extra HIC			I-Limiter®		
			Circuit Breaker	2-pole	3-pole	Circuit Breaker	2-pole	3-pole	Circuit Breaker	2-pole	3-pole	Circuit Breaker	2-pole	3-pole
60 A	—	—	QOB	1192.	1464.	QOB-VH	1258.	1586.	HJ▲	2950.	3300.	FI	4088.	4858.
100 A	720.	832.	QOB	1254.	1562.	QOB-VH	1382.	1712.	HJ▲	2950.	3300.	FI	4088.	4858.
	720.	832.	HD	2030.	2380.	HG	2700.	3050.		2950.	3300.	FI	4088.	4858.
	720.	832.	—	—	—	—	—	—		4000.	4350.	—	—	—
150 A	—	—	HD	3180.	3530.	HG	3840.	4190.	HJ▲	4000.	4350.	—	—	—
225 A	772.	928.	QB	2450.	2800.	QG	3740.	4090.	QJ	3970.	4320.	—	—	—
			JD	3980.	4300.	JG	4510.	5100.	JJ▲	6450.	7280.	KI	7436.	8680.
			QD	3084.	3434.	—	—	—	—	—	—	—	—	—
250 A	—	—	JD	4390.	4640.	JG	5040.	6020.	JJ▲	7100.	8020.	KI	8264.	9672.
400 A	1422.	1634.	LA	5366.	6106.	LH	7708.	8834.	LC	8620.	9780.	—	—	—
600 A	2082.	2326.	—	—	—	—	—	—	LC	9420.	10440.	—	—	—

Note: Equipment Ground Bar—38.

- ▲ QL, HJ, HL, JJ and JL circuit breakers are also available.
- Copper bus standard
- ◆ Prices are for 54-circuit and less interiors. Consult the Product Selector for 72- and 84-circuit interior pricing.

Table 9.24: Branch Circuit Breakers

Circuit Breaker Ampere Rating	Plug-On or Bolt-On				
	1-pole 120 Vac	2-pole 120/240 Vac	2-pole 240 Vac	3-pole 240 Vac	3-pole 208Y/120 Vac
	\$ Price	\$ Price	\$ Price	\$ Price	\$ Price
Space Only					
All Space Only Except below	28.	58.	58.	86.	—
QOB-VH, Space Only (125–150 A)	—	116.	—	174.	—
10,000 AIR—Branch Circuit Breakers—QO®, QOB, QO-H, QOB-H					
15–60	68.	134.	260. ▲	352.	—
70	100.	208.	296. ▲	396.	—
80–100	—	262.	380. ▲	458.	—
110–125	—	482.	—	—	—
10,000 AIR—Combination Arc Fault Circuit Interrupters—QO-CAFI, QOB-CAFI					
15–20	470.	—	—	—	—
10,000 AIR—Qwik-Gard®—Class A—QO-GFI, QOB-GFI Provided with a 5 mA setting on ground fault sensor					
15–30	272.	488.	—	—	920.
40–50	—	488.	—	—	920.
60	—	488.	—	—	—
10,000 AIR—Qwik-Gard®—Class A—QO-EPD, QOB-EPD Provided with a 30 mA setting on ground fault sensor					
15–30	462.	828.	—	1210.	—
40–50	—	828.	—	1210.	—
60	—	828.	—	—	—
10,000 AIR—Qwik-Gard®—Class A—QO-EPE, QOB-EPE Provided with a 100 mA setting on ground fault sensor					
15–30	—	—	—	1210.	—
40–50	—	—	—	1210.	—
(High Interrupting Capacity)					
22,000 AIR Branch Circuit Breakers—QO-VH, QOB-VH					
15–30	92.	212.	—	462.	—
35–60	—	212.	—	462.	—
70	—	292.	—	556.	—
80–100	—	378.	—	606.	—
110–125	—	1022.	—	—	—
150	—	1140. ■	—	1746. ■	—
22,000 AIR—Combination Arc Fault Circuit Interrupters—QO-VHCAFI, QOB-VHCAFI					
15–20	940.	—	—	—	—
22,000 AIR—Qwik-Gard®—Class A—QO-VHGFI, QOB-VHGFI					
15–30	294.	—	—	—	—
42,000 AIR Branch Circuit Breakers—QOH					
35–60	—	368. ◆	—	—	—
70	—	596. ◆	—	—	—
80–100	—	688. ◆	—	—	—
110–125	—	1402. ◆	—	—	—
65,000 AIR Branch Circuit Breakers—QH, QHB					
15–30	144.	348.	—	596.	—

Note: Shunt Trip, Auxiliary Switch, and Alarm Switch—accessories for circuit breakers—add \$ Price from page 7-12.

- ▲ UL Listed for use on 3Ø, grounded BØ systems, (5,000 AIR for this application).
- Bolt-On only, 2-pole requires 4 vertical spaces, 3-pole requires 6 vertical spaces.
- ◆ Plug-On only.

Table 9.25: Specialty Branch Circuit Breakers

Circuit Breaker Ampere Rating	Plug-On or Bolt-On			
	1-pole 120 Vac	2-pole 120/240 Vac	2-pole 240 Vac	3-pole 240 Vac
	\$ Price	\$ Price	\$ Price	\$ Price
Specialty Branch Circuit Breakers (10,000 AIR)				
For High Intensity Discharge Lighting—QO-HID, QOB-HID				
15–30	78.	148.	—	376.
40–50	78.	148.	—	—
Switch Neutral—QO-SWN, QOB-SWN				
15–50	—	1-pole 2-Wire (2 spaces)	—	2-pole 3-Wire (3 spaces)
	—	154.	—	220.
High Magnetic Trip (For applications subject to high initial inrush)—QO-HM, QOB-HM				
15–20	68.	—	—	—

Sub-feed Circuit Breakers

Main lugs or main circuit breaker interior—1Ø or 3Ø.
Maximum 1 circuit breaker per 225 A main lug or 250 A main circuit breaker panelboard, 2 circuit breakers per 400–600 A panelboard.

Table 9.26: Sub-feed Circuit Breaker (110–225 A)

(Refer to Cabinet Data table below for correct box size)

No. of Poles	Ampacity	QB	QD	QG ▲	HD	HG ▲	JD	JG ▲
2	110–225 A	1218.	1762.	3812.	2456.	3500.	3020.	4220.
3	110–225 A	1848.	2296.	4608.	2872.	3798.	3370.	5100.
Space	110–225 A	826.	826.	826.	826.	826.	826.	826.

▲ QJ, HJ, HL, JJ and JL circuit breakers are also available.

Table 9.27: Sub-feed Circuit Breaker Cabinet Data

Max. No. of Branch Spaces (Does not include sub-feed circuit breaker spaces)	Box Height (20 in. W x 5.75 in. D)					
	225 A		250 A		400 A ▲	
	Main Lug	Main Circuit Breaker	Main Lug	Main Circuit Breaker	Main Lug	Main Circuit Breaker
30	50	62	74	86	74	not available with MCB
42	56	68	80	86	80	
54	56	68	80	—	80	
72	62	74	86	—	86	
84	68	80	—	—	—	

▲ Not Available in Type 3R, 5, 12 if subfeed breaker is over 150 A.

Sub-feed Lugs

NOTE: Available on main lug interiors only. 1Ø or 3Ø.

Table 9.28: Sub-feed Wire Range Per Phase

Mains Rating	Incoming	Outgoing	Price per Panel
100	one #6-2/0 Al or Cu	one #6-2/0 Al or Cu	\$128.
225	one 1/0-350 kcmil Al or Cu	one 1/0-350 kcmil Al or Cu	\$128.
400	one 1/0-750 kcmil Cu only	one 1/0-750 kcmil Cu only	\$164.

Table 9.29: Sub-feed Lug Cabinet Data

Max. No. of Branch Spaces	Box Height (20 in. W x 5.75 in. D)		
	100 A	225 A	400 A
18	MH26	—	—
30	MH32	MH38	MH50
42	—	MH44	MH50
72	—	MH50	MH62
84	—	MH56	MH68

Feed-through Lugs

Table 9.30: Feed-through Lugs

Mains Rating	Feed-Through Wire Range Per Phase	\$ Price
100 A	one #6-2/0 Al or Cu	344.
225 A	one #6-350 kcmil Al or Cu	344.
400 A	one 1/0-750 kcmil or two 1/0-350 kcmil Al or Cu	826.
600 A	two 1/0-750 kcmil Al or Cu	826.

Table 9.31: Feed-through Lug Cabinet Data

Max. No. of Branch Spaces	Box Height (20 in. W x 5.75 in. D)					
	225 A		250 A		400 A	
	Main Lugs	Main Circuit Breaker	Main Lugs	Main Circuit Breaker	Main Lugs	Main Circuit Breaker ▲
30	38	50	50	62	62	74
42	38	50	56	68	62	80
72	50	62	68	80	74	—
84	56	68	68	80	80	—

▲ 8.75 in. deep box, ship fully assembled only.

Table 9.32: Ground Bars

Ground Bars	\$ Price Adder
Equipment Ground Bar	38.
Copper Ground Bar (Add to Equipment Ground Bar Price)	52.
Insulated/Isolated Ground Bar (Add to Equipment Ground Bar Price)	86.

Table 9.33: Name Plates

Name Plates	\$ Price Adder
Standard white face/black letter laminated bakelite, 1 in. x 3.5 in., adhesive backed or screw mountable with screws in a bag assembly (Price includes engraving)	78.

Table 9.34: Copper Bus Bars

Copper Bus Bars	\$ Price Adder
100 A, 225 A, 250 A	128.
400 A	388.
600 A	Standard

Table 9.35: Copper Neutrals

Copper Neutrals	\$ Price Adder
100-600 A	132.

Table 9.36: 200% Rated Neutrals

Panelboards with 200% rated neutrals are not available with 250 A J- and K-frame main circuit breakers or integral lighting contactors		Add Per Panel \$ Price
100 A ▲	one #6-2/0 kcmil Al or Cu per lug	586.
225 A ▲	one #6-350 kcmil Al or Cu per lug	763.
400 A ▲	one #1/0-750 kcmil Al or Cu per lug or two 1/0-300 kcmil per lug	950.

▲ Two incoming neutral lugs per panel

Table 9.37: NQ Main Neutral Conductors—Required Size and Quantity

Panelboard Ampacity	Neutral Conductors Required	Actual Lug Wire Range
100/125	(2) 1/0 Cu or Al	(2) #4-300kcmil
225	(2) 4/0 Cu or (2) 300 kcmil Al	(2) #4-300 kcmil
400 A	(4) 3/0 Cu or (4) 250 kcmil Al (2) 600 kcmil Cu (2) 750 kcmil Al	(2) 1/0-300 kcmil or (1) 750 kcmil

Note: Neutral conductors must be of size and quantity per table above.

Table 9.38: Metal Directory Frames

Metal Directory Frame	\$ Price Adder
Replaces standard plastic stick-on directory pouch	140.

Table 9.39: Hinged Door-in-Door Trims

Hinged Door-in-Door Trim	Add Per Panel \$ Price
Hinged Door-in-Door Trim has piano hinge down one side. Inner door has a lock, outer door is retained with screws	646.
Hinged Door-in-Door with Outer Door Lock in place of screws	836.

Table 9.40: Weatherproof or Dusttight Cabinets—Type 3R, 5, 12

Weatherproof or Dusttight Cabinets	\$ Price Adder
Note: 600 A LC main circuit breaker NQ panelboards are not available with a weatherproof enclosure (Use I-Line)	1516.
400 and 600 A NQ panelboards with sub-feed circuit breakers are not available with a weatherproof enclosure (Use I-Line).	

Table 9.41: Optional Factory Assembled Lugs for Main Lug Interiors

Main Lug Interiors:	Price Per Pole Adder			
	100A	225A	400A	600A
Aluminum Compression Lugs	58.	58.	148.	148.
Copper Mechanical Lugs	70.	108.	148.	168.
Copper Compression Lugs	70.	108.	148.	168.

Table 9.42: Optional Factory Assembled Lugs for Main Circuit Breaker Interiors

Main Circuit Breaker Interiors:	Price Per Pole Adder			
	H Frame	J Frame	LA Frame	LC Frame
Aluminum Compression Lugs	58.	98.	148.	148.
Copper Mechanical Lugs	70.	108.	148.	168.
Copper Compression Lugs	70.	108.	148.	168.

Note: Optional lugs are not available for Q frame main or QOB circuit breakers

Table 9.43: Surgelogic® Hard Bus TVSS—Model IMA ▲

Surge Current Rating kA	Voltage		
	120/240 V 1Ø3W	208Y/120 V 3Ø4W	240/120 V 3Ø4W High Leg
100	12110.	14310.	14310.
120	13454.	15654.	15654.
160	16386.	18586.	18586.
200	19196.	23596.	23596.
240	23760.	27440.	27440.

▲ TVSS units add 18 in. of box height in NQ panelboards

Table 9.44: Surgelogic TVSS Options

Description	\$ Price
Surge Counter	1650.
Dry Contacts	Standard
Remote Monitor	2588.

Note: Additional factory modifications, see 9-37.

20-inch Wide Enclosures 480Y/277 Vac Max.

Table 9.45: NF Main Lug Interiors — Use I-LINE Panelboards on 480 V 3Ø3W DELTA Applications

Max No. of Single Pole EDB Circuit Breakers	Mains Rating	\$ Total Price ▲		Interior Only ■		NEMA 1 Enclosure				NEMA 3R, 5, 12 Enclosure Δ		Height (In.)		
						Box 20 in. W x 5.75 in. D ★		Mono-Flat® Front ▼		Hinged Front			Enclosure 20 in. W x 6.5 in. D	
		NEMA 1	NEMA 3R, 5, 12	Catalog No. ♦	\$ Price	Catalog No.	\$ Price	Catalog No.	\$ Price	Catalog No.	\$ Price		Catalog No.	\$ Price
(Single Phase 3-Wire: Factory Assembled Only) Three Phase 4-Wire														
18	125	2056.	3638.	NF418L1	1446.	MH26	113.	NC26()	497.	NC26()HR	620.	MH26WP	2192.	26
		2448.	4030.	NF418L1C	1838.	MH26		NC26()		NC26()HR		MH26WP		
30	125	2406.	3970.	NF430L1	1766.	MH32	113.	NC32()	527.	NC32()HR	657.	MH32WP	2204.	32
		2802.	4366.	NF430L1C	2162.	MH32		NC32()		NC32()HR		MH32WP		
30	250	2881.	4435.	NF430L2	2219.	MH38	113.	NC38()	549.	NC38()HR	687.	MH38WP	2216.	38
		3286.	4840.	NF430L2C	2624.	MH38		NC38()		NC38()HR		MH38WP		
42	250	3194.	5021.	NF442L2	2418.	MH44	113.	NC44()	663.	NC44()HR	830.	MH44WP	2603.	44
		3602.	5429.	NF442L2C	2826.	MH44		NC44()		NC44()HR		MH44WP		
66□	250	4800.	6485.	NF466L2	3800.	MH62	113.	NC62()	887.	NC62()HR	887.	MH62WP	2685.	62
		5442.	7127.	NF466L2C	4442.	MH62		NC62()		NC62()HR		MH62WP		
30	400	3308.	5075.	NF430L4	2466.	MH50	113.	NC50V()	729.	NC50V()HR	912.	MH50WP	2609.	50
		3716.	5483.	NF430L4C	2874.	MH50		NC50V()		NC50V()HR		MH50WP		
42	400	3572.	5325.	NF442L4	2673.	MH56	113.	NC56V()	786.	NC56V()HR	983.	MH56WP	2652.	56
		3895.	5648.	NF442L4C	2996.	MH56		NC56V()		NC56V()HR		MH56WP		
66□	400	5285.	6957.	NF466L4	4200.	MH74	113.	NC74V()	972.	NC74V()HR	1215.	MH74WP	2757.	74
		5792.	7464.	NF466L4C	4707.	MH74		NC74V()		NC74V()HR		MH74WP		
84□	400	6524.	8261.	NF484L4	5346.	MH86	113.	NC86V()	1065.	NC86V()HR	1430.	MH86WP	2915.	86
		7169.	8906.	NF484L4C	5991.	MH86		NC86V()		NC86V()HR		MH86WP		
30	600	3838.	—	NF430L6C	2996.	MH50	113.	NC50V()	729.	NC50V()HR	912.	Factory Assembled Only	50	
42	600	4087.	—	NF442L6C	3188.	MH56	113.	NC56V()	786.	NC56V()HR	983.	56		
66□	600	6094.	—	NF466L6C	5009.	MH74	113.	NC74V()	972.	NC74V()HR	1215.	74		
84□	600	7553.	—	NF484L6C	6375.	MH86	113.	NC86V()	1065.	NC86V()HR	1430.	86		
800												FACTORY ASSEMBLED ONLY		

NOTE: For footnotes, see Table 9.46 footnotes.

Table 9.46: NF Main Circuit Breaker Interiors — Use I-LINE Panelboards on 480 V 3Ø3W DELTA Applications

Max. No. of One-pole EDB Circuit Breakers	Mains Rating	\$ Total Price ▲		Main Circuit Breaker Adapter Kit		Main Circuit Breaker Frame	NEMA 1 Enclosure				NEMA 3R, 5, 12 Enclosure Δ		Height (In.)				
							Box 20 in. W x 5.75 in. D ★		Mono-Flat® Front ▼		Hinged Front			Enclosure 20 in. W x 6.5 in. D			
		NEMA 1	NEMA 3R, 5, 12	Kit	\$ Price	Catalog No. ♦	\$ Price	Catalog No.	\$ Price	Catalog No.	\$ Price	Catalog No.		\$ Price			
(Single Phase 3-Wire: Factory Assembled Only) Three Phase 4-Wire																	
15	125	2056.	3638.	Back-fed Main Breaker♦	—	EDB, EGB or EJB	NF418L1	1446.	MH26	113.	NC26()	497.	NC26()HR	620.	MH26WP	2192.	26
		2448.	4030.		—			NF418L1C	1838.	MH26		NC26()		NC26()HR		MH26WP	
27	125	2406.	3970.	N150MH or N100MFI☆	780.	HD/HG/ HJ/HL or FI	NF430L1	1766.	MH32	113.	NC32()	527.	NC32()HR	657.	MH32WP	2204.	32
		2802.	4366.					NF430L1C	2162.	MH32		NC32()		NC32()HR		MH32WP	
18	125	2888.	4442.	N250MJ or N250MKC☆	780.	JD/JG/ JJ/JL or KI	NF418L1	1446.	MH38	113.	NC38()	549.	NC38()HR	687.	MH38WP	2216.	38
		3280.	4834.					NF418L1C	1838.	MH38		NC38()		NC38()HR		MH38WP	
30	125	3322.	5149.	N400M☆	780.	LA/LH (LC and LI factory assembled only)	NF430L1	1766.	MH44	113.	NC44()	663.	NC44()HR	830.	MH44WP	2603.	44
		3718.	5545.					NF430L1C	2162.	MH44		NC44()		NC44()HR		MH44WP	
30	250	3841.	5608.	N400M☆	780.		NF430L2	2219.	MH50	113.	NC50()	729.	NC50()HR	912.	MH50WP	2609.	50
		4246.	6013.					NF430L2C	2624.	MH50		NC50()		NC50()HR		MH50WP	
42	250	4097.	5850.	N400M☆	780.		NF442L2	2418.	MH56	113.	NC56()	786.	NC56()HR	983.	MH56WP	2652.	56
		4505.	6258.					NF442L2C	2826.	MH56		NC56()		NC56()HR		MH56WP	
66□	250	5665.	7337.	N400M☆	780.		NF466L2	3800.	MH74	113.	NC74()	972.	NC74()HR	1215.	MH74WP	2757.	74
		6307.	7979.					NF466L2C	4442.	MH74		NC74()		NC74()HR		MH74WP	
30	400	4246.	5931.	N400M☆	780.		NF430L4	2466.	MH62	113.	NC62V()	887.	NC62V()HR	1109.	MH62WP	2685.	62
		4654.	6339.					NF430L4C	2874.	MH62		NC62V()		NC62V()HR		MH62WP	
42	400	4514.	6195.	N400M☆	780.		NF442L4	2673.	MH68	113.	NC68V()	948.	NC68V()HR	1185.	MH68WP	2742.	68
		4837.	6518.					NF442L4C	2996.	MH68		NC68V()		NC68V()HR		MH68WP	
66□	400	6158.	7895.	N400M☆	780.		NF466L4	4200.	MH86	113.	NC86V()	1065.	NC86V()HR	1430.	MH86WP	2915.	86
		6665.	8402.					NF466L4C	4707.	MH86		NC86V()		NC86V()HR		MH86WP	

- ▲ Total Price includes: interior, front, main circuit breaker adapter kit, and enclosure.
- Order branch circuit breakers separately.
- ♦ "C" suffix indicates copper bussing.
- ★ Embossed mounting holes add a .25 inch standoff to back of MH box.
- ▼ Add "F" for flush, "S" for surface.
- Δ Enclosure includes trim kit.
- Use only if the Local Jurisdiction where this panelboard interior is being applied has adopted the 2008 NEC, which allows single panelboard interiors greater than 42 circuits.
- ◇ Back-fed EDB 125 A 3 pole main circuit breaker must be ordered separately and field installed. Maximum breaker rating opposite is 20A.
- ☆ Select the appropriate main circuit breaker from pages starting on 7-21 and add the circuit breaker Price to the total Price of the panelboard.

Table 9.47: NF Merchandised Interiors with TVSS — Use I-LINE Panelboards on 480 V 3Ø3W DELTA Applications

Mains Rating	Max. Breaker Spaces	TVSS Ratings		Interior		Components for adding Vertical Main Circuit Breaker			
		Voltage	Surge Rating	Catalog No.	\$ Price	MCB Kit		Main Circuit Breaker Frame	
						Catalog No.	\$ Price	Select the appropriate MCB and price from the tables starting on page 7-22	
250 A	42	480Y/277 3P4W	120	NF442L2TVS412	30141.	N250MJ or N250MKC	780.	JD/G/JL or KI	
			160	NF442L2TVS412C	30504.			JD/G/JL or KI	
250 A	42	480Y/277 3P4W	120	NF442L4TVS412	30396.	N400M	780.	LA/LH (LC and LI F/A only)	
			160	NF442L4TVS412C	30719.			LA/LH (LC and LI F/A only)	
400 A	42	480Y/277 3P4W	120	NF442L4TVS416	34664.	N400M	780.		
			160	NF442L4TVS416C	34833.				

Note: Dry contacts standard.

Table 9.48: NF Merchandised TVSS Box Selection Table

Mains Rating	Max. Breaker Spaces	Main Lug Panelboard Box Requirements						Main Circuit Breaker Panelboard Box Requirements									
		NEMA 1 Enclosure			NEMA 3R, 5, 12 Enclosure			NEMA 1 Enclosure			NEMA 3R, 5, 12 Enclosure						
		Box	\$ Price	Front	\$ Price	Hinged	\$ Price	Enclosure	\$ Price	Box	\$ Price	Front	\$ Price	Enclosure	\$ Price		
250A	42	MH62	113.	NC62()	887.	NC62()HR	1109.	MH62WP	2685.	MH74	113.	NC74()	972.	NC74()HR	1215.	MH74WP	2742.
400 A	42	MH74		NC74V()	972.	NC74V()HR	1215.	MH74WP	2757.	MH86		NC86V()	1722.	NC86V()HR	1430.	MH86WP	2915.

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PANELBOARDS

Table 9.49: NF Merchandised Neutrals

Mains Ampacity	200% Neutral Kit				Copper 100% Neutral Kit			
	Catalog No.	\$ Price	Box Add	Schedule	Catalog No.	\$ Price	Box Add	Schedule
125	NFNL1	1029.	No Adder	PE-1A	NFN1CU	405.	No Adder	PE-1A
250	NFNL2	1277.			NFN2CU			
400	NFNL4▲	1914.	No Adder	PE-1A	NFN6CU	1148.	No Adder	PE-1A
600	Factory Assembled Only				NFN6CU▲			

▲ Not to be used with SFL, FTL, or SFB. These combinations are factory assembled only.

Table 9.50: Modifications (Single- or Three-phase)

Mains Ampacity	Sub-feed Lugs ▲ ■						Feed-through Lugs ▲ ■						Schedule
	Sub-feed Lugs		Feed-through Lugs		Sub-feed Lugs		Feed-through Lugs		Sub-feed Circuit Breaker Kits ▲ (circuit breaker not included) ◆				
	Catalog No.	\$ Price	Schedule	Catalog No.	\$ Price	Schedule	Catalog No.	\$ Price	Schedule	Catalog No.	\$ Price		
125	NF125SFL	167.	PE-1A	NF125FTL	336.	PE-1A	250	NF250SFBH/NF250SFBJ	1029.	PE-1A	—	—	—
250	NF250SFL	213.	PE-1A	NF250FTL	476.	PE-1A	400	—	—	—	NF600SFBH	1290.	PE-1A
400	NF400SFL★	356.	PE-1A	NF400FTL	507.	PE-1A	600	FACTORY ASSEMBLED ONLY					
600	▼	—	—	▼	—	—	800	FACTORY ASSEMBLED ONLY					
800	—	—	—	—	—	—							

Note: NF250SFBH and NF600SFBH are for use with HDL, HGL, HJL, and HLL circuit breakers. NF600SFBJ are for use with JDL, JGL, JJL, and JLL circuit breakers.

- ▲ Available factory assembled only on non-linear panelboards.
- Select box from the Box Selection Table.
- ◆ Order appropriate circuit breaker.
- ★ Use copper wire only.
- ▼ Available factory assembled only.

Table 9.51: Special Features Box Selection Table—Standard Mechanical Lugs Only

Feature	Main Lugs Only													
	Sub-feed Lugs					Feed-through Lugs					Sub-feed Circuit Breaker			
	No. of Ckts	18	30	42	66	84	18	30	42	66	84	30	42	66
Ampacity	Cat. No.	Cat. No.	Cat. No.	Cat. No.	Cat. No.	Cat. No.	Cat. No.	Cat. No.	Cat. No.	Cat. No.	Cat. No.	Cat. No.	Cat. No.	Cat. No.
100/125	MH26	MH32	—	—	—	MH32	MH38	—	—	—	—	—	—	—
250	—	MH38	MH44	MH62	—	—	MH50	MH56	MH74	—	MH56	MH62	MH80	
400	—	MH50	MH56	MH74	MH86	—	MH56	MH62	MH80	MH92	MH68	MH80	—	
600	—	—	—	—	—	—	—	—	—	—	MH74	MH80	—	
800	—	▲	▲	▲	▲	—	▲	▲	▲	▲	▲	▲	▲	

▲ Available factory assembled only.

Table 9.52: Special Features Box Selection Table—Standard Mechanical Lugs Only (continued)

Feature	Vertical Main Circuit Breaker ▲					Back-fed Main Circuit Breaker			
	Feed-through Lugs					Sub-feed Circuit Breaker		Feed-through Lugs	
	No. of Ckts	18	30	42	66	30	42	18	30
Ampacity	Cat. No.	Cat. No.	Cat. No.	Cat. No.	Cat. No.	Cat. No.	Cat. No.	Cat. No.	Cat. No.
100/125	MH44	—	—	—	—	—	—	MH32	MH38
250	—	MH62	MH68	MH86	—	MH68	MH74	—	—
400▲	—	MH68	MH74	MH92	—	MH80	MH86	—	—
600	FACTORY ASSEMBLED ONLY								

▲ 400 A dimension for LA/LH main circuit breakers only.

Table 9.53: Optional Main Lug Kits for Main Lug Panelboards

Ampacity	AL Compression Lug Kit				CU Mechanical Lug Kit				CU Compression Lug Kit ▲			
	Catalog No.	Lug Wire Range	\$ Price	Schedule	Catalog No.	Lug Wire Range	\$ Price	Schedule	Catalog No.	Lug Wire Range	\$ Price	Schedule
125	NFALV1■	one #4-300 kcmil	177.	PE-1A	NFCUM1	one #6-350 kcmil	347.	PE-1A	NFCUV1◆	one #6-1/0	345.	PE-1A
250	NFALV2	one 250-350 kcmil	333.		NFCUM2	one #6-350 kcmil			NFCUV2◆	one 2/0-300 kcmil	417.	
400	NFALV4	two 2/0-500 kcmil	1122.	PE-1A	NFCUM4	one 1/0-750 kcmil, two 1/0-350 kcmil	987.	PE-1A	NFCUV4	one 400-750 kcmil	767.	PE-1A
600	NFALV6	two 2/0-500 kcmil	1206.	PE-1A	NFCUM6	two 1/0-750 kcmil	2236.	PE-1A	NFCUV6	two 250-500 kcmil	1364.	PE-1A
800	Contact your Local Field Sales Office											

- ▲ Use copper wire only.
- Use of this kit requires an additional 6 in. added to box height.
- ◆ Use of this kit to terminate larger than standard wire size requires an additional 6 in. added to box height.

Table 9.54: NF Accessories

Description	Catalog No.	\$ Price	Schedule	Description	Catalog No.	\$ Price	Schedule
Aluminum Equipment Ground Bar	PK27GTA	33.80	DE-3A	Filler plate (15 per package)	NFFP15	113.00▲	PE-1A
Copper Equipment Ground Bar	PK27GTACU	84.00	PE-1A	EXB Fixed padlock attachment, Lock ON/OFF for ED, EG & EJ Circuit Breakers 1, 2, or 3 poles	EDPA	26.00	DE-2
Large Aluminum Lug for Equipment Ground Bar	PK23GTAL	40.70	DE-3A	EXB Fixed padlock attachment, Lock OFF only for ED, EG & EJ Circuit Breakers 1, 2, or 3 poles	EDPAF	30.00	DE-2
Equipment Ground Bar Insulator Kit	PKGTAB	43.80					
Circuit I.D. number strips				Oversized Lugs for Neutral or Ground Bar			
1-102 odd/even (left side numbered 1,3,5 ...101)	NF102OE	7.90	PE-1A	#10 to #2 Al or #14 to #4 Cu	QO70AN	9.90	DE-3A
103-204 odd/even (left side numbered 103,105,107 ... 203)	NF204OE			#4 to #1/0 Al or Cu	Q1100AN	11.10	
1-102 sequential (left side numbered 1,2,3 ... 102)	NF102S			#1 to #4/0 Al or Cu	Q1150AN	32.40	
103-204 sequential (left side numbered 103,104,105 ... 204)	NF204S			Drip Hood for 20 in. wide enclosures	MHT2DH20	315.00	PE-1A
Rail and Deadfront Extensions							
6 in. Extension	NF6RDE	252.00	PE-1A				
12 in. Extension	NF12RDE	284.00					
18 in. Extension	NF18RDE	344.00					

▲ Filler plates are \$7.50 each and must be ordered in packages of 15.

Table 9.55: E-frame—125 A, Thermal-magnetic (480Y/277 Vac)

Ampere Rating	ED, EG, EJ (480Y/277 Vac)		"D" Interrupting Level 18 kA @ 480Y/277 Vac		"G" Interrupting Level 35 kA @ 480Y/277 Vac		"J" Interrupting Level 65 kA @ 480Y/277 Vac		Terminal Wire Range
	Hold	Trip	Catalog Number	\$ Price	Catalog Number	\$ Price	Catalog Number	\$ Price	
1-pole, 277 Vac									
15	270	875	EDB14015	150.	EGB14015	255.	EJB14015	408.	AL30FD #14-#6 Al or Cu
20			EDB14020		EGB14020		EJB14020		
25			EDB14025		EGB14025		EJB14025		
30			EDB14030		EGB14030		EJB14030		
35	630	1800	EDB14035	150.	EGB14035	225.	EJB14035	408.	AL100FD #14-2/0 Al or Cu
40			EDB14040		EGB14040		EJB14040		
45			EDB14045		EGB14045		EJB14045		
50			EDB14050		EGB14050		EJB14050		
60			EDB14060		EGB14060		EJB14060		
70			EDB14070		EGB14070		EJB14070		
2-pole, 480Y/277 Vac									
15	270	875	EDB24015	536.	EGB24015	776.	EJB24015	1241.	AL30FD #14-#6 Al or Cu
20			EDB24020		EGB24020		EJB24020		
25			EDB24025		EGB24025		EJB24025		
30			EDB24030		EGB24030		EJB24030		
35	630	1800	EDB24035	536.	EGB24035	776.	EJB24035	1241.	AL100FD #14-2/0 Al or Cu
40			EDB24040		EGB24040		EJB24040		
45			EDB24045		EGB24045		EJB24045		
50			EDB24050		EGB24050		EJB24050		
60			EDB24060		EGB24060		EJB24060		
70			EDB24070		EGB24070		EJB24070		
80	1000	2300	EDB24080	756.	EGB24080	1280.	EJB24080	2135.	AL100FD #14-2/0 Al or Cu
90			EDB24090		EGB24090		EJB24090		
100			EDB24100		EGB24100		EJB24100		
110			EDB24110		EGB24110		EJB24110		
125			EDB24125		EGB24125		EJB24125		
3-pole, 480Y/277 Vac									
15	270	875	EDB34015	669.	EGB34015	1131.	EJB34015	1358.	AL30FD #14-#6 Al or Cu
20			EDB34020		EGB34020		EJB34020		
25			EDB34025		EGB34025		EJB34025		
30			EDB34030		EGB34030		EJB34030		
35	630	1800	EDB34035	669.	EGB34035	1131.	EJB34035	1358.	AL100FD #14-2/0 Al or Cu
40			EDB34040		EGB34040		EJB34040		
45			EDB34045		EGB34045		EJB34045		
50			EDB34050		EGB34050		EJB34050		
60			EDB34060		EGB34060		EJB34060		
70			EDB34070		EGB34070		EJB34070		
80	1000	2300	EDB34080	911.	EGB34080	1292.	EJB34080	2562.	AL100FD #14-2/0 Al or Cu
90			EDB34090		EGB34090		EJB34090		
100			EDB34100		EGB34100		EJB34100		
110			EDB34110		EGB34110		EJB34110		
125			EDB34125		EGB34125		EJB34125		
EPDs (Equipment Protection Devices), 1-pole, 277 Vac, Thermal-magnetic with 30 mA ground-fault protection*									
15	270	875	EDB14015EPD	1151.	EGB14015EPD	1256.	EJB14015EPD	1409.	#14-#6 Cu or #12-#4 Al
20			EDB14020EPD		EGB14020EPD		EJB14020EPD		
30			EDB14030EPD		EGB14030EPD		EJB14030EPD		
40	630	1800	EDB14040EPD	1151.	EGB14040EPD	1256.	EJB14040EPD	1409.	#14-#6 Cu or #12-#4 Al
50			EDB14050EPD		EGB14050EPD		EJB14050EPD		

Note: All EDB, EGB, and EJB circuit breakers are UL Listed as HACR Type. For 50 °C calibration, use a CA suffix. NF branch circuit breakers are fungus proof as standard.

- ▲ UL Listed as SWD (Switching duty rated).
- UL Listed as HID (High Intensity Discharge rated).
- ◆ UL Listed for use on 240 V Corner-grounded Delta Systems (Grounded B Phase). See: 2700DB0202.
- ★ All EPDs occupy two spaces, with or without Alarm Switch option. For alarm switch add 158 list Price and the suffix BA.



EDB-EPD
1-pole
with Alarm Switch



EDB, EGB, EJB
3-pole
15-125 Amperes



EDB, EGB, EJB
1-pole
15-70 Amperes



EDB, EGB, EJB
2-pole
15-125 Amperes

Table 9.56: Factory installed Electrical Accessories

Auxiliary Switch (1A/1B)	Alarm Switch (NO)	Coil Burden Max. (VA)	Minimum Recommended Supply Transformer (VA)
Monitors circuit breaker contact status and provides a remote signal indicating the circuit breaker contacts are OPEN or CLOSED.	Used with control circuits and is actuated only when the circuit breaker has tripped.	288	50
APPLICATION Max Load = 10 A @ 120 Vac 50/60 Hz Terminals for #14 AWG Cu wire	APPLICATION Max Load = 7 A @ 120 Vac 50/60 Hz Terminals for #14 AWG Cu wire.	Shunt Trip Trips the circuit breaker from a remote location by means of a coil energized from a separate circuit. A 120 V shunt trip will operate at 55% or more of rated voltage. APPLICATION For use with momentary or maintained push button. 120 Vac 50/60 Hz Terminals for #14 AWG Cu wire.	

Table 9.57: Factory Installed Electrical Accessory Packages for ED, EG, EJ Circuit Breakers

Accessory Package	Suffix	\$ Price
Auxiliary Switch/Alarm Switch Package▲	AABA	312.
Shunt Trip Package▲	SA	755.
Auxiliary Switch/Alarm	AABASA	1067.
Alarm Switch (N.O.) Package for EPDs only	BA	237.

- ▲ Accessory package takes an additional pole space.
- Not available for EPD.

Table 9.58: Terminal Nut Insert Kit

Circuit Breaker Type	Qty. per Kit	Catalog No.	\$ Price
ED, EG, EJ	3	TIKFD	17.40

Table 9.59: Handle Accessories

Circuit Breaker Type	No. of Poles	Catalog No.	\$ Price
EXB Fixed Padlock Attachment, Lock ON/OFF			
ED, EG, EJ	1, 2, or 3	EDPA	39.00
EXB Fixed padlock attachment, Lock OFF only			
ED, EG, EJ	1, 2, or 3	EDPAF	45.00
EXB Removable padlock attachment, Lock OFF only			
ED, EG, EJ	1, 2, or 3	HPAFD	25.50
EXB Handle Ties			
ED, EG, EJ	Ties 2 - 1P	EGB2HT	16.80
	Ties 3 - 1P	EGB3HT	17.85

Table 9.60: Interrupt Ratings (kA)

	EDB	EGB	EJB
120 V	25	65	100
240 V	18 (1P), 25	35 (1P), 65	65 (1P), 100
480Y/277 V	18	35	65

Table 9.61: Mechanical Lug Kit Information (Al lugs for use with Al or Cu wire)

Standard	Circuit Breaker Application		Number of Wires Per Lug and Wire Range	Catalog Number	Lugs Per Kit	\$ price Per Kit
	Ampere Rating	Optional				
EDB, EGB, EJB	15-30	—	one #12-#6 AWG Al or one #14-#6 AWG Cu	AL30FD	3	41.30
	35-125	EDB, EGB, EJB	one #12-2/0 AWG Al or one #14-2/0 AWG Cu	AL100FD	3	
—	—	EDB, EGB, EJB	one #14-1/0 AWG Cu	CU100FD	3	

▲ Factory installed only. Use suffix "LH"

Dimensionspages starting on 7-55

**NQ Single-Row (Column-width)—240 Vac Bolt-on
(60 A Max. Branch Circuit Breaker)**

NQ Application Data

Application: For use on ac only. Meet Federal Specification W-P-115c, Type 1, Class 1. UL Listed.

Service: 1Ø3W, 3Ø3W, 3Ø4W, 3 Grd. "B" Ø—240 Vac max.

AIR: See tables starting on page 7-2.

Mains: Type NQ—Bolt-on main lugs: 100 A, 225 A

- Main circuit breaker: 100 A—QOU, 225 A—QB
- See tables starting page 7-2 for main circuit breaker interrupt ratings. See catalog for terminal lug data.
- Main circuit breakers with higher interrupt ratings are available as factory assembled panelboards.

Branches: Bolt-on QOB, 60 A maximum. QOB 10-60 A 1-, 2- and 3-pole. See page 9-10 for branch circuit breaker terminal data. QOB-VH and QHB branch circuit breakers are also available as factory assembled.

Cabinet: Front—Screw cover. Box—galvanized steel with removable endwalls.

Gutters:

- 100 A—4 in. min. mains end, 3 in. min. opposite mains
- 225 A—10 in. min. mains end, 5 in. min. opposite mains

Table 9.62: NQ Single-Row (Column-width)—240 Vac Bolt-on ▲

Max. No. of Poles	Mains Rating	Total \$ Price (Box Interior and Front)	Box and Interior with Solid Neutral 8.625 in. W. x 5 in. D. (Order branch circuit breakers separately)			Front (Surface Mount)	
			Catalog Number	\$ Price	Box Ht.	Catalog Number	\$ Price
1 Phase 3-Wire Main Lugs Only							
30	225	1669.	NQ830L2C	1298.	45	LX45TS	371.
Main Circuit Breaker—2-pole							
20	100	1818.	NQ820B1C	1452.	40	LX40TS	366.
3 Phase 4-Wire Main Lugs Only							
30	100	1608.	NQ8430L1C	1242.	40	LX40TS	366.
42	225	1938.	NQ8442L2C	1458.	58	LX58TS	480.
Main Circuit Breaker—3-pole							
30	100	2363.	NQ8430B1C	1992.	45	LX45TS	371.
42	225	4961.	NQ8442B2C	4416.	62	LX62TS	545.

▲ 60 A Maximum Branch—Copper Bus Standard.

Table 9.63: Cable Troughs and Pull Boxes

Cable Troughs (L=Length) ▲			Pull Boxes with Solid Neutral		
L (in.)	8.625 in. x 5 in. Catalog Number	\$ Price	S/N Terminals	Catalog Number	\$ Price
36	MTX836	590.	42	MPX81542	479.
48	MTX848	651.			
56	MTX856	753.			
66	MTX866	753.			

▲ Cable troughs are standard with a trough barrier.

**NF Single-Row (Column-width)—480Y/277 Vac Bolt-on
(60 A Max. Branch Circuit Breaker)**

NF Application Data

Application: For use on ac only. Meet Federal Specification W-P-115c, Type 1, Class 1. UL Listed.

Service: 480Y/277 Vac, 3Ø4W

AIR: See tables starting on page 7-2

Mains: Type NF—Bolt-on main lugs: 125 A, 225 A

- Main circuit breaker: 100 A—FA, 100 A—HD, 225 A—JD. See tables starting on page 7-2 for main circuit breaker interrupt rating. See catalog section for terminal lug data.
- Main circuit breakers with higher interrupt ratings are available as factory assembled panelboards.

Branches: EDB, EDG or EDJ, 60 A maximum. See pages 9-15 for branch circuit breaker catalog numbers, List Prices and terminal data.

Cabinet: Front—Screw cover. Box—galvanized steel with removable endwalls.

Gutters:

- 100 A—4 in. min. mains end, 3 in. min. opposite mains
- 225 A—10 in. min. mains end, 5 in. min. opposite mains

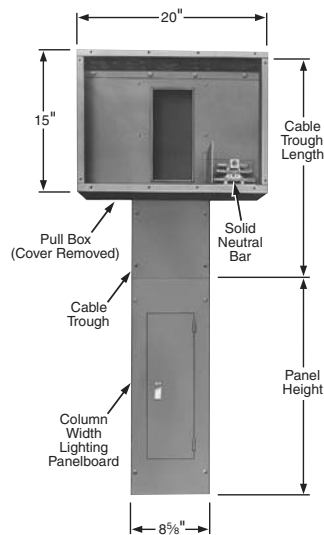
Table 9.64: NF Single-Row (Column-width)—480Y/277 Vac Bolt-on

Max. No. of Poles	Mains Rating	Total \$ Price (Box Interior and Front)	Box and Interior with S/N 8.625 in. W. x 5.625 in. D.			Front (Surface Mount)	
			Catalog Number	\$ Price	Box Ht.	Catalog Number	\$ Price
Main Lugs Only—3 Phase 4-Wire							
30	125	2410.	NF8430L1C	2009.	59	NC59TS	401.
42	225	3281.	NF8442L2C	2759.	71	NC71TS	522.
Main Circuit Breaker—3-pole							
30	100	3767.	NF8430M1C	3246.	65	NC65TS	521.
			NF8430M1HDC				
42	225	6660.	NF8442M2JDC	6042.	85	NC85TS	618.

Table 9.65: Cable Troughs and Pull Boxes

Cable Troughs (L=Length) ▲			Pull Boxes with Solid Neutral		
L (in.)	8.625 in. x 5.625 in. Catalog Number ■	\$ Price	S/N Terminals	Catalog Number	\$ Price
36	NTX836	590.	42	MPX81542	479.
48	NTX848	651.			
56	NTX856	753.			
66	NTX866	753.			

- ▲ Cable troughs are standard with a trough barrier.
- Box width = 8.625 in., width at front, including flange, is 9.625 in..



NQ Single Row (Column-Width)—240 Vac Bolt-On Factory Assembled Pricing

Table 9.66: Base \$ Price (With Solid Neutral)

Mains Rating	Main Lugs		Main Circuit Breaker (Circuit Breaker Interrupt Rating — Pages 7-2 through 7-5)					
	2-Pole	3-Pole	Circuit Breaker	2-Pole	3-Pole	Circuit Breaker	2-Pole	3-Pole
100 A	720.	832.	QOB	1254.	1562.	—	—	—
			QB	—	2800.	—	—	—
			QD	—	3434.	QG	—	4090.
225 A	772.	912.	QB	—	2800.	—	—	—
			QD	—	3434.	QG	—	4090.

Note: Copper bus—standard.
Equipment Ground Bar \$ Price adder—\$38.00.
Copper Equipment Ground Bar (Add to Equipment Ground Bar \$ Price) \$ Price adder—\$52.00.

Table 9.67: Branch Circuit Breakers—\$ Price Per Circuit Breaker

Circuit Breaker Ampere Rating	BOLT-ON			
	1-Pole 120 Vac	2-Pole 120/240 Vac	2-Pole 240 Vac	3-Pole 240 Vac
	\$ Price	\$ Price	\$ Price	\$ Price
Space Only				
All Space Only Except Below	28.	58.	58.	86.
10,000 AIR—Branch Circuit Breakers—QOB, QOB-H				
15-60	68.	134.	260.	352.
10,000 AIR—QWIK-GUARD®—Class A—QOB-GFI				
15-30	272.	488.	—	—
40-60	—	488.	—	—
Specialty Branch Circuit Breakers (10,000 AIR)				
For High Intensity Discharge Lighting—QO-HID, QOB-HID				
15-30	78.	148.	—	376.
40-50	78.	148.	—	—
High Magnetic Trip (For applications subject to high initial inrush)—QO-HM, QOB-HM				
15-20	68.	—	—	—
Provides 30 mA Equipment Protection—QO-EPD, QOB-EPD				
15-30	462.	828.	—	—
(High Interrupting Capacity)				
22,000 AIR Branch Circuit Breakers—QO-VH, QOB-VH				
15-30	92.	212.	—	462.
35-60	—	212.	—	462.
22,000 AIR—QWIK-GUARD®—Class A—QO-VHGFI, QOB-VHGFI				
15-30	294.	—	—	—

NF Single Row (Column-Width)—480Y/277 Vac 3Ø4W Bolt-on Factory Assembly Pricing

Table 9.68: Base \$ Price (Including Solid Neutral)

Mains Rating	Main Lugs		Main Circuit Breaker (Circuit Breaker Interrupt Rating —Pages 7-3 through 7-4)											
			Standard IC			HIC			Extra HIC			I-LIMITER®		
	2-Pole	3-Pole	Circuit Breaker	2-Pole	3-Pole	Circuit Breaker	2-Pole	3-Pole	Circuit Breaker	2-Pole	3-Pole	Circuit Breaker	2-Pole	3-Pole
100 A	—	1074.	FA	—	2184.	FH	—	3044.	—	—	—	—	—	—
125 A	—		HD	—	2842.	HG	—	3792.	HJ	—	4374.	FI	—	7392.
150 A	—	1272.	HD	—	3222.	HG	—	4172.	HJ	—	4754.	KI	—	13150.
225 A	—		JD	—	4784.	JG	—	5982.	JJ	—	8902.	KI	—	13150.

Note: Copper bus—standard.
Copper Neutral \$ Price adder—\$132.00.
Equipment Ground Bar \$ Price adder—\$38.00.
Copper Equipment Ground Bar (Add to Equipment Ground Bar \$ Price) \$ Price adder—\$52.00.

Table 9.69: Branch Circuit Breakers—\$ Price Per Circuit Breaker

Circuit Breaker Ampere Rating	Standard Interrupting 25,000 AIR @ 240 Vac, 18,000 AIR @ 480Y/277 Vac ED Bolt-on Branch			High Interrupting 65,000 AIR @ 240 Vac, 35,000 AIR @ 480Y/277 Vac EG Bolt-on Branch			Extra High Interrupting 100,000 AIR @ 65,000 AIR @ 480Y/277 Vac EJ Bolt-on Branch		
	1-Pole \$ Price	2-Pole \$ Price	3-Pole \$ Price	1-Pole \$ Price	2-Pole \$ Price	3-Pole \$ Price	1-Pole \$ Price	2-Pole \$ Price	3-Pole \$ Price
15-60 A	192.	442.	748.	324.	746.	1264.	518.	1196.	2024.
Space Only	42.	84.	126.	42.	84.	126.	42.	84.	126.

Table 9.70: EDB-EPD Equipment Protection Device Branch Circuit Breakers

Circuit Breaker Ampere Rating	Standard Interrupting 25,000 AIR @ 240 Vac, 18,000 AIR @ 480Y/277 Vac ED Bolt-on Branch			High Interrupting 65,000 AIR @ 240 Vac, 35,000 AIR @ 480Y/277 Vac EG Bolt-on Branch			Extra High Interrupting 100,000 AIR @ 65,000 AIR @ 480Y/277 Vac EJ Bolt-on Branch		
	1-Pole \$ Price	2-Pole \$ Price	3-Pole \$ Price	1-Pole \$ Price	2-Pole \$ Price	3-Pole \$ Price	1-Pole \$ Price	2-Pole \$ Price	3-Pole \$ Price
15-60 A	1472.	—	—	1596.	—	—	1788.	—	—

Factory Assembled Pricing

▲ Use I-LINE Panelboards on 480 V 3Ø3W DELTA applications.

Table 9.71: Base \$ Price (including solid neutral)

Mains Rating	Main Lugs		Main Circuit Breaker (Circuit Breaker Interrupt Rating—7-2 through 7-8) ▲ ■											
			Standard IC			HIC			Extra HIC			I-LIMITER®		
	2-pole	3-pole	Circuit Breaker	2-pole	3-pole	Circuit Breaker	2-pole	3-pole	Circuit Breaker	2-pole	3-pole	Circuit Breaker	2-pole	3-pole
100 A	—	—	ED ♦	1636.	1882.	EG ♦	2100.	2416.	—	—	—	—	—	—
100 A	—	—	—	—	—	—	—	—	HJ	3248.	3598.	FI	4250.	4884.
125 A	846.	972.	ED ♦	3372.	3762.	EG ♦	4324.	4976.	—	—	—	—	—	—
150 A	—	—	HD	3270.	3620.	HG	4048.	4398.	HJ	4070.	4420.	—	—	—
225 A ★	—	—	JD	4120.	4380.	JG	5070.	5400.	JJ	6620.	7330.	KI	7266.	8352.
250 A ★	1002	1152.	JD	4500.	5140.	JG	6180.	6180.	JJ	7190.	8450.	KI	9154.	10522.
400 A ★	1326.	1524.	LA	5330.	6126.	LH	7712.	8864.	LC	8506.	9776.	LI	9350.	10746.
600 A ★▼	2366.	2622.	—	—	—	—	—	—	LC	9554.	10884.	LI	13640.	15678.
800 A ▼	3550.	3900.	—	—	—	—	—	—	—	—	—	—	—	—

- ▲ HL and JL frame circuit breakers are also available as main circuit breakers.
- Contact the Square D/Schneider Electric local Field Sales Office for Micrologic® trip main circuit breaker pricing.
- ♦ Back-fed main circuit breaker.
- ★ Prices are for 54 ckt and less. Consult the Product Selector for 66 and 84 ckt interior pricing.
- ▼ Copper bus only.

Table 9.72: Branch Circuit Breakers—\$ Price per circuit breaker

Circuit Breaker Ampere Rating	Standard Interrupting 25,000 AIR @ 240 Vac, 18,000 AIR @ 480Y/277 Vac ED Bolt-on Branch			High Interrupting 65,000 AIR @ 240 Vac, 35,000 AIR @ 480Y/277 Vac EG Bolt-on Branch			Extra High Interrupting 100,000 AIR @ 240 Vac, 65,000 AIR @ 480Y/277 Vac EJ Bolt-on Branch		
	1-pole \$ Price	2-pole \$ Price	3-pole \$ Price	1-pole \$ Price	2-pole \$ Price	3-pole \$ Price	1-pole \$ Price	2-pole \$ Price	3-pole \$ Price
15–60 A	192.	442.	748.	324.	746.	1264.	518.	1196.	2024.
70 A	342.	872.	1046.	578.	1474.	1710.	924.	2120.	2540.
80–100 A	—	872.	1046.	—	1474.	1710.	—	2120.	2540.
110–125 A	—	2210.	2724.	—	4114.	4754.	—	5300.	6300.
Space Only	42.	84.	126.	42.	84.	126.	42.	84.	126.

Note: All ED, EG and EJ branch circuit breakers are UL Listed as HACR type.

Table 9.73: EDB-EPD Equipment Protection Device Branch Circuit Breakers ▲ ■

Circuit Breaker Ampere Rating	Standard Interrupting 25,000 AIR @ 240 Vac, 18,000 AIR @ 480Y/277 Vac ED Bolt-on Branch			High Interrupting 65,000 AIR @ 240 Vac, 35,000 AIR @ 480Y/277 Vac EG Bolt-on Branch			Extra High Interrupting 100,000 AIR @ 240 Vac, 65,000 AIR @ 480Y/277 Vac EJ Bolt-on Branch		
	1-pole \$ Price	2-pole \$ Price	3-pole \$ Price	1-pole \$ Price	2-pole \$ Price	3-pole \$ Price	1-pole \$ Price	2-pole \$ Price	3-pole \$ Price
15–60 A	1472.	—	—	1596.	—	—	1788.	—	—

- ▲ All 1-pole EDB-EPD branches use 2 poles of mounting space.
- For bell alarm in EDB-EPD branch breaker, add 158. to branch breaker price.

Sub-feed Circuit Breaker

Available on 1Ø or 3Ø, 125–800 A main lugs or 125–600 A main circuit breaker interiors

- One sub-feed HD, HG, HJ or HL or JD, JG, JJ or JL circuit breaker per 250 A panelboard
- Two sub-feed HD, HG, HJ or HL or two JD, JG, JJ or JL circuit breakers per 400 A panelboard (do not mix H & J in a Panel)
- One sub-feed LA, LH or LC circuit breaker (400 A max.) and one JD, JG, JJ or JL circuit breaker or two sub-feed JD, JG, JJ or JL circuit breakers per 600 A or 800 A panelboard (JJ and LC sub-feed circuit breakers cannot be used together).

Table 9.74: Sub-feed Circuit Breaker (150–400 A)

No. of Poles	HD	HG	JD	JG	LA	LH	LC ▲	Space
2	2456.	3500.	3020.	4220.	3980.	5534.	8634.	826.
3	2872.	3798.	3370.	5100.	4916.	6510.	10156.	826.

▲ JJ and LC sub-feed circuit breakers cannot be used together.

Table 9.75: Sub-feed Circuit Breaker Cabinet Data

Max. No. of Branch Spaces (Does not include sub-feed circuit breaker spaces)	Box Height (20 in. W x 5.75 in. D)							
	250 A		400 A LA/LH		600 A		800 A	
	Main Lugs	Main Breaker	Main Lugs	Main Breaker	Main Lugs ▲	Main Breaker ■	Main Lugs ♦	
30	56	68	68	80	68	80★	68	
42	62	74	80	86	80	86★	74	
54	68	80	80	92	80	92★	80	
66	80				N/A			
84					N/A			

- ▲ 600 A main lug panelboards require a 8.75 in. deep box.
- 600 A main circuit breaker panelboards require an 8 in. deep, 26 in. wide box.
- ♦ 800 A main lug panelboards require an 8.75 in. deep, 26 in. wide box.
- ★ Dimensions also for 400 A LC/LI main circuit breaker panels.

**Table 9.76: Sub-feed (Double) Lugs
(Standard Aluminum Mechanical Lugs)**

An additional mains end termination point that can be used to feed out to another panelboard or device from the incoming service lines.

NOTE: Available on main lug interiors only.

Mains Rating	Sub-feed Wire Range Wire Bending Space per NEC Table 373-6	\$ Price
125 A	two #6-2/0 Al or Cu	128.
250 A	two 1/0-350 kcmil Al or Cu	128.
400 A	one 1/0-600 kcmil Cu	344.
600 A	(4) 4/0-500 kcmil Al or Cu	344.
800 A	(6) 3/0-500 kcmil Al or Cu	522.

**Table 9.77: Sub-feed Lug Cabinet Data
(Standard Aluminum Mechanical Lugs)**

Max. No. of Branch Spaces	Main Lugs Box Height (20 in. W x 5.75 in. D)				
	125 A	250 A	400 A	600 A	800 A ▲
12	26	—	—	—	—
18	26	—	—	—	—
30	32	38	50	74	74
42	—	44	56	80	80
54	—	50	62	86	86

▲ 800 A main lug panelboards require a 26 in. wide box.

**Table 9.78: Feed-through Lugs
(Standard Aluminum Mechanical Lugs)**

A second set of lugs assembled at the opposite end from the mains of the panelboard. Often used to connect another panelboard or device to the incoming lines. Available on main lugs and main circuit breaker panelboards.

Mains Rating	Feed-through Wire Range Wire Bending Space per NEC Table 373-6	\$ Price
125 A	one #6-2/0 kcmil Al or Cu	344.
250 A	one #6-350 kcmil Al or Cu	344.
400 A	one 1/0-750 kcmil or two 1/0-350 kcmil Al or Cu	826.
600 A	two 1/0-600 kcmil Al or Cu	826.

**Table 9.79: Feed-through Lug Cabinet Data
(Standard Aluminum Mechanical Lugs)**

Max. No. of Branch Spaces	Box Height (20 in. W x 5.75 in. D)										
	125 A		100/125 A		250 A		400 A LA/LH		600 A		800 A
	Main Breaker (Back-fed only)	Main Lugs	Main Breaker	Main Lugs	Main Breaker	Main Lugs	Main Breaker	Main Lugs	Main Breaker	Main Lugs	
12	—	32	44	—	—	—	—	—	—	—	—
18	38	32	44	—	—	—	—	—	—	—	—
30	44	38	50	50	62	56	68	56	68	56	56
42	50	—	—	56	68	62	74	62	74	62	62
54	—	—	—	62	74	68	80	68	80	68	68

▲ 600 A main lug panelboards require a 26 in. wide box.
◆ 600 A main circuit breaker panelboards require an 8 in. deep, 26 in. wide box.
◆ 800 A main lug panelboards require an 8.75 in. deep, 26 in. wide box.

Table 9.80: Ground Bars

Ground Bars	\$ Price Adder
Equipment Ground Bar	38.
Copper Ground Bar (Add to Equipment Ground Bar Price)	52.
Insulated/Isolated Ground Bar (Add to Equipment Ground Bar Price)	86.

Table 9.81: Name Plates

Name Plates	\$ Price Adder
Standard white face/black letter laminated bakelite, 1 in. x 3.5 in., adhesive backed or screw mountable with screws in a bag assembly (Price includes engraving)	78.

Table 9.82: Copper Bus Bars

Copper Bus Bars	\$ Price Adder
100 A, 250 A	458.
400 A	624.
600 A, 800 A	Standard

Table 9.83: Copper Neutral

Copper Neutral	\$ Price Adder
100-600 A	132.
800 A	176.

Table 9.84: 200% Rated Neutrals

Panelboards with 200% rated neutrals are available with sub-feed lugs, feed-through lugs, and main circuit breakers	Add Per Panel \$ Price
250 A	769.
400 A	950.
600 A	1262.
800 A	1894.

**Table 9.85: NF Main Neutral Conductors—
Required Size and Quantity**

Panelboard Ampacity	Neutral Conductors Required ■	Actual Lug Wire Range
125	(2) 1/0 Cu or (2) 1/0 Al	(2) #6-2/0
250	(2) 4/0 Cu or (2) 300 kcmil Al	(2) #6-350 kcmil
400 A	(4) 250 kcmil Al or (4) 3/0 Cu or (2) 600 kcmil Al	(2) 1/0-300 kcmil or (1) 1/0-750 kcmil
600	(4) 500 kcmil Al or (4) 350 kcmil Cu	(2) 1/0-750 kcmil

Note: Neutral conductors must be of size and quantity per table above.

Table 9.86: Metal Directory Frame

Metal Directory Frame	\$ Price Adder
Not available with LC/LI main circuit breaker (Replaces standard plastic stick-on directory pouch)	140.

Table 9.87: Hinged Door-in-Door Trim

Hinged Door-in-Door Trim	Add Per Panel \$ Price
Hinged Door-in-Door Trim has piano hinge down one side. Inner door has a lock, outer door is retained with screws	646.
Hinged Door-in-Door with Outer Door Lock in place of screws	836.

**Table 9.88: Weatherproof or Dusttight Cabinets
(Type 3R, 5, 12)**

Weatherproof or Dusttight Cabinets—Type 3R, 5, 12	\$ Price Adder
(Not available with panelboards having LC/LE/LI/LX/LXI main circuit breakers)	1516.

**Table 9.89: Optional Factory Assembled Lugs for
Main Lug Interiors**

Main Lug Interiors:	Price Per Pole Adder				
	100 A	225 A	400 A	600 A	800 A
Aluminum Compression Lugs	58.	58.	90.	118.	200.
Copper Mechanical Lugs	70.	108.	148.	168.	196.
Copper Compression Lugs	70.	108.	148.	168.	316.

**Table 9.90: Optional Factory Assembled Lugs for
Main Circuit Breaker Interiors**

Main Circuit Breaker Interiors:	Price Per Pole Adder			
	H Frame	J Frame	LA Frame	LC Frame
Aluminum Compression Lugs	59.	98.	128.	262.
Copper Mechanical Lugs	70.	108.	148.	168.
Copper Compression Lugs	70.	108.	148.	168.

Table 9.91: SURGELOGIC® Hard Bus TVSS—Model IMA ▲

Surge Current Rating kA	Voltage			
	120/240 V 1Ø3W	208Y/120 V 3Ø4W	240/120 V 3Ø4W High Leg	480Y/277 V 3Ø4W
100	12110.	14310.	14310.	15410.
120	13454.	15654.	15654.	16754.
160	16386.	18586.	18586.	19686.
200	19196.	23596.	23596.	26896.
240	23760.	27440.	27440.	31460.

▲ Panelboard box height with TVSS unit—Contact the Square D/Schneider Electric local Field Sales Office.

Table 9.92: Surgelogic TVSS Options

Surgelogic TVSS Options	\$ Price
Surge Counter	1650.
Dry Contacts	Standard
Remote Monitor	2588.

NOTE: Additional factory modifications, see 9-37.

I-Line Merchandised Pricing Procedure

1. Select the appropriate branch circuit breakers and accessories based on the required ampacity and AIR ratings from pages 9-24 through 9-30.
2. Determine the total mounting inches required by the branch circuit breakers. Pay close attention to the interior types and any branch mounting restrictions by referring to panel layouts on pages 9-21 and 9-22. i.e. Larger frame circuit breakers may mount in only one side of the panel due to physical sizes. Therefore, for larger size branches, you may only be able to consider one half of the total mounting inches available.
3. Select proper main lug interior or main circuit breaker interior from page 9-21 or 9-22 based on the mains ampacity and branch requirements from step 2.
4. Select blanks from the Accessories table on 9-23 as required to cover unused mounting space.
5. Select appropriate box and front from 9-21 or 9-22 to accommodate panel interior selected in step 3.
6. Apply appropriate discount schedule.

Table 9.93: I-Line Merchandised Pricing Example

600 Vac, 3Ø3W, 400 A, MLO, 14k AIR, Type 1 enclosure, 4 piece surface trim without door.

Description	Catalog No.	Digest Page No.	\$ Price
400 Amp MLO Interior	HCM32734	9-21	2408.
4 Piece Surface Trim Without Door	HCM73TS	9-21	699.
Type 1 Enclosure	HC3273B	9-21	243.
(8) 60/3	FA36060	9-25	7764.
one 100/2	FA26100AC	9-25	947.
one 4.5 in. Blanks	HNM4BL	9-23	126.
one 1.5 in. Blank	HNM1BL	9-23	44.
Total \$ Price:			12231.

I-Line Factory Assembled Pricing Procedure

1. Select price for main lugs or main circuit breaker from Base Price tables on 9-31. Include solid neutral and ground bar when required.
2. List branch circuit breakers and determine total mounting inches required. Include space only charge and mounting inches as required. Price branches from 9-32.
3. If total space required exceeds the maximum listed, price as two or more panels and add price for sub-feed lugs, so installer can cable between sections.
4. Add price for special features from 9-33.
5. For complete price, total all prices. Order panel by description.
6. Apply appropriate discount schedule.

Table 9.94: I-LINE Factory Assembled Pricing Example

600 Vac, 3Ø3W, 400 A, MLO, 14k AIR, Type 1 enclosure, 4 piece surface trim without door.

Description	Digest Page No.	\$ Price
400 A MLO Base Price	9-31	2799.
(8) 60/3	9-32	12072.
one 100/2	9-32	1446.
(3) 250/3	9-32	17100.
Total \$ Price:		33417.

QMB Factory Assembled

QMB Panelboards — Method of Pricing

1. Make a sketch with main lugs or main switch at the top or bottom.
2. List required branch devices (switches and circuit breaker units). Include ampere rating, number of poles and unit mounting height from the appropriate table on pages 9-34 and 9-35.
3. 30–60 twin units are the same price as 600 V 60–60 twin units.
4. 30–100 and 60–100 twin units are the same price as 600 V 100–100 twin units.
5. List solid neutral from 9-35 if required. No unit mounting height is required.
6. List mains ampere rating, voltage, number of poles and unit mounting space from the appropriate table on 9-35.
7. If total unit mounting height of branch devices exceeds maximum mounting space of the mains, price as two or more panelboards, adding sub-feed lugs or feed-thru lugs from the appropriate table on 9-35.
8. Insert at the right of each item the price from the appropriate table, including any accessories. The sum will be the complete panelboard price including the cabinet.
9. Specify H, R or J fuse clips.

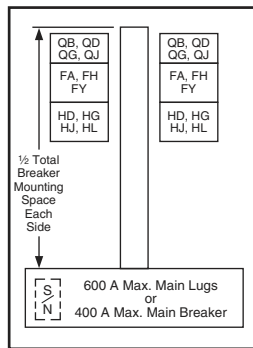
Table 9.95: QMB Factory Assembled Pricing Example

600 Vac, 3Ø3W, 400 A, Fusible 10k AIR, Type 1 Enclosure

Branches	Digest Page No.	\$ Price
400 A MLO Base Price	9-35	2016.
(4) 60/3	9-35	4338.
one 100/3	9-35	3411.
one 30/3	—	—
Total \$ Price:		9765.

TYPE HCN

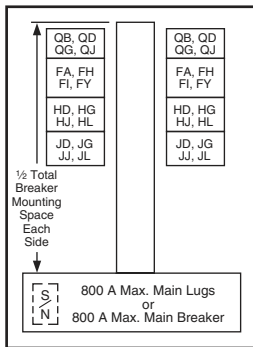
225 A max. (240 V max.) branch circuit breaker QB, QD, QG, QJ
150 A max. branch circuit breaker FA, FH, FY, HD, HG, HJ, HL *



Box Size:
26 in. Wide, 6.5 in. Deep

TYPE HCM

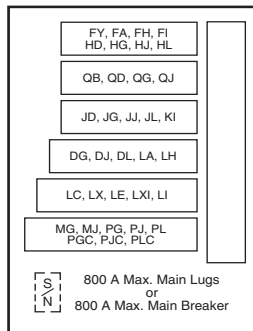
250 A max. branch circuit breaker
FA, FH, FY, FI, QB, QD, QG, QJ, HD, HG, HJ, HL, JD, JG, JJ, JL



Box Size:
32 in. Wide, 8.25 in. Deep

TYPE HCP-SU

800 A max. main circuit breaker
600 A max. branch circuit breaker
DG, DJ, DL, FY, FA, FH, FI, KI, LA, LH, LC, LX, LI, LXI, LE, MG, MJ, PG, PJ, PL, PGC, PJC, PLC, QB, QD, QG, QJ, HD, HG, HJ, HL, JD, JG, JJ, JL



Box Size:
26 in. Wide, 9.5 in. Deep

Table 9.96: Interiors, Boxes and Fronts

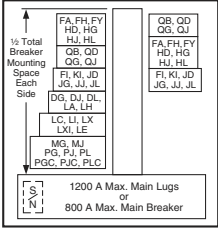
(100 A and 225 A interiors include solid neutral, all others without solid neutral. Order solid neutral from 9-23)

Total Circuit Breaker Mounting Space (in.)	Mains Amperes Rating	Complete Surface \$ Price (4 Piece Trim) (Less Branch Circuit Breakers)		Front ▲				Box ◆				Box Height (in.)		
		Type 1 \$ Price	Type 3R/5/12 \$ Price	Interior Assembly (Less Branch Circuit Breakers)		4 Piece Trim Without Door ■		Trim With Door		Type 1			NEMA 3R/5/12* (Includes Front)	
				Catalog Number	\$ Price	Catalog Number	\$ Price	Catalog Number	\$ Price	Catalog Number	\$ Price		Catalog Number	\$ Price
HCN Main Lugs Only														
3-pole—Suitable for use as service equipment when provided with a main circuit breaker. ☆														
27	225	2171.	4004.	HCN14522N	1593.									
	400	2195.	4028.	HCN14524	1617.	HCN52T()	335.	HCN52T()D	411.	HC2652B	243.	HC2652WP	2411.	
	600	2392.	4225.	HCN14526	1814.									
45	225	2674.	4402.	HCN23652N	1991.									
	400	2702.	4430.	HCN23654	2019.	HCN65T()	440.	HCN65T()D	530.	HC2665B	243.	HC2665WP	2411.	
	600	2960.	4688.	HCN23656	2277.									
63	225	3135.	4709.	HCN32742N	2298.									
	400	3156.	4730.	HCN32744	2319.	HCN74T()	594.	HCN74T()D	717.	HC2674B	243.	HC2674WP	2411.	
	600	3396.	4970.	HCN32746	2559.									
81	225	3548.	6233.	HCN41832N	2552.									
	400	3564.	6249.	HCN41834	2568.	HCN83T()	753.	HCN83T()D	890.	HC2683B	243.	HC2683WP	3681.	
	600	3824.	6509.	HCN41836	2828.									
99	225	4175.	6767.	HCN50922N	3086.									
	400	4341.	6933.	HCN50924	3252.	HCN92T()	846.	HCN92T()D	1001.	HC2692B	243.	HC2692WP	3681.	
	600	4434.	7026.	HCN50926	3345.									
HCN Main Circuit Breaker ▼														
Includes 3-pole, vertically mounted main circuit breaker—Suitable for use as service equipment														
18	100	3371.	5204.	HCN09521MN	2793.									
	225	4892.	6725.	HCN09522MN	4314.	HCN52T()	335.	HCN52T()D	411.	HC2652B	243.	HC2652WP	2411.	
27	400	6649.	8377.	HCN14654M	5966.									
	100	3860.	5588.	HCN18651MN	3177.	HCN65T()	440.	HCN65T()D	530.	HC2665B	243.	HC2665WP	2411.	
36	225	5303.	7031.	HCN18652MN	4620.									
45	400	7287.	8861.	HCN23744M	6450.									
	100	4323.	5897.	HCN27741MN	3486.	HCN74T()	594.	HCN74T()D	717.	HC2674B	243.	HC2674WP	2411.	
54	225	5759.	7333.	HCN27742MN	4922.									
63	225	6068.	8753.	HCN32832MN	5072.									
	400	7836.	10521.	HCN32834M	6840.	HCN83T()	753.	HCN83T()D	890.	HC2683B	243.	HC2683WP	3681.	
81	400	8154.	10746.	HCN41924M	7065.									
90	225	6590.	9182.	HCN45922M	5501.	HCN92T()	846.	HCN92T()D	1001.	HC2692B	243.	HC2692WP	3681.	
HCM Main Lugs Only														
3-pole—Suitable for use as service equipment when provided with a main circuit breaker. ☆														
27	225	2279.	4566.	HCM14482N	1644.									
	400	2404.	4691.	HCM14484	1769.	HCN48T()	392.	HCM48T()D	483.	HC3248B	243.	HC3248WP	2922.	
	600	3175.	5462.	HCM14486	2540.									
	800	3709.	5996.	HCM14488	3074.									
45	225	2795.	5717.	HCM23642N	2036.									
	400	2891.	5813.	HCM23644	2132.	HCN64T()	516.	HCM64T()D	633.	HC3264B	243.	HC3264WP	3681.	
	600	3530.	6452.	HCM23646	2771.									
	800	4041.	6963.	HCM23648	3282.									
63	225	3263.	6002.	HCM32732N	2321.									
	400	3350.	6089.	HCM32734	2408.	HCN73T()	699.	HCM73T()D	864.	HC3273B	243.	HC3273WP	3681.	
	600	3921.	6660.	HCM32736	2979.									
	800	4644.	7383.	HCM32738	3702.									
99	225	4205.	7918.	HCM50912N	2966.									
	400	4281.	7994.	HCM50914	3042.	HCN91T()	996.	HCM91T()D	1217.	HC3291B	243.	HC3291WP	4952.	
	600	4586.	8299.	HCM50916	3347.									
	800	5321.	9034.	HCM50918	4082.									
HCM Main Circuit Breaker ▼														
Includes 3-pole, vertically mounted main circuit breaker—Suitable for use as service equipment.														
27	400	7563.	10485.	HCM14644M	6804.									
	225	5582.	8504.	HCM18642MN	4823.	HCN64T()	516.	HCM64T()D	633.	HC3264B	243.	HC3264WP	3681.	
36	600	11648.	10706.	HCM18736MP	10706.									
	800	14549.	13607.	HCM18738MP	13607.	HCN73T()	699.	HCM73T()D	864.	HC3273DB9◆	243.	Use HCP	—	
45	400	8007.	10746.	HCM23734M	7065.									
54	225	5969.	8708.	HCM27732MN	5027.	HCN73T()	699.	HCM73T()D	864.	HC3273B	243.	HC3273WP	3681.	
72	600	12377.	11138.	HCM36916MP	11138.									
	800	15431.	14192.	HCM36918MP	14192.	HCN91T()	996.	HCM91T()D	1217.	HC3291DB9◆	243.	Use HCP	—	
81	400	9315.	13028.	HCM41914M	8076.	HCN91T()	996.	HCM91T()D	1217.	HC3291B	243.	HC3291WP	4952.	
HCP-SU □ Universal Single Row Main Lugs or Main Circuit Breaker														
3-pole—Suitable for use as service equipment when provided with a main circuit breaker. ☆														
54	800	5858.	9466.	HCP54868SU	4514.	HC2686T()4P	1101.	HC2686T()JHR△	1658.	HC2686DB	243.	HC2686WP	4952.	

- ▲ Add "F" for Flush or "S" for Surface.
- Add-on door kit available from Peru. Example: For HCM48TS surface trim kit, order HCM48DS door kit.
- ◆ For Type 1 applications, order interior, front, and box. For Type 3R/5/12 applications, order interior and box only. The front is included with the box.
- ★ Remove drain screws for Type 3R rating.
- ▼ Bottom feed standard, for top feed main circuit breaker specify at time of order.
- △ Hinged trim with door.
- For main lugs panel, order sub-feed lug kit and back-feed as main lugs.
- ◇ For main circuit breaker panel, order plug-on I-LINE type PG, PJ, PL, MG or MJ circuit breakers from 9-28 through 9-30 and backfeed as the main breaker (order solid neutral from 9-22).
- ☆ Suitable for use as service equipment if equipped with an integral main circuit breaker or when not more than six main disconnecting means are provided and the panelboard is not used as a lighting and appliance branch circuit panelboard.
- ▽ PG, PJ, PL circuit breakers are available with both thermal-magnetic equivalent and Micrologic trip. The Micrologic circuit breakers are available 80% and 100% rated. "C" suffix denotes a 100% rating.
- ◎ Circuit breaker interrupt ratings, starting on page 7-2.
- * I-Line Surgeologic TVSS not available.
- ◆ DB9 box is 9.5 inches deep.

6 TYPE HCP

800 A max. branch circuit breaker
DG, DJ, DL, FA ▲, FH, FI, FY, QB, OD, QG, QJ, HD, HG, HJ, HL, JD, JG, JJ, JL, KI, LA, LH, LC, LI, LX, LXI, LE, MG, MJ, PG, PJ, PL, PGC, PJC, PCL ■



Box Size:

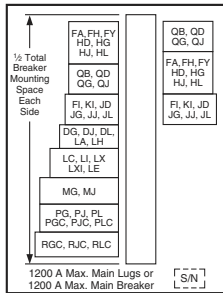
42 in. Wide, 9.5 in. Deep

- ▲ FA and JDA circuit breakers with field installable ground fault kits may be mounted in type HCP, HCP-SU and HCR-U panelboards as shown, and require L frame mounting space.
- PG, PJ, PL circuit breakers are available with both thermal-magnetic equivalent and Micrologic trip. The Micrologic circuit breakers are available 80% and 100% rated. "C" suffix denotes a 100% rating.

TYPE HCR-U

Universal Main

1200 A max. branch circuit breaker
DG, DJ, DL, FA ▲, FH, FI, FY, QB, OD, QG, QJ, HD, HG, HJ, HL, JD, JG, JJ, JL, KI, LA, LH, LC, LI, LX, LXI, LE, MG, MJ, PG, PJ, PL, PGC, PJC, PCL, RGC, RJC, RLC ■◆



Box Size:

44 in. Wide, 9.5 in. Deep

- ▲ FA and JDA circuit breakers with field installable ground fault kits may be mounted in type HCP, HCP-SU and HCR-U panelboards as shown, and require L frame mounting space.
- When RL main circuit breakers with equipment ground fault are applied on a 3Ø4W system, order solid neutral catalog number HCR12SNCT. The HCR12SNCT includes a neutral current transformer.
- ◆ PG, PJ, PL circuit breakers are available with both thermal-magnetic equivalent and Micrologic trip. The Micrologic circuit breakers are available 80% and 100% rated. "C" suffix denotes a 100% rating.

Table 9.97: (1200 A Interiors Include solid neutral, all others without solid neutral. Order solid neutral from 9-23.)

Total Circuit Breaker Mtg. Space (Inches)	Main Amp. Rating	Max. No. of LC, MJ, PL, RL Circuit Breakers	Complete Surface \$ Price (4 Piece Trim) (Less Branch Breakers)	Interior Assembly (Less Branch Circuit Breakers)				Front ▲				Box ♦	Box Height (In.)
				Type 1		4 Piece Trim Without Door ■		Trim With Door		Box ♦			
				Catalog Number	\$ Price	Catalog Number	\$ Price	Catalog Number	\$ Price	Catalog Number	\$ Price		
HCP Main Lugs Only—3-pole Suitable for use as service equipment when provided with a main circuit breaker. ★													
27	400	1PL	2751.	HCP14504	1902.	HCW50T ()	606.	HCW50T()D	743.	HC4250DB	243.	50	
	600		3513.	HCP14506	2664.								
	800		4521.	HCP14508	3672.								
	1200		6365.	HCP145012N	5516.								
45	400	2PL	3212.	HCP23594	2298.	HCW59T ()	671.	HCW59T()D	827.	HC4259DB	243.	59	
	600		3860.	HCP23596	2946.								
	800		4874.	HCP23598	3960.								
	1200		7133.	HCP235912N	6219.								
63	400	3PL	3795.	HCP32684	2706.	HCW68T ()	846.	HCW68T()D	1052.	HC4268DB	243.	68	
	600		4476.	HCP32686	3387.								
	800		5309.	HCP32688	4220.								
	1200		7763.	HCP326812N	6674.								
99	400	5PL	4716.	HCP50864	3372.	HCW86T ()	1101.	HCW86T()D	1344.	HC4286DB	243.	86	
	600		5208.	HCP50866	3864.								
	800		6194.	HCP50868	4850.								
	1200		8529.	HCP508612N	7185.								
HCP Main Circuit Breaker▼—Includes 3-pole Vertically mounted main circuit breaker—Suitable for use as service equipment.													
36	600	2LC	12179.	HCP18686M	11090.	HCW68T ()	846.	HCW68T()D	1052.	HC4268DB	243.	68	
	800		15399.	HCP18688M	14310.								
72	600	4LC	12987.	HCP36866M	11643.	HCW86T ()	1101.	HCW86T()D	1344.	HC4286DB	243.	86	
	800		16296.	HCP36868M	14952.								
HCR-U Universal Main Lugs or Main Circuit Breaker▼—3-pole Suitable for use as service equipment when provided with a main circuit breaker. For MAIN LUGS panel, order sub-feed lug kit catalog number S33930 and back feed as main lugs. For MAIN CIRCUIT BREAKER panel, order plug-on I-LINE type PG, PJ, PL, RGC, RJC or RLC▲ circuit breakers from pages 9-27 through 9-29, and back feed as the main circuit breaker. (Order solid neutral separately)													
108□	1200	6PL or 3RLC	12557.	HCR548612U	11213.	HCR86T ()◇	1101.	HCR86T()D	1344.	HC4486DB	243.	86	

- ▲ Add "F" for Flush or "S" for Surface.
- ◆ Add-on door kit available. Example: For HCW50TS trim kit, order HCW50D door kit.
- See 9-23 for 42 in. wide weatherproof enclosures.
- ★ Suitable for use as service equipment if equipped with an integral main circuit breaker or when not more than six main disconnecting means are provided and the panelboard is not used as a lighting and appliance branch circuit panelboard.
- ▼ Circuit breaker interrupt ratings, starting on page 7-2.
- △ When RL main circuit breakers with equipment ground fault are applied on a 3Ø4W system, order solid neutral catalog number HCR12SNCT. The HCR12SNCT includes a neutral current transformer.
- 15 in. of mounting space is taken up by the back fed main lug kit or RG, RJ, RL main circuit breaker, leaving 93 in. of branch circuit breaker mounting space.
- ◇ Add-on door kit available. Example: For HCR86TS trim kit, order HCW86D door kit.

Table 9.98: Circuit Breaker / Sub-feed Lug Kit Mounting Inch Requirement

Type of Circuit Breaker	Maximum Ampacity	No. of Poles	Mounting Requirement	Type of Circuit Breaker	Maximum Ampacity	No. of Poles	Mounting Requirement
FY	30 A	1	1.5 in.	QB, QD, QG, QJ	225 A	3	4.5 in.
FA, FH	100 A	1	1.5 in.	JD, JG, JJ, JL, KI, SL250	250 A	2, 3	4.5 in.
FA, FH		2	3 in.	LA, LH, SL400	400 A		6 in.
FA, FH, FI, SL-100	150 A	2, 3	4.5 in.	DG, DJ, DL/LC, LI, LX, LXI, LE	600 A	2, 3	6.0 in. / 7.5 in.
HD, HG		2	3 in.	MG, MJ, MA, MH, SL800	800 A		9 in.
HD, HG, HJ, HL	225 A	2, 3	4.5 in.	PG, PJ, PL, PGC, PJC, PCL, S33931	1200 A	2, 3	
QB, QD, QG, QJ		2	3 in.	RGC, RJC, RLC, S33930	1200 A		

Table 9.99: Main Circuit Breaker Interiors — Standard Frame Types ▲

Main Circuit Breaker Ampacity	Panelboard Type	Factory Supplied Main Circuit Breaker
100	HCN	FA36100
225	HCN, HCM	JDA36225
400	HCN	LAP36400MB
	HCM	LAP36400MB
600 or 800	HCM, HCP	MGP36600 or MGP36800

- ▲ Circuit breaker interrupt ratings, starting on page 7-2.

Table 9.100: Standard Copper Bus Interiors ▲

Type	Main Ampacity
HCN	600
HCM, HCP-SU	800
HCP, HCR-U	800 & Above

- ▲ Merchandised copper interiors are not available in all ampacities. Example: Application calls for a HCN 225A copper bus interior, order a HCN 600A interior See table 9.100



Blank Fillers

Solid Neutral



Equipment Ground Bar

Blank Extensions

Table 9.101: I-Line Merchandised Panelboard Accessories

Description	Catalog No.	\$ Price
Blank Fillers—1.5 in. (3 per pkg.)	HNM1BL	14.30
Blank Fillers—4.5 in. (5 per pkg.)	HNM4BL	25.20
Solid Neutral Assemblies		
225 A	HC2SN	252.00
400 A	HC4SN ▲, HCW4SN ■	333.00
600 A	HC6SN ▲, HCW6SN ■	464.00
800 A	HC8SN ▲, HCW8SN ■	717.00
	HCPSU8SN ◆	1151.00
	HCPSU8SNCT ◆	1269.00
1200 A	HCW12SN ■	843.00
1200 A, for use with HCR-U universal panel only	HCWM12SN ★	1151.00
1200 A, including neutral CT for 3Ø4W systems	HCR12SNCT ★	1269.00
Equipment Ground Bar Kits—HCN		
HCM, HCP, HCR-U	PK27GTA	33.80
	PK32DGTA	104.00
Blank Extensions—(For replacement purposes only in 1.5 in. (3 per pkg.))	HLW1BL	14.30
Type HCP, HCR-U panelboards) 4.5 in. (5 per pkg.)	HLW4BL	25.20

- ▲ Used on Type HCN, HCM.
- Used on 400 A, 600 A, 800 A, 1200 A HCP (main lugs), and 600 A, 800 A (main circuit breaker).
- ◆ Used on Type HCP-SU.
- ★ Used on Type HCR-U.

Table 9.102: Panelboard Adapter Kits

Crimp Lug Adapter Kits ▲	I-Line Panelboard Type			\$ Price
	HCN	HCM	HCP, HCR-U ■	
400 A	HCN400VCA	HCM400VCA	HCW400VCA	96.
600 A	HCN600VCA	HCM600VCA	HCW600VCA	197.
800 A	—	HCM800VCA	HCW800VCA	284.
1200 A	—	—	HCW1200VCA	491.

- ▲ For use with MLO panel, order VCEL lugs separately.
- Not for use with P- or R-frame circuit breakers or sub-feed kits S33930 or S33931.

Table 9.103: Type 3R/5/12 Enclosures

Catalog Number	Interior Type	\$ Price	Dimensions		
			H	W	D
HC4250WP	HCP	4952.	50	42	12.95
HC4259WP	HCP	4952.	59	42	12.95
HC4268WP	HCP	4952.	68	42	12.95
HC4286WP	HCP	4952.	86	42	12.95
HC4486WP	HCR-U	4952.	86	44	14.50

Table 9.104: Box Extensions

Catalog Number	Interior Type	Extension	\$ Price
HC2609DEX (F or S)	HCP-SU	9 in.	552.
HC2609EX (F or S)	HCN	9 in.	552.
HC3209EX (F or S)	HCM	9 in.	552.
HC4212DEX (F or S)	HCP	12 in.	641.
HC4406DEX (F or S)	HCR-U	6 in.	552.
HC4412DEX (F or S)	HCR-U	12 in.	641.



Box Extension

Table 9.105: Sub-feed Lug Kits ▲

Ampere Rating	Height		Catalog Number	\$ Price	Max. Short Circuit System Ratings RMS Symmetrical Amperes			Protected by Circuit Breaker	For Use in I-LINE Panelboard Types
	IN	(mm)			240 Vac	480 Vac	600 Vac		
100	4.5	114	SL100	435.	65,000	25,000	18,000	FH	HCN, HCM, HCP, HCP-SU
250	4.5	114	SL250	435.	125,000	100,000	50,000	JL	HCM, HCP, HCP-SU
250	4.5	114	SL250	435.	200,000	200,000	100,000	KI	HCM, HCP, HCP-SU
400	6	152	SL400 ■	585.	65,000	35,000	25,000	LH	HCP, HCP-SU
				1731.	65,000	65,000	25,000	MH	HCM, HCP, HCP-SU
800	9	229	SL800	1731.	125,000	100,000	—	DG, DJ, DL	HCM, HCP, HCP-SU
				3500.	100,000	65,000	25,000	MJ, PJ	HCP, HCP-SU, HCR-U
1200	9	229	S33931	3500.	100,000	65,000	25,000	MJ, PJ	HCP, HCP-SU, HCR-U
1200	15	381	S33930	3500.	125,000	100,000	50,000	RL	HCP, HCP-SU, HCR-U

- ▲ Plug-on in same manner as a branch circuit breaker
- SL400 cannot be used in HCM panelboards due to inadequate wire bending space.



Sub-feed Lug Kits

Table 9.106: Sub-feed Lug kit terminal data

Catalog No. (Prefix)	No. Poles	Ampere Rating	Std. Lug Kit Catalog No.	Standard Lug Wire Size ▲
SL100	3	100	AL100FA	#14–1/0 AWG Cu or #12–1/0 AWG Al
SL250	3	250	—	#4 AWG–300 kcmil
SL400	3	400	AL400LA	one #1 AWG–600 kcmil or two #1 AWG–250 kcmil
SL800	3	800	AL900MA	(3) #3/0 AWG–500 kcmil
S33931	3	1200	AL1200P24K	(4) #3/0 AWG–500 kcmil
S33930	3	1200	AL1200R53K	(4) #3/0 AWG–600 kcmil

- ▲ Unless otherwise specified, wire sizes apply to both aluminum and copper conductors.

For Surgelogic® I-Line plug-on TVSS unit pricing and information, refer to Section 6 pages 3-4.

For Field Installable I-Line Door Kits see the Supplemental & Obsolescence Digest section 4.

Table 9.107: QO® Distribution Panel—240 Vac Max. Only Mounts in Type HCN, HCM, HCP, HCP-SU, or HCR-U I-Line panelboards, 30 A max. branch circuit breaker. Order QO plug-on circuit breakers from page 9-33.

Maximum No. 1-pole QO Circuit Breakers	Phase Connection	Mounting Height		2-pole Catalog Number	3-pole Catalog Number	\$ Price ▲
		IN	mm			
6	AB	4.5	114	HQO206AB	—	369.
6	BC	4.5	114	HQO206BC	—	369.
6	AC	4.5	114	HQO206AC	—	369.
6	ABC	4.5	114	—	HQO306	369.

▲ Includes (5) QO1DB dummy circuit breakers.



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 9.108: 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 ▲	ABC	—	—	QBA32070
6	CBA	—	—	QBA320706

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

Table 9.109: 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 9.110: 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	—	—	—

Accessories: Supplemental & Obsolescence Digest

Optional Lugs pages 7-49
Dimensions pages 7-54

Table 9.111: F-frame—100 A, Thermal-magnetic (240 Vac)

Ampere Rating	AC Magnetic Trip Settings		Standard Interrupting		Terminal Wire Range
	Hold	Trip	Catalog Number	\$ Price	
2-pole, 240 Vac ▲					
15	275	600	FA22015()	398.	AL50FA #14-#4 AWG Cu or #12-#4 AWG Al
20			FA22020()		
25			FA22025()		
30			FA22030()		
35	400	850	FA22035()	398.	AL100FA #14-#1/0 AWG Cu or #12-#1/0 AWG Al
40			FA22040()		
45			FA22045()		
50			FA22050()		
60			FA22060()		
70			FA22070()		
80	800	1450	FA22080()	617.	AL100FA #14-#1/0 AWG Cu or #12-#1/0 AWG Al
90			FA22090()		
100			FA22100()		

Ampere Rating	AC Magnetic Trip Settings		Standard Interrupting		Terminal Wire Range
	Hold	Trip	Catalog Number	\$ Price	
3-pole, 240 Vac					
15	275	600	FA32015	572.	AL50FA #14-#4 AWG Cu or #12-#4 AWG Al
20			FA32020		
25			FA32025		
30			FA32030		
35	400	850	FA32035	572.	AL100FA #14-#1/0 AWG Cu or #12-#1/0 AWG Al
40			FA32040		
45			FA32045		
50			FA32050		
60			FA32060		
70			FA32070		
80	800	1450	FA32080	780.	AL100FA #14-#1/0 AWG Cu or #12-#1/0 AWG Al
90			FA32090		
100			FA32100		

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

Table 9.112: F-frame—100 A, Thermal-magnetic (480 Vac)

Ampere Rating	AC Magnetic Trip Settings		Standard Interrupting		Extra High Interrupting		Terminal Wire Range	
	Hold	Trip	Catalog Number	\$ Price	Catalog Number	\$ Price	FY/FA Lugs	FJ/FC Lugs
1-pole, 277 Vac, 125 Vdc ▲								
15	275	600	FY14015() ■	149.	FJA14015()	651.	AL50FA #14-#4 AWG Cu, or #12-#4 AWG Al	AL30FD #12-#6 AWG Al, or #14-#6 AWG Cu
20			FY14020() ■		FJA14020()			
25			FY14025() ■		FJA14025()			
30			FY14030() ■		FJA14030()			
35	400	850	FA14035() ♦	302.	FJA14035()	651.	AL100FA #14-#1/0 AWG Cu or #12-#1/0 AWG Al	AL100FD #12-#2/0 AWG Al or #14-#2/0 AWG Cu
40			FA14040() ♦		FJA14040()			
45			FA14045() ♦		FJA14045()			
50			FA14050() ♦		FJA14050()			
60			FA14060() ♦		FJA14060()			
70			FA14070() ♦		FJA14070()			
80	800	1450	FA14080() ♦	302.	FJA14080()	720.	—	—
90			FA14090() ♦		FJA14090()			
100			FA14100() ♦		FJA14100()			

Ampere Rating	AC Magnetic Trip Settings		Standard Interrupting		Extra High Interrupting		Terminal Wire Range	
	Hold	Trip	Catalog Number	\$ Price	Catalog Number	\$ Price	FY/FA Lugs	FJ/FC Lugs
2-pole, 480 Vac, 250 Vdc ▲ ■ ♦								
15	275	600	FA24015()	651.	—	—	AL50FA #14-#4 AWG Cu or #12-#4 AWG Al	CU30FA4 one #14- #10 AWG Cu only
20			FA24020()		—			
25			FA24025()		—			
30			FA24030()		—			
35	400	850	FA24035()	651.	—	—	AL100FA #14-#1/0 AWG Cu or #12-#1/0 AWG Al	AL100FA4 one #14-#3 AWG Cu or one #12-#1 AWG Al
40			FA24040()		—			
45			FA24045()		—			
50			FA24050()		—			
60			FA24060()		651.			
70			FA24070()		—			
80	800	1450	FA24080()	833.	—	—	—	—
90			FA24090()		—			
100			FA24100()		833.			

Ampere Rating	AC Magnetic Trip Settings		Standard Interrupting		Extra High Interrupting		Terminal Wire Range	
	Hold	Trip	Catalog Number	\$ Price	Catalog Number	\$ Price	FY/FA Lugs	FJ/FC Lugs
3-pole, 480 Vac, 250 Vdc ▲								
15	275	600	FA34015	833.	—	—	AL50FA #14-#4 AWG Cu or #12-#4 AWG Al	CU30FA4 one #14- #10 AWG Cu only
20			FA34020		—			
25			FA34025		—			
30			FA34030		—			
35	400	850	FA34035	833.	—	—	AL100FA #14-#1/0 AWG Cu or #12-#1/0 AWG Al	AL100FA4 one #14-#3 AWG Cu or one #12-#1 AWG Al
40			FA34040		—			
45			FA34045		—			
50			FA34050		—			
60			FA34060		833.			
70			FA34070		—			
80	800	1450	FA34080	996.	—	—	—	—
90			FA34090		—			
100			FA34100		996.			

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

■ Rated 277 Vac 15 and 20 ampere FY circuit breakers are rated for switching duty (SWD). 15, 20, 25 and 30 ampere FA I-LINE circuit breakers are also available (no SWD rating).
♦ Rated 277 Vac, 125 Vdc, except FY circuit breakers, which have no dc rating. 15-30 ampere circuit breakers suitable for use with 60°C or 75°C conductors. 35-100 ampere circuit breakers are suitable for use with 75°C conductors.



F136100
2- and 3-pole
4.5 in (114 mm)
Mounting Height



QB/QD/QG/QJ
Mounting Height:
2-pole—3 in (76 mm)
3-pole—4.5 in (114 mm)

Table 9.113: F-frame—100 A, Thermal-magnetic (600 Vac)

Ampere Rating	AC Magnetic Trip Settings		Standard Interrupting		High Interrupting		Current Limiting		Terminal Wire Range	
	Hold	Trip	Catalog Number	\$ Price	Catalog Number	\$ Price	Catalog Number	\$ Price		
1-pole, 277 Vac, 125 Vdc ▲										
15	275	600	—	—	FH16015()	—	—	—	AL50FA #14-#4 AWG Cu or #12-#4 AWG Al	
20			—	—	FH16020()	507.	—	—		
25			—	—	FH16025()		—	—		
30			—	—	—	FH16030()	—	—		
35	400	850	—	—	FH16035()	507.	—	AL100FA #14-#1/0 AWG Cu or #12-#1/0 AWG Al		
40			—	—	FH16040()		—		—	
45			—	—	—		FH16045()		—	—
50			—	—	—		FH16050()		—	—
60	800	1450	—	—	FH16060()	507.	—	AL100FA #14-#1/0 AWG Cu or #12-#1/0 AWG Al		
70			—	—	FH16070()	563.	—			
80			—	—	FH16080()		—		—	
90			—	—	—	FH16090()	563.		—	
100	900	1700	—	—	FH16100()	—		—		
2-pole, 600 Vac, 250 Vdc ▲										
15	275	600	FA26015()	780.	FH26015()	1214.	—	—	AL50FA #14-#4 AWG Cu or #12-#4 AWG Al	
20			FA26020()		FH26020()		FI26020()	2763.		
25			FA26025()		FH26025()		—	—		
30			FA26030()		FH26030()		FI26030()	2763.		
35	400	850	FA26035()	780.	FH26035()	1214.	—	—	AL100FA #14-#1/0 AWG Cu or #12-#1/0 AWG Al	
40			FA26040()		FH26040()		FI26040()	2763.		
45			FA26045()		FH26045()		—	—		
50			FA26050()		FH26050()		FI26050()	2763.		
60	800	1450	FA26060()	780.	FH26060()	1214.	FI26060()	2763.		
70			FA26070()		FH26070()		FI26070()			
80			FA26080()		FH26080()		FI26080()			
90			FA26090()		FH26090()		FI26090()			
100	900	1700	FA26100()	947.	FH26100()	1452.	FI26100()	2763.		
3-pole, 600 Vac, 250 Vdc										
15	275	600	FA36015	971.	FH36015	1446.	—	—	AL50FA #14-#4 AWG Cu or #12-#4 AWG Al	
20			FA36020		FH36020		FI36020	3459.		
25			FA36025		FH36025		—	—		
30			FA36030		FH36030		FI36030	3459.		
35	400	850	FA36035	971.	FH36035	1446.	—	—	AL100FA #14-#1/0 AWG Cu or #12-#1/0 AWG Al	
40			FA36040		FH36040		FI36040	3459.		
45			FA36045		FH36045		—	—		
50			FA36050		FH36050		FI36050	3459.		
60	800	1450	FA36060	971.	FH36060	1446.	FI36060	3459.		
70			FA36070		FH36070		FI36070			
80			FA36080		FH36080		FI36080			
90			FA36090		FH36090		FI36090			
100	900	1700	FA36100	1163.	FH36100	1632.	FI36100	3459.		

▲ 1- and 2-pole circuit breaker catalog numbers are completed by adding the required connection letters as a suffix, see 9-24.

Table 9.114: PowerPact® Q-frame ▲ — 225 A, Thermal-magnetic (240 Vac)

Ampere Rating	AC Magnetic Trip Settings		"B" Interrupting		"D" Interrupting		"G" Interrupting		"J" Interrupting	
	Hold	Trip	Catalog Number	\$ Price	Catalog Number	\$ Price	Catalog Number	\$ Price	Catalog Number	\$ Price
2-pole, 240 Vac ■										
70	1000	1800	QBA22070()	600.	QDA22070()	1202.	QGA22070()	1593.	QJA22070()	1992.
80			QBA22080()		QDA22080()		QGA22080()		QJA22080()	
90			QBA22090()		QDA22090()		QGA22090()		QJA22090()	
100			QBA22100()		QDA22100()		QGA22100()		QJA22100()	
110			QBA22110()		QDA22110()		QGA22110()		QJA22110()	
125			QBA22125()		QDA22125()		QGA22125()		QJA22125()	
150			QBA22150()		QDA22150()		QGA22150()		QJA22150()	
175			QBA22175()		QDA22175()		QGA22175()		QJA22175()	
200			QBA22200()		QDA22200()		QGA22200()		QJA22200()	
225			QBA22225()		QDA22225()		QGA22225()		QJA22225()	
3-pole, 240 Vac ♦										
70	1000	1800	QBA32070()	1913.	QDA32070()	2069.	QGA32070()	2835.	QJA32070()	3245.
80			QBA32080()		QDA32080()		QGA32080()		QJA32080()	
90			QBA32090()		QDA32090()		QGA32090()		QJA32090()	
100			QBA32100()		QDA32100()		QGA32100()		QJA32100()	
110			QBA32110()		QDA32110()		QGA32110()		QJA32110()	
125			QBA32125()		QDA32125()		QGA32125()		QJA32125()	
150			QBA32150()		QDA32150()		QGA32150()		QJA32150()	
175			QBA32175()		QDA32175()		QGA32175()		QJA32175()	
200			QBA32200()		QDA32200()		QGA32200()		QJA32200()	
225			QBA32225()		QDA32225()		QGA32225()		QJA32225()	

▲ 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.
 ■ 2-pole QB, QD, QG and QJ circuit breakers are completed by adding the required phasing numbers as indicated in the parentheses, see 9-24.
 ♦ 3-pole QB, QD, QG and QJ circuit breakers for ABC phasing are complete without additional phasing number. For CBA phasing, complete the catalog number by inserting the number "6" in the parentheses.

Table 9.115: Interrupt Ratings (kA)

	FA	FH	FI	QB	QD	QG	QJ ▲
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	—	—	—	—

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

F-Frame accessories Supplemental & Obsolescence Digest
 F-Frame optional lugs page 7-49
 F-Frame dimensions page 7-54
 Q-Frame dimensions page 7-54



HD/HG 2-pole
3 in. (76 mm)
Mounting Height

H- and J-frame

Table 9.116: H-frame 150 A Standard Rated Thermal Magnetic (600 Vac) with Factory Sealed Trip Units

Ampere Rating	AC Magnetic Trip Setting		D Interrupting		G Interrupting		J Interrupting ▲		L Interrupting ▲		Terminal Wire Range
	Hold	Trip	Catalog No.	\$ Price	Catalog No.	\$ Price	Catalog No.	\$ Price	Catalog No.	\$ Price	
2-pole, 600 Vac 50/60 Hz											
15	350	750	HDA26015()	899.	HGA26015()	1338.	HJA26015()	1589.	HLA26015()	2483.	AL150HD #14-#3/0 AWG Al or Cu
20			HDA26020()		HGA26020()		HJA26020()		HLA26020()		
25			HDA26025()		HGA26025()		HJA26025()		HLA26025()		
30			HDA26030()		HGA26030()		HJA26030()		HLA26030()		
35			HDA26035()		HGA26035()		HJA26035()		HLA26035()		
40	400	850	HDA26040()	899.	HGA26040()	1338.	HJA26040()	1589.	HLA26040()		
45			HDA26045()		HGA26045()		HJA26045()		HLA26045()		
50			HDA26050()		HGA26050()		HJA26050()		HLA26050()		
60			HDA26060()		HGA26060()		HJA26060()		HLA26060()		
70			HDA26070()		HGA26070()		HJA26070()		HLA26070()		
80	800	1450	HDA26080()	1088.	HGA26080()	1559.	HJA26080()	1824.	HLA26080()		
90			HDA26090()		HGA26090()		HJA26090()		HLA26090()		
100			HDA26100()		HGA26100()		HJA26100()		HLA26100()		
110			HDA26110()		HGA26110()		HJA26110()		HLA26110()		
125			HDA26125()		HGA26125()		HJA26125()		HLA26125()		
150	900	1700	HDA26150()	2195.	HGA26150()	3212.	HJA26150()	4671.	HLA26150()		
3-pole, 600 Vac 50/60 Hz											
15	350	750	HDA36015	1124.	HGA36015	1575.	HJA36015	1988.	HLA36015	2993.	AL150HD #14-#3/0 AWG Al or Cu
20			HDA36020		HGA36020		HJA36020		HLA36020		
25			HDA36025		HGA36025		HJA36025		HLA36025		
30			HDA36030		HGA36030		HJA36030		HLA36030		
35			HDA36035		HGA36035		HJA36035		HLA36035		
40	400	850	HDA36040	1124.	HGA36040	1575.	HJA36040	1988.	HLA36040		
45			HDA36045		HGA36045		HJA36045		HLA36045		
50			HDA36050		HGA36050		HJA36050		HLA36050		
60			HDA36060		HGA36060		HJA36060		HLA36060		
70			HDA36070		HGA36070		HJA36070		HLA36070		
80	800	1450	HDA36080	1361.	HGA36080	1772.	HJA36080	2225.	HLA36080		
90			HDA36090		HGA36090		HJA36090		HLA36090		
100			HDA36100		HGA36100		HJA36100		HLA36100		
110			HDA36110		HGA36110		HJA36110		HLA36110		
125			HDA36125		HGA36125		HJA36125		HLA36125		
150	900	1700	HDA36150	2730.	HGA36150	3779.	HJA36150	5432.	HLA36150		

▲ 2 pole in 3p module



H-frame 3-pole
4.5 in. (114 mm)
Mounting Height

Table 9.117: J-frame 250 A Standard Rated Thermal Magnetic (600 Vac) with Factory Sealed Trip Units

Ampere Rating	AC Magnetic Trip Setting		D Interrupting ■		G Interrupting ■		J Interrupting ■		L Interrupting ■		Terminal Wire Range
	Low	High	Catalog No.	\$ Price	Catalog No.	\$ Price	Catalog No.	\$ Price	Catalog No.	\$ Price	
2-pole, 600 Vac 50/60 Hz											
150	750	1500	JDA26150()	2283.	JGA26150()	3372.	JJA26150()	4904.	JLA26150()	5985.	AL175JD #1/0-4/0 AWG Al or Cu
175	875	1750	JDA26175()		JGA26175()		JJA26175()		JLA26175()		
200	1000	2000	JDA26200()	2283.	JGA26200()	3372.	JJA26200()	4904.	JLA26200()	5985.	AL250JD #3/0-350 kcmil Al or Cu
225	1125	2250	JDA26225()		JGA26225()		JJA26225()		JLA26225()		
250	1250	2500	JDA26250()	3138.	JGA26250()	4463.	JJA26250()	6536.	JLA26250()	7338.	
3-pole, 600 Vac 50/60 Hz											
150	750	1500	JDA36150	2867.	JGA36150	3968.	JJA36150	5705.	JLA36150	7299.	AL175JD #1/0-4/0 AWG Al or Cu
175	875	1750	JDA36175		JGA36175		JJA36175		JLA36175		
200	1000	2000	JDA36200		JGA36200		JJA36200		JLA36200		
225	1125	2250	JDA36225		JGA36225		JJA36225		JLA36225		
250	1250	2500	JDA36250		3936.		JGA36250		5252.		

■ 2 pole in 3p module



J-frame 3-pole
4.5 in (114 mm)
Mounting Height

Table 9.118: Molded Case Switch—Automatic

Ampere Rating	2-pole		3-pole		Withstand Rating ▲			Trip Point Amperes AC	Terminal Wire Range
	Catalog Number	\$ Price	Catalog Number	\$ Price	240 Vac	480 Vac	600 Vac		
G Interrupting									
150	HGA26000S15()	1416.	HGA36000S15	1889.	65	35	18	1300	AL150HD #14-#3/0 AWG Al or Cu
175	JGA26000S17()	1919.	JGA36000S17	2400.	65	35	18	2500	AL250JD #3/0-350 kcmil Al or Cu
250	JGA26000S25()		JGA36000S25						
L Interrupting									
150	HLA26000S15()	1670.	HLA36000S15	2087.	125	100	50	1300	AL150HD #14-#3/0 AWG Al or Cu
175	HLA26000S17()	2079.	JLA36000S17	2600.	125	100	50	1300	AL250JD
250	JLA26000S25()		JLA36000S25						2500

▲ The withstand rating is the fault current, at rated voltage, that the molded case switch will withstand without damage when protected by a circuit breaker with an equal continuous current rating.
■ 2-pole device with 3 in. (76 mm) mounting height, all other 2-pole circuit breakers use 3-pole module 4.5 in. (114 mm) mounting height.

Table 9.119: Phase Options—Example HDA26150()

Phase Option Number	Phase Connection	2-pole	3-pole
1	AB	HDA261501	—
2	AC	HDA261502	—
3	BA	HDA261503	—
4	BC	HDA261504	—
5	CA	HDA261505	—
6	CB	HDA261506	—
Standard	ABC	—	HDA36150
6	CBA	—	HDA361506

Table 9.120: Interrupt Ratings (kA)

	D	G	J	L
240 V	25	65	100	125
480 V	18	35	65	100
600 V	14	18	25	50

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Optional Lugs page 7-39



KI36250
2- and 3-pole
4.5 in (114 mm)
Mounting Height

Table 9.121: K-frame—250 A, Thermal-magnetic, Current Limiting (600 Vac)

Ampere Rating	AC Magnetic Trip Settings		Current Limiting		Terminal Wire Range
	Low	High	Catalog Number	\$ Price	
2-pole, 600 Vac, 250 Vdc ▲					
70	350	700	—	—	AL250KA one #4 AWG– 350 kcmil Al or Cu
80	400	800	—	—	
90	450	900	—	—	
100	500	1000	—	—	
110	550	1100	KI26110()	6633.	
125	625	1250	KI26125()	6633.	
150	750	1500	KI26150()	6633.	
175	875	1750	KI26175()	6633.	
200	1000	2000	—	—	
225	1125	2250	—	—	
250	1250	2500	—	—	
200	1000	2000	KI26200()	6633.	AL250KI one #1/0 AWG– 350 kcmil Al or Cu
225	1125	2250	KI26225()	6633.	
250	1250	2500	KI26250()	7704.	
3-pole, 600 Vac, 250 Vdc					
70	350	700	—	—	AL250KA one #4 AWG– 350 kcmil Al or Cu
80	400	800	—	—	
90	450	900	—	—	
100	500	1000	—	—	
110	550	1100	KI36110	8375.	
125	625	1250	KI36125	8375.	
150	750	1500	KI36150	8375.	
175	875	1750	KI36175	8375.	
200	1000	2000	—	—	
225	1125	2250	—	—	
250	1250	2500	—	—	
200	1000	2000	KI36200	8375.	AL250KI one #1/0 AWG– 350 kcmil Al or Cu
225	1125	2250	KI36225	8375.	
250	1250	2500	KI36250	9267.	

▲ 2-pole circuit breaker catalog numbers are completed by adding required phase connection letters as suffix to catalog number. See 9-24.

Table 9.122: KI Interrupt Ratings (kA)

	KI
240 V	200
480 V	200
600 V	100

Table 9.123: PowerPact P-frame and R-frame Interrupt Ratings

Voltage	P-frame Interrupt Rating				R-frame Interrupt Rating			
	G	J	K	L	G	J	K	L
240 Vac	65 kA	100 kA	65 kA	125 kA	65 kA	100 kA	65 kA	125 kA
480 Vac	35 kA	65 kA	50 kA	100 kA	35 kA	65 kA	65 kA	100 kA
600 Vac	18 kA	25 kA	50 kA	25 kA	18 kA	25 kA	65 kA	50 kA

Table 9.124: PowerPact R-frame 1200 A (600 Vac, 50/60 Hz) 3P▲ Circuit Breaker with Electronic Trip Unit

Electronic Trip Unit			Sensor Rating	Cat. No. ♦♦	\$ Price				Terminal Wire Range
					G Interrupting ♦♦	J Interrupting ♦♦	K Interrupting ♦♦	L Interrupting ♦♦	
Type	Function	Code							
Micrologic Interchangeable Standard Trip Unit	LI	3.0	1000 A	R()A36100CU31A	33945.	36111.	36111.	38418.	
			1200 A	R()A36120CU31A					
	LSI	5.0	1000 A	R()A36100CU33A	34401.	36599.	36599.	38934.	
			1200 A	R()A36120CU33A					
Micrologic Interchangeable Ammeter Trip Unit	LI	3.0A	1000 A	R()A36100CU41A	35141.	37383.	37383.	39770.	
			1200 A	R()A36120CU41A					
	LSI	5.0A	1000 A	R()A36100CU43A	36581.	38916.	38916.	41400.	
			1200 A	R()A36120CU43A					
	LSIG	6.0A	1000 A	R()A36100CU44A	38378.	40829.	40829.	43434.	
			1200 A	R()A36120CU44A					
Micrologic Interchangeable Power Trip Unit	LSI	5.0P	1000 A	R()A36100CU63AE1	40826.	43431.	43431.	46205.	
			1200 A	R()A36120CU63AE1					
	LSIG	6.0P	1000 A	R()A36100CU64AE1	41867.	44540.	44540.	47382.	
			1200 A	R()A36120CU64AE1					
Micrologic Interchangeable Harmonic Trip Unit	LSI	5.0H	1000 A	R()A36100CU73AE1	44754.	47610.	47610.	50649.	
			1200 A	R()A36120CU73AE1					
	LSIG	6.0H	1000 A	R()A36100CU74AE1	45795.	48719.	48719.	51827.	
			1200 A	R()A36120CU74AE1					

▲ For 2P and 4P information see Catalog 0612CT0101.

♦♦ To complete the catalog number, replace the blank () with the appropriate interrupt rating (G, J, K or L).

♦ See page 9-123 for interrupt ratings table.

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LA/LH
2- and 3-pole
6 in (152 mm)
Mounting Height



LI
2- and 3-pole
7.5 in (190 mm)
Mounting Height



LC
2- and 3-pole
7.5 in (190 mm)
Mounting Height

Table 9.125: L-frame—400 A, I-Line® LA/LH MC High Magnetic Withstand Circuit Breaker For Mission Critical Loads

Ampere Rating	AC Magnetic Level Factory Set ▲	Standard Interrupting		High Interrupting		Terminal Wire Range
		Catalog Number	\$ Price	Catalog Number	\$ Price	
3-pole, 480 Vac, LA/LH MC Circuit Breaker						
200	4000	LA34200MC	5571.	LH34200MC	8771.	AL250LA one #4 AWG–350 kcmil AL or Cu
225	4500	LA34225MC		LH34225MC		
250	5000	LA34250MC		LH34250MC		
400	8000	LA34400MC	6941.	LH34400MC	10142.	AL400LA one #1 AWG–600 kcmil or two #1 AWG–250 kcmil AL or Cu

▲ AC magnetic setting tolerances are +0 -25% from maximum value shown.

Table 9.126: L-frame—400 A, Thermal-magnetic (600 Vac)

Ampere Rating	AC Magnetic Trip Settings		Standard Interrupting		High Interrupting		Terminal Wire Range
	Low	High	Catalog Number	\$ Price	Catalog Number	\$ Price	
2-pole, 600 Vac, 250 Vdc ▲							
125	625	1250	LA26125()	4053.	LH26125()	6762.	AL400LA one #1 AWG–600 kcmil or two #1 AWG–250 kcmil AL or Cu
150	750	1500	LA26150()	4053.	LH26150()	6762.	
175	875	1750	LA26175()	4053.	LH26175()	6762.	
200	1000	2000	LA26200()	4053.	LH26200()	6762.	
225	1125	2250	LA26225()	4053.	LH26225()	6762.	
250	1250	2500	LA26250()	4053.	LH26250()	6762.	
300	1500	3000	LA26300()	4053.	LH26300()	6762.	
350	1750	3500	LA26350()	4053.	LH26350()	6762.	
400	2000	4000	LA26400()	4053.	LH26400()	6762.	
3-pole, 600 Vac, 250 Vdc							
125	625	1250	LA36125	4944.	LH36125	8145.	AL400LA one #1 AWG–600 kcmil or two #1 AWG–250 kcmil AL or Cu
150	750	1500	LA36150	4944.	LH36150	8145.	
175	875	1750	LA36175	4944.	LH36175	8145.	
200	1000	2000	LA36200	4944.	LH36200	8145.	
225	1125	2250	LA36225	4944.	LH36225	8145.	
250	1250	2500	LA36250	4944.	LH36250	8145.	
300	1500	3000	LA36300	4944.	LH36300	8145.	
350	1750	3500	LA36350	4944.	LH36350	8145.	
400	2000	4000	LA36400	4944.	LH36400	8145.	

Table 9.127: L-frame—600 A, Thermal-magnetic (600 Vac)■

Ampere Rating	AC Magnetic Trip Settings		Extra High Interrupting		Current Limiting		Terminal Wire Range
	Low	High	Catalog Number	\$ Price	Catalog Number	\$ Price	
2-pole, 600 Vac ▲							
300	1500	3200	LC26300()	8312.	LI26300()	9563.	AL600LI5 two #4/0 AWG–500 kcmil AL or Cu
350	1750		LC26350()		LI26350()		
400	2000		LC26400()		LI26400()		
450	2250	4200	LC26450()	8691.	LI26450()	13949.	
500	2500		LC26500()		LI26500()		
600	3000		LC26600()		LI26600()		
3-pole, 600 Vac							
300	1500	3200	LC36300	9234.	LI36300	10673.	AL600LI5 two #4/0 AWG–500 kcmil AL or Cu
350	1750		LC36350		LI36350		
400	2000		LC36400		LI36400		
450	2250	4200	LC36450	9657.	LI36450	15498.	
500	2500		LC36500		LI36500		
600	3000		LC36600		LI36600		

▲ 2-pole circuit breaker catalog numbers are completed by adding required phase connection letters as suffix to catalog number. See 9-24.
■ Type LC and LI circuit breakers are NOT recommended for use on single-motor branch circuits.

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Dimensions page 7-54

Table 9.128: Interrupt Ratings (kA)

	LA	LH	LC	LI
240 V	42	65	100	200
480 V	30	35	65	200
600 V	22	25	35	100

Interrupt Ratings (kA)

	G	J	L▲
240 V	65	100	125
480 V	35	65	100
600 V ■	18	25	25

- ▲ L interrupting rating is not available in M-frame.
- 600 V interrupt ratings not available for D-frame.

Table 9.129: D-Frame (600 A 480 Vac) 3P 50/60 Hz Circuit Breaker with Electronic Trip Units

Electronic Trip Unit Type	Trip Function	Trip Unit	Continuous Current ■	G Interrupting		J Interrupting		L Interrupting		Terminal Wire Range	
				Catalog No.	\$ Price	Catalog No.	\$ Price	Catalog No.	\$ Price		
Standard	LS	STR23SP	150 A	DGA34150E20	5631.	DJA34150E20	9028.	DLA34150E20	10468.	(1) 2–600 Cu or (1) 2–500 Al	
			250 A	DGA34250E20		DJA34250E20		DLA34250E20			
			400 A	DGA34400E20		DJA34400E20		DLA34400E20			
	600 A	DGA34600E20	8865.	DJA34600E20	12262.	DLA34600E20	13702.	(2) 2/0–350 Cu or (2) 2/0–500 Al			
	LSI	STR53UP-F▲	150 A	DGA34150E53	6750.	DJA34150E53	10147.		DLA34150E53		11587.
			250 A	DGA34250E53		DJA34250E53			DLA34250E53		
400 A			DGA34400E53	DJA34400E53		DLA34400E53					
Ammeter	LSI	STR53-UPFI▲	150 A	DGA34150E58	8211.	DJA34150E58	11608.	DLA34150E58	13048.	(1) 2–600 Cu or (1) 2–500 Al	
			250 A	DGA34250E58		DJA34250E58		DLA34250E58			
			400 A	DGA34400E58		DJA34400E58		DLA34400E58			
	600 A	DGA34600E58	11445.	DJA34600E58	14842.	DLA34600E58	16282.	(2) 2/0–350 Cu or (2) 2/0–500 Al			

- ▲ F = Fault Indicator, I = Ammeter.
- D-frame circuit breakers 400 A and below are 100% rated. 600 A is standard (80%) rated only.

Table 9.130: PowerPact M-frame: with ET1.0 Factory – sealed trip unit (not field adjustable)—800 A ▲

	Ampere Rating	Adjustable Instantaneous Trip Range ■		G Interrupting		J Interrupting		Terminal Wire Range
		Low	High	Catalog Number ◆	\$ Price	Catalog Number ◆	\$ Price	
2-pole, 600 Vac, 50/60 Hz	300	600	3000	MGA26300()	6633.	MJA26300()	8253.	3–3/0 through 500 kcmil Al or Cu
	350	700	3500	MGA26350()		MJA26350()		
	400	800	4000	MGA26400()		MJA26400()		
	450	900	4500	MGA26450()		MJA26450()		
	500	1000	5000	MGA26500()		MJA26500()		
	600	1200	6000	MGA26600()		MJA26600()		
	700	1400	7000	MGA26700()		MJA26700()		
	800	1600	8000	MGA26800()		MJA26800()		
3-pole, 600 Vac, 50/60 Hz	300	600	3000	MGA36300	8168.	MJA36300	9929.	3–3/0 through 500 kcmil Al or Cu
	350	700	3500	MGA36350		MJA36350		
	400	800	4000	MGA36400		MJA36400		
	450	900	4500	MGA36450		MJA36450		
	500	1000	5000	MGA36500		MJA36500		
	600	1200	6000	MGA36600		MJA36600		
	700	1400	7000	MGA36700		MJA36700		
	800	1600	8000	MGA36800		MJA36800		

- ▲ The ET 1.0 trip unit cannot be field replaced, nor does it allow adjustment of the long-time trip point setting. It is considered an electronic equivalent of a thermal-magnet circuit breaker.
- UL magnetic trip setting tolerances are ±10% from the nominal values shown.
- ◆ Fill in parentheses with the following phase connection options: (2) for AC and (5) for CA.

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M & P-Frame accessories page 7-36
M & P-Frame dimensions page 7-55
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PANELBOARDS

9

Table 9.131: Automatic Molded Case Switches—600 Vac, 50/60 Hz

Ampere Rating	2-pole		3-pole		Withstand Rating ▲			Trip Point Amperes	Terminal Wire Range
	Catalog Number ■	\$ Price	Catalog Number	\$ Price	240 Vac	480 Vac	600 Vac	AC	
600	PJA26000S60()	6675.	PJA36000S60	7263.	100	65	25	10000	3-3/0 through 500 kcmil Al or Cu
800	PJA26000S80()	7347.	PJA36000S80	7938.	100	65	25	10000	
1000	PJA26000S10()	8088.	PJA36000S10	8676.	100	65	25	10000	4-3/0 through 500 kcmil Al or Cu
1200	PJA26000S12()	10895.	PJA36000S12	11766.	100	65	25	10000	

▲ The withstand rating is the fault current, at rated voltage, that the molded case switch will withstand without damage when protected by a circuit breaker with an equal ampere rating.
■ Fill in parentheses with the following phase connection options: (2) for AC or (5) for CA.

Table 9.132: PowerPact P-frame 1200 A (600 Vac, 50/60 Hz) 3P ▲ Circuit Breaker with Electronic Trip Unit

Electronic Trip Unit			Sensor Rating	Cat. No. ■ ◆	\$ Price								Terminal Wire Range
Type	Function	Code			G Interrupting ■		J Interrupting ■		K Interrupting ■		L Interrupting ■★		
					80% Rated	100% Rated ◆	80% Rated	100% Rated ◆	80% Rated	100% Rated ◆	80% Rated	100% Rated ◆	
Basic Electronic Trip Unit (Not Interchangeable)	Fixed long-time, Adjustable Instantaneous	ET1.0I	600 A	P()A36060	14603.	—	15480.	—	15480.	—	16359.	—	(3) 3/0 AWG—500 kcmil Al or Cu
			800 A	P()A36080									
			1000 A	P()A36100	20003.	—	21207.	—	21207.	—	22410.	—	
			1200 A	P()A36120									
Micrologic Interchangeable Standard Trip Unit	LI	3.0	250 A	P()A36025(C)U31A	15390.	22479.	16268.	23897.	16268.	23897.	17147.	25314.	(3) 3/0 AWG—500 kcmil Al or Cu
			400 A	P()A36040(C)U31A									
			600 A	P()A36060(C)U31A									
			800 A	P()A36080(C)U31A									
			1000 A	P()A36100U31A									
			1200 A	P()A36120U31A									
	LSI	5.0	250 A	P()A36025(C)U33A	15729.	22794.	16608.	24231.	16608.	24231.	17487.	25668.	(3) 3/0 AWG—500 kcmil Al or Cu
			400 A	P()A36040(C)U33A									
			600 A	P()A36060(C)U33A									
			800 A	P()A36080(C)U33A									
			1000 A	P()A36100U33A									
			1200 A	P()A36120U33A									
Micrologic Interchangeable Ammeter Trip Unit	LI	3.0A	250 A	P()A36025(C)U41A	16242.	23270.	17121.	24737.	17121.	24737.	17999.	26204.	(3) 3/0 AWG—500 kcmil Al or Cu
			400 A	P()A36040(C)U41A									
			600 A	P()A36060(C)U41A									
			800 A	P()A36080(C)U41A									
			1000 A	P()A36100U41A									
			1200 A	P()A36120U41A									
	LSI	5.0A	250 A	P()A36025(C)U43A	17739.	24659.	18618.	26214.	18618.	26214.	19497.	27770.	(3) 3/0 AWG—500 kcmil Al or Cu
			400 A	P()A36040(C)U43A									
			600 A	P()A36060(C)U43A									
			800 A	P()A36080(C)U43A									
			1000 A	P()A36100U43A									
			1200 A	P()A36120U43A									
	LSIG	6.0A	250 A	P()A36025(C)U44A	19607.	26393.	20486.	28058.	20486.	28058.	21365.	29721.	(3) 3/0 AWG—500 kcmil Al or Cu
			400 A	P()A36040(C)U44A									
			600 A	P()A36060(C)U44A									
			800 A	P()A36080(C)U44A									
			1000 A	P()A36100U44A									
			1200 A	P()A36120U44A									
Micrologic Interchangeable Power Trip Unit	LSI	5.0P	250 A	P()A36025(C)U63AE1	22151.	28754.	23030.	30566.	23030.	30566	23909.	32379.	(3) 3/0 AWG—500 kcmil Al or Cu
			400 A	P()A36040(C)U63AE1									
			600 A	P()A36060(C)U63AE1									
			800 A	P()A36080(C)U63AE1									
			1000 A	P()A36100U63AE1									
			1200 A	P()A36120U63AE1									
	LSIG	6.0P	250 A	P()A36025(C)U64AE1	23234.	29757.	24111.	31634.	24111.	31634.	24990.	33510.	(3) 3/0 AWG—500 kcmil Al or Cu
			400 A	P()A36040(C)U64AE1									
			600 A	P()A36060(C)U64AE1									
			800 A	P()A36080(C)U64AE1									
			1000 A	P()A36100U64AE1									
			1200 A	P()A36120U64AE1									
Micrologic Interchangeable Harmonic Trip Unit	LSI	5.0H	250 A	P()A36025(C)U73AE1	26234.	32541.	27113.	34593.	27113.	34593.	27992.	36645	(3) 3/0 AWG—500 kcmil Al or Cu
			400 A	P()A36040(C)U73AE1									
			600 A	P()A36060(C)U73AE1									
			800 A	P()A36080(C)U73AE1									
			1000 A	P()A36100U73AE1									
			1200 A	P()A36120U73AE1									
	LSIG	6.0H	250 A	P()A36025(C)U74AE1	27315.	33545.	28194.	35661.	28194.	35661.	29073.	37776.	(3) 3/0 AWG—500 kcmil Al or Cu
			400 A	P()A36040(C)U74AE1									
			600 A	P()A36060(C)U74AE1									
			800 A	P()A36080(C)U74AE1									
			1000 A	P()A36100U74AE1									
			1200 A	P()A36120U74AE1									

▲ For 2P and 4P information see Catalog 0612CT0101.
■ To complete the catalog number, replace the () with the appropriate interrupt rating (G, J, K or L).
◆ For 100% rated circuit breakers add a "C" in the 9th character place. For example, the catalog number for a 100% standard-type trip unit with LI trip functions at 250A would be PGA36025C U31A.
★ The L interrupt rating is supplied in 480 V only. Change the 5th character (voltage rating) from a 6 (600V) to a 4 (480V); for example, PLA34025U31A.

Dimensions Page 7-55
Trip Unit Options Page 7-43
Optional Lugs Page 7-39

Alternate Rating Plugs Page 7-44
Accessories Page 7-36

Table 9.133: Base \$ Price—Main Lugs ▲

Panel Type	Main Lugs				
	225 A	400 A	600 A	800 A	1200 A
HCN	1356.	1866.	2276.	—	—
HCM	—	1866.	2276.	2512.	—
HCP-SU	—	—	2990.	3600.	—
HCP	—	—	2456.	3056.	3968.
HCP	—	—	—	3056.	3969.
HCR-U	—	—	—	—	4602.

▲ When required, add the \$ Price of a solid neutral from Table 9.135.

Table 9.134: Base \$ Price—Main Circuit Breaker ▲

Main Circuit Breaker									
Panel Type	No. Poles	100 A				150 A			
		FA	FH	FI ■	HD ■	HG ■	HJ ■	HL ■	
HCN	2	2100.	2100.	4642.	3360.	3860.	4540.	5550.	
	3	2418.	2958.	5864.	3770.	4210.	4890.	5900.	
HCM	2	—	—	—	3360.	3860.	4540.	5550.	
	3	—	—	—	3770.	4210.	4890.	5900.	

Panel Type	No. Poles	225 A					400 A				600 A										
		JD ■	JG ■	JJ ■	JL ■	KI ■	DG	DJ	DL	LA	LH	LC ■	LI ■	DG	DJ	DL	LC ■	LI ■	MG	MJ	
HCN	2	3956.	4146.	7126.	7356.	8356.	—	—	—	6132.	9126.	—	—	—	—	—	—	—	—	—	—
	3	4440.	5550.	7466.	8676.	10148.	—	—	—	7136.	10666.	—	—	—	—	—	—	—	—	—	—
HCM	2	3956.	4146.	7126.	7356.	8356.	—	—	—	6132.	9126.	—	—	—	—	—	—	—	—	8880.	11260.
	3	4440.	5550.	7466.	8676.	10148.	—	—	—	7136.	10666.	—	—	—	—	—	—	—	—	10770.	13400.
HCP, HCP-SU	2	—	—	—	—	—	7006.	9751.	10914.	—	—	10366.	11610.	9619.	12364.	13527.	11176.	16504.	8880.	11260.	
	3	—	—	—	—	—	8143.	11574.	13029.	—	—	11888.	13354.	11410.	14841.	16295.	12678.	18090.	10770.	13400.	

Panel Type	No. Poles	800 A ◆								
		MG	MJ	PL ▲	PG ■	PJ ■	PL ■	PGC ■	PJC ■	PLC ■
HCN	2	—	—	—	—	—	—	—	—	—
	3	—	—	—	—	—	—	—	—	—
HCM	2	11846.	14778.	—	—	—	—	—	—	—
	3	14302.	17456.	—	—	—	—	—	—	—
HCP, HCP-SU	2	11846.	14778.	19346.	15830.	16830.	21090.	16542.	18510.	24250.
	3	14302.	17456.	23416.	18312.	20280.	24540.	20144.	22300.	28220.

Panel Type	No. Poles	1200 A ■◆★								
		PG	PJ	PL	PG	PJ	PL	RGC	RJC	RLC
HCP, HCP-SU	2	22542.	24336.	26648.	22380.	24980.	27980.	24618.	24478.	32178.
	3	24568.	26560.	29128.	28710.	31310.	35570.	31582.	34442.	40906.
HCR-U	2	22542.	24336.	26648.	22380.	24980.	27980.	24618.	24478.	32178.
	3	24568.	26560.	29128.	28710.	31310.	35570.	31582.	34442.	40906.

▲ When required, add the \$ Price of a solid neutral from Table 9.135.

■ Std. construction back-fed main.

◆ PG, PJ, PL circuit breakers are available with both thermal-magnetic equivalent and Micrologic trip. The Micrologic circuit breakers are available 80% and 100% rated. The "C" suffix denotes a 100% rating.

★ For 1200 A frame thermal magnetic circuit breaker with 600 kcmil lugs, select a R-Frame Thermal Magnetic circuit breaker in the Product Selector.

Table 9.135: Standard Solid Neutral

Solid Neutral	100/225 A	400 A	600 A	800 A	1200 A
	294.	384.	544.	764.	1366.

Table 9.137: Micrologic Trip Units (P- and R-Frame Circuit Breakers)

	Standard	Ammeter	Power	Harmonic
LI (3.0)	Standard	3000.	—	—
LSI (5.0)	1670.	4670.	21600.	32330.
LSIG (6.0)	—	9340.	31000.	37000.

Note: Micrologic circuit breakers come with a standard LI trip unit. Use the above \$ Price adder for increase in trip functionality.

Note: Refer to page 7-42 for trip unit descriptions.

Table 9.136: DG, DJ, DL Electronic Trip Units

	Standard	Ammeter
LS	Standard	—
LSI	1130.	1476.
LSIG	—	—

Table 9.138: I-LINE 200% Rated Neutral—Standard Terminal Configuration ▲

Panel Type	Ampacity	Type	Branch Space		Neutral Terminals Quantity & Size		Type 1 Enclosure					
			Inches	mm	Main	Branch	H		W		D	
							Inches	mm	Inches	mm	Inches	mm
HCM	600 A	MLO	72	1829	(8) 750 kcmil	(35) 350 kcmil, (9)#14-1/0, (17)#14-#4	91	2311	32	813	8.25	210
	600 A (MG, MJ)	M/B	72	1829	(8) 750 kcmil		91	2311	32	813	9.50	241
	800 A	MLO	72	1829	(8) 750 kcmil		91	2311	32	813	8.25	210
	800 A (MG, MJ)	M/B	72	1829	(8) 750 kcmil		91	2311	32	813	9.50	241
HCR-U ■	1200A	M/B, MLO	108	2743	(8) 750 kcmil	(8) 600 kcmil, (15) 350 kcmil (9) #14-1/0, (17) #14-#4	86	2184	44	1118	9.50	241
HCP	600A	M/B, MLO	63	1600	(8) 750 kcmil	(35) 350 kcmil, (9)#14-1/0, (17)#14-#4	68	1727	42	1067	9.50	241
	800A	M/B, MLO	99	2515	(8) 750 kcmil	(35) 350 kcmil, (9)#14-1/0, (17)#14-#4	86	2184	42	1067	9.50	241
HCP-SU ◆	800A	M/B, MLO	54	1371	(8) 750 kcmil	(8) 750 kcmil, (21) 350 kcmil, (9) #14-1/0, (17) #14-#4	86	2184	26	660	9.5	241

▲ Available in Type 1 enclosure only; for pricing see 9-33.

■ 6 in. enclosure extension is required for HCRU I-Line panelboard.

◆ 9 in. enclosure extension is required for HCP-SU I-Line panelboard.

6

PANELBOARDS

Table 9.139: Branch Circuit Breakers (See pages 7-2 through 7-8 for interrupt rating, voltage ratings, Fed. Specs, etc.)

Circuit Breaker Ampere Rating	Circuit Breaker	3-pole ▲					2-pole ▲					1-pole ▲				
		240 V	480 Vac 250 Vdc	600 V	Space Only	H	240 Vac	480 Vac 250 Vdc	600 Vac	Space Only	H	120 V	277 V	277 Vac 125 Vdc	Space Only	H
Thermal-magnetic Circuit Breakers																
15-60 A	FA (FY-1P)	720.	882. ■	1006.	98.	4.5	520.	708.	786.	82.	3	—	—	270. ◆	72.	1.5
70-100 A	FA	832.	1142. ■	1218.	98.	4.5	632.	956.	964.	—	—	354.	384.	384. ◆	72.	1.5
15-60 A	FH	1100.	—	1442.	98.	4.5	1050.	—	1218.	98.	3	—	—	518.	72.	1.5
70-100 A		1300.	—	1940.			1250.	—	1620.			—	650.			
15-60 A	FJ ★	1300.	2080.	—	98.	3	1250.	1660.	—	98.	3	—	664.	—	72.	1.5
70-100 A		1500.	2470.	—			1450.	1980.	—			832.	—			
20-100 A	FI	—	—	4254.	98.	4.5	—	—	3466. ■	98.	4.5	—	—	—	—	—
15-60 A	HD	—	—	1350.	98.	4.5	—	—	1150.	98.	3	—	—	—	—	—
70-100 A		—	—	1570.			—	—	1370.			—				
110-150 A		—	—	2710.			—	—	2370.			—				
15-60 A	HG	—	—	1710.	98.	4.5	—	—	1352.	98.	3	—	—	—	—	—
70-100 A		—	—	2198.			—	—	1508.			—				
110-150 A		—	—	3310.			—	—	3110.			—				
15-60 A	HJ	—	—	2380.	98.	4.5	—	—	2002.	98.	4.5	—	—	—	—	—
70-100 A		—	—	2700.			—	—	2364.			—				
110-150 A		—	—	4500.			—	—	3980.			—				
15-60 A		—	—	3910.			—	—	3250.			—				
70-100 A	HL	—	—	4054.	98.	4.5	—	—	3402.	98.	4.5	—	—	—	—	—
110-150 A		—	—	5530.			—	—	4600.			—				
70-225 A		—	—	—			98.	4.5	560.			—	—	82.	3	—
70-225 A	QD	2208.	—	—	98.	4.5	1300. ■	—	—	82.	3	—	—	—	—	—
70-225 A	QG	2870.	—	—	98.	4.5	2800.	—	—	82.	3	—	—	—	—	—
70-225 A	QJ	3070.	—	—	98.	4.5	3000.	—	—	82.	3	—	—	—	—	—
150-225 A	JD	—	—	2820.	98.	4.5	—	—	2600.	98.	4.5	—	—	—	—	—
250 A		—	—	3800.			3600.	—	3430.			—				
150-225 A	JG	—	—	3990.	98.	4.5	4600.	—	2790.	98.	4.5	—	—	—	—	—
250 A		—	—	4180.			3900.	—	3620.			—				
150-225 A	JJ	—	—	6110.	98.	4.5	4000.	5434.	5770.	98.	4.5	—	—	—	—	—
250 A		—	—	6500.			4300.	6672.	6450.			—				
150-225 A	JL	—	—	7320.	98.	4.5	—	—	5434.	98.	4.5	—	—	—	—	—
250 A		—	—	8900.			4300.	6672.	6800.			—				
150-225 A	KI	—	—	7972.	98.	4.5	—	—	6216. ■	98.	4.5	—	—	—	—	—
250 A		—	—	9268.			—	—	7262. ■			—				
300-400 A	LA	—	—	4916.	252.	6	—	—	3980.	252.	6	—	—	—	—	—
300-400 A	LH	—	—	5312.	—	—	—	—	4500.	—	—	—	—	—	—	—
300-400 A	LC	5460.	—	10156.	456.	7.5	4550.	—	8634.	456.	7.5	—	—	—	—	—
450-600 A		—	—	10422.			—	—	8920.			—				
300-400 A	LI	—	—	11622.	456.	7.5	—	—	9878. ■	456.	7.5	—	—	—	—	—
450-600 A		—	—	15834.			—	—	14248. ■			—				
300-600 A	MG	—	—	8152.	662.	9	—	—	6322.	662.	9	—	—	—	—	—
700-800 A		—	—	10600.			—	—	8180.			—				
300-600 A	MJ	—	—	10126.	662.	9	—	—	8536.	662.	9	—	—	—	—	—
700-800 A		—	—	13306.			—	—	10944.			—				
600-800 A	PL	—	20360.	—	662.	9	—	16290.	—	662.	9	—	—	—	—	—
600-1200 A	PG	—	—	19966.	662.	9	—	—	17940.	662.	9	—	—	—	—	—
600-1200 A	PJ/PK	—	—	21960.	662.	9	—	—	19724.	662.	9	—	—	—	—	—
1000-1200 A	PL	—	24526.	—	662.	9	—	22046.	—	662.	9	—	—	—	—	—
Electronic Trip Circuit Breakers (% Rated)																
60-400 A	DG (100%) ▼	—	5687.	—	252.	6	—	4550.	—	252.	6	—	—	—	—	—
600 A	DG (80%) ▼	—	8954.	—	252.	6	—	7163.	—	252.	6	—	—	—	—	—
60-400 A	DJ (100%) ▼	—	9118.	—	252.	6	—	7295.	—	252.	6	—	—	—	—	—
600 A	DJ (80%) ▼	—	12385.	—	252.	6	—	9908.	—	252.	6	—	—	—	—	—
60-400 A	DL (100%) ▼	—	10573.	—	252.	6	—	8458.	—	252.	6	—	—	—	—	—
600 A	DL (80%) ▼	—	13839.	—	252.	6	—	11071.	—	252.	6	—	—	—	—	—
250-400 A	PG (80%) Δ	—	—	8900.	662.	9	—	—	7120.	662.	9	—	—	—	—	—
450-600 A		—	—	13310.			—	—	10648.			—				
700-800 A		—	—	14730.			—	—	12402.			—				
1000-1200 A		—	—	21240.			—	—	16992.			—				
250-400 A	PJ/PK (80%) Δ	—	—	10400.	662.	9	—	—	9240.	662.	9	—	—	—	—	—
450-600 A		—	—	15570.			—	—	12450.			—				
700-800 A		—	—	17220.			—	—	13780.			—				
1000-1200 A		—	—	24850.			—	—	19880.			—				
250-400 A	PL (80%) Δ	—	15400.	—	662.	9	—	12320.	—	662.	9	—	—	—	—	—
450-600 A		—	20570.	—			—	16450.	—							
700-800 A		—	22220.	—			—	17780.	—							
1000-1200 A		—	29850.	—			—	23880.	—							
250-400 A	PGC (100%) Δ	—	—	9790.	662.	9	—	—	7832.	662.	9	—	—	—	—	—
450-600 A		—	—	14642.			—	—	11714.			—				
700-800 A		—	—	16200.			—	—	13642.			—				
250-400 A		PJC/PKC (100%) Δ	—	—			11960.	662.	9			—	—	9570.	662.	9
450-600 A	—		—	17900.	—	—	14330.			—						
700-800 A	—		—	19800.	—	—	15840.			—						
250-400 A	PLC (100%) Δ		—	16940.	—	662.	9			—	13550.	—	662.	9		
450-600 A		—	22620.	—	—			18100.	—							
700-800 A		—	24440.	—	—			19560.	—							
1000-1200 A		RGC (100%) Δ	—	—	24460.			662.	15	—	—	19580.			662.	15
1000-1200 A	RJC (100%) Δ	—	—	26710.	—	—	21380.			—						
1000-1200 A	RLC (100%) Δ	—	—	32580.	—	—	26080.			—						

▲ Refer to pages 7-4 through 7-8 for additional dc ratings.
 ■ ac only.
 ◆ FA, 1P.
 ★ 480Y/277 Volt rated circuit breaker—Do not use on 480 Volt 3Ø3W Delta systems.
 ▼ Refer to Table 9.136 on page 9-31 for DG, DJ & DL Electronic trip unit price adders.
 Δ Refer to Table 9.137 on page 9-31 for P and R Frame Micrologic trip unit price adders.

Class 2110 / Refer to Catalog 2110CT9701

Table 9.140: QO Plug-On Branch Circuit Breakers

	\$ Price
Transition Charge per 6 QO one-pole spaces (H=4.5 in. per 6 one-pole spaces)	328.
\$ Price for QO Branch circuit breakers	on page 7-10

Table 9.141: Sub-feed/Feed-through Lugs

Ampere Rating	2 or 3-pole Branch Mounted; SL Kit used for both SFL and TFL.				
	225 A	400 A	600 A	800 A	1200 A
\$ Price	368.	600.	858.	1490.	1890.

Table 9.142: Ground Bars

	\$ Price
Equipment Ground Bar	180.
Copper Ground Bar (Add to equipment ground bar \$ Price)	148.
Insulated/Isolated Ground Bar (Add to equipment ground bar \$ Price)	\$ Price Addl. Neutral Assembly

Table 9.143: Name Plates

	\$ Price
Standard white face/black letter laminated bakelite, 1 in. x 3.5 in., adhesive backed or screw mountable with screws in a bag assembly (\$ Price includes engraving)	78.

Table 9.144: Copper Bus Bars

Ampere Rating	Type	\$ Price
225 A	HCN, HCM	528.
400 A	HCN, HCM, HCP, HCR-U	720.
600 A	HCN	720.
600 A	HCM, HCP, HCR-U	1274.
800-1200 A		1274.

Table 9.145: Neutrals

Ampere Rating	Type	\$ Price Adder
100-400 A	Copper Neutral	868.
600 A	Copper Neutral	894.
800 A	Copper Neutral	1108.
1200 A	Copper Neutral	1352.

Table 9.146: 200% Rated Neutrals

Ampere Rating	Type	\$ Price Adder
225 A	Aluminum	820.
400 A	Aluminum	940.
600 A	Aluminum	1340.
800 A	Aluminum	1350.
1200 A	Aluminum	2020.
225 A	Copper	1210.
400 A	Copper	1300.
600 A	Copper	1980.
800 A	Copper	2500.
1200 A	Copper	2900.

Table 9.147: Metal Directory Frame

Metal Directory Frame	\$ Price Adder
Frame attached to trim (not available on four piece trim)	140.

Table 9.148: Door-in-Door Trim

Door-in-Door Trim	\$ Price Adder
Trim has piano hinge down one side. Door opens by single latch; Entire trim opens by removing screws.	646.
Hinged Door-in-Door with Outer Door Lock Added	836.

Table 9.154: Surgeloc Branch Mounted I-Line TVSS—Model IMA

Voltage	Surge Current Rating kA									
	100 kA		120 kA		160 kA		200 kA		240 kA	
	FC	FI	FC	FI	FC	FI	FC	FI	FC	FI
120/240 1P3W	18908.	20416.	20088.	21692.	23634.	25520.	29354.	30958.	34534.	36420.
208Y/120 3P4W	19750.	21260.	20984.	22588.	24688.	26574.	30740.	32342.	36164.	38050.
240/120 3P4W	19750.	21260.	20984.	22588.	24688.	26574.	30740.	32342.	36164.	38050.
480Y/277 3P4W	20602.	22110.	21898.	23492.	25752.	27638.	32130.	33734.	37800.	39686.
600Y/347 3P4W	—	23000.	—	24438.	—	28750.	—	35198.	—	41400.

Table 9.149: Weatherproof or Dusttight Cabinets—Type 3R, 5, 12

Weatherproof or Dusttight Cabinets	\$ Price Adder
Maximum 26 in. wide box	2156.
Maximum 28 in. wide box	3312.
Maximum 42 in. wide box	3312.
Maximum 44 in. wide box	3312.

Table 9.150: Copper Mechanical Lugs

Ampere Rating	Main Lug Interiors	Main Circuit Breaker Interiors ▲
	\$ Price per Pole	
100/125 A	70.	70.
250 A	108.	108.
400 A	148.	148.
600 A	168.	168.
800 A	N/A	196.
1200 A	N/A	236.

▲ Compression lugs are not available on LC, LI, LE, LX, LXI, MG, MJ, PG, P.J, PL, RGC, RJC, RLC I-Line circuit breakers. Available on MA and MH circuit breakers.

Table 9.151: Copper Compression Lugs

Ampere Rating	Main Lug Interiors	Main Circuit Breaker Interiors ▲
	\$ Price per Pole	
100/125 A	70.	70.
250 A	108.	108.
400 A	148.	148.
600 A	168.	168.
800 A	316.	316.
1200 A	836.	N/A

▲ Compression lugs are not available on LC, LI, LE, LX, LXI, MG, MJ, PG, P.J, PL, RGC, RJC, RLC I-Line circuit breakers. Available on MA and MH circuit breakers.

Table 9.152: Aluminum Compression Lugs VCEL

Ampere Rating	Main Lug Interiors	Main Circuit Breaker Interiors ▲
	\$ Price Per Pole	
100A	29.00	29.00
150A	N/A	29.00
250A	29.00	49.00
400A	45.00	74.00
600A	59.00	131.00
800A	100.00	N/A
1200A	118.00	N/A

Note: Additional factory modifications, see 9-37.

▲ Compression lugs are not available on LC, LI, LE, LX, LXI, MG, MJ, PG, P.J, PL, RGC, RJC, RLC I-Line circuit breakers. Available on MA and MH circuit breakers.

Surgeloc® TVSS—Model IMA

Surgeloc TVSS unit in I-LINE plug-on construction: An integrally mounted surge protection solution that mounts on to an I-Line Panelboard bus stack just like a J-Frame circuit breaker. Requires 13.5 in. of mounting height. Available as factory assembled and merchandised. For TVSS unit pricing and information, refer to Section 6 pages 3-4.



I-Line Plug-On Unit with Surgeloc TVSS

Table 9.153: Surgeloc TVSS Options

Surgeloc TVSS Options	\$ Price
Surge Counter	1650.
Dry Contacts	Standard
Remote Monitor	2588.

Note: Requires HCM interior minimum.

Table 9.156: Base \$ Price

Main Lugs			Main Switch ▲				Solid Neutral (Main Lugs and Main Switch)			
Mains Rating (Amperes)	Maximum Mounting Space (Inches)	Base \$ Price (2- or 3-pole)	Mains Rating (Amperes)	Maximum Mounting Space (Inches)	240 Vac		600 Vac		Ampere Rating	\$ Price
					Base \$ Price		Base \$ Price			
					2-pole	3-pole	2-pole	3-pole		
—	—	—	100 ■	51	2544.	3104.	3026.	3632.	100	294.
—	—	—	200 ■	51	2544.	3104.	3026.	3632.	200	294.
225	60 ■	1098.	—	—	—	—	—	—	225	294.
400	60 ■	1344.	400	45	4840.	6158.	5906.	7300.	400	384.
600	60 ■	2066.	600	45	7298.♦	8758.♦	7968.★▼	9338.★	600	556.
800	60 ■	2550.	800	45	11098.	13704.♦	11128.★	13724.★	800	786.
1200	45	3550.	—	—	—	—	—	—	1200	912.

- ▲ Pricing includes Class R or J Rejection Clips if requested at time of order. Class J fuses available only on 600 V switches.
- 800 A switch unit with provision for UL Class L fuses.
- ♦ Switches for use with 300 V Class T fuses are also available at no additional cost.
- ★ For 600 Vac UL Class T fuse provision on main switch, add \$ 321.00
- ▼ 250 Vdc rating.

Table 9.157: Branch Switch \$ Price ▲

Unit Ampere Rating	Switch Type	240 Vac				600 Vac			
		2-pole \$ Price	3-pole \$ Price	Space Only \$ Price	Unit Mounting Height (Inches)	2-pole \$ Price	3-pole \$ Price	Space Only \$ Price	Unit Mounting Height (Inches)
Twin Mounted Branch Switches ■									
30-Blank	QMB	—	—	—	4.5	—	—	—	4.5
60-Blank	QMB	592.	784.	294.	6	852.	1012.	294.	6
100-Blank	QMB	898.	1104.	392.	6	1276.	1592.	396.	7.5
	QMJ ♦	—	—	—	—	—	—	396.	6
200-Blank	QMJ ♦	—	—	—	—	1984.	2576.	462.	7.5
60-30	QMB	—	—	—	—	1216.	1446.	396.	6
100-30	QMB	—	—	—	—	—	—	—	—
100-60	QMB	1822.	2274.	396.	6	1822.	2274.	462.	7.5
30-30	QMB	826.	1120.	294.	4.5	1216.♦	—	—	—
	QMJ ♦	—	—	—	—	1216.	1446.	294.	4.5
60-60	QMB	826.	1120.	294.	4.5	1216.♦	—	—	—
	QMJ ♦	—	—	—	—	1216.	1446.	396.	6
100-100	QMB	1282.	1576.	396.	6	1822.▼	—	—	—
	QMJ ♦	—	—	—	—	1822.	2274.	462.	7.5
200-200	QMB	—	—	—	—	3970.	5154.	462.	7.5
Single Mounted Branch Switches									
200	QMB	1484.	2034.	580.	9	1984.♦	2576.	580.	9
400	QMB	3204.	4562.	878.	15	4300.♦	5764.♦	878.	15
400★	QMB	3040.★	4360.★	580.	9	4098.♦★	5552.♦★	580.	9
400	QMJ ♦	—	—	—	—	4098.	5552.	—	—
600	QMB	4888.▼	6374.♦▼	878.	15	5264.♦△	6962.♦△	—	—
600	QMJ ♦	—	—	—	—	5264.	6962.	878.	15
800□	QMB	10682.	10682.▼	878.	15	10682.△	10682.△	—	—

- ▲ Pricing includes Class R or J Rejection Clips if requested at time of order. Class J fuses available only on 600 V switches.
- \$ Price is per twin switch.
- ♦ 250 Vdc rating.
- ★ For use with Class T fuses only. Use 300 V Class T fuses on 240 Vac max. systems and 600 V Class T fuses on 600 Vac max. systems.
- ▼ Switches for use with 300 V Class T fuses are also available at no additional cost.
- △ For 600 Vac UL Class T fuse provision on branch switch, add \$ 307.00
- 800 A switch unit with provision for UL Class L fuses.

Table 9.158: Accessories

Electrical Interlocks		Branch Switches 30-200 A \$ Price	Mains Ampere Rating	Sub-feed Lugs ▲ for Main Lugs Interior ▲	Feed-through Lugs for Main Switch Interior	Copper Bus Bars
Number of Contacts Normally Open	Number of Contacts Normally Closed					
1	1	472.	200	—	836.	488.
2	2		225	282.	—	488.
			400	466.	872. ■	720.
			600	856.	1268. ■	1148.
			800	1150.	1512. ■	1372.
			1200	1440.	—	1428.

- ▲ No extra box height required.
- Box height increases 6 in. Not available in Type 3R/5/12 construction, or with door over QMB option.

Table 9.159: Circuit Breakers, Twin Mounted H-Frame— \$ Price Per Twin Unit

Circuit Breaker Ampere Rating		Unit Mounting Height (Inches)	\$ Price—3-pole						
Left Unit	Right Unit		240 V		480 V		600 V		Space Only
			HD	HG	HD	HG	HD	HG	
15-150 A	15-150 A	6	2914.	3572.	3324.	3814.	3674.	4018.	396.

Note: See Supplemental & Obsolescence Digest for merchandised motor starter units, QMB RT1 panelboards and replacement switches for Series 1-4 & D2 QMB panelboards.

Table 9.160: Circuit Breaker, Single Mounted JD-LA— \$ Price Each

Circuit Breaker Ampere Rating	Unit Mounting Height (Inches)	\$ Price—3-pole			Space Only
		600 V			
		JD	JG	LA	
150-250 A	6	3800.	5814.	—	396.
225-400 A	7.5	—	—	5664.	462.

Table 9.161: UL Listed Short Circuit Ratings

Starter Size	Fusible Switch—600 V Max. (w/Class R or J Fuses) RMS Sym. Amps	Thermal-magnetic Circuit Breaker 600 V Max. RMS Sym. Amps
0	100,000	5,000
1	100,000	5,000
2	100,000	5,000
3	100,000	5,000

Table 9.162: Ground Bar and Name Plates

	\$ Price
Equipment Ground Bar	180.
Copper Ground Bar (Add to Equipment Ground Bar \$ Price)	148.
Insulated/Isolated Ground Bar \$ Price an Additional Neutral Assembly from Table 9.156 on page 35 for Al insulated ground bar or from Table 9.163 for Cu insulated ground bar. (Add to Equipment Ground Bar \$ Price)	
Name Plates Standard white face/black letter laminated bakelite, 1 in. x 3.5 in. adhesive backed or screw mountable with screws in a bag assembly (\$ Price includes engraving)	78.

Table 9.163: Copper Neutral

Copper Neutral	\$ Price
125-400 A	868.
600 A	894.
800 A	1108.
1200 A	1352.
1600 A	1616.
Hinged Trim	N/A
Door option for Type 1 enclosure	806.
Weatherproof or Dusttight Cabinets—Type 3R, 5, 12 800 A Maximum	3054.
Mechanical Lugs 225 A-1200 A	Standard

Table 9.164: Copper Mechanical Lugs—Main Lug Interiors

Copper Mechanical Lugs	\$ Price
225-1200 A	Standard

Table 9.165: Copper Mechanical Lugs—Main Switch Interiors

Copper Mechanical Lugs	\$ Price
200 A	108.
400 A	148.
600 A	168.
800 A	196.

Table 9.166: Copper Compression Lugs—Main Lug Interiors

Copper Compression Lugs	\$ Price
225 A	108.
400 A	148.
600 A	168.
800 A	316.
1200 A	836.

Table 9.167: Aluminum Compression Lugs VCEL—Main Lug Interiors

Aluminum Compression Lugs VCEL	\$ Price
225 A	58.
400 A	90.
600 A	118.
800 A	200.
1200 A	236.

Table 9.168: Aluminum Compression Lugs VCEL—Main or Branch Switches

Aluminum Compression Lugs VCEL	\$ Price
100 A #8-1/0 Al or Cu	58.
200 A #4-300 kcmil Al or Cu	98.
400 A 2/0-500 kcmil Al or Cu	128.
600 A 2/0-500 kcmil Al or Cu	246.
800 A 2/0-500 kcmil Al or Cu or 500 kcmil Cu or 500-750kcmil Al.	262.

Table 9.169: Copper Compression Lugs—Main Switch Interiors

Copper Compression Lugs	\$ Price
200 A	108.
400 A	148.
600 A	168.
800 A	196.

Table 9.170: SurgeLogic® TVSS for QMB—Model IMA▲

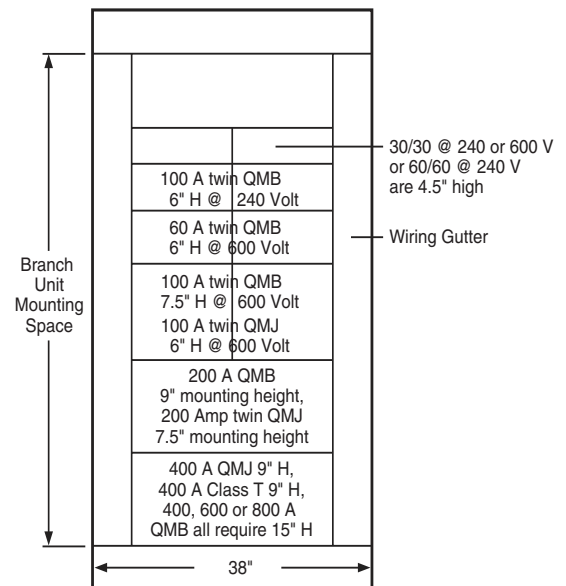
Surge Current Rating kA	Voltage				
	120/240 V	208Y/120 V	240/120 Vac	480Y/277 Vac	600Y/347 Vac
	1Ø3W	3Ø4W	3Ø4W High Leg	3Ø4W	3Ø4W
100	—	14310.	—	15410.	—
120	—	15654.	—	16754.	—
160	—	18586.	—	19686.	—
200	19196.	23596.	23596.	26896.	26896.
240	23760.	27440.	27440.	31460.	31460.

Table 9.171: TVSS Options

SurgeLogic TVSS Options	\$ Price
Surge Counter	1650.
Dry Contacts	Standard
Remote Monitor	2588.

▲ Requires 9 in. of mounting height.

QMB Layout Information



To maximize the quantity of branch switches, use QMJ switches on 9-35. Class K fuses are available in time delay construction suitable for motor and transformer loads.

Table 9.172: NQ and NF Lighting Contactors—Mechanically Held
(Furnish a one line power and control voltage connection diagram.)

Ampacity	Mechanically Held		
	Type	\$ Price	Minimum Additional Box Height Required ▲ H (in.)
Square D Type PB ■			
30 A 2P	PBM10B	3772.	18
60 A 2P	PBP10B	4634.	18
75 A 2P	PBN10B	4986.	18
100 A 2P	PBQ10B	5072.	18
150 A 2P	PBR10B	7156.	18
200 A 2P	PBV10B	8692.	18
225 A 2P	PBW10B	9830.	18
30 A 3P	PBM11B	3740.	18
60 A 3P	PBP11B	4754.	18
75 A 3P	PBN11B	5628.	18
100 A 3P	PBQ11B	6454.	18
150 A 3P	PBR11B	8078.	18
200 A 3P	PBV11B	8736.	18
225 A 3P	PBW11B	10062.	18
ASCO Type 920 ◆			
30 A 2P	9202030	4694.	18
60 A 2P	9202060	5954.	18
75 A 2P	9202075	5954.	18
100 A 2P	9202100	6194.	18
150 A 2P	9202150	9242.	18
200 A 2P	9202200	10882.	18
225 A 2P	9202225	11875.	18
30 A 3P	9203030	5436.	18
60 A 3P	9203060	7638.	18
75 A 3P	9203075	7638.	18
100 A 3P	9203100	9184.	18
150 A 3P	9203150	12998.	18
200 A 3P	9203200	14434.	18
225 A 3P	9203225	15750.	18

- ▲ NF panels require 18 in. of additional box height regardless of contactor ampacity or manufacturer.
- If two-wire control is required — Square D Add 708. (No additional width or depth required)
- ◆ If two-wire control is required — ASCO Add 1412. (No additional width or depth required)

Table 9.173: Current Density Rated Panelboard Bus and Special Plating for Copper Bus

Ampacity	Copper Bus Special Plating \$ List Price Adder ▲	Current Density Rated Bus \$ List Price Adder	
	Tin or Silver Plating	1000 A/in ² Cu	750 A/in ² Al
100 A	1240.	510. ■	340. ◆
125 A			
225 A	1240.	610. ■	456. ◆
250 A			
400 A	2080.	830.	572. ◆
600 A	2080.	1050. ◆	1080. ◆◆
800 A	2080.	1490.	1244. ★
1200 A	2080.	1710.	1432. ★
1600 A	2080.	1940.	Copper (Cu) Only

- ▲ Standard copper bus plating material
– NQ and NF: Silver plated bus/tin plated connectors
– I-Line and QMB: Tin.
- NQ available in 42 circuit only.
- ◆ Not available in NQ.
- ★ HCN 600 A and all 800–1200 A I-Line interiors available with copper bus only.

Table 9.174: NQ and NF Panelboard Split Bus Bars

Maximum Ampacity MLO	\$ List Price Adder		Maximum Number of Pole Spaces Available		Box Height (ft.)
	1-phase	3-phase	Main	Split	
NQ Panelboards—125 A Maximum Lugs on Split Bus Section ▲					
225 A	600.	900.	18	30	44
			30	18	
				30	
NF Panelboards—125 A Maximum Lugs on Split Bus Section ▲					
250 A	—	900.	18	30	56
			30	18	
				30	

- ▲ When greater than 125 A lugs are required on the split section of the bus, consult your local Square D/Schneider Electric sales office for box height.

Table 9.175: I-Line® Panelboards Split Bus Bars

Ampacity MLO	\$ Price		Additional Mounting Height Required On Split Bus Section ▲
	2-pole	3-pole	Split Bus
225 A	560.	662.	7.5 in.
400 A	662.	858.	9 in.
600 A	786.	858.	12 in.
800 A	1094.	1238.	12 in.
1200 A	1320.	1442.	18 in.

Note: For applications with main circuit breaker panelboards, contact the Square D/Schneider Electric local Field Sales Office.

- ▲ For I-Line panelboards, dimension includes height of "SL" sub-feed lug kit from Digest, plus 3 in. from available branch mounting space.

Main Circuit Breaker Without Overload Trip (Automatic Molded Case Switch)

- (Not UL Listed)
- \$ Price as standard main circuit breaker, No adder

Shunt Trip Circuit Breakers

- See page 7-35 for pricing.

NOTE: For molded case switch and automatic molded case switch short circuit current ratings, see page 7-33.

For information on the following Special Features please refer to the Supplemental & Obsolescence Digest.

- Powerlogic® metering▲
- Customer equipment space (NQ and NF)▲
- Increased box depth▲
- Increased gutters—top, bottom and sides▲
- Non-standard paint▲
- Welded base channel▲
- Type 1 gasketed▲
- Type 2 drip hood▲
- Type 3R/4/4X/5/12 stainless steel enclosure▲
- Type 4X fiberglass enclosure▲
- Stainless steel trim front▲
- Padlockable hasp▲
- Special locks (Corbin, Yale, Best)▲
- Equal height boxes▲
- Common trim to cover two equal height boxes▲
- Panelboard skirt—hides conduits feeding a panelboard▲
- Panelboard wireway—for terminating conduit in wireway endwall▲
- Keyed mechanical interlocking of two or more circuit breakers (I-Line and QMB)▲
- Motor operators (I-Line only)
- Panelboard interiors and special fronts to fit existing boxes
- A standard panelboard box has one blank endwall & one with knockouts. Blank endwalls or knockouts in both endwalls are also available▲

- ▲ Supported by the Panelboard Product Selector

Table 9.176: NQ Standard Aluminum Mechanical Lugs—Main Lugs

Panel Type	Ampere Rating	Lug Wire Range
NQ	100	one #6-2/0 Al or Cu
	225	one #6-350 kcmil Al or Cu
	400	one 1/0-750 kcmil or two 1/0-350 kcmil Al or Cu
	600	two 1/0-750 kcmil Al or Cu

Table 9.177: NQ Standard Aluminum Mechanical Lugs—Main Circuit Breaker

Panel Type	Ampere Rating	Circuit Breaker Type	Lug Wire Range ▲
NQ	100	QOB	one #4-#2/0 Al or Cu
		FI	one #14-#1/0 Al or Cu
	150	HD, HG, HJ, HL	one #14-#3/0 Al or Cu
	225	QB, QD, QG, QJ	one #14-1/0 Cu or #8-1/0 Al
	250	JD, JG, JJ, JL	one #3/0-350 kcmil Al or Cu▲
		KI	one #1/0-350 kcmil Al or Cu
	400	LA, LH	one #1-600 kcmil Al or Cu or two #1-250 kcmil Al or Cu
	600	LC	two #4/0-500 kcmil Al or Cu

▲ The lug range shown is for the highest amperage of the circuit breaker frame shown in the table.

Table 9.178: NF Standard Mechanical Lugs—Main Lugs

Panel Type	Ampere Rating	Lug Wire Range
NF	125	one #6-2/0 Al or Cu
	250	one #6-350 kcmil Al or Cu
	400	one #1/0-750 kcmil or two #1/0-350 kcmil Al or Cu
	600	two #1/0-600 kcmil Al or Cu
	800	three #4/0-500 kcmil Al or Cu

Table 9.179: NF Standard Mechanical Lugs—Main Circuit Breaker

Panel Type	Ampere Rating	Circuit Breaker Type	Lug Wire Range ▲
NF	125	ED, EG, EJ	one #14-#2/0 Al or Cu
	100	FI	one #14-#1/0 Cu or one #12-#1/0 Al
	150	HD, HG, HJ, HL	one #14-#3/0 Al or Cu
	250	JD, JG, JJ, JL	one #3/0-350 kcmil Al or Cu▲
	250	KI	one #1/0-350 kcmil Al or Cu
	400	LA, LH	one #1-600 kcmil or two #1-250 kcmil Al or Cu
	600	LC, LI, LE, LX, LXI	two #4/0-500 kcmil Al or Cu

▲ The lug range shown is for the highest amperage of the circuit breaker frame shown in the table.

Table 9.180: Standard Mechanical Lugs—Main Lugs

Panel Type	Ampere Rating	Lug Wire Range ▲	Wire Range Wire Bending Space per NEC Table 373-6 ▲
I-Line	100	—	—
	225	one #6–300 kcmil Al or Cu	one #6–300 kcmil Al or Cu
	400	two #2–600 kcmil Al or Cu	one #2–600 kcmil Al or Cu
	600	two #2–600 kcmil Al or Cu	two #2–500 kcmil Al or Cu
	800	(4) 3/0–750 kcmil Al or Cu	(3) 3/0–500 kcmil Al or Cu
	1200	(4) 3/0–750 kcmil Al or Cu	(4) 3/0–500 kcmil Al or Cu

▲ (#) = Number of conductors per phase.

Table 9.181: Standard Mechanical Lugs—Main Circuit Breaker

Panel Type	Ampere Rating	Circuit Breaker Type	Lug Wire Range ▲	Wire Range Wire Bending Space per NEC Table 373-6 ▲
I-Line	100	FA, FH, FI	one #14–1/0 Al or Cu	one #14–1 Al or Cu
	150	HD, HG, HJ, HL	one #14–#3/0 Al or Cu	one #14–#3/0 Al or Cu
	225	KI	one #4–300 kcmil Al or Cu	one #4–300 kcmil Al or Cu
	250	JD, JG, JJ, JL	one #1/0–#4/0 Al or Cu or	one #1/0–300 kcmil Al or Cu
	400	LA, LH, LC, LX, LE, LI, LXI	one #1–600 kcmil Al or Cu	one #1–600 kcmil Al or Cu
	600	LC, LX, LE, LI, LXI, MA, MH	two 4/0–500 kcmil Al or Cu	two 4/0–500 kcmil Al or Cu
	800	MG, MJ	(3) 3/0–500 kcmil Al or Cu	(3) 3/0–500 kcmil Al or Cu
	800	PG, PJ, PL	(3) 3/0–500 kcmil Al or Cu	(3) 3/0–500 kcmil Al or Cu
	1200	PG, PJ, PL, RGC, RJC, RLC	(4) 3/0–600 kcmil Al or Cu	(4) 3/0–500 kcmil Al or Cu

▲ (#) = Number of conductors per phase.

Table 9.182: Standard Mechanical Lugs—Main Lugs

Panel Type	Mains Ampere Rating	Lug Wire Range ▲	Wire Range Wire Bending Space per NEC Table 373-6 ▲
QMB	225	one #6–300 kcmil Al or Cu	one #6–300 kcmil Al or Cu
	400	one #6–300 kcmil Al or Cu and, one 3/0–750 kcmil Al or Cu	one #6–300 kcmil Al or Cu and, one 3/0–750 kcmil Al or Cu
	600	two 3/0–500 kcmil Al or Cu	two 3/0–500 kcmil Al or Cu
	800	(4) 3/0–750 kcmil Al or Cu	(3) 3/0–500 kcmil Al or Cu or two 3/0–750 kcmil Al or Cu
	1200	(4) 3/0–750 kcmil Al or Cu	(4) 3/0–500 kcmil Al or Cu or (4) 3/0–750 kcmil Al or Cu
	1600	VCEL Compression Lugs Standard	

▲ (#) = Number of conductors per phase.

Table 9.183: Standard Mechanical Lugs—Main Switch

Panel Type	Mains Ampere Rating	Lug Wire Range ▲	Wire Range Wire Bending Space per NEC Table 373-6 ▲
QMB	200	#4–300 kcmil Al or Cu	one #4–300 kcmil Al or Cu
	400	3/0–600 kcmil Al or Cu	two 3/0–600 kcmil Al or Cu
	600	3/0–600 kcmil Al or Cu	two 3/0–600 kcmil Al or Cu
	800	3/0–600 kcmil Al or Cu	(3) 3/0–500 kcmil Al or Cu

▲ (#) = Number of conductors per phase.

Table 9.184: Standard Mechanical Lugs—QMB Branch Switch Units

Panel Type	Switch Ampere Rating	Lug Wire Range ▲	Wire Range Wire Bending Space per NEC Table 373-6 ▲
QMB	30	one #14–#2 Al or Cu	one #14–#2 Al or Cu
	60	one #14–#2 Al or Cu	one #14–#2 Al or Cu
	100	one #14–1/0 Al or Cu	one #14–1/0 Al or Cu
	200	one #4–300 kcmil Al or Cu	one #4–300 kcmil Al or Cu
	400	two 3/0–600 kcmil Al or Cu	two 3/0–500 kcmil Al or Cu
	600	two 3/0–600 kcmil Al or Cu	two 3/0–500 kcmil Al or Cu
	800	(3) 3/0–600 kcmil Al or Cu	(3) 3/0–500 kcmil Al or Cu

▲ (#) = Number of conductors per phase.

Table 9.185: Standard Mechanical Lugs—QMJ Branch Switch Units ▲

Panel Type	Switch Ampere Rating	Lug Wire Range ■	Wire Range Wire Bending Space per NEC Table 373-6 ■
QMJ	30	one #14–#2 Al or Cu	one #14–#2 Al or Cu
	60	one #14–#2 Al or Cu	one #14–#2 Al or Cu
	100	one #14–1/0 Al or Cu	one #14–1/0 Al or Cu
	200	one #6–300 kcmil Al or Cu	one #6–300 kcmil Al or Cu
	400	one 1/0–750 kcmil Al or Cu	one 1/0–750 kcmil Al or Cu
	400	two 1/0–300 kcmil Al or Cu	two 1/0–300 kcmil Al or Cu
	600	two 3/0–600 kcmil Al or Cu	two 3/0–600 kcmil Al or Cu

▲ Use only 90°C insulated conductors based on an ampacity of 75°C conductors.

■ (#) = Number of conductors per phase.



Standard Unit

Inverted Unit

Main Circuit Breaker and Current Transformer Compartment

Service Entrance Equipment Hot or Cold Sequence Metering, Top- or Bottom-feed, Indoor Construction at 600 Volts

General: Suitable for use as service entrance equipment on AC systems. Listed by Underwriters' Laboratories.

Service: 1Ø3W, 3Ø3W, 3Ø4W, rated up to 600 Vac maximum.

Metering: ■ Current transformer compartment with provisions for installing bar type current transformers. For window type current transformers, order bus link kit from product selection table below.

Standard unit is factory assembled for bottom feed cold sequence or top feed hot sequence metering applications. The unit is field convertible for bottom feed hot sequence or top feed cold sequence metering. Refer to Class 2730 Installation and Operation Bulletin for field conversion details.

Mains: Main disconnects provided. 400-800 ampere: MJP. 1000-1200 ampere: PJP. Handle lock-off attachment provided for main circuit breaker as standard.

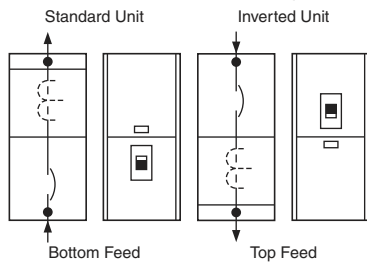
Refer to page 7-37 for field installable accessories.

Enclosure: Front accessible, totally enclosed, gray baked enamel finish. Available as indoor construction only. **Dimensions—78 in. H x 26 in. W x 14.3 in. D**

- ▲ Not EUSERC approved. For EUSERC approved Speed-D switchboard, see pages 11-3 through 11-5.
- Field conversion is the customer's responsibility, only the standard configuration is built by the factory.

Service Applications

Cold Sequence Metering



Hot Sequence Metering

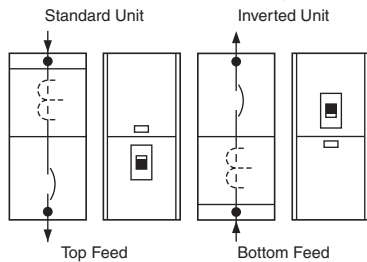


Table 9.186: Product Selection Table

System	Service Voltage (AC)	Ampere Rating of Main	Catalog Number	\$ Price
1P3W, 3Ø3W, 3Ø4W	600 V Max.	400	CTC364CU▲	7020.
		600	CTC366CU▲	8805.
		800	CTC368CU▲	11405.
		1000	CTC3610CU▲	14595.
		1200	CTC3612CU▲	16416.
Bus Link Kit—Utilized when installing window type current transformers			SS4BLC■	228.
Ground Fault Protection Factory installed only◆				4718.

- ▲ Includes 8 in. box extension.
- Kits required per 3Ø application:
400-600 A—Order one kit
800-1200 A—Order two kits
- ◆ Must specify feed (top or bottom) and sequence (hot or cold) at the time of order. Ground fault protection—consists of ground fault relay, ground fault sensor, and display. Available only on 1000 A and 1200 A Units. The Ground fault option adds 8 in. of height to the enclosure (78 in. + 8 in. = 86 in.).

Table 9.187: Lug Table

Ampere Rating	Main Circuit Breaker Lug Wire Range ▲	Ground Lug
400	(3) 3/0-500 kcmil Al or Cu	#6 AWG-300 kcmil Al or Cu
600	(3) 3/0-500 kcmil Al or Cu	
800	(3) 3/0-500 kcmil Al or Cu	
1000	(4) 3/0-500 kcmil Al or Cu	
1200	(4) 3/0-500 kcmil Al or Cu	

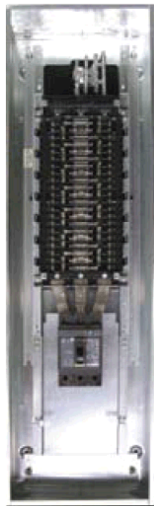
- ▲ CT bus lugs and neutral lugs are identical to the main circuit breaker lugs.

New!



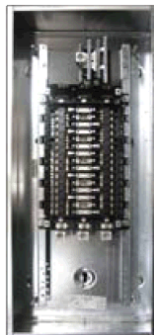
14" Wide NQ Panelboard
Main Lug

New!



Main Breaker Panelboard

New!



Main Lug Panelboard

NQ 14 inch wide Panelboard—240 Vac, 48 Vdc

14" wide NQ panelboards are now available for those customers whose equipment space is limited. Developed with customer input, Square D panelboards are built to last, featuring innovations for ease of installation and durability.

Features

- 240 Vac, 48 Vdc maximum
- 225 A maximum main circuit breaker or main lugs
- 100 A maximum branch circuit breakers
- Visi-Trip® indication on branch circuit breakers
- 10,000 A through 65,000 A Short Circuit Current Rating (SCCR)
- Interiors supplied with tin plated copper bus as standard
- Interiors accept both bolt-on and plug-on branch circuit breakers
- Three-phase, four-wire interiors available
- Panelboards available with Mono-Flat® front
- Suitable for use as service entrance equipment
- Branch circuit filler plates provide fast and easy installation
- Both fully and series rated systems are available

Table 9.188: Main Lugs—Accepts Plug-On and Bolt-On Breakers

Pole Spaces	Mains Rating	Total \$ Price Interior Front and Enclosure		Interior Only (Order Branch Circuit Breakers Separately)		Type 1 Enclosure					
						Box 14"W x 5.75"Db		Mono-Flat® Front		Hinged Front	
		Type 1	Type 3R, 5, 12	Catalog No.	\$ Price	Catalog No.	\$ Price	Catalog No.	\$ Price	Catalog No.	\$ Price
18	100	1407.	—	NQ418L1C14	951.	NQB532	118.	NQC32()	338.	N/A	—
30		1647.	—	NQ430L1C14	1191.	NQB532	118.	NQC32()	338.	N/A	—
30	225	1748.	—	NQ430L2C14	1292.	NQB532	118.	NQC32()	338.	N/A	—
42		2028.	—	NQ442L2C14	1551.	NQB538	118.	NQC38()	338.	N/A	—

Table 9.189: Main Circuit Breaker—Accepts Plug-On and Bolt-On Breakers

Pole Spaces	Mains Rating	Total \$ Price Interior, Front, Box and Adapter Kit		Interior Only (Order Branch Circuit Breakers Separately)		Main Circuit Breaker Adapter Kit (Less Circuit Breaker)		Type 1 Enclosure						
								Box 14"W x 5.75"Db		Mono-Flat® Front		Hinged Front		
		Type 1	Type 12	Catalog No.	\$ Price	Catalog No.	\$ Price	Circuit Breaker Frame Size	Catalog No.	\$ Price	Catalog No.	\$ Price	Catalog No.	\$ Price
15	100	1407.	—	NQ418L1C14	951.	—	—	Select QOB 3-pole or QOB-VH	NQB532	118.	NQC32()	338.	N/A	—
27		1647.	—	NQ430L1C14	1191.	—	—		NQB532	118.	NQC32()	338.	N/A	—
30	225	2528.	—	NQ430L2C14	1292.	NQMB2HJ14	780.	HD, HG, HJ, HL or JD, JG, JJ, JL, QB, QD, QG, QJ	NQB544	118.	NQC44()	338.	N/A	—
42		2808.	—	NQ442L2C14	1551.	NQMB2Q14	780.		NQB550	118.	NQC50()	359.	N/A	—

Note: Copper bussing standard.
Add "F" for flush, "S" for surface.
SFL, TFL and SFC/B are not available (add footnote letter).

PANELBOARDS
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