

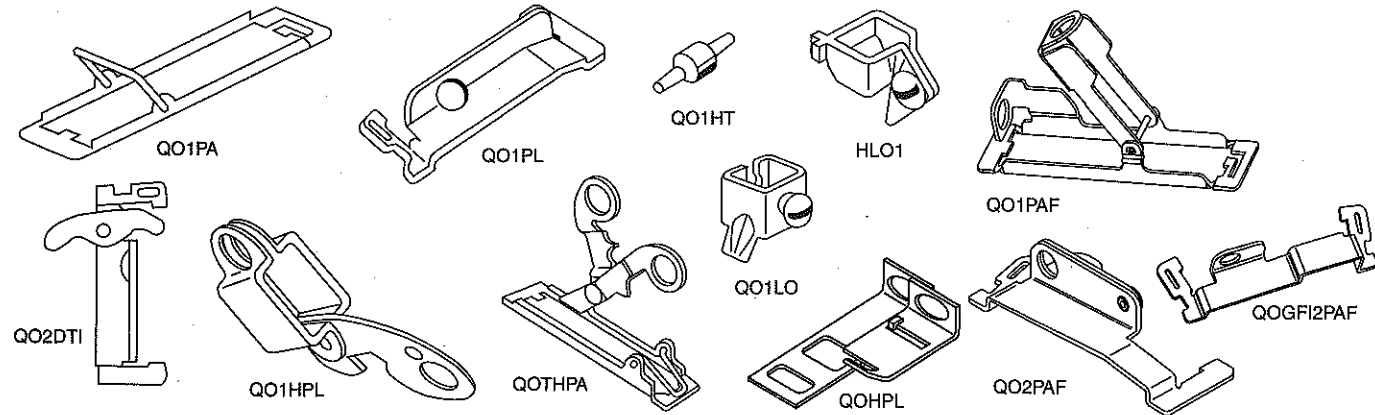


LOAD CENTERS

Table 1.14: Accessories for use with QO and QOB Miniature Circuit Breakers

Description	Cat. No.	\$ Price	Schedule
Handle Attachments			
Handle Tie: Converts any two adjacent 120/240 Vac 1P QO circuit breakers to independent trip 2P	QO1HT	3.80	DE2E
Converts any two adjacent 120/240 Vac 1P side-by-side QOT circuit breakers to independent trip 2P	QO1HT	3.80	DE2E
Handle Clamp: Clamp for holding QO 1P handle in ON or OFF position	QO1LO	3.80	DE2E
Clamp for holding QO or Q1 either 1P, 2P or 3P circuit breaker handles in ON or OFF position	HLO1	9.90	DE2E
Handle Padlock Attachment: for Padlocking 1P QO circuit breaker in ON or OFF position			
Loose attachment	QO1HPL	9.90	DE2E
Fixed attachment	QO1PA	10.70	DE2E
Handle Padlock Attachment: for Padlocking 1P side-by-side QOT circuit breaker in ON or OFF position			
Loose attachment	QO1HPL	9.90	DE2E
Fixed attachment	QO1PA	10.70	DE2E
Handle Padlock Attachment: for Padlocking 2P QO-GFI circuit breakers in either ON or OFF position, fixed attachment.			
Loose attachment	QO1HPL	9.90	DE2E
Fixed attachment	QO1PA	10.70	DE2E
Handle Padlock Attachment: for Padlocking 2P and 3P QO and Q1 standard circuit breakers which require padlocking in either ON or OFF position.			
Loose attachment	QO1HPL	9.90	DE2E
Fixed attachment	QO1PA	10.70	DE2E
Handle Padlock Attachment: for Padlocking 1P QO circuit breaker in OFF position only, fixed attachment.			
Loose attachment	QO1HPL	9.90	DE2E
Fixed attachment	QO1PA	10.70	DE2E
Handle Padlock Attachment: for Padlocking 2P and 3P QO circuit breakers in OFF position only, fixed attachment.			
Loose attachment	QO1HPL	9.90	DE2E
Fixed attachment	QO1PA	10.70	DE2E
Handle Padlock Attachment: for Padlocking 1P QO-GFI, QO-AFI and QO-EPD circuit breakers in OFF position only, fixed attachment.			
Loose attachment	QO1HPL	9.90	DE2E
Fixed attachment	QO1PA	10.70	DE2E
Handle Padlock Attachment: for Padlocking 2P QO-GFI and QO-EPD circuit breakers in OFF position only, fixed attachment.			
Loose attachment	QO1HPL	9.90	DE2E
Fixed attachment	QO1PA	10.70	DE2E
Ring Terminal	See page 7-10	+20% Price Adder	DE2A
Sub-feed Lugs			
60 A 2P plug-on - 2 spaces required (6-2 Al/Cu)	QO60SL	47.10	DE2A
125 A 2P plug-on - 2 spaces required (12-2/0 Al/Cu)	QO125SL	137.00	DE2A
225 A 2P plug-on - 4 spaces required (4-300 Al/Cu)	QO225SL▲	308.00	DE2A
125 A 3P plug-on - 3 spaces required (12-2/0 Al/Cu)	QO3125SL	137.00	DE3
Mechanical Interlock Attachment			
For interlocking the handles of two 2P or one 2P and one 1P QO and Q1 circuit breakers mounted side-by-side so that only one circuit breaker can be ON at a time (Not QOU)	QO2DTI	24.90	DE2E
With Retaining Kit: QO2DTI mechanical interlock attachment with retaining kits for securing two adjacent back-fed circuit breakers in dual power supply applications. Can be used with (2) 2Ps or (1) 2P and (1) 1P QO circuit breakers in QO816L100 load centers.	QO2DTIM	63.00	DE2E

▲ Not suitable for use in 3Ø panels. Use only in 1Ø panel rated 150 A or greater.



Factory-Installed Accessories for use with QO and QOB Miniature Circuit Breakers

Factory-installed electrical accessories take up an additional pole space on QO®, QO-GFI, QO-EPD, QO-SWN and QOU circuit breakers. All AC electrical accessories shown below are rated for 50/60 Hz. Accessories are not available for QOB-VH (2P 150 A and 3P 110-150 A) circuit breakers or QO, QOU molded case switches. QO circuit breakers will accept only one accessory per circuit breaker. Undervoltage trip is not available on miniature circuit breakers. Factory-installed accessories are not available for QO-AFI or QO-CAFI Arc Fault Circuit Breakers or on QO2150, QO2175, or QO2200 circuit breakers.

Table 1.15: Factory-Installed Accessories

Accessory	Description	Rated Voltage	Coil Burden	Cat. No. Suffix	\$ Price Adder	Accessory	Description	Contact Comb.	Max. Voltage	Max. Load	Cat. No. Suffix	\$ Price Adder
Shunt Trip	Trips the circuit breaker from a remote location by means of a trip coil energized from a separate circuit. A 120 Vac shunt trip will operate at 65% or more of rated voltage. All other shunt trips will operate at 75% or more of rated voltage.	12 Vac/Vdc	60 VA	-1042	189.00	Auxiliary Switches	Monitors circuit breaker contact status and provides a remote signal indicating the circuit breaker contacts are OPEN or CLOSED.	1A 1B	120 Vac 120 Vac	5 A 5 A	-1200 -1201	132.00 132.00
		24 Vac/Vdc	168 VA									
		120 Vac	72 VA									
		208 Vac	228 VA									
Shunt Trip	Application • For use with momentary or maintained push button. • Not available on QO-GFI, QO-EPD. • Shunt trip terminals accept (2) 0.14-0.12 AWG Cu.	240 Vac	288 VA			Alarm Switches	Used with control circuits and is actuated only when the circuit breaker has tripped. Standard construction includes a normally-open contact.	1A	120 Vac	5 A	-2100	132.00

DE2 DE2A DE2E DE3 Discount Schedule



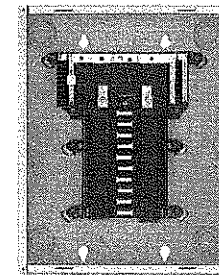
1Ø3W Load Centers, 120/240 Vac, UL Listed

Table 1.16: Main Lugs (Order QO, QOT, QO-EPD, QO-GFI, QO-AFI, and QO-PL branch circuit breakers from pages 1-2 and 1-3)

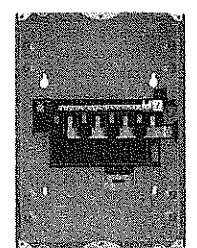
Mains Rating	Spaces	Max. 1P Circuits▲	Max. Tandem Circuit Breakers	\$ Price (Interior, Box and Cover)	Load Center Box and Interior		Indoor Cover with Door (Order Separately)		Main Wire Size AWG/kcmil		Equipment Ground Bar Kit (Order Separately)		Box No. See Page 1-17
					Cat. No.	\$ Price	Flush Cat. No.	Surface Cat. No.	\$ Price	Al	Cu	Cat. No.	
Fixed Mains—Factory-Installed Main Lugs—10 kA Short Circuit Current Rating■													
30 A	2	2	0	41.70	QO2L30S★	41.70			12-10	14-10	PK3GTA1	11.40	1
70 A	2	4	2	69.00	QO2L70F/S▼	69.00	Cover Included—Without Door		12-3	14-4	PK4GTA	10.80	2
100 A	6	12	6	87.00	QO612L100F/S▼	87.00			8-1		PK7GTA	11.70	4
				90.00	QO612L100DF/S▼	90.00	Cover Included—With Door	8-1		PK7GTA	11.70	4	
				131.00	QO816L100F/S▼	131.00	Cover Included—Without Door	8-1		PK7GTA	11.70	4	
100 A	6	12	6	143.00	QO816L100DF/S▼	143.00	Cover Included—With Door		8-1		PK7GTA	11.70	4
				111.00	QO612L100DFCU/S▼	111.00	Cover Included—With Door	8-1		PK7GTA	11.70	4	
125 A	8	16	8	174.00	QO816L100DFCU/S▼	174.00	Cover Included—With Door		8-1		PK7GTA	11.70	4
				93.00	QO148L125GF/S▼	93.00	Cover Included—Without Door	12-2/0	14-2/0	PK7GTA*		21	
Convertible Mains—Factory-Installed Main Lugs—65 kA Short Circuit Current Rating QOM1 Main Frame Size—Convertible to Main Circuit Breaker—Cu Bus▼													
125 A	12	12	0	196.70	QO112L125G	196.70	QOC16UF	QOC16US	37.70			PK9GTA*	6
				236.70	QO11224L125G	236.70	QOC16UF	QOC16US	37.70			PK15GTA*	6
				255.70	QO116L125G	255.70	QOC24UF	QOC24US	37.70			PK12GTA*	7
				300.70	QO11624L125G	300.70	QOC24UF	QOC24US	37.70			PK15GTA*	7
				271.70	QO120L125G	271.70	QOC24UF	QOC24US	37.70	6-2/0		PK15GTA*	7
				370.70	QO12024L125G	370.70	QOC24UF	QOC24US	37.70			PK15GTA*	7
200 A	20	20	0	381.70	QO124L125G	381.70	QOC24UF	QOC24US	37.70			PK15GTA*	7
				434.60	QO132L125G	434.60	QOC32UF	Use Flush	39.60			PK23GTA, LK100AN*	8
				419.00	QO12030L150G	419.00	QOC30UF	QOC30US	87.00			PK23GTA, LK100AN*	9
				431.00	QO124L150G	431.00	QOC30UF	QOC30US	87.00	6-250		PK15GTA*	9
200 A	24	36	12	437.00	QO130L150G	437.00	QOC30UF	QOC30US	87.00			PK23GTA, LK100AN*	9
				353.00	QO112L200G	353.00	QOC30UF	QOC30US	87.00			PK15GTA*	9
				819.00	QO12436L200TFT	819.00	QOC40UF	QOC40US	87.00			PK23GTA, LK100AN*	10
				494.00	QO130L200G	494.00	QOC30UF	QOC30US	87.00			PK23GTA, LK100AN*	9
				554.00	QO13040L200G	554.00	QOC30UF	QOC30US	87.00	6-250		PK23GTA, LK100AN*	9
				746.00	QO140L200G	746.00	QOC40UF	QOC40US	87.00			PK23GTA, LK100AN*	10
				944.00	QO14060L200G	944.00	QOC40UF	QOC40US	87.00			(2) PK15GTA*	10
				921.00	QO14252L200G	921.00	QOC42UF	QOC42US	111.00			(2) PK15GTA*	11
				828.00	QO142L225G	828.00	QOC42UF	QOC42US	111.00	6-300		PK23GTA, LK100AN*	11
				Fixed Mains—Factory-Installed Main Lugs—65 kA Short Circuit Current Rating▼									
400 A	30	30	0	1841.00	QONQ30LS400 (Int) MH50 (box)◊	1080.00 75.00	NC50NQVF	NC50NQVS	486.00	(1) 1/0-750 or (2) 1/0-300	PK27GTA◊ or PK15GTA6	33.80 53.00	15
400 A	42	42	0	1746.00	QONQ42LS400 (Int) MH50 (box)◊	1185.00 75.00	NC50NQVF	NC50NQVS	486.00	(1) 1/0-750 or (2) 1/0-300			15

Above listings through 200 A mains rating meet Federal Specification W-P-115C as Type 1, Class 2.

- ▲ Maximum single pole branch circuits utilizing QO and/or QOT circuit breakers.
- UL short circuit current rating depends on lowest interrupting rating of circuit breaker installed.
- ♦ Will not accept QO-EPD or Qwik-Gard® QO-GFI or QO-AFI circuit breakers.
- ★ Mains rated 25 A when Al wire is used.
- ▼ Order F for flush device or S for surface device.
- ▲ Use 10 AWG maximum size wire for GFI and AFI circuit breakers.
- 70 A Max. branch circuit breaker and 70 A max. back fed main circuit breaker.
- ◇ CU indicates copper bus.
- ★ Copper bus.
- ▼ UL Listed 5000 A short circuit current rating for corner grounded Delta systems. Use QO-H circuit breakers only.
- Supplied with feed-thru lugs.
- * Factory-included.
- ◇ Interior only, order box separately.
- ◊ PK27GTA includes a 6-2/0 AWG Al/Cu lug.
- PE1A Discount Schedule.



QO120L125G



QO816L100F or S without cover

Main Circuit Breaker Kits

Table 1.17: Field-Installed Main Circuit Breaker (Use with Convertible Load Centers Only)

Main Circuit Breaker Rating ¹	Convertible Load Center Mains Rating	22 k AIR ²		Lug Wire Size † AWG/kcmil	Main Circuit Breaker Rating ³	QOM2 Frame Size †		Lug Wire Size † AWG/kcmil
		Main Circuit Breaker	\$ Price			Main Circuit Breaker	\$ Price	
		100 A	140.00			150-225	468.00	
50 A	100-125	QOM50VH	140.00	100 A	150-225	QOM2100VH	468.00	4-300 Al or Cu
60 A	100-125	QOM60VH	140.00	125 A	150-225	QOM2125VH	468.00	
70 A	100-125	QOM70VH	140.00	150 A	150-225	QOM2150VH	468.00	
80 A	100-125	QOM80VH	201.00	175 A	200-225	QOM2175VH	468.00	
90 A	100-125	QOM90VH	201.00	200 A	200-225	QOM2200VH	468.00	
100 A	100-125	QOM100VH	201.00	225 A	225	QOM2225VH	468.00	
110 A	125	QOM110VH	468.00					
125 A	125	QOM125VH	468.00					

- 1 Do not exceed the load center mains rating.
- 2 22 k AIR main circuit breaker UL Listed for use ahead of QO, QOT and QO-PL 10 k AIR branch circuit breakers to permit their application on systems with up to 22 kA available fault current.
- 3 Wire range listed for QOM circuit breaker kits is the wire range of that circuit breaker. To find out maximum wire size permitted in a particular load center per UL, see pages 1-5 through 1-11 under Main Wire Size.
- † Add suffix 1021 for 120, 208 or 240 Vac shunt trip. Add \$126.00.



QOM1 Frame Size 50-125 Amperes



QOM2 Frame Size 100-225 Amperes

DE3A PE1A Discount Schedule

LOAD CENTERS

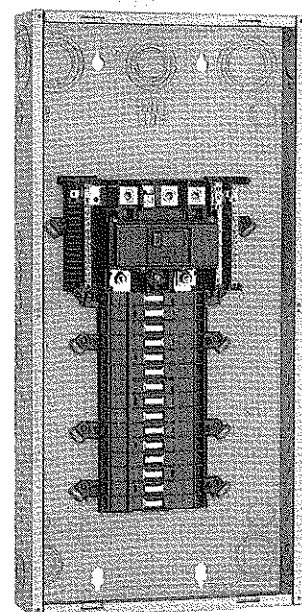
1Ø3W—120/240 Vac—UL Listed

Table 1.18: Indoor Main Circuit Breaker (Order QO, QOT, QO-EPD, QO-GFI, QO-AFI and QO-PL Branch Circuit Breakers from pages 1-2 and 1-3.)

Mains Rating	Spaces	Max. Single Pole Circuits [▲]	Max. Tandem Circuit Breakers	\$ Price (Interior, Box and Cover)	Load Center Box and Interior		Indoor Cover with Door (Order Separately)				Main Wire Size AWG/kcmil Al or Cu	Equipment Ground Bar Kit (Order Separately)		Box No. See Page 1-17
					Cat. No.	\$ Price	Flush Cat. No.	Surface Cat. No.	\$ Price	Cat. No.		\$ Price		
Convertible Mains — Factory-installed Main Circuit Breaker, 22 kA Short Circuit Current Rating, Convertible to Main Lugs (see below) or Lower Amperage Main Circuit Breaker (See page 1-5),[■]														
QOM1 Main Circuit Breaker Frame Size—Copper Bus														
100 A	12	12	0	339.70	QO112M100	302.00	QOC12UF	QOC12US	37.70	6-1	PK9GTA	13.40	5	
	16	16	0	379.70	QO116M100	342.00	QOC20U100F	QOC20U100S	37.70		PK12GTA	15.80	6	
	20	20	0	433.70	QO120M100	396.00	QOC20U100F	QOC20U100S	37.70		PK15GTA	17.10	6	
	24	24	0	553.70	QO124M100	516.00	QOC24UF	QOC24US	37.70		PK18GTA	17.10	7	
125 A	32	32	0	726.70	QO132M100	689.00	QOC32UF	Use Flush	37.70	6-2/0	PK18GTA	18.80	8	
	24	24	0	819.70	QO124M125	782.00	QOC24UF	QOC24US	37.70		PK15GTA	17.10	7	
150 A	32	32	0	1041.60	QO132M125	1002.00	QOC32UF	Use Flush	39.80	6-2/0	PK18GTA	18.80	8	
	20	30	10	821.00	QO12030M150	734.00	QOC30UF	QOC30US	87.00		4-250	PK18GTA	18.80	9
200 A	24	24	0	849.00	QO124M150	782.00	QOC30UF	QOC30US	87.00	4-250		PK18GTA	17.10	9
	30	30	0	854.00	QO130M150	787.00	QOC30UF	QOC30US	87.00		PK18GTA	18.80	9	
225 A	32	32	0	959.00	QO132M150	852.00	QOC40UF	QOC40US	87.00	4-250	PK18GTA	18.80	10	
	20	40	20	821.00	QO12040M200	734.00	QOC30UF	QOC30US	87.00		PK23GTA and LK100AN [◇]	PK23GTA	21.30	9
	24	24	0	866.00	QO124M200	779.00	QOC30UF	QOC30US	87.00			PK18GTA	17.10	9
	24	36	12	1287.00	QO12436M200TFT [◇]	1200.00	QOC40UF	QOC40US	87.00			PK18GTA	18.80	9
	30	30	0	879.00	QO130M200	792.00	QOC30UF	QOC30US	87.00			PK23GTA	21.30	9
	30	40	10	957.00	QO13040M200	870.00	QOC30UF	QOC30US	87.00			PK23GTA	21.30	9
New! 400 A	40	40	0	1121.00	QO140M200	1034.00	QOC40UF	QOC40US	87.00	4-300		PK23GTA	21.30	10
	40	60	20	1431.00	QO14060M200	1344.00	QOC40UF	QOC40US	87.00		PK23GTA	21.30	10	
	42	42	0	1220.00	QO142M200	1109.00	QOC42UF	QOC42US	111.00		PK23GTA	21.30	11	
	42	52	10	1382.00	QO14252M200	1271.00	QOC42UF	QOC42US	111.00		PK23GTA	21.30	11	
Fixed Mains—Factory-installed LAL Main Circuit Breaker, 42 kA Short Circuit Current Rating [†]	40	40	0	1196.00	QO140M225	1085.00	QOC42UF	QOC42US	111.00	(1) 4-500 or (2) 4-3/0	PK27GTA [▼]	33.80	16	
	42	42	0	1253.00	QO142M225	1142.00	QOC42UF	QOC42US	111.00		(1) 4-500 or (2) 4-250	PK15GTA6	53.00	16

Above listings through 200 A mains rating meet Federal Specification W-P-115c as Type 1, Class 2.

- ▲ Maximum single pole branch circuits utilizing QO and/or QOT circuit breakers.
- 22 k AIR main circuit breaker UL Listed for use ahead of QO, QOT and QO-PL 10 k AIR branch circuit breakers to permit their application on systems with up to 22 kA available fault current.
- ◆ UL short circuit current rating depends on lowest interrupting rating of circuit breakers installed. Also, UL Listed 5000 A short circuit current for corner grounded Delta systems. Use QO-H circuit breakers only.
- ★ Interior only, order box separately.
- ▼ PK27GTA includes a 6-2/0 Al/Cu lug.
- △ PE1A Discount Schedule.
- ◇ Factory included.
- ◇ Supplied with feed-thru lugs.



QO130M150

Main Lug Kits

Table 1.19: Field-Installed Main Lugs (Convertible Load Centers Only)

Main Lug Rating [★]	Use on Convertible Load Center with Mains Rating	Cat. No.	\$ Price	Lug Wire Size [▼] AWG/kcmil Al or Cu
125 A	100-125 A	QOL125 [◇]	44.10	6-2/0
225 A	150-225 A	QOL225 [◇]	104.00	6-300

- ★ Do not exceed the load center mains rating.
- ▼ Wire range listed for QOL lug kits is the wire range of that lug. To find out maximum wire size permitted in a particular load center per UL, see pages 1-5 through 1-11 under main wire size.
- ◇ If main circuit breaker knockout has been removed from the load center's trim, order appropriate filler plate from page 1-13.



QOL125

QOL225

1Ø3W—120/240 Vac—UL Listed

Table 1.20: Main Lugs (Order QO, QOT, QO-GFI, QO-EPD, QO-AFI and QO-PL branch circuit breakers from pages 1-2 and 1-3.)

Mains Rating	Spaces	Max. Single Pole Circuits [▲]	Max. Tandem Circuit Breakers	\$ Price (Interior, Box and Cover)	Load Center Box and Interior		Main Wire Size AWG/kcmil		Equipment Ground Bar Kit (Order Separately)		Box No. See Page 1-17
					Cat. No.	\$ Price	Al	Cu	Cat. No.	\$ Price	
Non-Metallic Enclosure											
Fixed Mains—Factory-installed Main Lugs—10 kA Short Circuit Current Rating											
60 A	2	4	2	102.00	QO24L60NRM	102.00	14-4	14-4	Factory-installed	—	1NM
	2	4	2	102.00	QO24L70RB [■]	113.00	12-6	14-6	PK3GTA1	11.40	1R
Metallic Enclosure											
Fixed Mains—Factory-installed Main Lugs—10 kA Short Circuit Current Rating											
40 A	2	2	0	113.00	QO24L70RB [■]	113.00	12-3	14-4	PK4GTA	10.80	1R
	70 A	2	4	2	131.00	QO612L100RB [◆]	143.00	8-1	PK7GTA	11.70	2R
100 A	6	12	6	158.00	QO612L100TRB [◆]	158.00	Factory-installed		—	—	2R
	8	16	8	231.00	QO816L100RB [◆]	231.00	PK7GTA	11.70	2R		
150 A	6	12	6	174.00	QO816L100RBCU [★]	174.00	8-1	PK7GTA	11.70	2R	
	8	16	8	279.00	QO816L100RBCU [★]	279.00		PK7GTA	11.70	2R	
125 A	4	8	4	152.00	QO148L125GRB [★]	152.00	12-2/0	14-2/0	PK7GTA Factory-included	—	15R
Convertible Mains—Factory-installed Main Lugs—65 kA Short Circuit Current[▼] Δ											
QOM1 Main Frame Size—Convertible to Main Circuit Breaker—Copper Bus											
125 A	12	12	0	285.00	QO112L125GRB	285.00	6-2/0	—	PK9GTA Factory-included	—	3R
	16	24	12	365.00	QO11224L125GRB	365.00			PK15GTA Factory-included	—	3R
	12	24	8	435.00	QO11624L125GRB	435.00			PK15GTA Factory-included	—	4R
	24	24	0	522.00	QO124L125GRB	522.00			PK15GTA Factory-included	—	4R
Convertible Mains—Factory-installed Main Lugs—65 kA Short Circuit Current[▼] Δ											
QOM2 Main Frame Size—Convertible to Main Circuit Breaker—Copper Bus											
150 A	30	30	0	587.00	QO130L150GRB	587.00	4-250	—	PK23GTA, LK100AN Factory-included	—	6R
	12	12	0	480.00	QO112L200GRB	480.00			PK9GTA Factory-included	—	5R
	30	30	0	666.00	QO130L200GRB	666.00			PK23GTA, LK100AN Factory-included	—	6R
	30	40	10	714.00	QO13040L200GRB	714.00			PK23GTA, LK100AN Factory-included	—	6R
200 A	40	40	0	971.00	QO140L200GRB	971.00	4-250	—	PK23GTA, LK100AN Factory-included	—	7R
	40	60	20	1262.00	QO14060L200GRB	1262.00			(2) PK15GTA, (1) LK100AN Factory-included	—	7R
	42	52	10	1194.00	QO14252L200GRB	1194.00			(2) PK15GTA, (1) LK100AN Factory-included	—	8R
	42	52	10	1310.00	QO142L225GRB	1310.00			PK23GTA, LK100AN Factory-included	—	8R

1Ø3W—120/240 Vac—UL Listed

Table 1.21: Main Circuit Breaker Order QO, QOT, QO-GFI, QO-AFI, QO-EPD and QO-PL branch circuit breakers from pages 1-2 and 1-3.

Mains Rating	Spaces	Max. Single Pole Circuits [▲]	Max. Tandem Circuit Breakers	\$ Price (Interior, Box and Cover)	Load Center Box and Interior		Main Wire Size AWG/kcmil Al or Cu	Equipment Ground Bar Kit (Order Separately)		Box No. See Page 1-17	
					Cat. No.	\$ Price		Cat. No.	\$ Price		
Convertible Mains — Factory-installed Main Circuit Breaker, 22 kA Short Circuit Current Rating											
— Convertible to Main Lugs (see page 1-6) or Lower Amperage Main Circuit Breaker (see page 1-5)[◇] Δ											
QOM1 Main Circuit Breaker Frame Size—Copper Bus											
100 A	12	12	0	461.00	QO112M100RB	461.00	6-2/0	—	PK9GTA	13.40	3R
	16	16	0	504.00	QO116M100RB	504.00			PK12GTA	15.80	4R
	20	20	0	552.00	QO120M100RB	552.00			PK15GTA	17.10	4R
125 A	24	24	0	954.00	QO124M125RB	954.00	6-2/0	—	PK15GTA	17.10	4R
Convertible Mains — Factory-installed Main Circuit Breaker, 22 kA Short Circuit Current Rating											
— Convertible to Main Lugs (see page 1-6) or Lower Amperage Main Circuit Breaker (see page 1-5)[◇] Δ											
QOM2 Main Circuit Breaker Frame Size—Copper Bus											
150 A	20	30	10	953.00	QO12030M150RB	953.00	4-250	—	PK18GTA	18.80	5R
	30	30	0	1122.00	QO130M150RB	1122.00			PK18GTA	18.80	6R
	20	40	20	954.00	QO12040M200RB	954.00			PK23GTA	21.30	5R
	30	30	0	1154.00	QO130M200RB	1154.00			PK18GTA	18.80	6R
	30	40	10	1179.00	QO13040M200GRB	1179.00			PK23GTA	21.30	6R
	40	40	0	1397.00	QO140M200RB	1397.00			PK23GTA	21.30	7R
New! 200 A	40	60	20	1815.00	QO14060M200RB	1815.00	4-250	—	PK15GTA	17.10	7R
	42	42	0	1469.00	QO142M200RB	1469.00			PK23GTA	21.30	8R
	42	52	10	1718.00	QO14252M200RB	1718.00			PK15GTA	17.10	8R
	42	52	10	1631.00	QO142M225RB	1631.00			PK23GTA	21.30	8R
QOM1/QOM2 Feed-Thru Main Circuit Breaker With Feed-Thru Lugs—Copper Bus, 22 kA Short Circuit Current Rating[◇]											
125 A	6	12	6	620.00	QO1612M125FTRB [★]	620.00	4-2/0	—	PK12GTA	15.80	3R
150 A	8	16	8	863.00	QO1816M150FTRB [★]	863.00	4-250	—	PK15GTA-L	35.00	6R
200 A	8	16	8	863.00	QO1816M200FTRB [★]	863.00	4-250	—	PK15GTA-L	35.00	6R

Above listings through 200 A mains rating meet Federal Specification W-P-115c as Type 1, Class 2.

- ▲ Maximum single pole branch circuits utilizing QO and/or QOT circuit breakers.
- Use 10 AWG maximum size wire for AFI and GFI circuit breaker.
- ◆ 70 A max. branch circuit breaker and 70 A max. back fed main circuit breaker.
- ★ Copper bus.
- ▼ UL short circuit current rating depends on lowest interrupting rating of circuit breakers installed.
- Δ UL Listed 5000 A short circuit current rating for corner grounded Delta systems. Use QO-H circuit breakers only.
- ◇ Side hinge door device; allow 1-1/4 in. on left side for door to open.
- ◇ 22 k AIR main circuit breaker UL Listed for use ahead of QO, QOT, QO-GFI, QO-AFI, QO-EPD and QOPL 10 k AIR branch circuit breakers to permit their application on systems up to 22 kA available fault current.
- ★ QO1612M125FTRB provided with QOM1 frame main circuit breaker. QO1816M150FTRB and QO1816M200FTRB provided with QOM2 frame main circuit breaker.



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Table 1.44: 1Ø3W 120/240 Vac UL Listed Load Centers

Mains Rating	Spaces	Max. Single Pole Circuits A	Max. Tandem Circuit Breakers	Load Center Box, Interior and Cover		Main Wire Size AWG/kcmil		Equipment Ground Bar Kit (Order Separately)		Box No. See Page 1-17
				Cat. No. (DE3C)	\$ Price	Al	Cu	Cat. No. (DE3A)	\$ Price	
Main Lugs (Order HOM, HOMT, HOMGFI and HOMAFI Circuit Breakers from Page 1-15), 10 kA Short Circuit Current Rating										
Factory-Installed Fixed Main Lugs, 10 kA Short Circuit Current Rating										
70 A	2	4	2	HOM24L70RB	111.00	12-3	14-4	PK4GTA	10.80	1R
100 A	6	12	6	HOM612L100RBA	129.00	8-1		PK7GTA	11.70	2R
125 A	4	8	4	HOM48L125GRB	137.00	12-2/0	14-2/0	PK7GTA Factory-included		15R
Convertible Mains with Factory-Installed Main Lugs, QOM1 Main Frame Size—Convertible to 22 k AIR Main Circuit Breaker (See Below)										
125 A	8	16	8	HOM816L125RB	248.00			PK15GTA	17.10	3R
	12	12	0	HOM12L125RB	234.00	6-2/0		PK15GTA	17.10	3R
	12	24	12	HOM1224L125RB	278.00			PK15GTA	17.10	3R
	20	20	0	HOM20L125RB	383.00			PK15GTA	17.10	4R
Convertible Mains with Factory-Installed Main Lugs, QOM2 Main Frame Size—Convertible to 22 k AIR Main Circuit Breaker (See Below)										
200 A	12	12	0	HOM12L200RB	423.00			PK23GTA	21.30	5R
	20	40	20	HOM2040L200RB	560.00			PK23GTA	21.30	6R
	30	30	0	HOM30L200RB	587.00			PK23GTA	21.30	7R
	30	40	10	HOM3040L200RB	759.00	4-250				
	40	40	0	HOM40L200RB	911.00			PK23GTA	21.30	14R
	40	60	20	HOM4060L200RB	1139.00			PK23GTA	21.30	14R
42	52	10	HOM4252L200RB	1092.00			PK23GTA	21.30	14R	

Main Circuit Breaker (Order HOM, HOMT, HOMGFI and HOMAFI Circuit Breakers from Page 1-15), 22 kA Short Circuit Current Rating

Convertible Mains with Factory-Installed Main Circuit Breaker, QOM1 Main Frame Size—Convertible to Main Lugs or Lower Amperage Main Circuit Breaker (See Below) *										
100 A	8	16	8	HOM816M100RB	429.00	6-1		PK15GTA	17.10	3R
	12	12	0	HOM12M100RB	416.00			PK15GTA	17.10	3R
	20	20	0	HOM20M100RB	531.00	6-2/0		PK15GTA	17.10	4R
	24	24	0	HOM24M100RB	606.00			PK15GTA	17.10	6R
125 A	8	16	8	HOM816M125RB	716.00	6-2/0		PK15GTA	17.10	3R
	24	24	0	HOM24M125RB	858.00			PK15GTA	17.10	6R
Convertible Mains with Factory-Installed Main Circuit Breaker, QOM2 Main Frame Size—Convertible to Main Lugs or Lower Amperage Main Circuit Breaker (See Below)										
150 A	30	30	0	HOM30M150RB	978.00	4-250		PK23GTA	21.30	7R
	20	40	20	HOM2040M200RB	872.00			PK23GTA	21.30	6R
	30	30	0	HOM30M200RB	1004.00			PK23GTA	21.30	7R
	30	40	10	HOM3040M200RB	1152.00	4-250		PK23GTA	21.30	7R
200 A	30	40	0	HOM40M200RB	1277.00			PK23GTA	21.30	14R
	40	40	0	HOM40M200RB	1277.00			PK23GTA	21.30	14R
	40	60	20	HOM4060M200RB	1596.00			PK23GTA	14.20	14R
	42	52	10	HOM4252M200RB	1532.00			PK23GTA	14.20	14R
225 A	16	24	8	HOM1624M225RB	1182.00	4-250		PK15GTA	17.10	7R
	42	42	0	HOM42M225RB	1323.00			PK23GTA	21.30	14R
Convertible Mains with Factory-Installed Main Circuit Breaker with Feed-thru Lugs *										
150 A	8	16	8	HOM816M150FTRB	785.00	4-250		PK15GTAL	35.00	6R
200 A	8	16	8	HOM816M200FTRB	785.00	4-250		PK15GTAL	35.00	6R
Universal Main with Feed-thru Lugs—No Factory-Installed Main Circuit Breaker or Main Lugs *										
QOM2 Main Frame Size—Field-Install 22 k AIR Main Circuit Breaker or Main Lugs (See Kits Below)										
200 A	8	16	8	HOM816U200FTRB	446.00	4-250		PK15GTAL	35.00	6R

Above listings through 200 A mains rating meet Federal Specification W-P-115c as Type 1, Class 2.

- ▲ Maximum single pole branch circuits utilizing HOM and/or HOMT circuit breakers.
- HOM-GFI and HOM-AFI branch circuit breakers are limited to number 10 maximum wire.
- ◆ Side hinge door device allow 1-1/4 in. on left side for door to open.
- ★ 22 k AIR main circuit breaker UL Listed for use ahead of HOM and HOMT 10 k AIR branch circuit breakers to permit their application on systems with up to 22 kA available fault current.
- ▼ Rated 200 A when using copper wire. Reference NEC® Table 310.15(B)(6) when using Al wire.
- △ 70 A maximum branch circuit breaker, 100 A maximum back feed main circuit breaker.

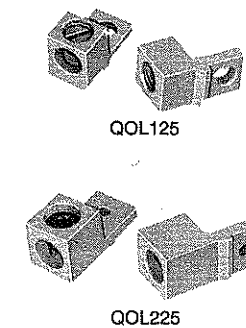
Field-Installed Kits

Table 1.45: Field-Installed Mains, Convertible Load Centers Only

Field-Installed Main Type	Frame Size	Main Ampere Rating	Use on Convertible Load Center with Mains Rating	Cat. No.	\$ Price (DE3A)	Lug Wire Size ∇ AWG/kcmil
Main Lug ♦	—	125 A	100-125 A	QOL125	44.10	6-2/0 Al or Cu
		225 A	150-225 A	QOL225	104.00	6-300 Al or Cu
Main Circuit Breaker ★	QOM1	50 A	100-125 A	QOM50VH	140.00	12-2/0 Al or Cu
		60 A	100-125 A	QOM60VH	140.00	
		70 A	100-125 A	QOM70VH	140.00	
		80 A	100-125 A	QOM80VH	201.00	
		90 A	100-125 A	QOM90VH	201.00	
	QOM2	100 A	100-125 A	QOM100VH	201.00	4-300 Al or Cu
		110 A	125 A	QOM110VH	468.00	
		125 A	125 A	QOM125VH	468.00	
		100 A	150-225 A	QOM2100VH	468.00	
		125 A	150-225 A	QOM2125VH	468.00	
	150 A	150-225 A	QOM2150VH	468.00		
	175 A	200-225 A	QOM2175VH	468.00		
	200 A	200-225 A	QOM2200VH	468.00		
	225 A	225 A	QOM2225VH	468.00		

- Do not exceed the load center mains rating.
- ♦ If main circuit breaker knockout has been removed from the load center's trim, order appropriate filler plate from page 1-13.
- ★ 22 k AIR main circuit breaker UL Listed for use ahead of HOM and HOMT 10 k AIR branch circuit breakers to permit their application on systems with up to 22 kA available fault current.
- ∇ Wire range listed for main device kits is the wire range of that device. To find out maximum wire size permitted in a particular load center per UL, see pages 1-5 through 1-11 under Main Wire Size.
- Add suffix 1021 for 120, 208, 240 Vac shunt trip. Add \$126.00.

Main Lug Kit



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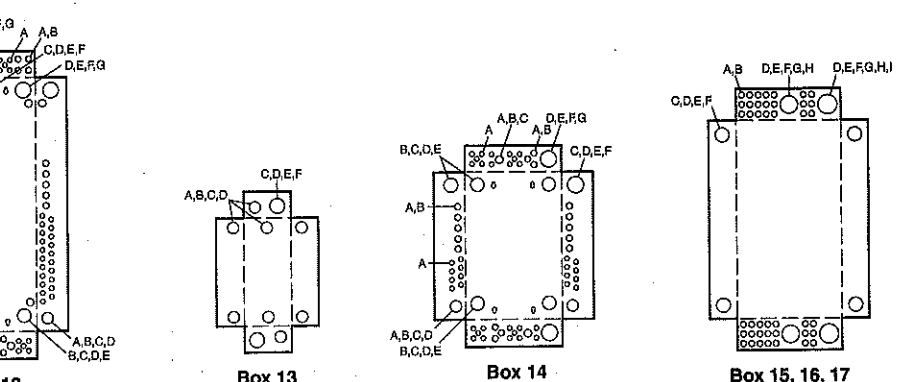
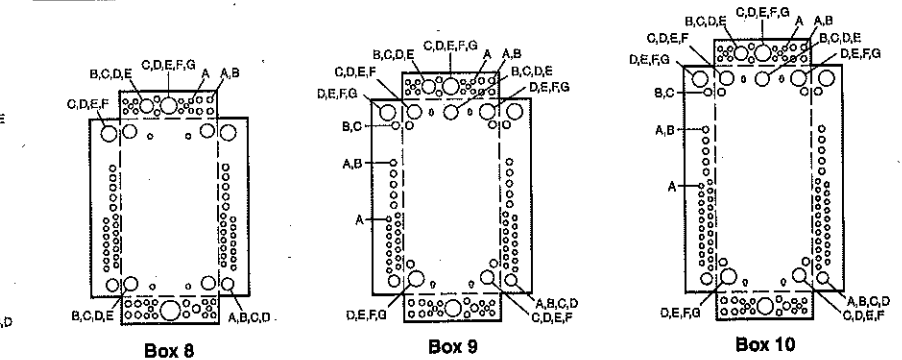
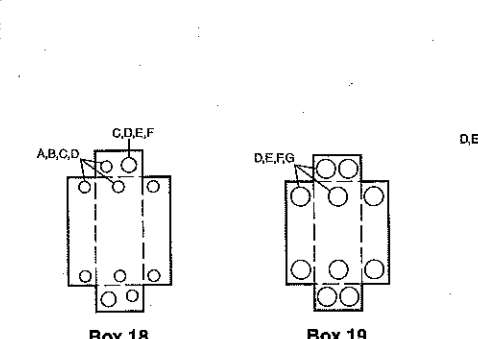
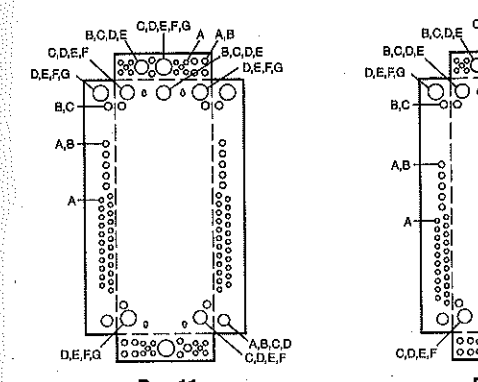
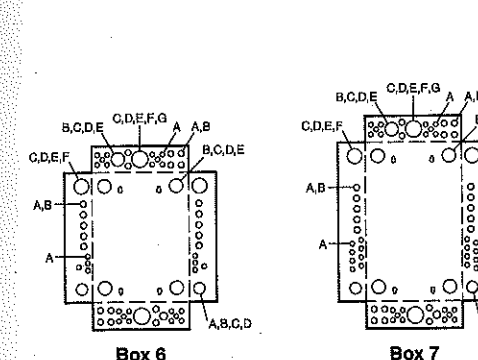
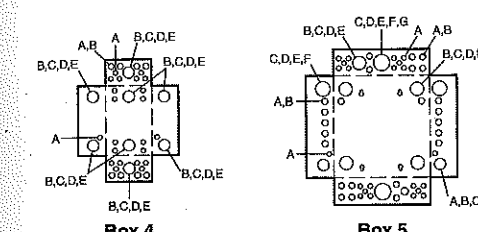
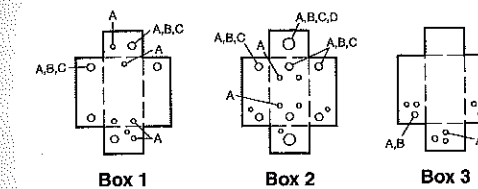
Indoor Knockout Information and Enclosure Dimensions

Table 1.46: Enclosure Dimensions

Box No.	Dimensions					Dimensions							
	W	H	D	W	H	D	W	H	D				
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm			
1	3.81	97	6.72	171	3.00	76	13	5.88	149	13.12	333	3.38	86
2	4.81	122	9.30	236	3.19	81	14	14.25	362	20.92	531	3.75	95
3	4.81	122	9.30	236	3.19	81	15	20.00	508	50.00	1270	5.75	146
4	8.88	226	12.57	319	3.80	97	16	20.00	508	62.00	1727	5.75	146
5	14.25	362	14.92	379	3.75	95	17	20.00	508	53.00	1346	5.75	146
6	14.25	362	17.92	455	3.75	95	18	5.88	149	16.12	409	3.38	86
7	14.25	362	20.92	531	3.75	95	19	7.56	192	23.12	587	4.25	108
8	14.25	362	26.04	661	3.75	95	20	9.62	244	26.12	663	4.75	121
9	14.25	362	29.86	758	3.75	95	21	8.88	226	14.80	376	3.80	97
10	14.25	362	33.78	858	3.75	95	22	8.55	217	23.92	608	3.95	100
11	14.25	362	37.98	965	3.75	95	23	14.25	362	29.86	758	3.75	95
12	14.25	362	39.37	1000	3.75	95							

Table 1.47: Knockout Information

Symbol	Knockouts								
	A	B	C	D	E	F	G	H	I
Conduit Size	1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	3-1/2





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QO® miniature circuit breakers are plug-on products for use in QO load centers, NQOD panelboards, NQOD OEM interiors or Speed-D® switchboard distribution panels. Bolt-on QOB circuit breakers are for use in NQOD panelboards or interiors.▲
The QO exclusive Qwik-Open® mechanism, with a trip reaction within 1/60th of a second, is standard on all 1P 15A and 20 A QO circuit breakers.

QO 1P



1 Space Required

QOT 1P Tandem



1 Space Required

QO 2P



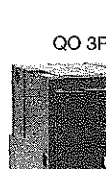
2 Spaces Required

QO2200 2P 200 A



4 Spaces Required

QO 3P



3 Spaces Required

Table 7.1: Plug-On Circuit Breakers

Ampere Rating	1P—120/240 Vac		2P—120/240 Vac Common Trip		2P—240 Vac + Common Trip		3P—240 Vac Common Trip	
	Cat. No.	\$ Price	Cat. No.	\$ Price	Cat. No.	\$ Price	Cat. No.	\$ Price
10 k AIR								
10 A	QO110	29.10	QO210	67.00	—	—	QO310	248.00
15 A	QO115★	29.10	QO215★	67.00	QO215H	200.00	QO315★	248.00
20 A	QO120★	29.10	QO220★	67.00	QO220H	200.00	QO320★	248.00
25 A	QO125★	29.10	QO225★	67.00	QO225H	200.00	QO325★	248.00
30 A	QO130★	29.10	QO230★	67.00	QO230H	200.00	QO330★	248.00
35 A	QO135★	29.10	QO235★	67.00	—	—	QO335★	248.00
40 A	QO140★	29.10	QO240★	67.00	QO240H	200.00	QO340★	248.00
45 A	QO145★	29.10	QO245★	67.00	—	—	QO345★	248.00
50 A	QO150★	29.10	QO250★	67.00	QO250H	200.00	QO350★	248.00
60 A	QO160★	29.10	QO260★	67.00	QO260H	200.00	QO360★	248.00
70 A	QO170★	67.00	QO270★	134.00	QO270H	224.00	QO370★	315.00
80 A	—	—	QO280★	189.00	QO280H	315.00	QO380★	366.00
90 A	—	—	QO290★	189.00	QO290H	315.00	QO390★	366.00
100 A	—	—	QO2100★	189.00	QO2100H	315.00	QO3100★	366.00
110 A	—	—	QO2110★	428.00	—	—	—	—
125 A	—	—	QO2125★	428.00	—	—	—	—
150 A	—	—	QO2150★△	491.00	—	—	—	—
175 A	—	—	QO2175★△	491.00	—	—	—	—
200 A	—	—	QO2200★△	491.00	—	—	—	—
Molded Case Switch 60 A max.—240 Vac		—	—	—	QO200	70.00	QO300	248.00
Molded Case Switch 100 A max.—240 Vac		—	—	—	QO2000★	200.00	QO3000★	366.00
22 k AIR★								
15 A	QO115VH	63.00	QO215VH	146.00	—	—	QO315VH	371.00
20 A	QO120VH	63.00	QO220VH	146.00	—	—	QO320VH	371.00
25 A	QO125VH	73.00	QO225VH	146.00	—	—	QO325VH	371.00
30 A	QO130VH	73.00	QO230VH	146.00	—	—	QO330VH	371.00
40 A	—	—	QO240VH	146.00	—	—	QO340VH	371.00
50 A	—	—	QO250VH	146.00	—	—	QO350VH	371.00
60 A	—	—	QO260VH	146.00	—	—	QO360VH	371.00
70 A	—	—	QO270VH	224.00	—	—	QO370VH	477.00
80 A	—	—	QO280VH	315.00	—	—	QO380VH	530.00
90 A	—	—	QO290VH	315.00	—	—	QO390VH	530.00
100 A	—	—	QO2100VH	315.00	—	—	QO3100VH	530.00
110 A	—	—	QO2110VH	1034.00	—	—	—	—
125 A	—	—	QO2125VH	1034.00	—	—	—	—
150 A	—	—	QO2150VH	1061.00	—	—	—	—
175 A	—	—	QO2175VH	1061.00	—	—	—	—
200 A	—	—	QO2200VH	1061.00	—	—	—	—
42 k AIR★								
40 A	—	—	QOH240★	317.00	—	—	—	—
45 A	—	—	QOH245★	317.00	—	—	—	—
50 A	—	—	QOH250★	317.00	—	—	—	—
60 A	—	—	QOH260★	317.00	—	—	—	—
70 A	—	—	QOH270	528.00	—	—	—	—
80 A	—	—	QOH280	651.00	—	—	—	—
90 A	—	—	QOH290	651.00	—	—	—	—
100 A	—	—	QOH2100	651.00	—	—	—	—
110 A	—	—	QOH2110★	1389.00	—	—	—	—
125 A	—	—	QOH2125	1389.00	—	—	—	—
65 k AIR★								
15 A	QH115	117.00	QH215	293.00	—	—	QH315★	507.00
20 A	QH120	117.00	QH220	293.00	—	—	QH320	507.00
25 A	QH125★	117.00	QH225★	293.00	—	—	QH325★	507.00
30 A	QH130	117.00	QH230	293.00	—	—	QH330	507.00

- ▲ See Digest Section 1 for load centers, and Section 9 for panelboards and interiors.
 - 10–30 A circuit breakers are suitable for use with 60°C or 75°C conductors. 35–125 A circuit breakers are suitable for use with 75°C conductors.
 - ◆ UL Listed 5 k AIR on 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.
 - ▼ UL Listed as SWD (switching duty) rated. Suitable for switching 120 Vac fluorescent lighting loads.
 - △ Requires four spaces (1 AWG–300 kcmil Al/Cu.) Suitable for switching 120 Vac fluorescent lighting loads.
 - UL Listed for use ahead of QO, QO-GFI, QO-EPD, QO-AFI, QOT, QOCAFI, and QO-PL 10 k AIR circuit breakers to permit their application at 22 k AIR fault level.
 - ◇ 100 A maximum branch mounted opposite.
 - ☆ Order only. Contact your local Field Office.
 - ▽ Includes two circuit breakers (one QO2030 and one QO3020) and handle tie QOHTT.
 - Not suitable for use in 3Ø panels. Use only in 1Ø panel rated 150 A or greater.
- Interrupting Ratings Page 7-2
Accessories Page 7-12
Dimensions Page 7-54

Table 7.2: QO-QOB Ring Terminal

(20% \$ Price Adder)—Factory Installed Only

Ampere Rating	Poles	Suffix
10–30 A	1, 2, 3	5237
35–60 A	1, 2	5238
35–50 A	3	5238
70–110 A	2	5273
60–100 A	3	5273

Table 7.3: Wire Sizes

Circuit Breaker Type	Ampere Rating	Wire Size (AWG/kcmil)
QO 1P	10–30 A	14–8 Al/Cu
	10–30 A	(2) 14–10 Cu
	35–70 A	8–2 Al/Cu
QO 2P	10–30 A	14–8 Al/Cu
	10–30 A	(2) 14–10 Cu
	35–70 A	8–2 Al/Cu
QO 3P	10–30 A	14–8 Al/Cu, (2) 14–10 Cu
	35–70 A	8–2 Al/Cu
	80–125 A	4–2/0 Al/Cu
QOB-VH	110–150 A	4–3/0 Al/Cu
	15–20 A	12–8 Al 14–8 Cu
QOT	15–20 A	12–8 Al 14–8 Cu
QO-AFI, QO-GFI & QO-EPD	40, 50, 60 A	12–4 Al 14–6 Cu
QO-PL	10–60 A	12–2 Al 14–2 Cu

Table 7.4: QOT Tandem Circuit Breakers

Ampere Rating	Cat. No.★	\$ Price
1P—120/240 Vac		
15 A & 15 A	QOT1515	58.00
15 A & 20 A	QOT1520	58.00
20 A & 20 A	QOT2020	58.00
2P—120/240 Vac		

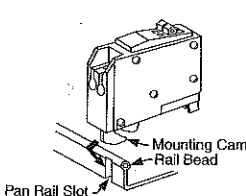
Order two QOT1515 or QOT2020 circuit breakers and handle tie QOHTT for common switching of center two poles.

Table 7.5: Replacement Tandem Circuit Breakers

For Use in Old Style Non-Class CTL QO Load Centers—10 k AIR

Ampere Rating	Cat. No.★	\$ Price
1P—120/240 Vac—1 Space Required		
15 A & 15 A	QO1515	73.00
15 A & 20 A	QO1520	73.00
20 A & 20 A	QO2020	73.00
20 A & 30 A	QO2030	73.00
30 A & 20 A	QO3020	73.00
Two 1P Individual Trip—120/240 Vac—2 Spaces Required		
15 A & 15 A	Order Two QO1515 or QO2020 circuit breakers and handle tie QOHTT for common switching of center two poles.	—
15 A & 20 A	—	—
20 A & 20 A	—	—
20 A & 30 A	QO2030QO20V	134.00
30 A & 20 A	—	—

QOT Tandem



Pan Rail Slot

Circuit limiting QOT tandem circuit breakers have a mounting cam as shown. Installation into a QO load center can only be made in those positions having a mounting pan rail slot. Meets Paragraph 408.15 of the NEC. UL Listed as Class CTL



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QO® Arc-Fault Circuit Breaker

QO arc-fault circuit breakers provide branch feeder protection for series and parallel-type arcing as required by the NEC and local code adoption, and comply with UL1699.

Table 7.6: QO Arc Fault Circuit Breakers▲

Circuit Breaker Type	Ampere Rating	1P 120 Vac		1P 120 Vac	
		10 k AIR		22 k AIR	
		1 Space Required	2 Spaces Required	1 Space Required	2 Spaces Required
		Cat. No.	\$ Price	Cat. No.	\$ Price
Combination Arc-fault Interrupter	15	QO115CAFI	282.00	QO115VHCAFI	534.00
	20	QO120CAFI	282.00	QO120VHCAFI	534.00

QO-GFI

Qwik-Gard® circuit breakers provide overload and short circuit protection, combined with Class A ground fault protection. Class A denotes a ground fault circuit interrupter that will trip when a fault current to ground is 6 mA or more, for people protection. Do not connect to more than 250 feet of load conductor for the total one-way run to prevent nuisance tripping.

Table 7.7: QO-GFI Circuit Breakers

Ampere Rating	Qwik-Gard Circuit Breakers With Ground Fault Circuit Interrupter						
	1P 120 Vac		2P Common Trip 120/240 Vac		10 k AIR		
	1 Space Required	2 Spaces Required	1 Space Required	2 Spaces Required	1 Space Required	2 Spaces Required	
		Cat. No.	\$ Price	Cat. No.	\$ Price	Cat. No.	\$ Price
15	QO115GFI	233.00	QO115VHGFI	482.00	QO215GFI	413.00	
20	QO120GFI	233.00	QO120VHGFI	482.00	QO220GFI	413.00	
25	QO125GFI	233.00	QO125VHGFI	482.00	QO225GFI	413.00	
30	QO130GFI	233.00	QO130VHGFI	482.00	QO230GFI	413.00	
40	—	—	—	—	QO240GFI	413.00	
50	—	—	—	—	QO250GFI	413.00	
60	—	—	—	—	QO260GFI★	413.00	

QO-EPD

QO-EPD circuit breakers provide overload and short circuit protection combined with Class B ground fault protection. They are designed to provide ground fault protection of equipment at a 30 milliampere level. They are not designed to protect people from electrical shock.

Table 7.8: QO-EPD Circuit Breakers

Ampere Rating	1P 120 Vac		2P Common Trip 120/240 Vac		
	10 k AIR		10 k AIR		
	1 Space Required	2 Spaces Required	1 Space Required	2 Spaces Required	
		Cat. No.	\$ Price	Cat. No.	\$ Price
15	QO115EPD	410.00	QO215EPD	660.00	
20	QO120EPD	410.00	QO220EPD	660.00	
25	QO125EPD	410.00	QO225EPD	660.00	
30	QO130EPD	410.00	QO230EPD	660.00	
40	—	—	QO240EPD	660.00	
50	—	—	QO250EPD	660.00	
60	—	—	QO260EPD★	660.00	

QO-SWN

Switch Neutral Common Trip 2008 NEC® 514.11

Table 7.9: QO-SWN Circuit Breakers

Ampere Rating	2 Wire 120 Vac		3 Wire 120/240 Vac		
	10 k AIR		10 k AIR		
	2 Spaces Required	3 Spaces Required	2 Spaces Required	3 Spaces Required	
		Cat. No.	\$ Price	Cat. No.	\$ Price
10	QO210SWN	95.00	—	—	
15	QO215SWN	95.00	QO315SWN	143.00	
20	QO220SWN	95.00	QO320SWN	143.00	
25	QO225SWN	95.00			

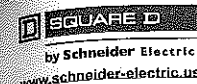
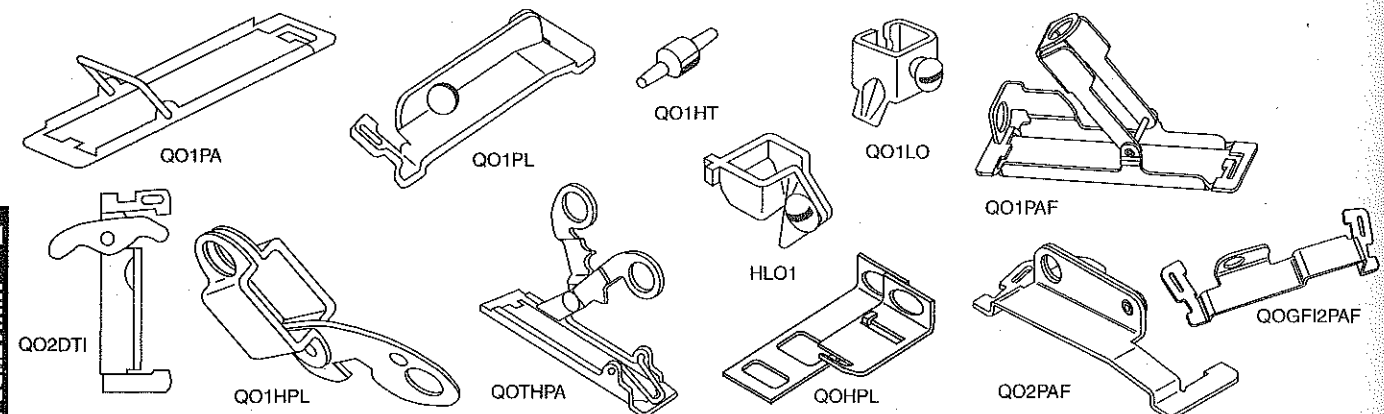


Table 7.14: Accessories for Use with QO® and QOB Miniature Circuit Breakers

Description	Cat. No.	\$ Price	Schedule
Handle Attachments			
Handle Tie:	QO1HT	3.80	DE2E
Converts any two adjacent 120/240 Vac 1P side-by-side QOT circuit breakers to independent trip 2P	QO1HT	3.80	DE2E
Handle tie and lock-off for three 1P QO, QOB circuit breakers	QO3HT	13.40	DE2E
Handle Clamp:	QO1LO	3.80	DE2E
Clamp for holding QO or Q1 1P, 2P or 3P circuit breaker handles in ON or OFF position	HLO1	9.90	DE2E
For padlocking 1P QO circuit breaker in ON or OFF position			
Loose attachment	QOHPL	9.50	DE2E
Fixed attachment	QO1PA	10.70	DE2E
Handle Padlock Attachment: for Padlocking in ON or OFF position	QO1PA	10.70	DE2E
For padlocking 1P side-by-side QOT circuit breaker in ON or OFF position	QO1PA	10.70	DE2E
For padlocking 2P QO-GFI circuit breakers in either ON or OFF position, fixed attachment.	QO1PA	10.70	DE2E
For 2P and 3P QO and Q1 standard circuit breakers which require padlocking in either ON or OFF position	GF12PA	9.20	DE2A
Loose attachment	QO1HPL	10.70	DE2E
Fixed attachment	QO1PL	10.70	DE2E
Handle Padlock Attachment: for Padlocking in OFF position	QO1PAF	43.50	DE2E
For padlocking 2P and 3P QO circuit breakers in OFF position only, fixed attachment.	QO2PAF	25.80	DE2E
For padlocking 1P QO-GFI, QO-AFI, QO-CAFI, and QO-EPD circuit breakers in OFF position only, fixed attachment.	QOQFI1PAF	51.00	DE2E
For padlocking 2P QO-GFI and QO-EPD circuit breakers in OFF position only, fixed attachment.	QOQFI2PAF	38.40	DE2E
Ring Terminal	See Page 7-10	+20% Price Adder	DE2A
Sub-Feed Lugs	QO60SL	47.10	DE2A
60 A 2P plug-on - 2 spaces required (6-2 AWG/Cu)	QO2125SL	137.00	DE2A
125 A 2P plug-on - 2 spaces required (12-2/0 AWG/Cu)	QO2225SLA	308.00	DE2A
225 A 2P plug-on - 4 spaces required (4-300 AWG/Cu)	QO3125SL	137.00	DE3
125 A 3P plug-on - 3 spaces required (12-2/0 AWG/Cu)	QO2DTI	24.90	DE2E
Mechanical Interlock Attachment	QO2DTI	24.90	DE2E
For interlocking the handles of two 2P or one 2P and one 1P QO and Q1 circuit breakers mounted side-by-side so that only one circuit breaker can be ON at a time (Not QOU)	QO2DTIM	63.00	DE2E
With Retaining Kit:	QO2DTIM	63.00	DE2E
QO2DTI mechanical interlock attachment with retaining kits for securing two adjacent back-fed circuit breakers in dual power supply applications. Can be used with (2) 2Ps or (1) 2P and (1) 1P QO circuit breakers in QOB16L100 load centers.			

▲ Not suitable for use in 3Ø panels. Use only in 1Ø panel rated 150 A or greater.



Factory-Installed Accessories for Use with QO and QOB Miniature Circuit Breakers

Factory-installed electrical accessories take up an additional pole space on QO®, QO-GFI, QO-EPD, QO-SWN and QOU circuit breakers. All AC electrical accessories shown below are rated for 50/60 Hz. Accessories are not available for QOB-VH (2P 150 A and 3P 110-150 A) circuit breakers or QO, QOU molded case switches. QO circuit breakers will accept only one accessory per circuit breaker. Undervoltage trip is not available on miniature circuit breakers. Factory-installed accessories are not available for QO-AFI or QO-CAFI Arc Fault Circuit Breakers or on QO2150, QO2175, or QO2200 circuit breakers.

Table 7.15: Factory-Installed Accessories

Accessory	Description	Rated Voltage	Coil Burden	Cat. No. Suffix	\$ Price Adder	Accessory	Description	Contact Comb.	Max. Voltage	Max. Load	Cat. No. Suffix	\$ Price Adder	
Shunt Trip	Trips the circuit breaker from a remote location by means of a trip coil energized from a separate circuit. A 120 Vac shunt trip will operate at 55% or more of rated voltage. All other shunt trips will operate at 75% or more of rated voltage.	AC/DC	12	60 VA	-1042	Auxiliary Switches	Monitors circuit breaker contact status and provides a remote signal indicating the circuit breaker contacts are OPEN or CLOSED.	1A	AC 120	5 A	-1200	132.00	
			24	168 VA									
		AC	120	72 VA	-1021								189.00
			208	228 VA									
			240	288 VA		Alarm Switches	Used with control circuits and is actuated only when the circuit breaker has tripped. Standard construction includes a normally-open contact.	1A	AC 120	5 A	-2100	132.00	

DE2A DE2E DE3 Discount Schedule

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Table 7.16: QO OEM Mounting Bases—UL Recognized Components

Voltage System	Main Lug Rating	1P Spaces	Max. No. 1P	Mounting Bases		Main Wire Size AWG/kcmil	
				Cat. No.	\$ Price		
QO Plug-On Mounting Bases—For unit mounting QO, QO-GFI, QO-AFI and QO-EPD circuit breakers							
1Ø2W 240 Vac Max. 10 k AIC (Without Neutral Assembly)	70 A	2	2	QON2L70	27.30	14-4 Cu, 12-3 Al	
	125 A	4	4	SK9948BW	75.00	12-1/0 Cu/Al	
	125 A	4	4	SK9842	78.00	12-1/0 Cu/Al	
	125 A	6	6	SK9795	84.00	12-1/0 Cu/Al	
	125 A	6	6	SK9801	108.00	12-1/0 Cu/Al	
	150 A	6	6	SK9796BW	131.00	8-3/0 Cu/Al	
	150 A	8	8	SK9797	140.00	8-3/0 Cu/Al	
	40 A	2	2	QON2L40	35.00	14-6 Cu, 12-6 Al	
	70 A	2	4	QON24L70	50.00	14-4 Cu, 12-3 Al	
	100 A	6	12	QON612L100	70.00	8-1/0 Cu/Al	
1Ø3W 240 Vac Max. 10 k AAIC	100 A	8	16	QON816L100	92.00	8-1/0 Cu/Al	
	100 A	12	12	QON12L100	113.00	12-2/0 Cu/Al	
	100 A	12	12	QON12L100SF	161.00	6-2/0 Cu/Al	
	125 A	12	12	QON112L125I	120.00	4-2/0 Cu/Al	
	125 A	12	24	QON11224L125I	168.00	4-2/0 Cu/Al	
	125 A	16	16	QON116L125I	131.00	4-2/0 Cu/Al	
	125 A	16	24	QON11624L125I	191.00	4-2/0 Cu/Al	
	125 A	20	20	QON120L125I	225.00	4-2/0 Cu/Al	
	125 A	24	24	QON124L125I	263.00	6-2/0 Cu/Al	
	125 A	32	32	QON132L125I	360.00	4-2/0 Cu/Al	
3Ø3W 240 Vac Max. 10 k AIC (Without Neutral Assy.)	125 A	20	24	QON12024L125I	263.00	4-2/0 Cu/Al	
	150 A	24	24	QON124L150I	263.00	4-2/0 Cu/Al	
	200 A	12	12	QON124L200I	339.00	4-2/0 Cu/Al	
	200 A	12	12	QON12L200FTL	500.00	4-2/0 Cu/Al	
	200 A	24	24	QON124L200I	339.00	4-2/0 Cu/Al	
	200 A	24	24	QON124L200DL*	500.00	(2) 4-300 Cu/Al	
	200 A	30	30	QON130L200I	417.00	4-2/0 Cu/Al	
	225 A	42	42	QON142L225I	599.00	4-300 Cu/Al	
	125 A	12	12	QON312L125	251.00	4-2/0 Cu/Al	
	125 A	20	20	QON320L125	380.00	4-2/0 Cu/Al	
3Ø4W 240 Vac Max. 10 k AIC	125 A	24	24	QON324L125	395.00	4-2/0 Cu/Al	
	200 A	18	18	QON318L200	327.00	4-300 Cu/Al	
	200 A	24	24	QON324L200	402.00	4-300 Cu/Al	
	200 A	30	30	QON330L200	477.00	4-300 Cu/Al	
	225 A	42	42	QON342L225	674.00	4-300 Cu/Al	
	60 A	3	3	QON403L60N	49.80	12-6 Cu/Al	
	125 A	12	12	QON312L125I	281.00	4-2/0 Cu/Al	
	125 A	20	20	QON320L125I	441.00	4-2/0 Cu/Al	
	125 A	24	24	QON324L125I	461.00	4-2/0 Cu/Al	
	200 A	18	18	QON318L200I	426.00	4-300 Cu/Al	
QO Plug-On Mounting Bases—For unit mounting QOB, QOB-GFI and QOB-EPD circuit breakers	70 A	1	1	QOMB1	29.60	14-4 Cu 12-2 Al	
	70 A	2	2	QOMB2	59.00	14-4 Cu 12-2 Al	
	70 A	3	3	QOMB3	87.00	14-4 Cu 12-2 Al	
	QOB Bolt-On Mounting Bases—For unit mounting QOB, QOB-GFI, QOB-EPD circuit breakers						
	100 A	3	3	QON3B	56.00	12-1 Cu/Al	

▲ Also IEC rated and CE marked for IEC 60439-1. Use only Square D brand Type QOXC, QOXD, QOHX and QOE circuit breakers for 415Y/240 Vac max. systems.
◆ Device comes with factory-installed sub-feed lugs.
♦ Device comes with factory-installed feed-thru lugs.
★ Device comes with factory-installed dual-line lugs.

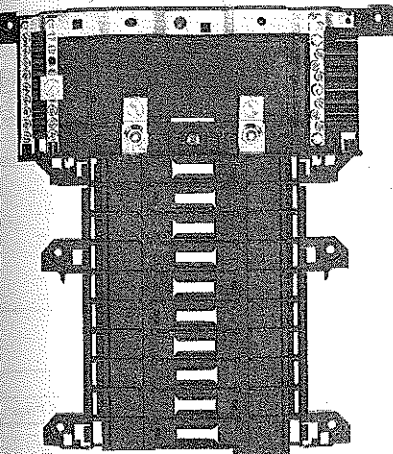
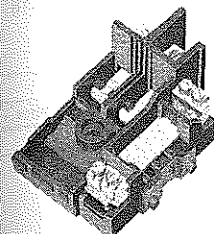
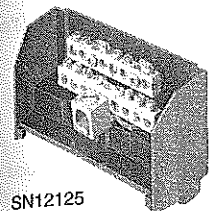


Table 7.17: Solid Neutral Assemblies

Main Lug Rating	Number of Branch Neutral Terminals	Cat. No.	\$ Price	Main Neutral Lug Wire Size		Branch Neutral Terminal Wire Size	
				Cu/Al		Cu	Al
125 A	12	SN12125	36.30	4-2/0 AWG		14-4 AWG	12-4 AWG
125 A	20	SN20	39.50	4-2/0 AWG		14-4 AWG	12-4 AWG
200 A	12	SN12200	40.70	4 AWG-300 kcmil		14-4 AWG	12-4 AWG
200 A	30	SN30	54.00	4 AWG-300 kcmil		14-4 AWG	12-4 AWG
225 A	42	SN42	63.00	4 AWG-300 kcmil		14-4 AWG	12-4 AWG

Table 7.18: Multi-9 Mounting Bases for UL489 C60, 240 Vac max.

Description	Poles	Amperes	Length		Cat. No.▼	\$ Price
			In.	mm		
One-conductor Mounting Base	12	200 A	10.4	264	US11220018	330.00
	24		14.4	366	US12420018	476.00
	36		19	483	US13620018	632.00
	48		23	584	US14820018	810.00
	60		27.5	699	US16020018	972.00
Two-conductor Mounting Base	12	150 A	10.4	264	US21215018	429.00
	24		14.4	366	US22420018	645.00
	36		19	483	US23620018	887.00
	48		23	584	US24820018	1140.00
	60		27.5	699	US26020018	1359.00
Three-conductor Mounting Base	12	100 A	10.4	264	US31210018	467.00
	24		14.4	366	US32420018	701.00
	36		19	483	US33620018	960.00
	48		23	584	US34820018	1245.00
	60		27.5	699	US36020018	1547.00

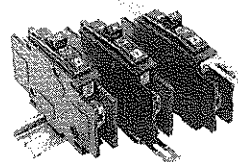
Table 7.19: Accessories for US Mounting Base for UL489 C60

Description	Cat. No.▼	\$ Price
Main lug kit for US mounting bases, 1 lug per kit, for 6 AWG to 300 kcmil cable	USMBLK	24.00
Terminal cover for US mounting base; provides IP20 ingress protection per IEC 60529; suitable for jumper bars or cable	USMBTC	49.50

▼ DE2 Discount Schedule

DE3A DE2 Discount Schedule

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Low Ampere QOU

Low Ampere QOU Miniature Circuit Breakers

QOU unit mount miniature circuit breakers (cable-in/cable-out) are ideal for OEM applications. They have Square D's unique Visi-Trip® feature and can be DIN rail-mounted or surface- or flush-mounted using mounting feet.

General Specifications Common to All Low Ampere QOU Circuit Breakers

- For convenient flush mount, surface mount or DIN mount (symmetrical rail 35 x 7.5 DIN/EN 50 022)
- Single handle with internal common trip
- Terminal lug wire size (1) 14-2 AWG Cu or Al
- Reversible line and load lugs
- Field-installable quick connectors
- UL Listed 48 Vdc (5 k AIR)
- UL Listed as HACR Type—10-70 A
- High magnetic trip circuit breakers (QOU-HM) are recommended for applications where high initial inrush may occur and for individual dimmer applications.
- For DIN mounting rails, see IEC Starters and Relays, Section 18

Table 7.20: QOU Low Ampere Miniature Circuit Breakers

Ampere Rating	1P 120/240 Vac		2P 120/240 Vac		2P 240 Vac		3P 240 Vac	
	Cat. No.	\$ Price	Cat. No.	\$ Price	Cat. No.▲	\$ Price	Cat. No.	\$ Price
10 k AIR								
10 A	QOU110	40.20	QOU210	87.00	—	168.00	QOU310	285.00
15 A	QOU115		QOU215		QOU215H		QOU315	
20 A	QOU120		QOU220		QOU220H		QOU320	
25 A	QOU125		QOU225		QOU225H		QOU325	
30 A	QOU130		QOU230		QOU230H		QOU330	
35 A	QOU135		QOU235		—		QOU335	
40 A	QOU140		QOU240		—		QOU340	
45 A	QOU145		QOU245		—		QOU345	
50 A	QOU150		QOU250		—		QOU350	
60 A	QOU160		QOU260		—		QOU360	
70 A	QOU170	78.00	QOU270	171.00	—	—	QOU370	363.00
22 k AIR								
15 A	QOU115VH	101.00	QOU215VH	189.00	—	—	QOU315VH	426.00
20 A	QOU120VH		QOU220VH		—		QOU320VH	
25 A	QOU125VH		QOU225VH		—		QOU325VH	
30 A	QOU130VH		QOU230VH		—		QOU330VH	
35 A	QOU135VH		QOU235VH		—		—	
40 A	QOU140VH		QOU240VH		—		—	
45 A	QOU145VH		QOU245VH		—		—	
50 A	QOU150VH		QOU250VH		—		—	
60 A	QOU160VH		QOU260VH		—		—	

▲ QOU-H interrupting rating is 10 kA at 240 Vac.

Table 7.21: QOU-HM Miniature Circuit Breakers (10 k AIR)

Ampere Rating	1P 120/240 Vac		2P 120/240 Vac		2P 240 Vac		3P 240 Vac	
	Cat. No.	\$ Price	Cat. No.	\$ Price	Cat. No.	\$ Price	Cat. No.	\$ Price
15 A	QOU115HM	40.20	—	—	—	—	—	—
20 A	QOU120HM		—	—	—	—	—	—

Table 7.22: QYU UL1077 Recognized Supplementary Protectors (5 k AIR)

Ampere Rating	1P 277 Vac		2P 120/240 Vac		2P 240 Vac		3P 240 Vac	
	Cat. No.	\$ Price	Cat. No.	\$ Price	Cat. No.	\$ Price	Cat. No.	\$ Price
10 A	QYU110	122.00	—	—	—	—	—	—
15 A	QYU115		—	—	—	—	—	—
20 A	QYU120		—	—	—	—	—	—
25 A	QYU125		—	—	—	—	—	—
30 A	QYU130		—	—	—	—	—	—

High Ampere QOU Circuit Breakers

General Specifications Common to All High Ampere QOU Circuit Breakers

- Flush mount, surface mount, and DIN rail mount.
- Internal common trip.
- Non-reversible line and load lugs.
- Terminal lug wire size (1) 12-2/0 AWG Cu or Al.
- UL Listed 60 Vdc per pole (5 k AIR). (Note: except switches)
- UL Listed as HACR type, 80-125 A.
- Non-automatic switches have the same physical packaging as miniature circuit breakers, but provide no overcurrent or short circuit protection. They are UL Listed per UL1087 and are CSA certified.

Table 7.23: QOU High Ampere Miniature Circuit Breakers (10 k AIR)

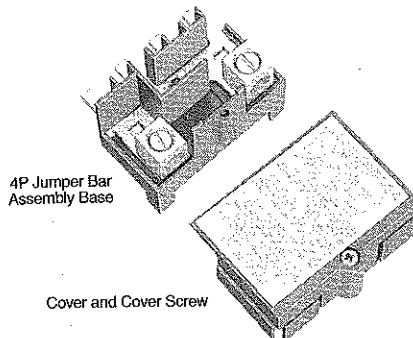
Ampere Rating	1P 120/240 Vac		2P 120/240 Vac		2P 240 Vac		3P 240 Vac	
	Cat. No.	\$ Price	Cat. No.	\$ Price	Cat. No.	\$ Price	Cat. No.	\$ Price
80 A	QOU180	176.00	QOU280	246.00	—	—	QOU380	416.00
90 A	QOU190		QOU290		QOU390			
100 A	QOU1100		QOU2100		QOU3100			
125 A	—		QOU2125		452.00	—	—	

Table 7.24: QOU Non-Automatic Switches

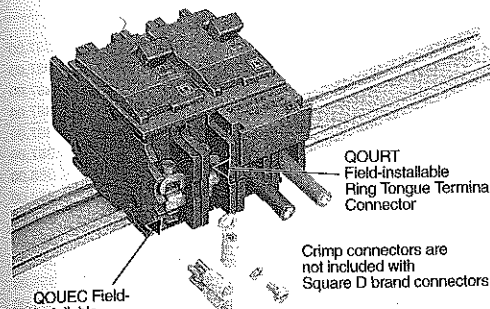
Ampere Rating	1P 120 Vac		2P 120/240 Vac		2P 240 Vac		3P 240 Vac	
	Cat. No.	\$ Price	Cat. No.	\$ Price	Cat. No.	\$ Price	Cat. No.	\$ Price
60 A	—	—	—	—	QOU200	87.00	QOU300	285.00
100 A	—	—	—	—	QOU2000	246.00	QOU3000	416.00
125 A	—	—	—	—	QOU20001	452.00	QOU30001	716.00

Interrupting Ratings Page 7-3
Accessories Page 7-12, 7-15
Dimensions Page 7-54

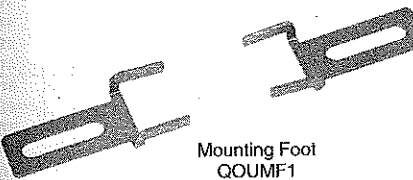
DE2 Discount Schedule



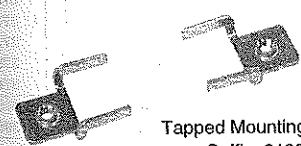
QOU14100JBAF



2P DIN Mounted QOU Circuit Breakers



Mounting Foot QOUMF-1



Tapped Mounting Foot Suffix-3100

Table 7.25: Accessories for QOU Low Ampere Circuit Breakers (Except as Noted)

Description	Order Qty.	Cat. No.	Unit \$ Price
Factory-installed ring tongue terminal, 10-32 screw, for 1P, 2P, 3P QOU, 10-60 A	1	Suffix -5283	Add 20% to price
Hex drive 5/32 in. wire binding screw for QOU	1	Suffix -5280	Add 20% to price
For padlocking 1P low ampere QOU circuit breaker in OFF or ON position	1	QOU1PA	10.10
For padlocking 2P and 3P low ampere QOU circuit breaker in OFF or ON position	1	QOU1PL	10.10
For padlocking 1P low ampere QOU circuit breaker in OFF position only	1	QOU1PAFLA♦	43.50
For padlocking 2P and 3P low ampere QOU circuit breaker in OFF position only	1	QOU2PAFLA♦	25.80
For padlocking 2P and 3P high ampere QOU circuit breaker in OFF position only	1	Suffix -7100	Add 20% to price
Handle lock-out, ON or OFF position	1	HLO1♦	9.90
4P 100 A Jumper bar assy. w/front wiring with base, cover and screw	1	QOU14100JBAF	73.00
4P 100 A Jumper bar assy. w/right side wiring with base, cover and screw	1	QOU14100JBAR	73.00
4P 100 A Jumper bar assy. w/left side wiring with base, cover and screw	1	QOU14100JBAL	73.00
1Ø, 4P, 100 A Jumper bar base with front wiring	40	QOU14100BAFB	53.00
1Ø, 4P, 100 A Jumper bar base with left side wiring	40	QOU14100BALB	53.00
1Ø, 4P, 100 A Jumper bar base with right side wiring	40	QOU14100BARB	53.00
4P Jumper bar cover	40	QOU14100CAB	13.20
Mounting screw for jumper bar cover	40	QOU1CMSB	0.35
6P 150 A Jumper bar assy. w/front wiring with base, cover and screw	1	QOU16150JBAF	99.00
1Ø, 6P, 150 A Jumper bar base with front wiring	40	QOU16150BAFB	69.00
1Ø, 6P, 150 A Jumper bar base with left side wiring	40	QOU16150BALB	69.00
1Ø, 6P, 150 A Jumper bar base with right side wiring	40	QOU16150BARB	69.00
6P jumper bar cover	40	QOU16150CAB	17.10
Vertical rainproof cover 2P and 3P QO, QOU, FA and KA	1	BCVA♦	30.80
	10	BCVB♦	30.80
	1	BCHA♦	30.80
	10	BCHB♦	30.80
Horizontal rainproof cover 2P QO, QOU, and 3P Q2, EH	1	QOUHFSC1	2.60
1P Fingersafe® cover for high ampere QOU circuit breaker	40	QOUHFSC1B	2.10
1P Fingersafe cover for low ampere QOU circuit breaker	40	QOUHFSC1B	2.10
Cover plate for one 2P QOU circuit breaker	1	QOUCP2	8.30
	40	QOUCP2B	6.60
Cover plate for one 3P QOU circuit breaker	1	QOUCP3	15.80
	40	QOUCP3B	12.80
Cover plate for two 2P QOU circuit breakers	1	QOUCP4	9.90
	40	QOUCP4B	7.90
Cover plate for three 2P QOU circuit breakers	1	QOUCP6	15.60
	40	QOUCP6B	12.20
Field-installable ring tongue terminal adaptor	1	QOURT	5.70
	80	QOURTB	4.40
Quick connector end connection wiring	1	QOUEC	5.70
	40	QOUECB	4.40
Quick connector forward or reverse wiring	1	QOUFR	5.70
	40	QOUFRB	4.40
1P QOU mounting foot	1	QOUMF1A	0.71
	80	QOUMF1B▲	0.54
2P QOU mounting foot	1	QOUMF2A	1.40
	40	QOUMF2B▲	1.10
3P QOU mounting foot	1	QOUMF3A	2.30
	24	QOUMF3B▲	1.70
Tapped mounting foot for QOU, 1P and 2P 10-70 A, 3P 10-60 A	1	Suffix -3100	Add 20% to price
Packaged with circuit breaker	1	QOUMFS1	2.40
Individually packaged	80	QOUMFS1B	2.30
Bulk packed	80	QOUMFS1B	2.30
Mechanical interlock attachment: Used to interlock two circuit breakers mounted side-by-side so that only one circuit breaker can be ON at a time. A 1P or 2P circuit breaker can be mounted on the left and interlocked with a 2P or 3P circuit breaker on the right.	1	QOU2DTILA■	24.90

▲ For use on low and high ampere QOU.
■ 10-70 A 1P and 2P, 10-60 A 3P.
♦ DE2E Discount Schedule

For QOUQ Low Ampere Circuit Breakers with Four-Point Quick-Connect Terminals

QOUQ low ampere circuit breakers with four-point quick-connect terminals are provided with permanent factory-installed terminals which are affixed to the Load or OFF end of the circuit breaker. This special terminal will accommodate up to four 1/4-inch insulated female quick connect wire terminations. Total ampacity of these connections must not exceed the rating of the circuit breaker.

Table 7.26: QOUQ Four-Point Quick-Connect Terminals

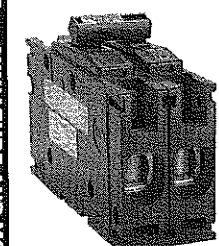
Poles	Order Qty.	Cat. No.	Unit \$ Price Adder
1	1	Change QOU to QOUQ	8.90
2	1		17.70
3	1		26.40

Electrical Accessories for QOU Page 7-12

DE2 DE2A DE2E Discount Schedule

MINIATURE AND MOLDED CASE CIRCUIT BREAKERS

MINIATURE AND MOLDED CASE CIRCUIT BREAKERS



High Ampere QOU