

Factory-Installed Accessories for 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, QO-CAFI, QO-DF, or QO-PDF circuit breakers, or on QO2150, QO2175, or QO2200 circuit breakers.

Table 1.16: Factory-Installed Accessories for QO/QOB Circuit Breakers

Accessory	Description	Rated Voltage	Coil Burden	Cat. No. Suffix	Accessory	Description	Contact Comb.	Max. Voltage	Max.	Cat. No. Suffix
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. Application <ul style="list-style-type: none"> For use with momentary or maintained push button. Not available on QO-GFI, QO-EPD, QO-AFI, QO-CAFI, QO-DF, or QO-PDF. Shunt trip terminals accept (2) 0.14–0.12 AWG Cu. 	12 Vac/Vdc 24 Vac/Vdc	60 VA 168 VA	-1042	Auxiliary Switches	Monitors circuit breaker contact status and provides a remote signal indicating the circuit breaker contacts are OPEN or CLOSED. Application <ul style="list-style-type: none"> Auxiliary switch terminals accept (2) 14–12 AWG Cu leads. Leads (EH): Yellow for "A", Blue for "B", Striped common 18 AWG Cu. 	1A 1B	120 Vac 120 Vac	5 A 5 A	-1200 -1201
		120 Vac 208 Vac 240 Vac	72 VA 228 VA 288 VA	-1021	Alarm Switches	Used with control circuits and is actuated only when the circuit breaker has tripped. Standard construction includes a normally-open contact. Application <ul style="list-style-type: none"> Leads: Alarm switch terminals accept (2) 14–12 AWG Cu leads. 	1A	120 Vac	5 A	-2100

Plug-on Neutral Load Center Main Lugs, Convertible Mains (1Ø3W—120/240 Vac Indoor—UL Listed)

QO Plug-on Neutral Load Centers and CAFI Breakers are engineered for a quick Plug-on Neutral connection on every unit.

Table 1.17: Convertible Main Lugs Plug-on Neutral Load Center (Compatible with QO Plug-on Circuit Breaker and QO Plug-on Neutral Circuit Breakers)

	Mains Rating	Spaces	Max. Single Pole Circuits ^[1]	Max. Tandem Circuit Breakers	Load Center Box and Interior	Load Center Covers		AI	CU	Equipment Ground Bar Kit (Factory-Included)	Box No. ^[2]
						Flush/Surface	Mono-Flat				
INDOOR	Convertible Mains—Factory-installed Main Circuit Breaker, 65 kA Short Circuit Current Rating—Copper Bus										
	QOM1 Main Frame Size—Convertible to Main Circuit Breaker										
	125 A	12	24	12	QO112L125PG	QOC16UF ^[3] QOC16US	—	6–2/0		PKGTALP1	6
		16	24	8	QO116L125PG	QOC24UF ^[3] QOC24US	—	6–2/0		PKGTALP1	7
		20	24	4	QO120L125PG	QOC20U100F ^[3] QOC20U100S	—	6–2/0		PKGTALP1	6
		24	34	10	QO124L125PG	QOC24UF ^[3] QOC24US	—	6–2/0		PK15GTAL	7
		30	34	4	QO130L125PG	QOC30U125C	—	6–2/0		PK23GTAL	9
		32	38	6	QO132L125PG	QOC32UF ^[3]	—	6–2/0		PKGTALP1	8
	Convertible Mains—Factory-installed Main Circuit Breaker, 65 kA Short Circuit Current Rating—Copper Bus										
	QOM2 Main Frame Size—Convertible to Main Circuit Breaker										
	200 A	12	24	12	QO112L200PG	QOC30UF ^[3] QOC30US	QOCMF30UCW ^[3]	4–300	4–250	PKGTALP1	9
		24	36	12	QO124L200PG	QOC30UF ^[3] QOC30US	QOCMF30UCW ^[3]	4–300	4–250	PKGTALP1	9
		30	40	10	QO130L200PG	QOC30UF ^[3] QOC30US	QOCMF30UCW ^[3]	4–250		PK23GTAL	9
		40	60	20	QO140L200PG	QOC40UF ^[3] QOC40US	—	4–300	4–250	PKGTALP2	10
	225 A	42	52	10	QO142L225PG	QOC42UF ^[3] QOC42US	QOCMF42UCW ^[3]	4–300		PK23GTAL	11
		54	64	10	QO154L225PG	QOC54UF ^[3]	QOCMF54UCW ^[3]	4–300		PK23GTAL	11

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

[1] Maximum single pole branch circuits utilizing QO and/or QOT circuit breakers.

[2] See page 1-31

[3] Available in gray and white. For white equivalencies, add the "W" suffix to the reference, or see page 1-28.

Field-Installed Main Circuit Breaker Kits, 1Ø

Table 1.18: QOM1 Frame Size—Use with Convertible Main Load Centers Only

Main Circuit Breaker Rating [4]	Convertible Load Center Mains Rating	22 k AIR [5] Main Circuit Breaker	Lug Wire Size [6] AWG/kcmil
50 A	100–125	QOM50VH	12–2/0 Al or Cu
60 A	100–125	QOM60VH	
70 A	100–125	QOM70VH	
80 A	100–125	QOM80VH	
90 A	100–125	QOM90VH	
100 A	100–125	QOM100VH	
110 A	125	QOM110VH	
125 A	125	QOM125VH	



QOM1 Frame Size
50–125 Amperes



QOM2 Frame Size
100–225 Amperes

Table 1.19: QOM2 Frame Size—Use with Convertible Main Load Centers Only

Main Circuit Breaker Rating [4]	Convertible Load Center Mains Rating	22 k AIR [5] Main Circuit Breaker [7]	Lug Wire Size [6] AWG/kcmil
100 A	150–225	QOM2100VH	4–300 Al or Cu
125 A	150–225	QOM2125VH	
150 A	150–225	QOM2150VH	
175 A	200–225	QOM2175VH	
200 A	200–225	QOM2200VH	
225 A	225	QOM2225VH	

Plug-on Neutral Load Center Main Breaker, Convertible Mains (1Ø3W—120/240 Vac Indoor—UL Listed)

QO Plug-on Neutral Load Centers and CAFI Breakers are engineered for a quick Plug-on Neutral connection on every unit.

Table 1.20: Convertible Main Breaker Plug-on Neutral Load Centers (Compatible with QO Plug-on Circuit Breakers and QO Plug-on Neutral Circuit Breakers)

		Mains Rating	Spaces	Max. 1P Circuits	Max. Tandem Breakers	Load Center Box and Interior	Load Center Covers		Al	Cu	Equipment Ground Bar Kit (Order Separately)	Box No. [8]	



QO154M200P

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

[4] Do not exceed the load center mains rating.

[5] 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.

[6] 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 Main Wire Size in that load center table.

[7] Add suffix 1021 for 120, 208 or 240 Vac shunt trip.

[8] See Indoor Knockout Information and Enclosure Dimensions, page 1-31.

[9] Available in gray and white. For white equivalencies, add the "W" suffix to the reference, or see page 1-28.

[10] For Certification to IEC 60439-1 contact the local Square D sales office; otherwise panels are NOT CE marked. (For use on 415Y/240 Vac 3-phase 4-wire, 3,000 Short Circuit Current Rating when QOXD...branch circuit breakers are used and 10,000 Short Circuit Current Rating when QO...VS branch circuit breakers are used).

Field-Installed Main Lugs Kits, 1Ø

Table 1.21: 1Ø Field-Installed Main Lug Kits—Use with Convertible Main Load Centers Only

Main Lugs Rating [11]	Use on Convertible Load Center with Mains Rating	Cat. No.	Lug Wire Size [12] AWG/kcmil Al or Cu
125 A	100–125 A	QOL125 [13]	6–2/0
125 A	100–125 A	QOL125VD [13]	6–4/0
225 A	150–225 A	QOL225 [13]	6–300



QOL125

QOL225

QOTM Plug-On Neutral Load Centers with Qwik-GripTM (1Ø3W—120/240 Vac Indoor—UL Listed)

The Square D QO plug-on neutral load centers with Qwik-Grip simplify rough-in by eliminating the need to remove knockouts, install wire connectors, and blindly pull wire into the load center. A quick bend of the wire using the wire bend guide on the Qwik-Grip insert and the wire slides into the slot. Once inserted, the Qwik-Grip shield snaps on to keep the wire behind the router for a secure, code-compliant installation.



QO Plug-on Neutral Load Center with Qwik-GripTM

Table 1.22: Plug-on Neutral Load Centers with Qwik-Grip (Compatible with QO Plug-on Circuit Breakers and QO Plug-on Neutral Circuit Breakers)

	Mains Rating	Spaces	Max. Single Pole Circuits	Max. Tandem Circuit Breakers	Load Center Box and Interior	Indoor Cover with Door (Order Separately)		Main Wire Size AWG/kcmil		Equipment Gound Bar Kit	Box No.
						Flush/Surface	Mono-Flat	Al	Cu		
INDOOR	Convertible Mains—Factory-Installed Main Lugs, 65 kA Short Circuit Current Rating—Copper Bus, QOM1 Main Frame Size, Convertible to Main Circuit Breaker										
	125 A	24	34	10	QO124L125PQG	QOC24UF ^[14] QOC24US	—	6–2/0		PK15GTAL Included	7Q
		30	34	4	QO130L125PQG	QOC30U125C	—			PK23GTAL Included	9Q
	Convertible Mains—Factory—Installed Main Lugs, 65 kA Short Circuit Current Rating—Copper Bus, QOM2 Main Frame Size, Convertible to Main Circuit Breaker										
	200 A	30	40	10	QO130L200PQG	QOC30UF ^[14] QOC30US	QOCMF30UCW ^[14]	6–300		PK23GTAL Included	9Q
	225 A	42	52	10	QO142L225PQG	QOC42UF ^[14] QOC42US	QOCMF42UCW ^[14]			PK23GTAL	9Q
		54	72	18	QO154L225PQG	QOC54UF ^[14]	QOCMF54UCW ^[14]	6–300		PK23GTAL Included	12Q
	Convertible Mains—Factory-Installed Main Circuit Breaker, 22 kA Short Circuit Current Rating—Copper Bus, QOM2 Main Frame Size, Convertible to Main Lugs or Main Circuit Breaker										
	200 A	30	40	10	QO130M200PQ	QOC30UF ^[14] QOC30US	QOCMF30UCW ^[14]	4–250		PK23GTA (Order separately)	11Q
		42	52	10	QO142M200PQ	QOC42UF ^[14] QOC42US	QOCMF42UCW ^[14]			PK23GTA (Order separately)	11Q
		54	72	18	QO154M200PQ	QOC54UF ^[14]	QOCMF54UCW ^[14]	4–250		PK23GTA (Order separately)	12Q

[11] Do not exceed the load center mains rating.

[12] 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 Main Wire Size in that load center table.

[13] If main circuit breaker knockout has been removed from the load center's trim, order appropriate filler plate from Table 1.51, page 1-24

[14] Available in gray and white. For white equivalencies, add the "W" suffix to the reference, or see page 1-28.