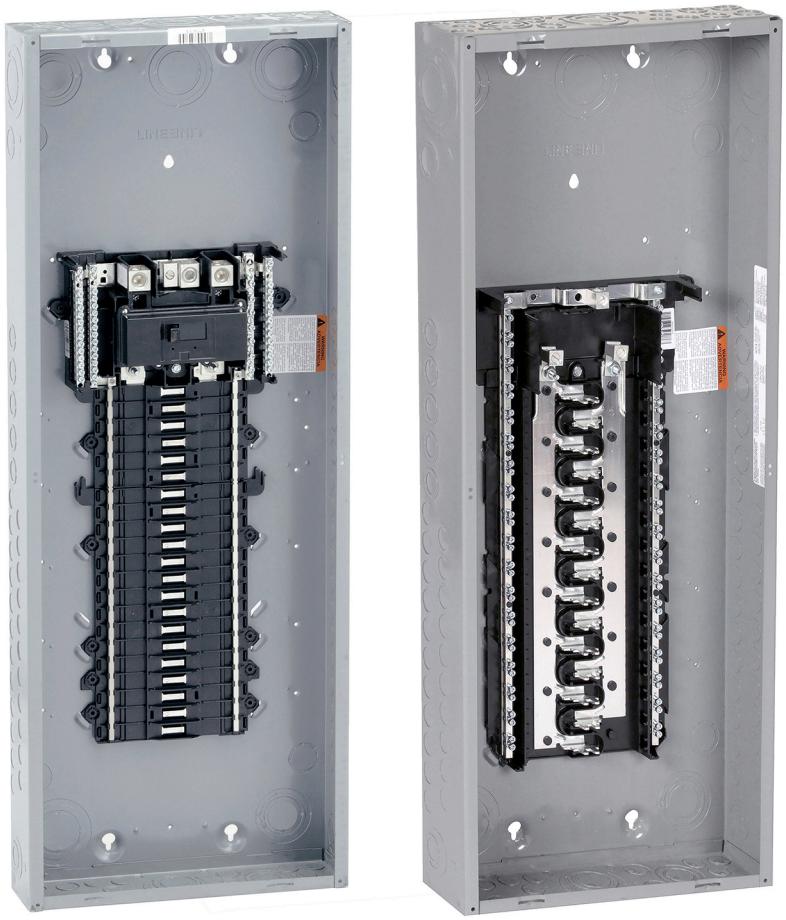
Square D™ QO™ and Homeline™ Load Centers and Enclosures

Catalog

1100CT0501
06/2026



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QO Load Centers

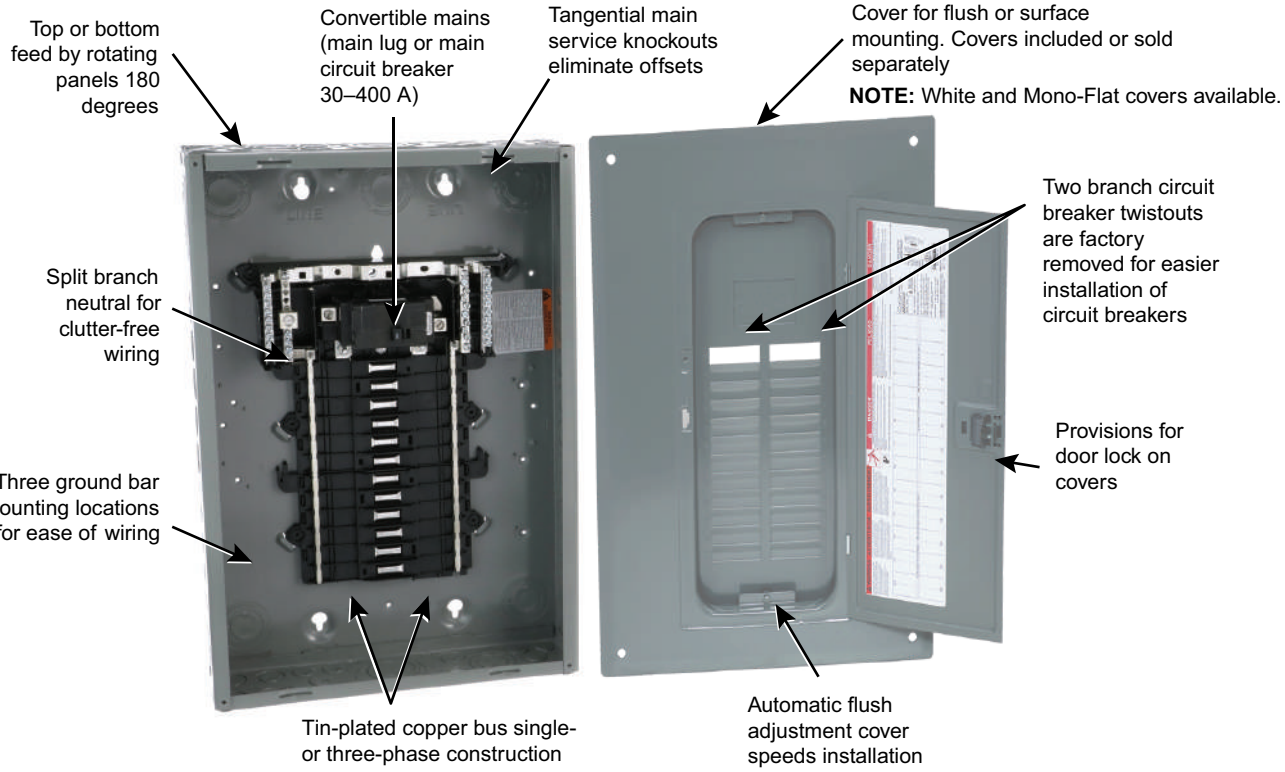
QO Product Description

Introduction to QO Load Centers

QO Load Centers are built on the Square D reputation for reliability, innovation, and leadership in circuit protection.

QO Load Centers from Square D are Underwriters Laboratories® (UL®) Listed panelboards. They are designed to meet residential, commercial, and industrial requirements to help protect electrical systems, equipment, and people.

WARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer, and lead compounds, which are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.



Other Features:

- **QO 3/4–inch format:** this space-saving feature saves wire.
- **Backed out neutral screws:** save labor and installation time.
- **Convertible Mains:** allows fast field conversion between main circuit breaker and main lugs to meet changing job requirements.
- **Standard 22 kA /10 kA AIR SCCR:** standard short-circuit series rating for all main circuit breaker Load Centers provides increased application capability. Main circuit breaker 22 kA / Main lugs or branch circuit breakers 10–65 kA.
- **3–phase:** QO three-phase main circuit breaker panels can be field upgraded to provide up to 100,000 A series connected short circuit current ratings (SCCR).
- **Interior:** single, captive interior mounting screw retained by the interior. Interior mounts can be removed during rough-in for pain or theft protection.
- **Screws:** combination slot / square-drive neutral, ground and cover screw accommodate both standard flat blade screw drivers and square-head drivers.

Catalog Number Guide – QO Load Centers

Figure 1 - QO Load Centers Catalog Number Guide

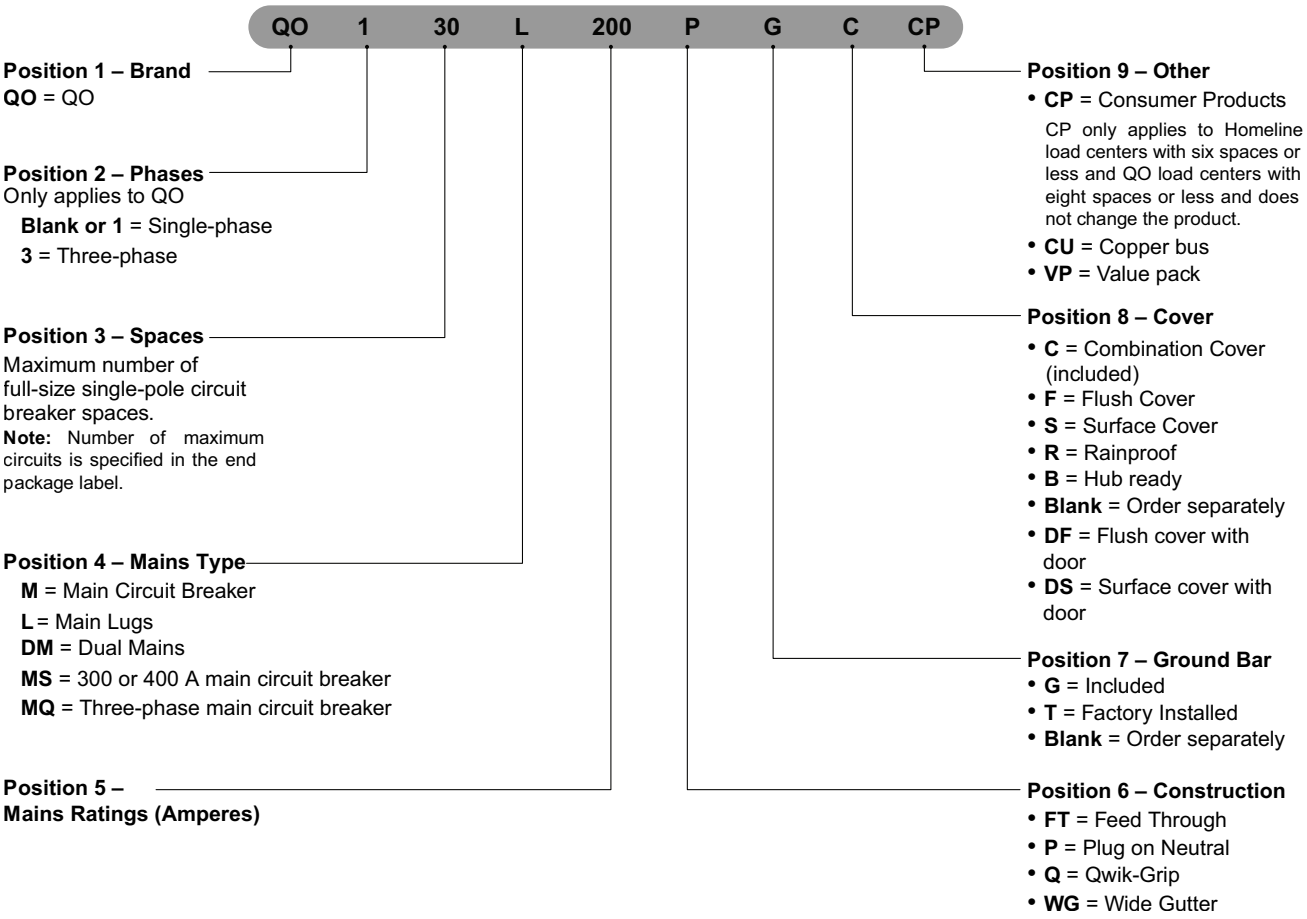
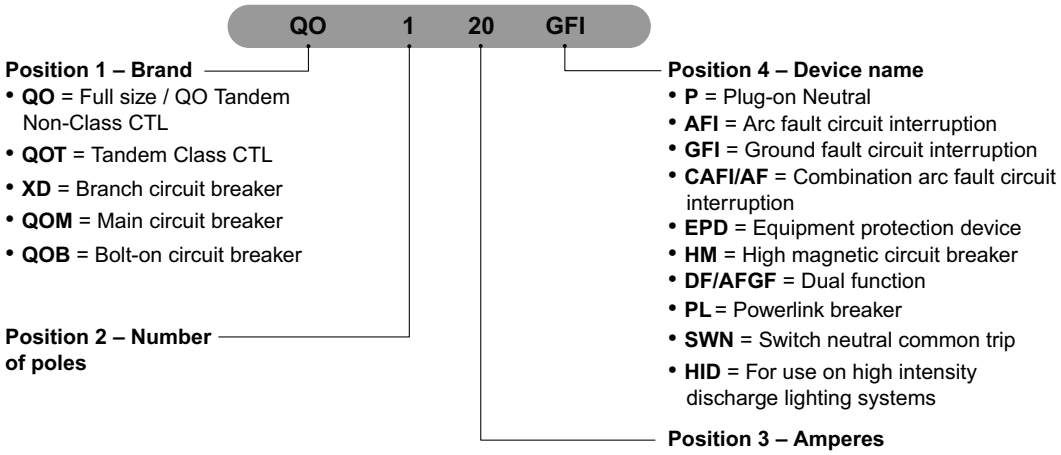
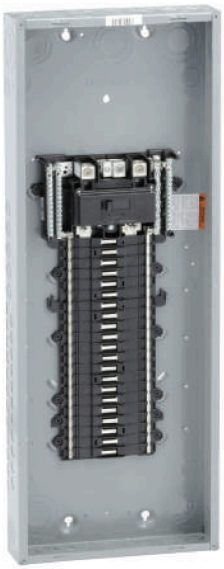


Figure 2 - QO Circuit Breakers Catalog Number Guide



General Information



QO142M200P

QO330L200G

Type

Circuit breaker load centers for use on electrical systems are UL Listed under File E-6294 (panelboards) and meet Federal Specifications W-P-115c, Type 1, Class 2 for use in government housing. Select from QO, QOT (non-CTL), QO-PL, QO-GFI (UL Class A ground fault protection), QO-AFI (arc fault circuit interrupter), QO-CAFI (combination arc fault interrupter), or QO-EPD (30 mA equipment ground fault protection) branch circuit breakers.

Neutral Assemblies

Branch neutral terminals suitable for one #14–4 AWG copper or one #12–4 AWG aluminum wire

Two or three #14-1/0 AWG copper or #12–1/0 AWG aluminum terminals provided on 12–42 circuits, 100–225 A load centers

Suitable lugs provided on the neutrals for termination of the grounding conductor

All unused neutral terminals may be used to terminate bare or green equipment grounding conductors when the load center is used as service equipment:

- one #14–4 AWG copper
- one #12–4 AWG aluminum
- two or three #14–10 AWG copper
- two or three #12–10 AWG aluminum

Ratings

Single-Phase

Main lugs: 30–400 A

Main circuit breaker: 100–400 A three-phase

Main lugs: 60–225 A

Main circuit breaker: 100–225 A

UL Listed

- File E-6294 (panelboards)
- UL 67 standard enhances safety in electrical distribution panels suitable for use as service equipment
- Suitable for use with 75°C copper or aluminum main conductors

Class CTL

UL Listed Class CTL load centers meets the 2020 National Electrical Code® (NEC®) article for lighting and appliance branch circuit panelboards.

NOTE: Only applicable on non-plug on neutral load centers.

Service

120 Vac, 1Ø2W

120/240 Vac, 1Ø3W

240 Vac, 1Ø3W

208Y/120 Vac, 3Ø4W

240/120 Vac delta, 3Ø4W

240 Vac corner grounded delta, 3Ø3W

48 Vdc maximum (1Øconvertible main lug 12–42 circuit only)

Line Lugs

All lugs suitable for 75°C copper or aluminum wires.

Main lugs and main circuit breaker load centers have wire binding screw torque values on the wiring diagrams and circuit breaker labels.

Phasing

Load centers have distributed phase bussing.

Most branch circuit breakers can be mounted in any position.

Table 1 - Branch Circuit Breakers


QO115PCAFI


QO230EPD


QO320HID

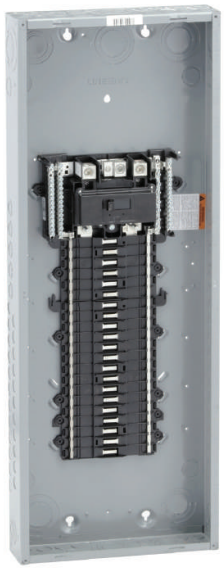

QO120VH


QH330

10,000 AIR	
QO	1–pole, 10–70 A 2–pole, 10–200 A 3–pole, 10–100 A
QOT (Tandems Non-CTL)	1–pole, 15–20 A
QO-EPD	1–pole, 15–30 A 2–pole, 15–60 A
QO-GFI	1–pole, 15–30 A 2–pole, 15–60 A
QO-AFI	1–pole, 15–20 A
QO-CAFI	1–pole, 15–20 A
QO-HID	1–pole, 15–50 A 2–pole, 15–50 A 3–pole, 15–30 A
QO-PL QO-PLILC	1–pole, 10–20 A, 30 A 2–pole, 10–60 A 3–pole, 15–60 A
QO-SWN	2–pole, 10–50 A 3–pole, 10–50 A
22,000 AIR	
QO-VHGFI	1–pole, 15–30 A
QO-VH	1–pole, 15–30 A 2–pole, 15–200 A 3–pole, 15–100 A
QOB-VH	2–pole, 150 A (1) 3–pole, 110–150 A (1)
42,000 AIR	
QOH	2–pole, 40–125 A
65,000 AIR	
QH	1–pole, 15–30 A 2–pole, 15–30 A 3–pole, 15–30 A

(1) For use with 300 A and 400 A load centers only. Requires PK3CA mounting kit, ordered separately.

QO Indoor and Outdoor Load Centers



NEMA Type 1 — Indoor

NEMA 1 enclosures are typically used for protecting controls and terminations from objects and personnel. This style of enclosure, while offering a latching door, does not have a gasketed sealing surface. NEMA 1 enclosures are used in applications where sealing out dust, oil, and water is not required.

NEMA Type 3R — Rainproof

NEMA 3R enclosures are typically used in outdoor applications for wiring and junction boxes. This style of enclosure provides protection against falling rain, sleet, snow, and external ice formation. In an indoor application, they protect against dripping water. This style of enclosure does not have a gasketed sealing surface. Some models have hasps for padlocking.

Indoor Enclosures (NEMA Type 1)

QO Plug-on Neutral
QO plug-on neutral load centers offer time-savings for plug-on neutral combination arc fault (CAFI) and dual function circuit breaker installation. Our innovative, split neutrals are designed to save you time and wire, allowing plug-on neutral circuit breakers to connect directly to the neutral bar without the pigtail.

Qwik-Grip wire management system available
Save time and simplify your work by eliminating knockouts, installing wire connectors and blindly pulling wire into the load center.

Material, Finish and Knockouts
Our enclosures are from sheet steel with knockouts at top, bottom, back and sides. Finish consists of gray baked enamel electrodeposited over cleaned, phosphatized steel. Most 100–225 A indoor enclosures are 14.25 in. (362 mm) wide and 300–400 A indoor enclosures are 20 in. (508 mm) wide. QO enclosures can be rotated to allow top or bottom feed. QO load center interiors have shielded tin plated copper bus bars to ensure superior performance and durability.

Flush and Surface Covers
Indoor QO covers with latch are available in surface or flush mount and are included with our load centers or purchased separately. Doors to cover circuit breaker handles, except on 2–4, 4–8 and 6–12 circuit models. Triple lead cover screws for fast cover installation.

Automatic Flush Adjustment
QO flush covers feature a floating, spring-mounted trim providing automatic adjustment. This ensures proper alignment without manual adjustment and speeds up the final installation.

Filler Plates
Snap-in style filler plates are accessories purchased separately available to cover unused spaces. HOMFP and QOFP filler plates available for branch circuit breaker spaces in all of our covers. QOM1FP filler plates available for 100–125 A convertible load center covers. QOM2FP filler plates available for 150–225 A convertible load center covers.

Different Colors and Styles
QO covers are available in gray and white colors. Mono-Flat covers, a high-end alternative with aesthetically pleasing design and low profile surface with concealed mounting screws and door hinges are available as an alternative to our standard covers.

Outdoor Enclosures (NEMA Type 3R)

QO Plug-on Neutral
QO plug-on neutral load centers offer time-savings for plug-on neutral combination arc fault (CAFI) and dual function circuit breaker installation. Our innovative, split neutrals are designed to save you time and wire, allowing plug-on neutral circuit breakers to connect directly to the neutral bar without the pigtail.

Material, finish and knockouts
Galvannealed steel enclosure includes interior trim and door with a gray baked enamel electrodeposited over cleaned, phosphatized steel. QO load center interiors have tin plated copper bus bars.

Stainless steel latch
A stainless steel door latch on the enclosure provides closure and maximum durability.

Wiring access without door removal
Convertible main panels are side-hinge door devices, providing full wiring access without door removal.

Bolt-on hubs
NEMA Type 3R devices have provisions for interchangeable bolt-on hub. Square D type rain-tight bolted hubs provide fast and convenient top feed conduit connection. Hubs are available for 0.75 in. (19 mm) to 4 in. (102 mm) conduit size. No gasket is required with hubs from 0.75 in. (19 mm) to 2.50 in. (64 mm) when used on NEMA Type 3R load centers.

Fixed Mains vs. Convertible Mains – Single Phase

Table 2 - Single-Phase — QO Load Centers, Fixed Mains 30–125 A

Indoor NEMA 1	Rainproof NEMA 3R
Fixed Mains (30–125 A)	
	
Standards	
UL 67 Listed • FIle E-6294 • Suitable for use as service equipment in select models • 75°C wire rating	
Short Circuit Current Rating	
UL short circuit rating depends on lowest interrupting rating of circuit breaker installed.	
Interior	
• Tin plated aluminum bus • Tin plated copper bus is an available option on 6–12 and 8–16 circuit load centers • Tin plated copper bus is standard on 4–8 circuit load centers	
Mains	
• Factory-installed main lugs • Top mains positioning only • Top or bottom feed • A backfed main circuit breaker can be field installed in 4–8, 6–12, and 8–16 load centers using PK2MBretaining kit	
Covers	
Combination flush and surface cover	Cover included
Main Lug Kits	
Not applicable	
Main Circuit Breaker Kits	
Not applicable	
Field-Installable Main Circuit Breaker	
Not Applicable	

Table 3 - Single-Phase — QO Load Centers, Convertible Mains 100–225 A

Convertible Mains (100–225 A)	
	
Standards	
UL 67 Listed • File E-6294 • Suitable for use as service equipment • 75°C wire rating	
Short Circuit Current Rating	
• Main lugs: up to 65,000 AIR (depends on lowest interrupting rating of branch circuit breakers installed) • Main circuit breaker: 22,000 AIR standard • 22,000 AIR main circuit breaker kits	
Interior	
• Shielded, one-piece tin plated copper bus • Removable interior with single, captive mounting screw • Split branch neutral with up to 50% more terminations than required • Multiple mounting locations for equipment grounding bar kits: left, right, and bottom • Main lugs Load Centers have equipment grounding bar kits included (not factory-installed)	
Mains	
Factory-installed main lugs convertible to main circuit breaker	
Load Center Amperage	**Main Circuit Breaker Kit (A)**
125	50–125
150	100–150
200	100–200
225	100–225

Factory-installed main circuit breaker convertible to main lugs		
Main Circuit Breaker	**Main Lug Kit**	**Load Center (A)**
100	125	100
125	125	125
150	225	150
200	225	200
225	225	225

Covers	
• Available in surface or flush mount and are included or purchased separately. • Flush covers have spring loaded interior trim for automatic flush adjustment. • Easy to open latch	Cover included
Main Lug Kits	
• Field-installable in main circuit breaker or main lugs load centers • QOL125kit for use in 100–125 A load centers • QOL225kit for use in 150–225 A load centers	
Main Circuit Breaker Kits	
• Field-installable in main lugs or main circuit breaker load centers • 50–225 A main circuit breaker kit is 22,000 AIR series rated with 10,000 AIR branch circuit breakers	

Table 3 - Single-Phase — QO Load Centers, Convertible Mains 100–225 A (Continued)

Convertible Mains (100–225 A)				
Field-Installable Main Circuit Breaker				
Main Circuit Breaker Rating	**Load Center Mains Rating**	**22,000 AIR Main Circuit Breaker**	**Lug Wire Size AWG/kcmil Al or Cu**	**Lug Torque (lb-in. / N•m)**
QOM1 Frame Size				
50	100–125 A	QOM50VH	#6–2/0	50 lb-in. (6 N•m)
60	100–125 A	QOM60VH		
70	100–125 A	QOM70VH		
80	100–125 A	QOM80VH		
90	100–125 A	QOM90VH		
100	100–125 A	QOM100VH		
110	125 A	QOM110VH		
125	125 A	QOM125VH		
QOM2 Frame Size (4), (5)				
100	150–225 A	QOM2100VH	#4–250 Cu #4–300 Al	250 lb-in. (28 N•m)
125	150–225 A	QOM2125VH		
150	150–225 A	QOM2150VH		
175	200–225 A	QOM2175VH		
200	200–225 A	QOM2200VH		
225	225 A	QOM2225VH		

(2) Do not exceed the load center mains rating.
(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 Main Wire Size in the load center tables.
(4) Add suffix 1021 for shunt trip.
(5) Add suffix 8041 for control wire taps.

QONQ30LS400
(interior)

NC50NQVF

MH50

Single-Phase — QO Load Centers, Fixed Mains 300–400 A

Standards

UL Listed

- File E-6294
- Suitable for use as service equipment
- 75°C wire rating

Short circuit current rating

- Main lugs: up to 65,000 AIR
- Main circuit breaker: 42,000 AIR fully rated

Interior

- Available in single-phase construction
- Interiors accept QO and QOB-VH 110–150 A maximum circuit breakers (QOB-VH circuit breakers require connector kit PK3CA)
- Tin plated aluminum bus
- Available in single-phase construction
- Tin plated copper connector fingers
- Neutral assemblies positioned opposite the mains compartment

Mains

- Factory-installed main lugs and main circuit breaker
- Multiple wire terminals for phases and neutral
- Top or bottom mains positioning

Covers

Flush and surface covers sold separately

Enclosures

- 20 in. (508 mm) wide galvanized steel
- Embossed 0.25 in. (6 mm) standoffs
- End walls, one blank and one with knockouts, are standard; both are removable and interchangeable
- Embossed keyholes centered at both ends and in visual positioning
- Multiple grounding bar mounting locations
- Wire management braces

Single-Phase – QO Load Centers, Special Purpose

QO124L125PGC

QO24L60NRNM

QO1612M125FTRB

QO1DM10050TRBR

QO130L125PWG

Special Purposes – Recreational vehicle and manufactured housing load centers

- UL Listed (File E-6294)
- Single-phase, 2– and 3–wire
- Covers included with load centers

Load centers with covers

- Combination flush/surface cover included with load centers
- Equipment grounding bar included on main lug load centers
- Top or bottom feed on incoming service by rotating compete load center 180 degrees
- Convertible main load centers

Non-metallic load center

- UL Listed and suitable for use as service equipment
- Side-hinge door device
- 10,000 AIR rating
- Single-phase, 2- and 3-wire
- Factory-installed grounding bar
- Cover included with load center
- Knockouts in bottom endwall, side and back

Generator panel manual transfer

- Connects utility and standby power to installed branch circuits
- Includes two factory-installed two-pole main circuit breakers tied together with a mechanical interlock.
- 30 A and 60 A main circuit breaker versions
- Supply up to eight branch circuits using tandem circuit breakers
- Available indoor enclosure only
- Cover with door included

Riser panels

- Offset interior provides ample wire gutter space for high rise applications.
- Factory-installed main lugs (125 A), convertible to main circuit breaker with standard QOC cover and optional Mono-Flat cover.
- Factory-installed main lugs (200 A), convertible to main circuit breaker when used with QOC cover only.
- Indoor only, available in 12 to 40 circuits
- Optional Mono-Flat cover available for both 125 A and 200 A panels (sold separately).

Fixed Mains vs. Convertible Mains – Three Phase

Table 4 - Three-Phase — QO Load Centers, Fixed Mains (60–225 A)

Indoor NEMA 1	Rainproof NEMA 3R
Standards	
UL Listed • File E-6294 • Suitable for use as service equipment • 75°C wire rating	
Short Circuit Current Rating	
• Main lugs: up to 65,000 AIR (depends on lowest interrupting rating of branch circuit breakers installed) • Main circuit breaker up to 100 A: 22,000 AIR standard	
Interior	
• Shielded, on-piece tin plated copper bus on 100–225 A • Removable interior with single, captive mounting screw on 100–225 A (indoor only) • Main lugs load centers have equipment grounding bar kits included (not factory-installed)	
Mains	
• Factory-installed main lugs • Main neutral terminal located next to the phase terminals on 125–225 A main circuit breaker devices • Top or bottom feed	
Covers	
• Flush and surface covers sold separately • Flush covers have spring-loaded interior trim for automatic flush adjustment • Easy to open door latch	Cover included
Branch Neutral Termination	
• Suitable for copper or aluminum wire • Terminals suitable for #14–#4 AWG copper or one #12–#4 AWG aluminum wire • Positioned on both sides of the mains compartment • Slot/square drive wire binding screws • Three (3) #14–1/0 AWG copper or #12–#6 AWG aluminum terminations standard on 12–42 circuits, 100–225 A load centers	
Main Circuit Breaker Kits	
Not applicable	

Table 5 - Three-Phase — QO Load Centers, Convertible Mains (100–225 A)

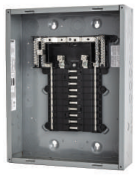
Indoor NEMA 1	Rainproof NEMA 3R
Standards	
UL Listed • File E-6294 • Suitable for use as service equipment • 75°C wire rating	
Short Circuit Current Rating	
• Main lugs: up to 65,000 AIR (depends on lowest interrupting rating of branch circuit breakers installed) • Main circuit breaker up to 100 A: 22,000 AIR standard • Main circuit breaker 125–225 A: 25,000 AIR standard; optional for field installation up to 65,000 AIR for 70–225 A main circuit breakers	
Interior	
• Shielded, one-piece tin plated copper bus on 100–225 A • Removable interior with single, captive mounting screw on 100–225 A (indoor only) • Main lugs load centers have equipment grounding bar kits included (not factory-installed)	
Mains	
• Factory-installed main circuit breaker • Main neutral terminal located next to the phase terminals on 125–225 A main circuit breaker devices • Top or bottom feed • Fully convertible from main circuit breaker to main lugs (100–225 A)	
Covers	
• Flush and surface covers sold separately • Flush covers have spring-loaded interior trim for automatic flush adjustment • Easy to open door latch	Cover included
Branch Neutral Termination	
• Suitable for copper or aluminum wire • Terminals suitable for #14–#4 AWG copper or one #12–#4 AWG aluminum wire • Positioned on both sides of the mains compartment • Slot / square drive wire binding screws • Three (3) #14–1/0 AWG copper or #12–#6 AWG aluminum terminations standard on 12–42 circuits, 100–225 A load centers	
Main Circuit Breaker Kits	
• Field-installable in main circuit breaker load centers • 100–225 A main circuit breakers are series rated up to 100,000 AIR (see table below) with 10,000 AIR branch circuit breakers in 30 circuit or larger main circuit breaker load centers with optional QJL main circuit breaker • Electrical accessories are not available on QDL, QGL, or QJL circuit breakers • 30–42 circuit, 125–225 A main circuit breaker load centers include integral QDL circuit breakers. Optional QGL and QJL circuit breakers available as shown:	

Amperage	25,000 AIR	65,000 AIR Main Circuit Breaker	100,000 AIR
70	QDL32070	QGL32070	QJL32070
80	QDL32080	QGL32080	QJL32080
90	QDL32090	QGL32090	QJL32090
100	QDL32100	QGL32100	QJL32100
110	QDL32110	QGL32110	QJL32110
125	QDL32125	QGL32125	QJL32125
150	QDL32150	QGL32150	QJL32150
175	QDL32175	QGL32175	QJL32175
200	QDL32200	QGL32200	QJL32200
225	QDL32225	QGL32225	QJL32225

(6) When these 3–pole circuit breakers are used as the main circuit breaker of a three-phase load center, the maximum AIR rating is 65,000 at 240 Vac and 100,000 at 208 Vac.

QO Plug-on Neutral Load Centers

Indoor, QO Convertible Mains (125–225 A), 1Ø – Main Lugs



QO120L125PG

QO130L200PG

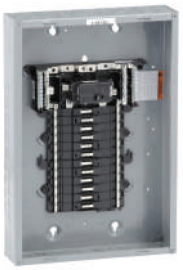
QO154L225PG

Table 6 - Plug-on Neutral Load Center Main Lugs, Convertible Mains (1Ø3W–120/240 Vac Indoor—UL Listed)

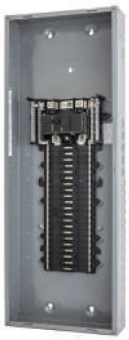
Mains Rating	Spaces	Max. Single Pole Circuits (7)	Max. Tandem Circuit Breakers	Load Center box and Interior	Load Center Covers (Order Separately)		Al	Cu	Equipment Ground Bar Kit (Factory-Included)	Box No. (8)
					Flush/Surface	Mono-Flat				
Convertible Mains — Factory-installed Main Circuit Breaker, 65 kA Short Circuit Current Rating — Copper Bus QOM1 Main Frame Size — Convertible to Main Circuit Breaker										
125 A	12	24	12	QO112L125PH	QOC16UF (9), QOC16US	—	6–2/0		PKGTALP1	6
	16	24	8	QO116L125PG	QOC24UF (9), QOC24US	—				7
	20	24	4	QO120L125PG	QOC20U100F (9)' QOC20U100S	—				6
	24	34	10	QO124L125PG	QOC24UF (9), QOC24US	—				7
	30	34	4	QO130L125PG	QOC30U125C	—				9
	32	38	6	QO132L125PG	QOC32UF (9)	—				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 (9), QOC30US	QOCMF30UC (9)	4–300	4–250	PKGTALP1	9
	24	36		QO124L200PG	QOC30UF (9), QOC30US	QOCMF30UC (9)				
	30	40	10	QO130L200PG	QOC30UF (9), QOC30US	QOCMF30UC (9)				
	40	60	20	QO140L200PG	QOC40UF (9), QOC40US	—			PKGTALP2	10
225 A	42	52	10	QO142L225PG	QOC42UF (9), QOC42US	QOCMF42UC (9)	4–300			11
	54	72	18	QO154L225PG	QOC54UF (9)	QOCMF54UC (9)				12

(7) Maximum single pole branch circuits utilizing QO and/or QOT circuit breaker.
(8) See Enclosure and Knockout Information, page 67.
(9) Available in gray and white colors. For white equivalencies add the “W” suffix to the reference or see QO Load Center Covers, page 43.

Indoor, QO Convertible Mains (100–225 A), 1Ø – Main Circuit Breaker



QO124M100P



QO142M200P

Table 7 - Plug-on Neutral Load Center Main Breaker, Convertible Mains (1Ø3W–120/240 Vac Indoor—UL Listed)

Mains Rating	Spaces	Max. Single Pole Circuits	Max. Tandem Circuit Breakers	Load Center box and Interior	Load Center Covers (Order Separately)		Al	Cu	Equipment Ground Bar Kit (Factory-Included)	Box No. (10)
					Flush/Surface	Mono-Flat				
Convertible Mains — Factory-installed Main Lugs — 22 kA Short Circuit Current Rating Convertible to Main Lugs or Lower Amperage Main Circuit Breaker										
100 A	12	24	12	QO112M100P	QOC12UF, QOC12US	—	6–2/0	6–1	PK9GTA	5
	16		8	QO116M100P	QOC20U100F (11), QOC200U100S	—				6
	20		4	QO120M100P	QOC20U100F (11), QOC200U100S	—				
	24	34	10	QO124M100P	QOC24UF (11), QOC24US	—	6–2/0		PK15GTA	7
	32	38	6	QO132M100P	QOC32UF (11)	—				8
125 A	24	34	10	QO124M125P	QOC24UF (11), QOC24US	—				7
	32	38	6	QO132M125P	QOC32UF (11)	—				8
Convertible Mains — Factory-Installed Main Lugs — 22 kA Short Circuit Current Rating Convertible to Main Lugs (see below) or Lower Amperage Main Circuit Breaker QOM2 Main Circuit Breaker Frame Size — Copper Bus										
150 A	20	30	10	QO120M150P	QOC30UF (11), QOC30US	QOCMF30UC (11)	4–300	4–250	PK15GTA	9
	24	36	12	QO124M150P	QOC30UF (11), QOC30US					
	30	40	10	QO130M150P	QOC30UF (11), QOC30US				PK18GTA	
	32	40	8	QO132M150P	QOC40UF (11), QOC40US	—				10

(10) See QO™/Homeline™ Enclosure Dimensions and Knockout Information, page 67.
(11) Available in gray and white colors. For white equivalencies add the “W” suffix to the reference or see QO Load Center Covers, page 43.

Table 7 - Plug-on Neutral Load Center Main Breaker, Convertible Mains(1Ø3W–120/240 Vac Indoor—UL Listed) (Continued)

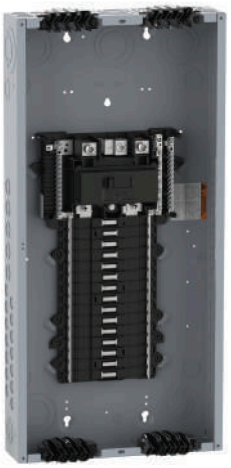
Mains Rating	Spaces	Max. Single Pole Circuits	Max. Tandem Circuit Breakers	Load Center box and Interior	Load Center Covers (Order Separately)		Al	Cu	Equipment Ground Bar Kit (Factory-Included)	Box No. (12)
					Flush/Surface	Mono-Flat				
200 A	20	30	10	QO120M200P	QOC30UF (13), QOC30US	QOCMF30UC (13)	4–300	4–250	PK15GTA	9
	24	36	12	QO124M200P	QOC30UF (13), QOC30US					
	30	40	10	QO130M200P	QOC30UF (13), QOC30US				PK18GTA	9
	40	60	20	QO140M200P	QOC40UF (13), QOC40US	—			PK23GTA	10
	42	52	10	QO142M200P	QOC42UF (13), QOC42US	QOCMF42UC (13)	4–300			11
	54	72	18	QO154M200P	QOC54UF (13)	QOCMF54UC (13)	4–300			12
	60	72	12	QO160M200PC (14)	QOC60UF/S Included	—	4–300		PK27GTA	24
225 A	40	60	20	QO140M225P	QOC42UF (13), QOC42US	QOCMF42UC (13)	4–300		PK23GTA	11
	42	52	10	QO142M225P						

NOTE: 22 k AIR main circuit breaker UL Listed for use ahead of QO, QOT (20 A MAX. NON-CTL) and QO-PL 10 k AIR branch circuit breakers to permit their application on systems with up to 22 kA available fault current.

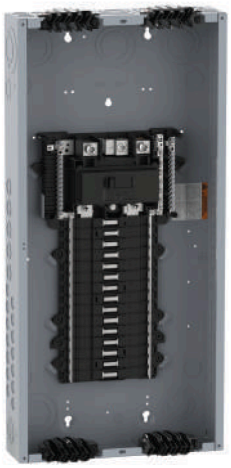
(12) See QO™/Homeline™ Enclosure Dimensions and Knockout Information, page 67.
(13) Available in gray and white colors. For white equivalencies add the “W” suffix to the reference or see QO Load Center Covers, page 43.
(14) For Certification to IEC 60439–1 contact the local Square D sales office; otherwise panels are NOT CE marked. (For use on 415Y/240 Vac 3–phase 4–wire, 3,000 Short Circuit Current when QOXD... branch circuit breakers are used and 10,000 Short Circuit Current Rating when QO... VS branch circuit breakers are used).

Indoor, QO Convertible Mains (125–225 A) with Qwik-Grip™, 1Ø

QO124L125PQG



QO130M200PQG



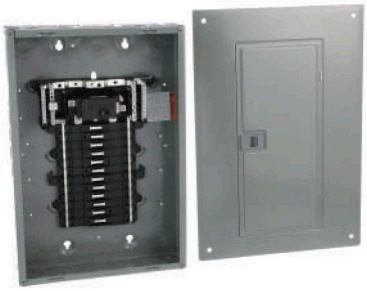
QO142M200PQ

Table 8 - QO Plug-On Neutral Load Centers with Qwik-Grip (1Ø3W-120/240 Vac Indoor—UL Listed)

Mains Rating	Spaces	Max. Single Pole Circuits	Max. Tandem Circuit Breakers	Load Center box and Interior	Load Center Covers (Order Separately)		Al	Cu	Equipment Ground Bar Kit (Factory-Included)	Box No.
					Flush/Surface	Mono-Flat				
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 (16), QOC24US	—	6–2/0		PKGTALP1 Included	7Q
	30	34	4	QO130L125PQG	QOC30U125C	—				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 (16), QOC30US	QOCMF30UC (16)	4–250		PKGTALP1 Included	9Q
225 A	42	52	10	QO142L225PQG	QOC42UF (16), QOC42US	—	4–300		PKGTALP2 Included	11Q
	54	72	18	QO154L225PQG	QOC54UF (16)	QOCMF54UC (16)				12Q
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	QO130M200PQ	QOC30UF (16), QOC30US	QOCMF30UC (16)	4–250		PK18GTA (Order separately)	9Q
	42	52	10	QO142M200PQ	QOC42UF (16), QOC42US	—	4–300		PK23GTA (Order separately)	11Q
	54	72	18	QO154M200PQ	QOC54UF (16)	QOCMF54UC (16)				12Q

(15) See QO/Homeline Enclosure Dimensions and Knockout Information, page 67.
(16) Available in gray and white colors. For white equivalencies add the “W” suffix to the reference or see QO Load Center Covers, page 43

Indoor, QO Convertible Mains (125–225 A) with Included Cover 1Ø



QO124M100PC

QO130M200PC

Table 9 - QO Load Centers with Included Cover (1Ø3W–120/240 Vac Indoor—UL Listed)

Mains Rating	Short Circuit Current Rating	Spaces	Max. Single Pole Circuits	Max. Tandem Circuit Break-ers	Load Center Box, Interior, and Cover	Al	Cu	Equipment Ground Bar Kit (Order Separately)	Box No.
125 A	65 kA	12	24	12	QO112L125PGC	6–2/0		PKGTALP1 Included	6
		20		4	QO120L125PGC				
		24	34	10	QO124L125PGC				7
Convertible Mains — Factory-Installed Main Lugs (18)									
200 A	65 kA	30	40	10	QO130L200PGC	4–300		PKGTALP1 Included	9
225 A		42	52	10	QO142L225PGC			PKGTALP2 Included	11
		54	72	18	QO154L225PGC				12
Convertible Mains — Factory-Installed Main Circuit Breaker — QOM1 Main Frame Size — Convertible to Main Lugs (19)									
100 A	22 kA	12	24	12	QO112M100PC	6–2/0	6–1	PK9GTA	5
		16		8	QO116M100PC			PK12GTA	6
		20		4	QO120M100PC			PK15GTA	
		24	34	10	QO124M100PC	6–2/0		PK15GTA, LK100AN	7
Convertible Mains — Factory-Installed Main Circuit Breaker — QOM2 Main Frame Size —10 Convertible to Main Lug (19)									
150 A	22 kA	30	40	10	QO130M150PC	4–300	4–250	PK18GTA, LK100AN, PK23GTA, LK100AN	9
		42	52		QO142M150PC	4–300		PK18GTA, LK100AN	11
200 A	22 kA	30	40	10	QO130M200PC	4–300	4–250	PK23GTA	9
		40	60	20	QO140M200PC				10
		42	52	10	QO142M200PC	4–300		PK23GTA, LK100AN	11
		54	72	18	QO154M200PC				12

(17) Maximum single pole branch circuits utilizing QO and/or QOT (20 A MAX. NON-CTL) circuit breakers.
(18) UL Listed 5000 A short circuit current rating for corner grounded Delta systems (Use QO-H circuit breakers only).
(19) 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.

Rainproof, QO Convertible Mains (100–225 A), 1Ø – Main Lugs and Main Breaker

Table 10 - Plug-on Neutral Load Center Main Lugs, Convertible Mains (1Ø3W–120/240 Vac Rainproof – UL Listed)

Mains Rating	Spaces	Max. Single Pole Circuits	Max. Tandem Circuit Breakers	Load Center box and Interior	Al	Cu	Equipment Ground Bar Kit (Factory-Included)	Box No.
Convertible Mains — Factory-Installed Main Lugs – 65 kA Short Circuit Current Rating (22), (23), (24) **QOM1 Main Circuit Breaker Frame Size, Convertible to Main Circuit Breaker – Equipment Ground Bar Included**								
125 A	12	24	12	QO112L125PGRB	6–2/0		PKGTALP1	3R
	16		8	QO116L125PGRB				4R
	24	34	10	QO124L125PGRB				
Convertible Mains — Factory-Installed Main Lugs – 65 kA Short Circuit Current Rating (23), (24) **QOM2 Main Circuit Breaker Frame Size, Convertible to Main Circuit Breaker – Equipment Ground Bar Included**								
200 A	12	24	12	QO112L200PGRB	4–300	4–250	PKGTALP1	5R
	30	40	10	QO130L200PGRB				6R
	40	60	20	QO140L200PGRB			PKGTAL2	7R
225 A	42	52	10	QO142L225PGRB	4–300		PKGTALP2	8R

Table 11 - Plug-on Neutral Load Center Main Breaker, Convertible Mains (1Ø3W–120/240 Vac Rainproof – UL Listed)

Mains Rating	Spaces	Max. Single Pole Circuits	Max. Tandem Circuit Breakers	Load Center Box and Interior	Al	Cu	Equipment Ground Bar Kit (Order Separately)	Box No.
Convertible Mains – Factory-Installed Main Lugs – 22 kA Short Circuit Current Rating Convertible to Main Lugs (25) **QOM1 Main Circuit Breaker Frame Size – Copper Bus**								
100 A	12	24	12	QO112M100PRB	6–2/0		PK9GTA	3R
	16		8	QO116M100PRB				4R
	20		4	QO120M100PRB				
	24	34	10	QO124M100PRB			PK15GTA	4R
125 A	24	34	10	QO124M125PRB				
Convertible Mains – Factory-Installed Main Lugs – 22 kA Short Circuit Rating Convertible to Main Lugs (26) **QOM2 Main Circuit Breaker Frame Size – Copper Bus**								
150 A	20	30	10	QO120M150PRB	4–300	4–250	PK15GTA	5R
	30	40		QO130M150PRB				6R
200 A	20	30	10	QO120M200PRB				5R
	30	40		QO130M200PRB				6R
	40	60	20	QO140M200PRB			PK23GTA	7R
	42	52	10	QO142M200PRB	4–300		PK18GTA	8R
225 A	42	52	10	QO142M225PRB	4–300			

(20) Maximum single pole branch circuits utilizing QO and/or QOT circuit breakers.
(21) See QO/Homeline Enclosure Dimensions and Knockout Information, page 67.
(22) UL Listed 5000 A short circuit current rating for corner grounded Delta systems. Use QO-H circuit breakers only.
(23) UL short circuit current rating depends on lowest interrupting rating of circuit breaker installed.
(24) Side hinge door device; allow 1–1/4 in. on left side for door to open.
(25) 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.
(26) 22 k AIR main circuit breaker UL Listed for use ahead of QO, QOT, QO-GFI, QO-AFI, QO-EPD and QOPL 10k AIR branch circuit breakers to permit their application on systems up to 22 kA.

Backup Power Solutions, (30–200 A), 1Ø

QO48M60DSGP

QO1DM10050TRBR

QO1DM10030TRBR

Table 12 - Backup Power Solutions (1Ø3W–120/240 Vac Backup Power — UL Listed)

Mains Rating	Spaces	Max. Single Pole Circuits	Max. Tandem Circuit Breakers	Load Center Box and Interior	Equipment Ground Bar Kit (Order Separately)	Al	Cu	Box No.
Generator Panels — Manual Transfer for Sub-Feed Applications NEMA 1 (Indoor) Factory-Installed Main Circuit Breakers with Mechanical Interlock — 10 kA Short Circuit Current Rating								
30 A	4	8	4	QO48M30DSGP	PK7GTA	8–1		4
60 A				QO48M60DSGP				
Generator Panels — Manual Transfer with Generator Power Inlet Plug for Sub-Feed Application NEMA 3R (Outdoor) Factory-Installed Main Circuit Breakers with Mechanical Interlock — 10 kA Short Circuit Current Rating								
100 A	4	8	4	QO1DM10020TRBR	Factory-Installed	—	8–2	17R
				QO1DM10030TRBR		—		
				QO1DM10050TRBR		—		

QO Riser Panels (125–200 A), 1Ø

Table 13 - QO Riser Panels (1Ø3W–120/240 Vac Special Applications — UL Listed

Mains Rating	Spaces	Max. 1P Circuits (29)	Max. Tandem Circuit Breakers	Load Center Box and Interior	Indoor Cover		Equipment Ground Bar Kit (Order Separately)	Main Wire Size AWG/kcmil		Box No. (30)
					Flush	Mono-Flat		Al	Cu	
Convertible Mains — Factory-Installed Main Lugs, 65 kA Short Circuit Current Rating Convertible to QOM1 22 kA Short Circuit Current Rating Main Circuit Breaker when used with QOC cover below — Copper Bus										
125 A	12	24	12	QO112L125PWG	QOC20UFWG (31)	NQC20FWG (31)	PK15GTA	6–2/0		14
	20		4	QO120L125PWG						
Convertible Mains — Factory-Installed Main Lugs, 65 kA Short Circuit Current Rating Convertible to QOM2 22 kA Short Circuit Current Rating Main Circuit Breaker (See Indoor, QO Convertible Mains (125–225 A), 1Ø – Main Lugs, page 19) when used with QOC cover below — Copper Bus										
200 A	30	40	10	QO130L200PWG	QOC30UFWG (31)	NQC30FWG (31)	PK23GTA	4–300	4–250	23

(27) Maximum single pole branch circuits utilizing QO and/or QOT (20 A MAX. NON-CTL.) circuit breakers.
(28) See QO/Homeline Enclosure Dimensions and Knockout Information, page 67.
(29) Maximum single pole branch circuits utilizing QO and/or QOT circuit breakers.
(30) See Enclosure and Knockout Information, page 67.
(31) Available in gray and white colors. For white equivalencies add the “W” suffix to the reference or see QO Load Center Covers, page 43.

Table 13 - QO Riser Panels (1Ø3W–120/240 Vac Special Applications — UL Listed (Continued)

Mains Rating	Spaces	Max. 1P Circuits (32)	Max. Tandem Circuit Breakers	Load Center Box and Interior	Indoor Cover		Equipment Ground Bar Kit (Order Separately)	Main Wire Size AWG/kcmil		Box No. (33)
					Flush	Mono-Flat		Al	Cu	
Convertible Mains — Factory-Installed Main Circuit Breaker , 22 kA Short Circuit Current Rating Convertible to Main Lugs (See Indoor, QO Convertible Mains (125–225 A), 1Ø – Main Lugs, page 19) or Lower Amperage QOM2 Main Circuit Breaker (See Indoor, QO Convertible Mains (100–225 A), 1Ø – Main Circuit Breaker, page 20) when used with QOC cover below — Copper Bus										
200 A	24	36	12	QO124M200PWG125 (34)	QOC30UFWG (35)	NQC30FWG (35)	PK23GTA	4–300	4–250	23

Panelboard-style Covers for Riser Panels

Mono-Flat™ Front available for riser panels as an alternative standard load center cover listed above. Provides a low-profile, aesthetically pleasing solution for high-traffic areas in upscale multi-family applications. Deadfront included. Lock kit not provided. Cover NQC30FWG CANNOT be used when panel has been converted to a main circuit breaker panel. (36)

Mains Rating of Load Center	Cat. No.
125 A	NQC20FWG
200 A	NQC30FWG

Table 14 - Auxiliary Gutter

Cat. No.	Cover	Conduit Riser Size	Width	Height	Depth
UL Listed for use with standard 1Ø and 3Ø load centers for riser applications (37).					
SDAG26	Flush	1–3/4, 2, 2–1/2 (38) or 3	13.5	26.12	3.75

Table 15 - Tap Kits for Use with Auxiliary Gutter

Cat. No.	Use with Auxiliary Guitar Cat. No.	Riser Wire		Tap Off Wire	
		Lug Type	Al/Cu Wire Size	Lug Type	Al/Cu Wire Size
SDGT30020	SDAG26	Mechanical (Included)	(2) 6 AWG-300 kcmil	Mechanical (Included)	(1) 6–2/0 AWG
SDGT300300					(2) 6 AWG-300 kcmil
SDGT300C10C		Anderson VCEL030516H1 (Not Included)	(2) 4 AWG-300 kcmil	Anderson VCEL02114S1 (Not Included)	(1) 8–1/0 AWG
SDGT300C300C				Anderson VCEL030516H1 (Not Included)	(2) 4 AWG-300 kcmil
QOGL20 Grounding Terminals		Mechanical (Included)	(2) 6–2/0 AWGl	—	—

(32) Maximum single pole branch circuits utilizing QO and/or QOT circuit breakers.
(33) See Enclosure and Knockout Information, page 67.
(34) Comes with 125 A main circuit breaker factory installed.
(35) Available in gray and white colors. For white equivalencies add the “W” suffix to the reference or see QO Load Center Covers, page 43.
(36) Order catalog number PK4FL for field-installed lock kit.
(37) One tap kit required for each riser wire.
(38) When used with B300 bolt-on hubs.

QO Standard Load Centers

Indoor, QO Fixed Mains (30–125 A), 1Ø – Main Lugs and Main Breaker

QO Standard Load Center Main Lugs and Main Breaker, Fixed Mains
(1Ø3W–120/240 Vac Special Applications – UL Listed)

Table 16 - Low Amperage Fixed Main Lugs Indoor Load Centers (accepts only QO Plug-on Circuit Breakers – not compatible with QO Plug-on Neutral Circuit Breakers)

Mains Rating	Spaces	Max. 1P Circuit (39)	Max. Tandem Circuit Breakers	Load Center Box and Interior	Indoor Cover with Door		Main Wire Size AWG/kcmil		Equipment Ground Bar Kit (Order Separately)	Box No.
					Flush	Surface	Al	Cu		
Fixed mains – Factory-Installed Main Lugs – 10 kA Short Circuit Current Rating (40)										
30 A	2	2	0	QO20L30S (41), (42)	Cover Included — Without Door		12–10	14–10	PK3GTA1	1
70 A		4	2	QO24L70F/S (43), (44)			12–10	14–10	PK4GTA	2
100 A	6	12	6	QO612L100F/S (43), (45)			8–1/0		PK7GTA	4
				QO612L100DF/S (43), (45)	Cover Included — With Door					
	8	16	8	QO816L100F/S (43), (45)	Cover Included — Without Door					
				QO816LL100DF/S (43), (45)	Cover Included — With Door					
	6	12	6	QO612L100DFCU/SCU (43), (45), (46)						
	8	16	8	QO816L100DFCU/SCU (43), (45), (46)						
125 A	4	8	4	QO148L125GF/S (43), (47)	Cover Included — Without Door		12–10	14–2/0	PK7GTA (48)	21

Table 17 - Low Amperage Fixed Mains Indoor Load Centers with Factory Installed Ground Bar (Accepts only QO Plug-On Circuit Breaker – not compatible with QO Plug-on Neutral Circuit Breakers)

Mains Rating	Short Circuit Current Rating	Spaces	Max. 1P Circuits	Max. Tandem Circuit Breakers	Load Center, Box, Interior, and Cover	Equipment Ground Bar Kit (Order Separately)	Main Wire Size AWG/kcmil		Box No.
							Al	Cu	
Manufactured Housing: 1Ø2W 120 Vac — Main Lugs Only — CSA Certified									
30 A (42)	10 kA	2	2	0	QO2L30TTS (41)	Factory-Installed	12–10	14–10	1
50 A			4	2	QO24L50TTS (44)		—	14–6	2
1Ø2W 120 Vac — Main Circuit Breaker — CSA Certified									
30 A	10 kA	3	5	2	QO35FM30TTF/S	Factory-Installed	(49)		3
1Ø2W 120 Vac — Main Circuit Breaker — CSA Certified									
70 A	10 kA	2	4	2	QO24L70TS (44)	Factory-Installed	12–3	14–4	2

(39) Maximum single pole branch circuits utilizing QO and/or QOT circuit breaker.
(40) UL short circuit current rating depends on lowest interrupting rating of circuit breaker installed.
(41) Will not accept QO-EPD or Qwik-Gard QO-GFI or QO-AFI circuit breakers.
(42) Mains rated 25 A when Al wire is used.
(43) Order F for flush device or S for surface device.
(44) Use 10 AWG maximum size wire for GFI and AFI circuit breakers.
(45) 70 A Max. branch circuit breaker and 100 A max. back fed main circuit breaker.
(46) CU indicates copper bus.
(47) Copper bus.
(48) Factory-included
(49) Main circuit breaker is field-installed standard QO single pole circuit breaker.

Indoor, QO Fixed Mains (300–400 A), 1Ø – Main Lugs and Main Breaker

QO Standard Load Center Main Lugs and Main Breaker, Fixed Mains
(1Ø3W–120/240 Vac Special Applications – UL Listed)

MH50

QONQ30LS400

NC50NQVS

Table 18 - High Amperage Fixed Main Breaker and main Lugs Indoor Load Centers (Accepts Only QO Plug-On Circuit Breakers – Not compatible with QO Plug-on Neutral Circuit Breakers)

Mains Rating	Spaces	Max. 1P Circuits	Max. Tandem Circuit Breakers	Load Center Box and Interior	Indoor Cover with Door (Order Separately)		Main Wire Size AWG/kcmil		Equipment Ground Bar Kit (Order Separately)	Box No.
					Flush	Surface	Al	Cu		
Fixed Mains – Factory-Installed Main Circuit Breaker – 65 kA Short Circuit Current Rating										
300 A	42	42	0	QONQ42MS300 (Int) (50) MH62 (Box) (51)	NC62NQVF	NC62NQVS	(1) 4–500 or (2) 4–3/0		PK27GTA (52) or PK15GTA6	16
400 A				QONQ42MS400 (Int) (50) MH62 (Box) (51)						
Fixed Mains – Factory-Installed Main Lugs – 65 kA Short Circuit Current Rating (53), (54)										
400 A	30	30	0	QONQ30LS400 (Int) (50) MH50 (Box) (51)	NC50NQVF	NC50NQVS	(1) 1/0–750 or (2) 1/0–300		PK27GTA (52) or PK15GTA6	15
	42	42		QONQ42LS400 (Int) (50) MH50 (Box) (51)						

(50) Interior only, order box separately.
(51) PE1A Discount Schedule.
(52) PK27GTA includes a 6–2/0 AWG Al/Cu lug.
(53) UL short circuit current rating depends on lowest interrupting rating of circuit breaker installed.
(54) UL Listed 5000 A short circuit current rating for corner grounded Delta systems. Use QO-H circuit breakers only.

Rainproof, QO Fixed and Convert. Mains (60–200 A), 1Ø – Main Lugs and Main Breaker

QO24L60NRNM

QO816L100RB

Table 19 - QO Standard Load Center Main Lugs, Fixed Mains (1Ø3W–120/240 Vac Rainproof — Ul Listed

Mains Raiting	Spac-es	Max. Single Pole Circuits (55)	Max. tandem Circuit Breakers	Load Center Box and Interior	Main Wire Size AWG / kcmil		Equipment Ground Bar Kit (Order Separately)	Box No.
					Al	Cu		
Non-Metallic Enclosure Fixed Mains — Factory-Installed Main Lugs — 10 kA Short Circuit Current Rating								
60 A	2	4	2	QO24L60NRNM	12–4	14–4	Factory-Installed	1NM
Metallic Enclosure Fixed Mains — Factory-Installed Main Lugs — 10 kA Short Circuit Current Rating								
40 A	2	2	0	QO2L40RB (56)	12–6	14–6	PK3GTA1	1R
70 A		4	2	QO24L70RB (56)	12–3	14–4	PK4GTA	
100 A	6	12	6	QO612L100RB (57)	8–1/0		PK7GTA	2R
				QO612L100TRB (57)			Factory-installed	
	8	16	8	QO816L100RB (57)			PK7GTA	
	6	12	6	QO612L100RBCU (57), (58)				
	8	16	8	QO816L100RBCU (57), (58)				
125 A	4	8	4	QO148L125GRB (58)	12–2/0	14–2/0	PK7GTA Factory-Included	15R

Table 20 - QO Standard Load Center Main Breaker, Convertible Mains (1Ø3W–120/240 Vac Rainproof — UL Listed

Mains Rating	Spaces	Max. Single Pole Circuits (55)	Max. tandem Circuit Breakers	Load Center Box and Interior	Main Wire Size AWG / kcmil		Equipment Ground Bar Kit (Order Separately)	Box No. (59)
					Al	Cu		
Convertible Mains — Factory-Installed Main Circuit Breaker with Feed-thru Lugs, 22 kA Short Circuit Current Rating Convertible to Main Lugs or Lower Amperage Main Circuit Breaker (60), (61) QOM1 or QOM2 Main Circuit Breaker Frame Size — Copper Bus								
125 A	6	12	6	QO1612M125FTRB (62)	4–2/0		PK12GTA	3R
150 A	8	16	8		4–250		PK15GTAL	4R
200 A	8	16	8	QO1816M200FTRB (62)				

(55) Maximum single pole branch circuits utilizing QO and/or QOT circuit breakers.
(56) Use 10 AWG maximum size wire for GFI and AFI circuit breaker.
(57) 70 A Max. branch circuit breaker and 70 A max. back fed main circuit breaker.
(58) Copper bus.
(59) See Enclosure and Knockout Information, page 67.
(60) Side hinge door device; allow 1–1/4 in. on left side for door to open.
(61) 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
(62) QO1612M125FTRB provided with QOM1 frame main circuit breaker. QO1816M150FTRB and QO1816M200FTRB provided with QOM2 frame main circuit breaker.

Indoor and Rainproof, QO Fixed and Convertible Mains (60–225 A), 3Ø – Main Lugs and Main Breaker

Table 21 - QO Standard Load Center Main Lugs and Main Breaker (3Ø4W–208Y/120 Vac, 3Ø4W–240/120 Vac Delta, and 3Ø3W–240 Vac Delta–Indoor and Rainproof–UL Listed)

	Mains Rating	Max. Number of 1P QO circuit breakers	Load Center Box and Interior	Indoor Cover with Door (Order Separately)		Main Wire Size AQG / kcmil		Equipment Ground Bar Kit (Order Separately)	Box No. (63)
			Cat. No.	Flush	Surface	Al	Cu		
Indoor	**Fixed Mains – Factory-Installed Main Lugs – Copper Bus – 65 kA Short Circuit Current Rating** (64)								
	60 A	3	QO403L60NF/S	Cover Included With Load Center (No Door)		12–6	14–6	PK4GTA	13
	125 A	12	QO312L125G (65)	QOC16UF	QOC16US	6–2/0	6–2/0	Factory-Included (66)	6
		20	QO320L125G (65)	QOC24UF	QOC24US				7
		24	QO324L125G (65)	QOC24UF	QOC24US				
	200 A	18	QO318L200G (65)	QOC30UF	QOC30US	4–250	4–250		9
		30	QO330L200G (65)	QOC30UF	QOC30US				
	225 A	42	QO342L225G (65)	QOC42UF	QOC42US	4–300	4–300		11
	Convertible Mains – Factory-Installed QDL Main Circuit Breaker – Copper Bus – 25 kA Short Circuit Current Rating (67)								
	100 A	27	QO327M100 (68)	QOC30UF	QOC30US	6–1	6–1	PK15GTA	9
	125 A	30	QO330MQ125 (69), (70)	QOC342MQF	QOC342MQS	4–250	4–250	PK18GTA	12
	150 A	30	QO330MQ150 (69), (70)	QOC342MQF	QOC342MQS				12
		42	QO342MQ150 (69), (70)	QOC342MQF	QOC342MQS			PK23GTA	
	200 A	30	QO330MQ200 (69), (70)	QOC342MQF	QOC342MQS			PK18GTA	
		42	QO34MQ200 (69), (70)	QOC342MQF	QOC342MQS			PK23GTA	
	225 A	42	QO342MQ225 (69), (70)	QOC342MQF	QOC342MQS				

(63) See Enclosure and Knockout Information, page 67.
(64) UL short circuit current rating depends on lowest interrupting of circuit breaker installed.
(65) 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).
(66) PKGTALP1
(67) 25 kA short circuit current rating SSCR maximum with Square D Type QDL main circuit breaker, or 22 kA SCCR maximum with back-fed Type QO-VH main circuit breaker, feeding QO 10 k AIR branch cirucuit.
(68) Includes factory-installed back fed QO3100VH main circuit breaker.
(69) 65 kA Short Circuit Current Rating maximum with field-installed Square D type QGL 65 k AIR minimum main circuit breaker feeding QO and Q1 10 k AIR minimum branch circuit breakers.
(70) 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).

Table 21 - QO Standard Load Center Main Lugs and Main Breaker (3Ø4W–208Y/120 Vac, 3Ø4W–240/120 Vac Delta, and 3Ø3W–240 Vac Delta–Indoor and Rainproof–UL Listed) (Continued)

	Mains Rating	Max. Number of 1P QO circuit breakers	Load Center Box and Interior	Indoor Cover with Door (Order Separately)		Main Wire Size AQG / kcmil		Equipment Ground Bar Kit (Order Separately)	Box No. (71)
			Cat. No.	Flush	Surface	Al	Cu		
Rainproof	**Fixed Mains – Factory-Installed Main Lugs – Copper Bus – 65 kA Short Circuit Current Rating (72), (73)**								
	60 A	3	QO403L60NRB	Cover Included		12–6	14–6	PK4GTA	10R
	125 A	12	QO312L125GRB			6–2/0	6–2/0	Factory-Included (74)	3R
		20	QO320L125GRB						4R
	200 A	18	QO318L200GRB			4–250	4–250	Factory-Included (75)	6R
		30	QO330L200GRB						
	225 A	42	QO342L225GRB			4–300	4–300		8R
	Convertible Mains – Factory-Installed QDL Main Circuit Breaker – Copper Bus – 25 kA Short Circuit Current Rating (76), (73)								
	100 A	27	QO327M100RB (77)	Cover Included		4–2/0	4–2/0	PK15GTA	6R
	125 A	30	QO330MQ125RB (78)					PK18GTA	14R
	150 A		QO330MQ150RB (78)			4–250	4–250		
	200 A		QO330MQ200RB (78)						
		42	QO342MQ200RB (78)					PK23GTA	
	225 A		QO342MQ225RB (78)						

(71) See Enclosure and Knockout Information, page 67.
(72) UL short circuit current rating depends on lowest interrupting rating of circuit breaker installed.
(73) Side hinge door device allow 1–1/4 in. on left side for door to open.
(74) PKGTALP1
(75) PKGTALP2
(76) 25 kA short circuit current rating SSCR maximum with Square D Type QDL main circuit breaker, or 22 kA SCCR maximum with back-fed Type QO-VH main circuit breaker feeding QO 19 k AIR branch circuit.
(77) Includes factory-installed back fed QO3100VH main circuit breaker.
(78) 65 kA Short Circuit Current Rating maximum with field-installed Square D type QGL 65 k AIR minimum main circuit breaker feeding QO and Q1 10 k AIR minimum branch circuit breakers.

Mains Kits, 1Ø and 3Ø

QOM2100VH

Table 22 - 1Ø, Field-Installed Main Circuit Breaker Kits

Main Circuit Breaker Rating (79)	Convertible Load Center Mains Rating	22 k AIR (80) Main Circuit Breaker (82)	Lug Wire Size (81) AWG/kcmil
QOM1 Frame Size — Use with Convertible Main Load Centers Only			
50 A	100–125	QOM50VH	12–2/0 Al or Cu
60 A		QOM60VH	
70 A		QOM70VH	
80 A		QOM80VH	
90 A		QOM90VH	
100 A		QOM100VH	
110 A	125	QOM110VH	
125 A		QOM125VH	
QOM2 Frame Size — Use with Convertible Main Load Centers Only			
100 A	150–225	QOM2100VH	4–300 Al or Cu
125 A		QOM2125VH	
150 A		QOM2150VH	
175 A	200–225	QOM2175VH	
200 A		QOM2200VH	
225 A	225	QOM2225VH	

QOL125

Table 23 - 1Ø, Field-Installed Main Lugs Kits

Main Lugs Rating (79)	Use on Convertible Load Center with Mains Rating	Cat. No.	Lug Wire Size (81) AWG/kcmil Al or Cu
125 A	100–125 A	QOL125 (83)	6–2/0
		QOL125VD (83)	6–4/0
225 A	150–225 A	QOL225 (83)	6–300

QGL32080

(79) Do not exceed the load center mains rating.
(80) 22 k AIR main circuit brearker 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.
(81) 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.
(82) Add suffix 1021 for 120, 208, or 240 Vac shunt trip.
(83) 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.

Table 24 - 3Ø, Main Circuit Breakers

Amperage	25 k AIR	65 k AIR	100 k AIR (84)
Field-Installed Alternate Main Circuit Breakers for QO 3Ø Main Circuit Breaker Load Centers rated 70–225 A. Do not exceed the load center main rating.			
70 A	QDL32070	QGL32070	QJL32070
80 A	QDL32080	QGL32080	QJL32080
90 A	QDL32090	QGL32090	QJL32090
100 A	QDL32100	QGL32100	QJL32100
110 A	QDL32110	QGL32110	QJL32110
125 A	QDL32125	QGL32125	QJL32125
150 A	QDL32150	QGL32150	QJL32150
175 A	QDL32175	QGL32175	QJL32175
200 A	QDL32200	QGL32200	QJL32200
225 A	QDL32225	QGL32225	QJL32225

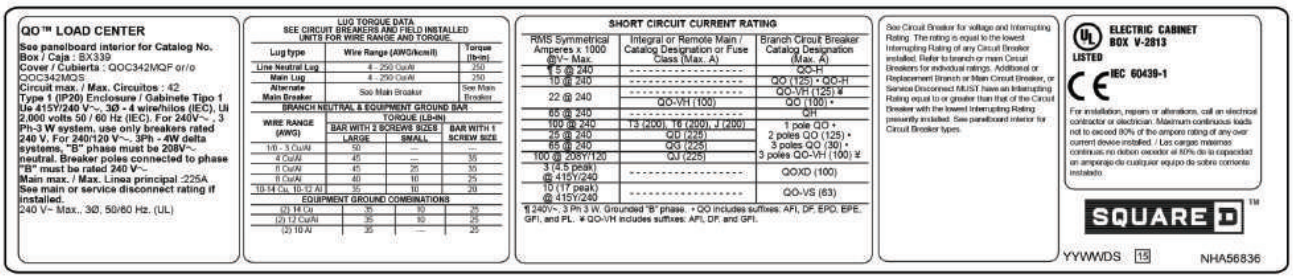
Table 25 - 3Ø, Main Lugs Kits

Main Lugs Amperage Rating	Cat. No.	Lug Wire Size AWG/kcmil
Field-Installed Main Lugs for Convertible 3Ø Main Circuit Breaker Load Centers		
125 A	QOL3125	6–2/0 Cu/Al
225 A	QOL3225	6–300 Cu/Al

QO Label Samples

QO Box Label Sample

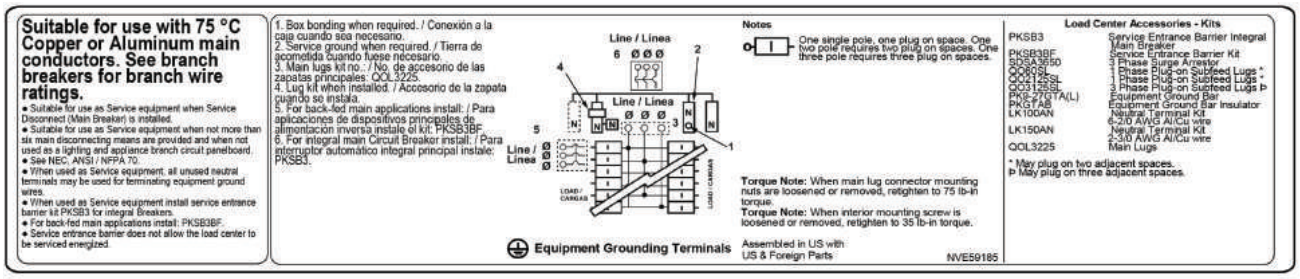
• Number of circuits maximum • Enclosure catalog number • Catalog number of covers; flush or surface • See load center interior for the catalog number • Voltage ratings • Amperage rating	Wire range for lug torque data rating	Short circuit ratings	Short circuit ratings and additional or replacement circuit breakers	• UL manifest • CE if required • NOM if required • Date code • Plant code • Label part number • Manufacturer trademark



(84) When these 3 P circuit breakers are used as the main circuit breaker of a 3Ø load center, the maximum AIR rating is 65 kA at 240 Vac and 100 kA at 208 Vac.

QO Wiring Diagram Sample

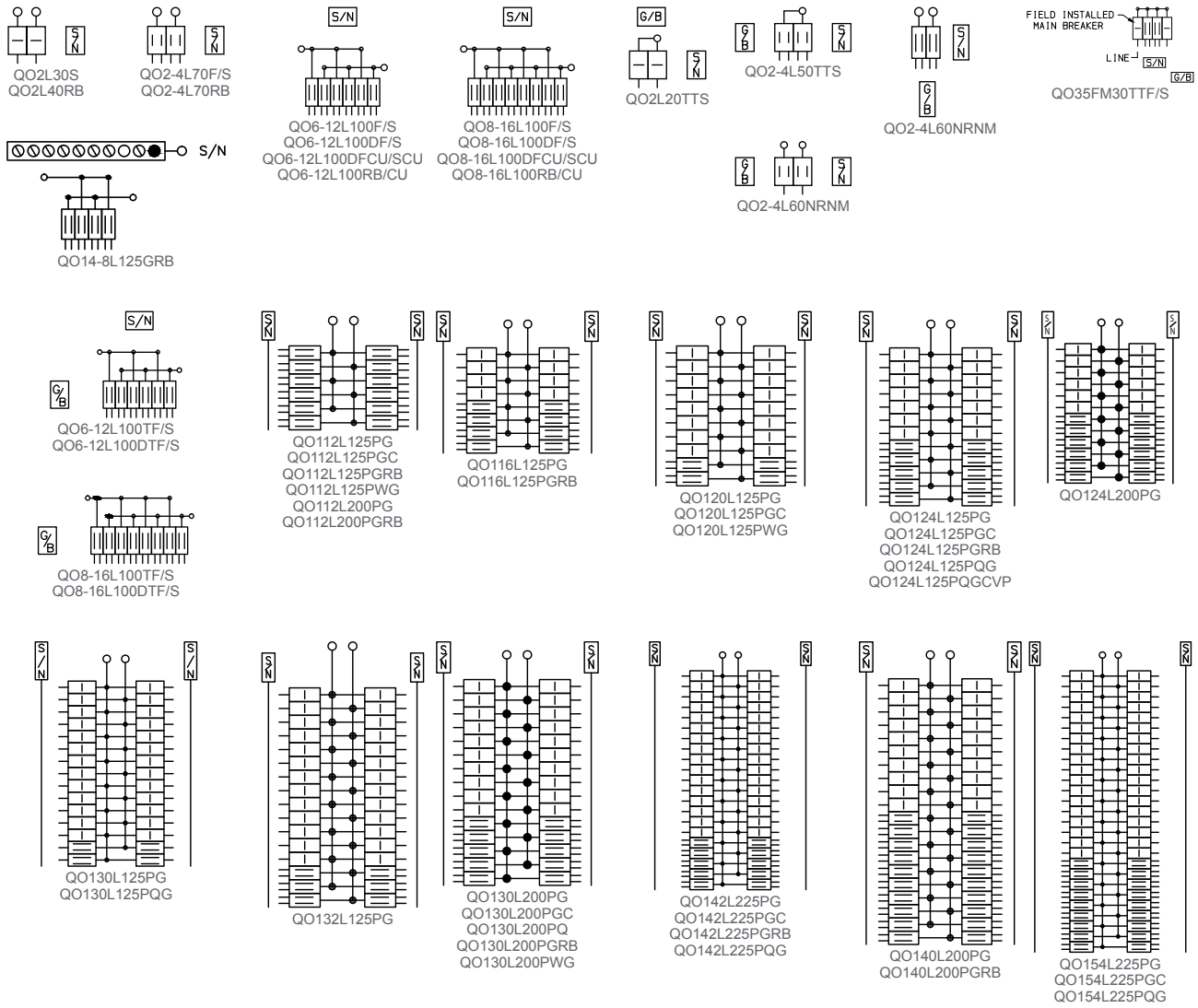
• Service Equipment marking. Unused neutral branch terminal for equipment grounding, service equipment application only. • Installation of back-fed main circuit breaker and required kit	Alternate wiring diagram for main circuit breaker or main lug	Square D circuit breakers that may be used in this load center	Load center accessories



QO Wiring Diagrams

QO Load Centers – Main Lugs

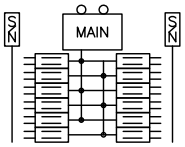
Figure 3 - QO Load Centers 1Ø – Main Lugs



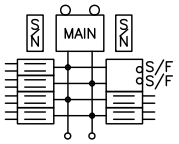
QO Load Centers – Main Circuit Breaker

NOTE: See each catalog number's associated technical drawing online for additional wiring diagram details.

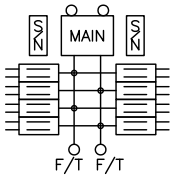
Figure 4 - QO Load Centers 1Ø – Main Circuit Breaker



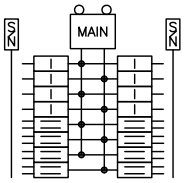
QO112M100P
QO112M100PC
QO112M100PRB



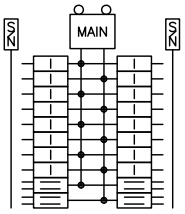
QO1612M125FTRB



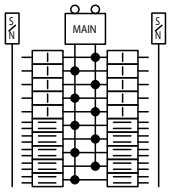
QO1816M150FTRB
QO1816M200FTRB



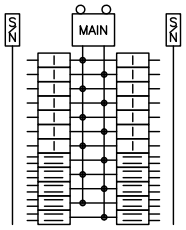
QO116M100P
QO116M100PC
QO116M100PRB



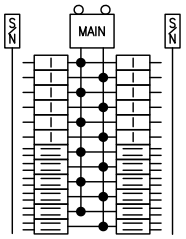
QO120M100P
QO120M100PC
QO120M100PRB



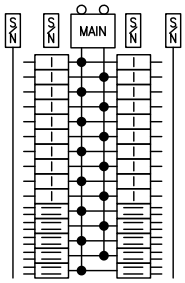
QO120M150P
QO120M200P
QO120M150PRB
QO120M200PRB



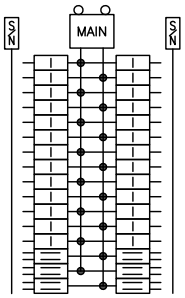
QO124M100P
QO124M125P
QO124M100PC
QO124M100PRB
QO124M125PRB



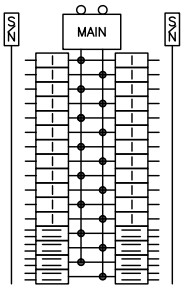
QO124M150P
QO124M200P
QO124M200PWG125



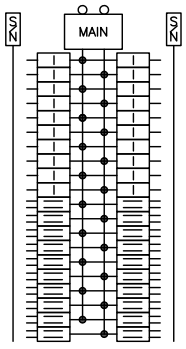
QO130M150P
QO130M150PC
QO130M200P
QO130M200PC
QO130M200PQ
QO130M150PRB
QO130M200PRB



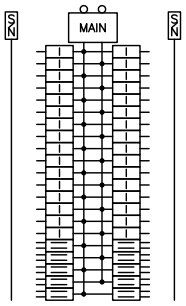
QO132M100P
QO132M125P
QO132M100PCVP



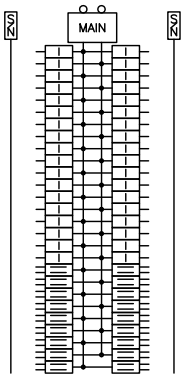
QO132M150P



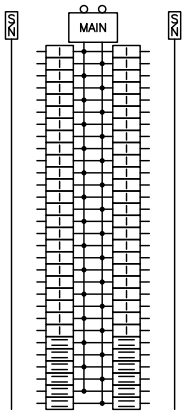
QO140M200P
QO140M200PC
QO140M200PRB



QO142M200P
QO142M200PC
QO142M225P
QO142M200PQ
QO142M200PQCVP
QO142M200PRB



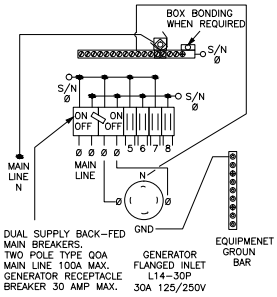
QO154M200P
QO154M200PC
QO154M200PQ



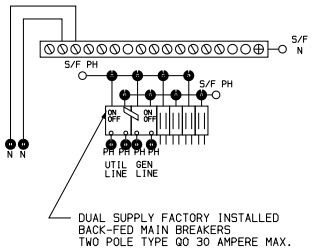
QO160M200PC

Backup Power Solutions

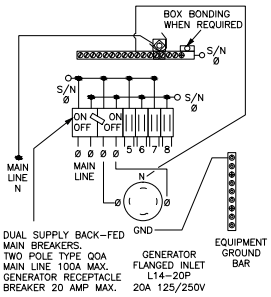
Figure 5 - Backup Power Solutions



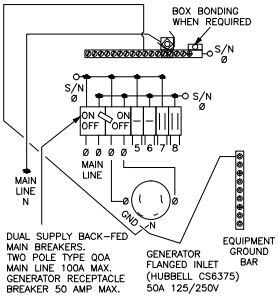
QO1DM10030TRBR



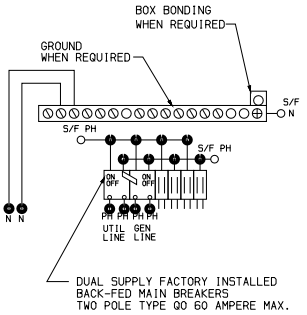
QO4-8M30DS-GP



QO1DM10020TRBR



QO1DM10050TRBR

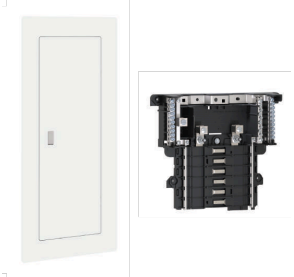


QO4-8M60DS-GP

QO Load Centers – Main Lugs and Main Circuit Breaker

Figure 6 - QO Load Centers 3Ø – Main Lugs & Main Circuit Breaker

QO Value Packs, Mounting Bases and Covers



Value Packs Offer

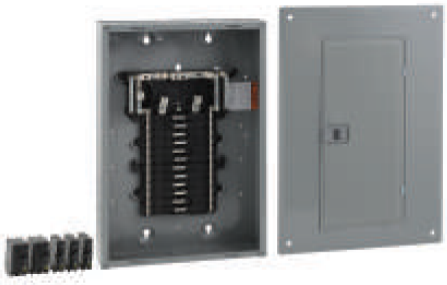
Different value pack combinations offer an affordable mix of products for load center customers. Value packs are ideal for new construction, upgrades and remodels. Designed to meet various needs, special packs are combined for QO products.

We’ve got you covered: flush and surface covers

Indoor QO covers are available in surface or flush mount; these can be purchased separately and limit loss or damage if stored at the job site.

Mono-Flat covers, a high-end alternative with aesthetically pleasing design and low profile surface with concealed mounting screws and door hinges is an alternative to our standard covers.

Plug-on Neutral Load Center Value Packs



QO124L125PGCVP

QO142M200PCAFVP

Table 26 - Plug-on Neutral Indoor Load Center Value Packs (Compatible with Plug-on Circuit Breakers and Plug-on Neutral Circuit Breakers)

Mains Rating	Spaces	Max. 1P Circuits (85)	Max. Tandem Circuit Breakers	Load Center Box, Interior, Cover and Branch Circuit Breakers		Equipment Ground Bar Kit (Order Separately)	Main Wire Size AWG/kcmil		Box No. (86)
				Cat. No.	Included Load Center/Circuit Breakers	Cat. No.	Al	Cu	
QO (Accepts Only QO Plug-On Circuit Breakers) QO — Copper Bus; Convertible Mains — Factory-Installed Main Circuit Breaker, 22 kA Short Circuit Current Rating Convertible appropriate to Main Lugs or QOM Main Circuit Breaker									
125 A	24	34	10	QO124L125PGCVP	(1) QO124L125PGC (3) QO120 (2) QO230	PKGTALP1 Included	6–2/0		7
225 A	42	52		QO142L225PGCVP	(1) QO142L225PGC (3) QO120 (2) QO230	PKGTALP2 Included	4–300		11
Convertible Mains — Factory-Installed Main Circuit Breaker, 22 kA Short Circuit Current Rating Converitble appropriate to Main Lugs or Main Circuit Breaker									
100 A	24	34	10	QO124M100PCVP	(1) QO124M100PC (3) QO120 (2) QO230	PK15GTA	6–2/0		7
	32	38	6	QO132M100PCVP	(1) QO132M100PC (3) QO120 (2) QO230	PK18GTA			8
200 A	42	52	10	QO142M200PCVP	(1) QO142M200PC (3) QO120 (2) QO230	PK23GTA	4–300		11
				QO142M200PCAFVP	(1) QO142M200PC (3) QO120 (2) QO230 (3) QO115PCAFI				

(85) Maximum single pole branch circuits utilizing QO and/or QOT (20 A MAX. NON-CTL) circuit breakers.
(86) See Enclosure and Knockout Information, page 67.

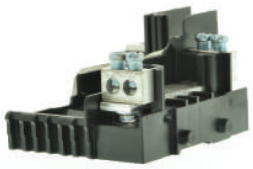
Table 27 - Plug-on Neutral with Qwik-Grip Indoor Load Center Value Packs (Compatible with Plug-on Circuit Breakers and Plug-on Neutral Circuit Breakers)

Mains Rating	Spaces	Max. 1P Circuits	Max. Tandem Circuit Breakers	Load Center Box, Interior, Cover and Branch Circuit Breakers		Equipment Ground Bar Kit (Order Separately)	Main Wire Size AWG/kcmil		Box No.(87)
				Cat. No.	Included Load Center/ Circuit Breakers	Cat. No.	Al	Cu	
QO Convertible Mains — Factory-Installed Main Lugs, up to 65 kA Short Circuit Current Rating — Copper Bus, QOM1 Main Frame Size, Convertible to Main Circuit Breaker									
125 A	24	34	10	QO124L125PQGCVP	(1) QO124L125PQGC (3) QO120 (2) QO230 and (1) PKQGA Qwik-Grip assembly kit	PKGTALP1	6–2/0		7Q
QO 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	42	52	10	QO142M200PQCVP	(1) QO142M200MQC (3) QO120 (2) QO230 and (1) PKQGA Qwik-Grip assembly kit	PK23GTA	4–300		11Q

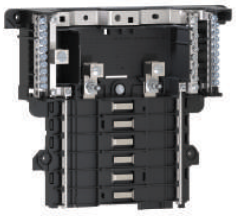
(87) See QO/Homeline Enclosure Dimensions and Knockout Information, page 67.

QO Mounting Bases – UL Recognized Components

SK9795



QON2L40



QON112L125PI

QON318L200

QON3B

Table 28 - QO Mounting Bases

Voltage System	Main Lug Rating	Spaces	Max. No. 1P Circuits	Mounting Bases Cat. No.	Main Wire Size AWG/kcmil
QO Plug-On Mounting Bases – (Only accepts QO plug-on circuit breakers. Not compatible with QO plug-on neutral circuit breakers.)					
1Ø2W 240 Vac Max. 10 k AIC (without neutral assembly)	70 A	2	2	QON2L70	14–2/0 Cu, 12–2/0 Al
	125 A	4	4	SK9948BW	12–2/0 Al
				SK9842	
		6	6	SK9795	
				SK9801	
				SK9796BW	8–3/0 Cu/Al
		8	8	SK9797	
QO Plug-On Mounting Bases – (Only accepts QO plug-on circuit breakers. Not compatible with QO plug-on neutral circuit breakers.)					
1Ø3W 240 Vac Max. 10 I AIC	40 A	2	2	QON2L40	14–2/0 Cu, 12–2/0 Al
	70 A		4	QON24L70	
	100 A	6	12	QON612L100	8–1/0 Cu/Al
		8	16	QON816L100	
QO Plug-On Neutral Mounting Bases – (Compatible with QO plug-on circuit breakers and QO plug-on neutral circuit breaker.)					
1Ø3W 240 Vac Max. 10 k AIC	125 A	12	24	QON112L125PI	6–2/0 Cu/Al
		20		QON120L125PI	
	200 A	12		QON112L200PI	4–250 Cu/Al
		24	36	QON124L200PI	
				QON124L200PDL	(2) 4–300 Cu/Al
		30	40	QON120L200PI	4–250 Cu/Al
	225 A	42	52	QON142L225PI	4–300 Cu/Al
		54	72	QON154L225P	
		60		QON160L225P	
QO Plug-On Mounting Bases – (Only accepts QO plug-on circuit breakers. Not compatible with QO plug-on neutral circuit breakers.)					
3Ø3W 240 Vac Max. 10 k AIC (without neutral assembly)	125 A	12	12	QON312L125	6–2/0 Cu/Al
		20	20	QON320L125	
		24	24	QON324L125	
	200 A	18	18	QON318L200	4–250 Cu/Al
		24	24	QON324L200	
		30	30	QON330L200	
	225 A	42	42	QON324L205	
QO Plug-On Mounting Bases – (Only accepts QO plug-on circuit breakers. Not compatible with QO plug-on neutral circuit breakers.)					
3Ø4W 240 Vac Max. 10 k AIC	60 A	3	3	QON403L60N	14–1 Cu, 12–1 Al
	125 A	12	12	QON312L125I	6–2/0 Cu/Al
		20	20	QON320L125I (88)	
		24	24	QON324L125I	
	200 A	30	30	QON330L200I (88)	4–250 Cu/Al
	225 A	42	42	QON342L225I	4–300 Cu/Al
QO Plug-On Mounting Bases – (Only accepts QO plug-on circuit breakers. Not compatible with QO plug-on neutral circuit breakers.)					

(88) 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.

Table 28 - QO Mounting Bases (Continued)

Voltage System	Main Lug Rating	Spaces	Max. No. 1P Circuits	Mounting Bases Cat. No.	Main Wire Size AWG/kcmil
1Ø2W 240 Vac Max. 10 k AIC (without neutral assembly)	70 A	1	1	QOMB1	14–2/0 Cu, 12–2/0 Al
		2	2	QOMB2	
		3	3	QOMB3	
QOB Bolt-On Mounting Bases – (Only accepts QOB bolt-on circuit breakers)					
1Ø2W 240 Vac Max. 10 k AIC (without neutral assembly)	100 A	3	3	QON3B	14–1 Cu, 12–1 Al

Solid Neutral Assemblies

SN30

SN42

SN12125

SN12200

Table 29 - Solid Neutral Assemblies

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

Accessories for US Mounting Base for UL 489 C60

USMBLK

Table 30 - Accessories for US Mounting Base for UL 489 C60

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

QO Load Center Covers

QOC40UFW

QOC20UFWG

QOCMF42UCW

Table 31 - QO Load Center Covers

Mains Ratings	Spaces	QO Standard Covers			QO Mono-Flat Covers	
		Flush	Surface	Flush		
		Gray Covers		White Covers	Gray	White
QO 1-Phase Load Center Covers — Convertible Mains						
100 A	12	QOC12UF	QOC12US	—	—	—
	16	QOC20U100F	QOC20U100S	QOC20U100FW	—	—
	20	QOC20U100F	QOC20U100S	QOC20U100FW	—	—
	24	QOC24UF	QOC24US	QOC24UFW	—	—
	32	QOC32UF	—	QOC32UFW	—	—
125 A	12	QOC16UF	QOC16US	QOC16UFW	—	—
	16	QOC24UF	QOC24US	QOC24UFW	—	—
	20	QOC20U100F	QOC20U100S	QOC20U100FW	—	—
	24	QOC24UF	QOC24US	QOC24UFW	—	—
	30	QOC30U125C	—	—	—	—
	32	QOC32UF	—	QOC32UFW	—	—
150 A	20	QOC30UF	QOC30US	QOC30UFW	QOCMF30UC	QOCMF30UCW
	24	QOC30UF	QOC30US	QOC30UFW	QOCMF30UC	QOCMF30UCW
	30	QOC30UF	QOC30US	QOC30UFW	QOCMF30UC	QOCMF30UCW
	32	QOC40UF	QOC40US	QOC40UFW	—	—

Table 31 - QO Load Center Covers (Continued)

Mains Ratings	Spaces	QO Standard Covers			QO Mono-Flat Covers	
		Flush	Surface	Flush		
		Gray Covers		White Covers	Gray	White
200 A	12	QOC30UF	QOC30US	QOC30UFW	QOCMF30UC	QOCMF30UCW
	20	QOC30UF	QOC30US	QOC30UFW	QOCMF30UC	QOCMF30UCW
	24	QOC30UF	QOC30US	QOC30UFW	QOCMF30UC	QOCMF30UCW
	30	QOC30UF	QOC30US	QOC30UFW	QOCMF30UC	QOCMF30UCW
	40	QOC40UF	QOC40US	QOC40UFW	—	—
	42	QOC42UF	QOC42US	QOC42UFW	QOCMF42UC	QOCMF42UCW
	54	QOC54UF	—	QOC54UFW	QOCMF54UC	QOCMF54UCW
	60	QOC60UF	—	—	QOCMF60UC	QOCMF60UCW
225 A	40	QOC42UF	QOC42US	QOC42UFW	QOCMF42UC	QOCMF42UCW
	42	QOC42UF	QOC42US	QOC42UFW	QOCMF42UC	QOCMF42UCW
	54	QOC54UF	—	QOC54UFW	QOCMF54UC	QOCMF54UCW
QO Rise Panel (Wide Gutter) Covers						
125 A	12	QOC20UFWG	—	QOC20UFWGW	NQC20FWG	NQC20FWGW
	20	QOC20UFWG	—	QOC20UFWGW	NQC20FWG	NQC20FWGW
200 A	24	QOC30UFWG	—	QOC30UFWGW	NQC30FWG	NQC30FWGW
	30	QOC30UFWG	—	QOC30UFWGW	NQC30FWG	NQC30FWGW
QO 3-Phase Load Center Covers — Fixed Mains						
125 A	12	QOC16UF	QOC16US	QOC16UFW	—	—
	20	QOC24UF	QOC24US	QOC24UFW	—	—
	24	QOC24UF	QOC24US	QOC24UFW	—	—
200 A	18	QOC30UF	QOC30US	QOC30UFW	—	—
	30	QOC30UF	QOC30US	QOC30UFW	—	—
225 A	42	QOC42UF	QOC42US	QOC42UFW	—	—
QO 3-Phase Load Center Covers — Convertible Mains						
100 A	27	QOC30UF	QOC30US	QOC30UFW	—	—
125 A	30	QOC342MQF	QOC342MQS	—	—	—
150 A	30	QOC342MQF	QOC342MQS	—	—	—
	42	QOC342MQF	QOC342MQS	—	—	—
200 A	30	QOC342MQF	QOC342MQS	—	—	—
	42	QOC342MQF	QOC342MQS	—	—	—
225 A	42	QOC342MQF	QOC342MQS	—	—	—

Homeline Load Centers

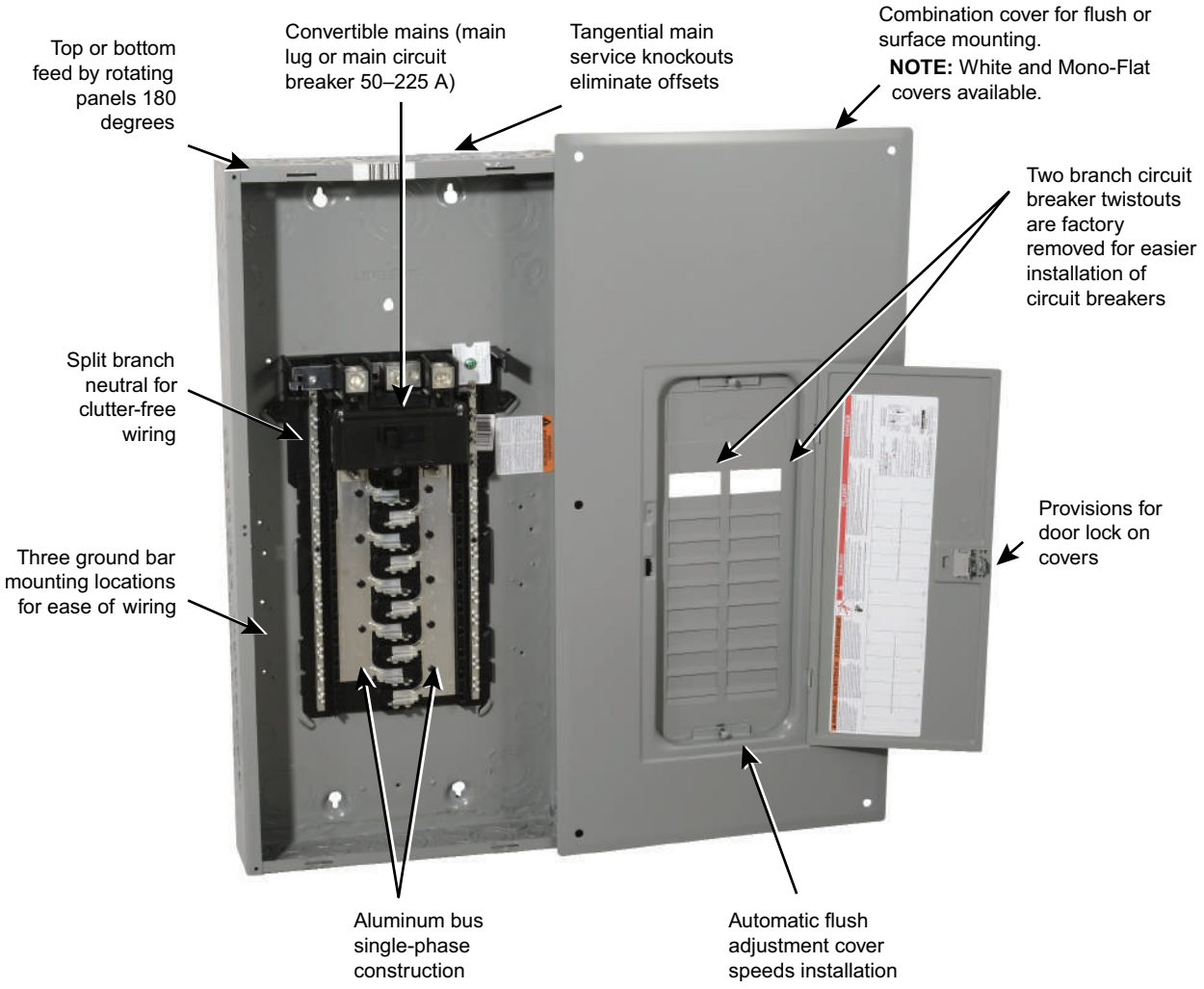
Homeline Product Description

This section provides an overview of the Homeline Load Center features, an overview of the catalog number guide, and general information about the product.

Introduction to Homeline Load Centers

Homeline Load Centers are built on Square D reputation for reliability, innovation, and leadership in circuit protection.

Homeline Load Centers from Square D are UL Listed panelboards. Then are designed to meet residential requirements to help protect electrical systems, equipment, and people.



Other Features:

UL Listed Only for Square D Breakers: 1-in. format breakers trip to center position.

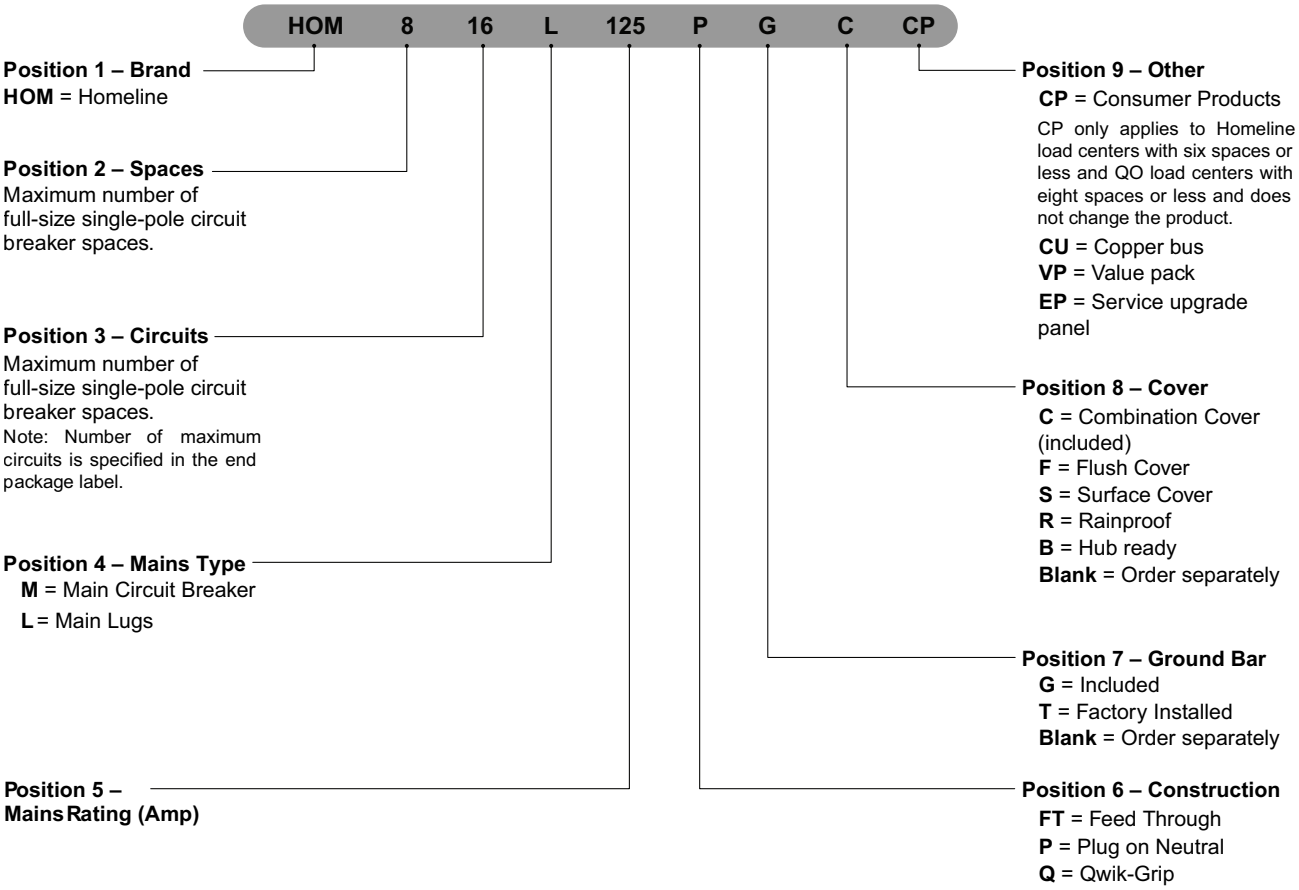
Standard 22 kA /10 kA AIR SCCR: Standard 22/10 kA AIR series rating on main circuit breaker panels increases application capability (branch circuit breakers 10 kA / main circuit breaker 22 kA).

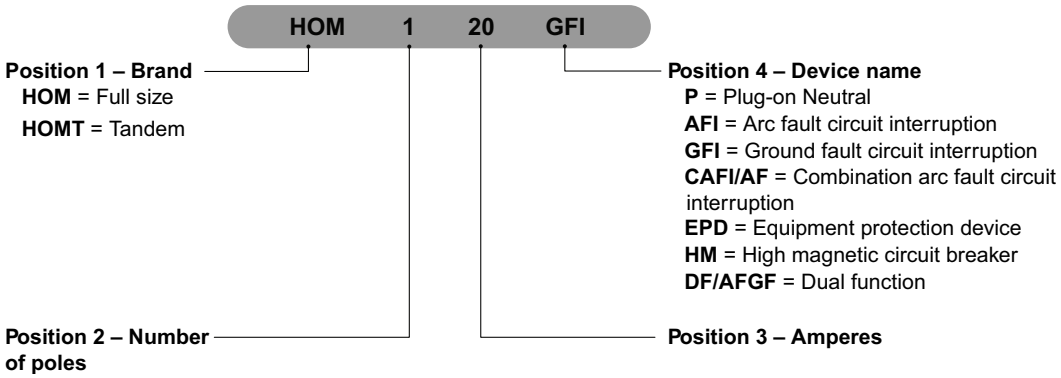
Hinges and ground bars: Side hinge doors on outdoor convertible main panels. Equipment grounding bar included with main lug load centers.

Screws: Single captive screw interior mounting on indoor panels to ease removal. Combination slot/square drive neutral, ground, and cover screws for positive drive and improved torque.

Accepts Plug-on Neutral (PoN) CAFI and Dual Function Breakers, and circuit breakers with pigtails

Catalog Number Guide – Homeline Load Centers





General Information

HOM3060L125PC

HOM230

Type:

Circuit breaker load centers for use on AC systems. They are UL Listed under file E-6294 (panelboards) and meet Federal Specifications W-P-115b NEMA Type 1, Class 2.

Service:

120 Vac, 1Ø2W

120 / 240 Vac, 1Ø3W

Ratings:

Main lugs: 70–225 A

Main circuit breaker: 50–225 A

UL Listed:

- File E-6294 (panelboards)
- UL 67 Standard for Panelboards establishes requirements for electrical distribution panels
- Suitable for use as service equipment
- 75°C wire rating

Class CTL:

UL Listed Class CTL load centers

Meets the 2020 National Electrical Code (NEC) article for Lighting and Appliance Branch Circuit panelboards

Main Circuit Breaker Kits:

50–225 A main circuit breaker kit is 22,000 AIR series rated with 10,000 AIR branch circuit breakers.

Table 32 - Branch Circuit Breakers

10,000 AIR	
HOM	1-pole, 15–50 A
	2-pole, 15–125 A
HOMT	1-pole, 15–30 A
	2-pole, 15–50 A
HOM-GFI	1-pole, 15–20 A
	2-pole, 15–50 A
HOM-AFI	1-pole, 15–20 A
HOM-CAFI	1-pole, 15–20 A
	2-pole, 15–20 A
HOM-P	1-pole, 15–20 A
HOM-BB	2-pole, 150–200 A
HOM-DF	1-pole, 15–20 A
HOM-HM	1-pole, 15–20 A
HOM-EPD	1-pole, 15–20 A
	2-pole, 15–50 A

Homeline Indoor and Outdoor Load Centers

NEMA Type 1 – Indoor

NEMA Type 1 enclosures are typically used to help protect controls and terminations from objects and personnel. This style of enclosure, while offering a latching door, does not have a gasket sealing surface. NEMA 1 enclosures are used in applications where sealing out dust, oil, and water is not required.

NEMA Type 3R – Rainproof

NEMA Type 3R enclosures are typically used in outdoor applications for wiring and junction boxes. This style of enclosure help provide protection against falling rain, sleet, snow, and external ice formation. In an indoor application, this can help protect against dripping water. This style of enclosure does not have a gasket sealing surface. Some models have hasps for padlocking.

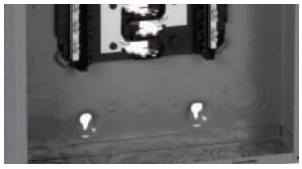
Indoor Enclosures (NEMA Type 1)

Homeline Plug-on Neutral Load Centers

Homeline plug-on neutral load centers offer time-savings for plug-on neutral combination arc fault (CAFI) and dual function circuit breaker installation. Our innovative, split neutrals are designed to save you time and wire, allowing plug-on neutral circuit breakers to connect directly to the neutral bar without the pigtail.

Qwik-Grip wire management system available

Save time and simplify your work by eliminating knockouts, installing wire connectors and help prevent pulling wire into the load center.



Material, Finish, and Knockouts

The enclosures are sheet steel with knockouts at the top, bottom, back, and sides. Homeline finish consists of gray baked enamel electrodeposited over cleaned, phosphatized steel. Most indoor enclosures are 14.25 in. (362 mm) wide. Homeline enclosures can be rotated to allow top or bottom feed. Homeline load center interiors have tin and copper plated aluminum bus bars.

Flush and surface covers

Indoor Homeline covers with latch are available in surface or flush mount and are included with our load centers. Doors to cover circuit breaker handles, except on 2-4, 4-8, and 6-12 circuit models. Triple lead covers crews for fast cover installation.

Filter plates

Snap-in style filler plates are accessories purchased separately available to cover unused spaces. HOMFP and QOFP filler plates available for branch circuit breaker spaces in all covers. QOM1FP filler plates available for 100-125 A convertible load center covers. QOM2FP filler plates available for 150-225 A convertible load center covers.

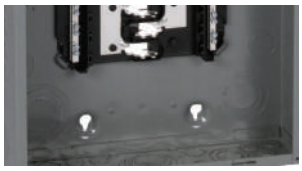
Different colors and styles

Homeline covers are available in gray and white colors. Mono-Flat covers, a high-end alternative with aesthetically pleasing design and low profile surface with concealed mounting screws and door hinges are an alternative to the standard covers.

Outdoor Enclosures (NEMA Type 3R)

Homeline Plug-on Neutral

Homeline plug-on neutral load centers offer time-savings for plug-on neutral combination arc fault (CAFI) and dual function circuit breaker installation. These innovative, split neutrals are designed to save you time and wire, allowing plug-on neutral circuit breakers to connect directly to the neutral bar without the pigtail.



Material, Finish, and Knockouts

Galvannealed steel enclosure includes interior trim and door with a gray baked enamel electrodeposited over cleaned, phosphatized steel. Homeline load center interiors have tin and copper plated aluminum bus bars.

Stainless steel latch

Stainless steel door latch on the enclosure provides a secure closure and maximum durability.

Wiring access without door removal

Convertible main panels are side-hinge door devices, providing full wiring access without door removal.

Bolt-On Hubs

NEMA 3R — are rainproof devices have provisions for interchangeable bolt-on hub. Square D type rain-tight bolted hubs provide fast and convenient top feed conduit connection. Hubs are available for 0.75 in. (19 mm) to 4 in. (102 mm) conduit size. No gasket is required with hubs from 0.75 in. (19 mm) to 2.50 in. (64 mm) when used on NEMA Type 3R load centers.

Fixed Mains vs. Convertible Mains – Single Phase

Table 33 - Single-Phase – Homeline Load Centers, Fixed Mains (70–125 A)

Indoor NEMA 1	Rainproof NEMA 3R
	
Standards	
UL 67 Listed • File E-6294 • 75°C wire rating	
Short Circuit Current Rating	
Main lugs: up to 10,000 AIR	
Interior	
Tin plated aluminum bus	
Mains	
• Factory-installed fixed main lugs • Top mains positioning only • Top or bottom feed • A backfed main circuit breaker can be field installed in a 6-12 load center using the HOM1RK retaining kit	
Covers	
Flush and surface cover	

Table 34 - Single-Phase – Homeline Load Centers, Convertible Mains (100–225 A)

Indoor NEMA 1	Rainproof NEMA 3R
	
Standards	
UL 67 Listed • File E-6294 • Suitable for use as service equipment • 75°C wire rating	
Short Circuit Current Rating	
• Main lugs: up to 10,000 AIR • Main circuit breaker: 22,000 AIR standard	
Interior	

Table 34 - Single-Phase – Homeline Load Centers, Convertible Mains(100–225 A) (Continued)

Indoor NEMA 1	Rainproof NEMA 3R
• Tin plated aluminum bus • Removable interior with single, captive mounting screw • Split branch neutral with up to 50% more terminations than required • Multiple mounting locations for equipment ground bar kits: left, right, bottom	
Mains	
Factory-installed main lugs convertible to main circuit breaker	
Load Center Amperage	**Main Circuit Breaker Kit Amperage**
125	50–125
150	10–150
200	100–200
225	100–225
Factory-installed main circuit breaker convertible to main lugs	

Main Circuit Breaker Amperage	Main Lug Kit Amperage	Load Center Amperage
100	125	100
125	125	125
150	225	150
200	225	200
225	225	225

Covers
• Combination flush and surface cover included with load centers • Optional door lock kit for indoor load centers • Easy to open door latch

Technical Information

Indoor, HOM Fixed Mains (70-125 A) – Main Lugs

HOM24L70F

HOM612L100F

HOM48L125GC

Table 35 - HOM Standard Load Center Main Lugs, Fixed Mains (1Ø3W—120/240 Vac Indoor—UL Listed)

Mains Rating	Spaces	Max. Single Pole Circuits	Max. Tandem Circuit Breakers	Load Center Box, Interior	Main Wire Size AWG/kcmil		Equipment Ground Bar Kit (Order Separately)	Box No.
					Al	Cu		
Main Lugs—10 kA Short Circuit Current Rating Order HOM Circuit Breakers								
70 A	2	4	2	HOM24L70F/S (92), (93)	12–3	14–4	PK3GTA1	2
100 A	6	12	6	HOM612L100F/S (92), (94)	6–2/0	8–1	PK7GTA	4
125 A	4	8	4	HOM48L125GC	12–2/0	14–2/0	PK7GTA included	21

(89) Maximum single pole branch circuits utilizing HOM and/or HOMT circuit breakers.
(90) C at end of catalog number indicates combination flush/surface cover included with device.
(91) See QO/Homeline Enclosure Dimensions and Knockout Information, page 67.
(92) F/S at end of catalog number indicates to order F for flush device or S for surface device. The cover does not have a door.
(93) HOM-GFI and HOM-AFI branch circuit breakers are limited to number 10 maximum wire.
(94) 70 A maximum branch circuit breaker, 100 A maximum back feed main circuit breaker.

Indoor, HOM Convertible Mains (125–225 A) – Main Lugs

HOM2040L225PGC

HOM4284L225PGC

Table 36 - HOM Plug-on Neutral Load Center Main Lugs, Convertible Mains (1Ø3W–120/240 Vac Indoor—UL Listed)

Mains Rating	Spaces	Max. Single Pole Circuits (95)	Max. Tandam Circuit Breakers	Load Center Box, Interior and Cover (96)	Main Wire Size AWG/kcmil		Equipment Ground Bar Kit (Order Separately	Box No. (97)
					Al	Cu		
Convertible Mains—Factory-installed Main Lugs QOM1 Main Frame Size—Convertible to Main Circuit Breaker								
125 A	8	16	8	HOM816L125PC	6–2/0	6–1	PK9-27GTA(L)	6
	12	24	12	HOM1224L125PC				
	16	32	16	HOM1632L125PC		6–1/0		8
	20	40	20	HOM2040L125PC				
	30	60	30	HOM3060L125PC		6–2/0		10
Convertible Mains—Factory-installed Main Lugs QOM2 Main Frame Size—Convertible to Main Circuit Breaker								
225 A	30	60	30	HOM3060L225PC	4–300	4–250	PK9-27GTA(L)	10
	40	80	40	HOM4080L225PC				12
	42	84	42	HOM4284L225PC				
	60	120	60	HOM60120L225PC				25
Convertible Mains—Factory-installed Main Lugs—Ground Bar Included QOM1 Main Frame Size—Convertible to Main Circuit Breaker								
125 A	8	16	8	HOM816L125PGC	6–2/0	6–1	PKGTALP1 Included	6
	12	24	12	HOM1224L125PGC				
	20	40	20	HOM2040L125PGC		6–1/0		8
	24	80	24	HOM2448L125PGC				
Convertible Mains—Factory-installed Main Lugs—Ground Bar Included QOM2 Main Frame Size—Convertible to Main Circuit Breaker.								
225 A	30	60	30	HOM3060L225PGC	4–300	4–250	PKGTALP2 Included	10
	16	32	16	HOM1632L225PGC			PKGTALP1 Included	9
	20	40	20	HOM2040L225PGC				
	40	80	40	HOM4080L225PGC			PKGTALP3 Included	12
	42	84	42	HOM4284L225PGC				

(95) Maximum single pole branch circuits utilizing HOM and/or HOMT circuit breakers.
(96) C at end of catalog number indicates combination flush/surface cover included with device.
(97) See Enclosure and Knockout Information, page 67.

Indoor, HOM Convertible Mains (100–200 A) – Main Breaker

HOM3060M125PC

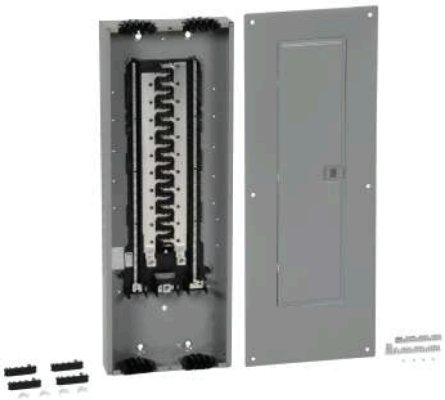
HOM4284M225PC

Table 37 - HOM Plug-on Neutral Load Center Main Breaker, Convertible Mains (1Ø3W–120/240 Vac Indoor–UL Listed)

Mains Rating	Spaces	Max. Single Pole Circuits (98)	Max. Tandam Circuit Breakers	Load Center Box, Interior and Cover (99)	Main Wire Size AWG/ kcmil		Equipment Ground Bar Kit (Order Separately	Box No. (100)
					Al	Cu		
Main Circuit Breaker – 22 kA Short Circuit Current Rating Convertible Mains – Factory-installed Main Circuit Breaker QOM1 Main Frame Size – Convertible to Main Lugs or Lower Amperage Main Circuit Breaker								
100 A	8	16	8	HOM816M100PC	6–1	6–3	PK9-27GTA(L)	5
	12	24	12	HOM1224M100PC		6–2/0		6
	20	40	20	HOM2040M100PC		6–3		7
	24	48	24	HOM2448M100PC	6–2/0			8
	30	60	30	HOM3060M100PC	6–2/0			10
125 A	24	48	24	HOM2448M125PC	6–2/0	6–1/0		8
	30	60	30	HOM3060M125PC		6–2/0		10
Convertible Mains – Factory-installed Main Circuit Breaker QOM2 Main Frame Size – Convertible to Main Lugs or Lower Amperage Main Circuit Breaker								
150 A	30	60	30	HOM3060M150PC	4–250		PK9-27GTA(L)	10
200 A	20	40	20	HOM2040M200PC	4–250			9
	30	60	30	HOM3060M200PC				10
	40	80	40	HOM4080M200PC				12
	42	84	42	HOM4284M200PC				12
	60	120	60	HOM60120M200C				25
225 A	42	84	42	HOM4284M225PC	4–300	4–250		12

(98) Maximum single pole branch circuits utilizing HOM and/or HOMT circuit breakers.
(99) C at end of catalog number indicates combination flush/surface cover included with device.
(100)See Enclosure and Knockout Information, page 67.

Indoor, HOM Convertible Mains (125–200 A with Qwik-Grip)



HOM4284L225PQGC

HOM3060M200PQC

Table 38 - HOM Plug-on Neutral Load Centers with Qwik-Grip (1Ø3W–120 / 240 Vac Indoor— UL Listed)

Mains Rating	Spaces	Max. 1P Circuit	Max. Tandam Circuit Breakers	Load Center Box, Interior and Cover	Main Wire Size AWG/kcmil		Equipment Ground Bar Kit	Box No.
					Al	Cu		
125 A	34	48	24	HOM2448L125PQGC	6–2/0	6–1/0	PKGTALP2 included	8Q
	40	60	30	HOM3060L125PQGC		6–2/0		10Q
Convertible Mains—Factory-Installed Main Lugs, 10 kA Short Circuit Current Rating— QOM2 Main Frame Size, Convertible								
225 A	30	60	30	HOM3060L225PQGC	4–300	4–250	PKGTALP2 included	10Q
	40	80	40	HOM4080L225PQGC			PKGTALP3 included	12Q
	42	84	42	HOM4284L225PQGC				
Convertible Mains—Factory-Installed Main Circuit Breaker, 22 kA Short Circuit Current Rating— QOM2 Main Circuit Breaker Frame Size, Convertible to Main Lugs or Main Circuit Breaker								
200 A	30	60	30	HOM3060M200PQC	4–250		PK9-27GTA(L)	10Q
	40	80	40	HOM4080M200PQC				12Q
	42	84	42	HOM4284M200PQC	4–300	4–250		

Table 39 - Homeline Service Upgrades Load Centers (1Ø3W—120/240 Vac Special Applications—UL Listed)

Mains Rating	Spaces	Max. IP Circuits (101)	Max. Tandem Circuit Breakers	Load Center Box and Interior	Extra Long Cover with Door (Order Separately)		Main Wire Size AWG/ Kcmil		Equipment Ground Bar Kit (Order Separately)	Box No. (102)
					Flush	Surface	Al	Cu		
Convertible Mains—Factory-Installed Main Circuit Breaker—22 KA QOM2 Main Frame Size—Convertible to Main Lugs or Lower Amperage Main Circuit Breaker —Copper Bus (103)										
200 A	30	60	30	HOM3060M200PCEP(104)	HOMC30UFL	—	4–250		PK9-27GTA(L)	26

(101)Maximum single pole branch circuits utilizing QO and/or QOT circuit breakers.
(102)See QO/Homeline Enclosure Dimensions and Knockout Information, page 67.
(103)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.
(104)Ships with standard length cover.

1Ø, Field-Installed Mains Kits

QOM50VH

Table 40 - Field-Installed Main Circuit Breaker Kits, 1Ø
QOM1 Frame Size — (Use with Convertible Main Load Centers only)

Main Circuit Breaker Rating[105]	Convertible Load Center Mains Rating	22 k AIR [106] Main Circuit Breaker	Lug Wire Size AWG/kcmil [107]
50 A	100–125	QOM50VH	12–2/0 Al or Cu
60 A		QOM60VH	
70 A		QOM70VH	
80 A		QOM80VH	
90 A		QOM90VH	
100 A		QOM100VH	
110 A	125	QOM110VH	
125 A		QOM125VH	

QOM2100VH

Table 41 - Field-Installed Main Circuit Breaker Kits, 1Ø
QOM2 Frame Size — (Use with Convertible Main Load Centers only)

Main Circuit Breaker Rating [105]	Convertible Load Center Mains Rating	22 k AIR [106] Main Circuit Breaker [108]	Lug Wire Size AWG/kcmil [107]
100 A	150–225	QOM2100VH	4–300 Al or Cu
125 A		QOM2125VH	
150 A		QOM2150VH	
175 A	200–225	QOM2175VH	
200 A		QOM2200VH	
225 A	225	QOM2225VH	

QOL125

Table 42 - Field-Installed Main Lug Kits, 1Ø

Field-Installed Main Type	Frame Size	Main Ampere Rating [105]	Use on Convertible Load Center with Mains Rating	Cat. No.	Lug Wire Size [107] AWG/kcmil
Main Lugs [109]	—	125 A	100–125 A	QOL125	6–2/0 Al or Cu
				QOL125VD	4–4/0 Al or Cu
	—	225 A	150–225 A	QOL225	6–300 Al or Cu

(105) Do not exceed the load center mains rating.
(106) 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.
(107) 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.
(108) Add suffix 1021 for 120, 208 or 240 Vac shunt trip.
(109) If main circuit breaker knockout has been removed from the load center's trim, order appropriate filler plate from QO/Homeline Accessories, page 72.

Rainproof, HOM Fixed and Convertible Mains (70–225 A) Main Lugs

HOM24L70RB

HOM48L125GRB

HOM612L100RB

Table 43 - HOM Standard Load Center Main Lugs, Fixed Mains (1Ø3W–120/240 Vac Rainproof UL—Listed)

Mains Rating	Spaces	Max. Single Pole Circuits (110)	Max. Tandam Circuit Breakers	Load Center Box, Interior and Cover	Main Wire Size AWG/ kcmil		Equipment Ground Bar Kit (Order Separately	Box No.
				Cat. No. (DE3C)	Al	Cu	Cat. No. (DE3A)	
Main Lugs—10 kA Short Circuit Current Rating Factory-installed Fixed Main Lugs, 10 kA Short Circuit Current Rating								
70 A	2	4	2	HOM24L70RB (111)	12–3	14–4	PK4GTA	1R
100 A	6	12	6	HOM612L100RB (112)	8–1		PK7GTA	2R
125 A	4	8	4	HOM48L125GRB	12–2/0	14–2/0	PK7GTA Included	15R

Table 44 - HOM Plug-on Neutral Load Center Main Lugs, Convertible Mains (1Ø3W–120/240 Vac Rainproof UL—Listed)

Mains Rating	Spaces	Max. Single Pole Circuits (113)	Max. Tandam Circuit Breakers	Load Center Box, Interior and Cover	Main Wire Size AWG/ kcmil		Equipment Ground Bar Kit (Order Separately	Box No.
				Cat. No. (DE3C)	Al	Cu	Cat. No. (DE3A)	
Convertible Mains with Factory-installed Main Lugs (113), QOM1 Main Frame Size—Convertible to Main Circuit Breaker								
125 A	8	16	8	HOM816L125PRB	6–2/0	6–1	PK9-27GTA(L)	3R
	12	24	12	HOM1224L125PRB				
	20	40	20	HOM2040L125PRB				4R
	24	48	24	HOM2448L125PRB				6R
Convertible Mains with Factory-installed Main Lugs (114), QOM2 Main Frame Size—Convertible to Main Circuit Breaker								
225 A	12	12	0	HOM12L225PRB	4–300	4–250	PK9-27GTA(L)	5R
	16	32	16	HOM1632L225PRB				6R
	20	40	20	HOM2040L225PRB				
	30	60	30	HOM3060L225PRB				7R
	40	80	40	HOM4080L225PRB				14R
	42	84	42	HOM4284L225PRB				

(110)Maximum single pole branch circuits utilizing HOM and/or HOMT circuit breakers.
(111)HOM-GFI and HOM-AFI branch circuit breakers are limited to number 10 maximum wire.
(112)70 A maximum branch circuit breaker, 100 A maximum back feed main circuit breaker.
(113)Side hinge door device allow 1-1/4 in. on left side for door to open.
(114)Convertible mains with factory-installed main lugs, QOM2 main frame size—convertible to main circuit breaker.

Rainproof, HOM Convertible Mains (100–200 A) – Main Breaker

HOM2448M125PRB

HOM3060M200PRB

Table 45 - HOM Plug-on Neutral Load Center Main Breaker, Convertible Mains (1Ø3W–120/240 Vac Rainproof – UL Listed)

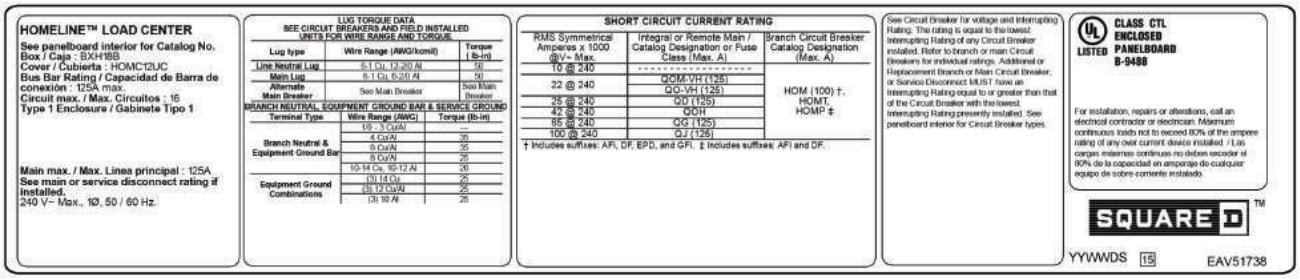
Mains Rating	Spaces	Max. Single Pole Circuits	Max. Tandam Circuit Breakers	Load Center Box, Interior and Cover	Main Wire Size AWG/kcmil		Equipment Ground Bar Kit (Order Separately	Box No.
				Cat. No. (DE3C)	Al	Cu	Cat. No. (DE3A)	
Main Circuit Breaker – 22 kA Short Circuit Current Rating Convertible Mains with Factory-Installed Main Circuit Breaker, QOM1 Main Frame Size – Convertible to Main Lugs or Lower Amperage Main Circuit Breaker (116)								
100 A	8	16	8	HOM816M100PRB	6–2/0	6–1	PK9-27GTA(L)	3R
	12	24	12	HOM1224M100PRB				
	20	40	20	HOM2040M100PRB				4R
125 A	8	16	8	HOM816M125PRB				3R
	24	48	24	HOM2448M125PRB				6R
Convertible Mains with Factory-installed Main Circuit Breaker, QOM2 Main Frame Size – Convertible to Main Lugs or Lower Amperage Main Circuit Breaker								
150 A	30	60	30	HOM3060M150PRB	4–250		PK9-27GTA(L)	7R
200 A	12	12	0	HOM12M200PRB				5R
	20	40	20	HOM2040M200PRB				6R
	30	60	30	HOM3060M200PRB				7R
	40	80	40	HOM4080M200PRB				14R
Convertible Mains with Factory-installed Main Circuit Breaker with Feed-thru Lugs, QOM2 Main Frame Size – Convertible to Main Lugs or Lower Amperage Main Circuit Breaker (117)								
150 A	8	16	8	HOM816M150PFTRB	4–250		PK9-27GTA(L)	6R
200 A				HOM816M200PFTRB				

(115)Maximum single pole branch circuits utilizing HOM and/or HOMT circuit breakers.
(116)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.
(117)Side hinge door device allow 1-1/4 in. on left side for door to open.

Homeline Label Samples

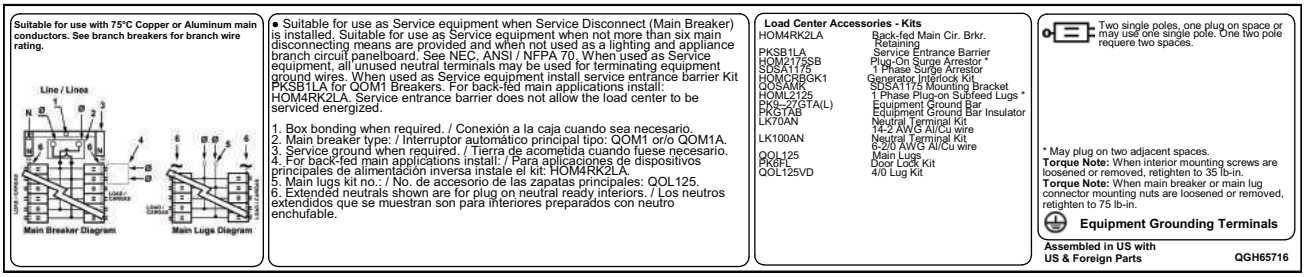
Homeline Box Label Sample

• Number of circuits maximum • Enclosure catalog number • Catalog number of covers; flush or surface • See load center interior for the catalog number • Voltage ratings • Amperage rating	Wire range for lug torque data table	Short circuit ratings	Short circuit ratings and additional or replacement circuit breakers	• UL manifest • Date code • Plant code • Label part number • Manufacturer trademark



Homeline Wiring Diagram Sample

Alternate wiring diagram for main circuit breaker or main lug	• Service Equipment marking. Unused neutral branch terminal for equipment grounding, service equipment application only • Installation of back-fed main circuit breaker and required kit	Load center accessories	Square D circuit breakers that may be used in this load center

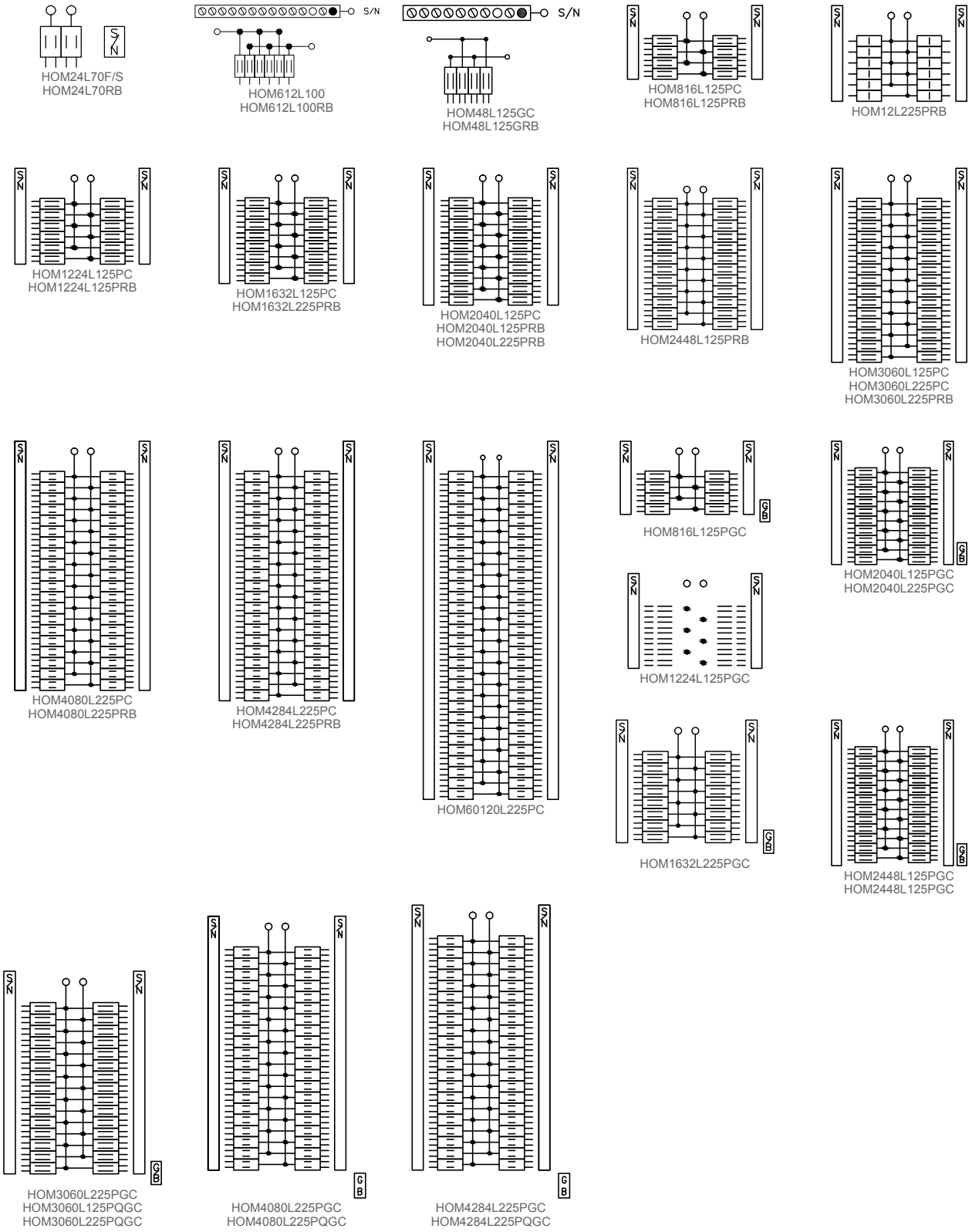


Homeline Wiring Diagrams

Homeline Load Centers – Main Lugs

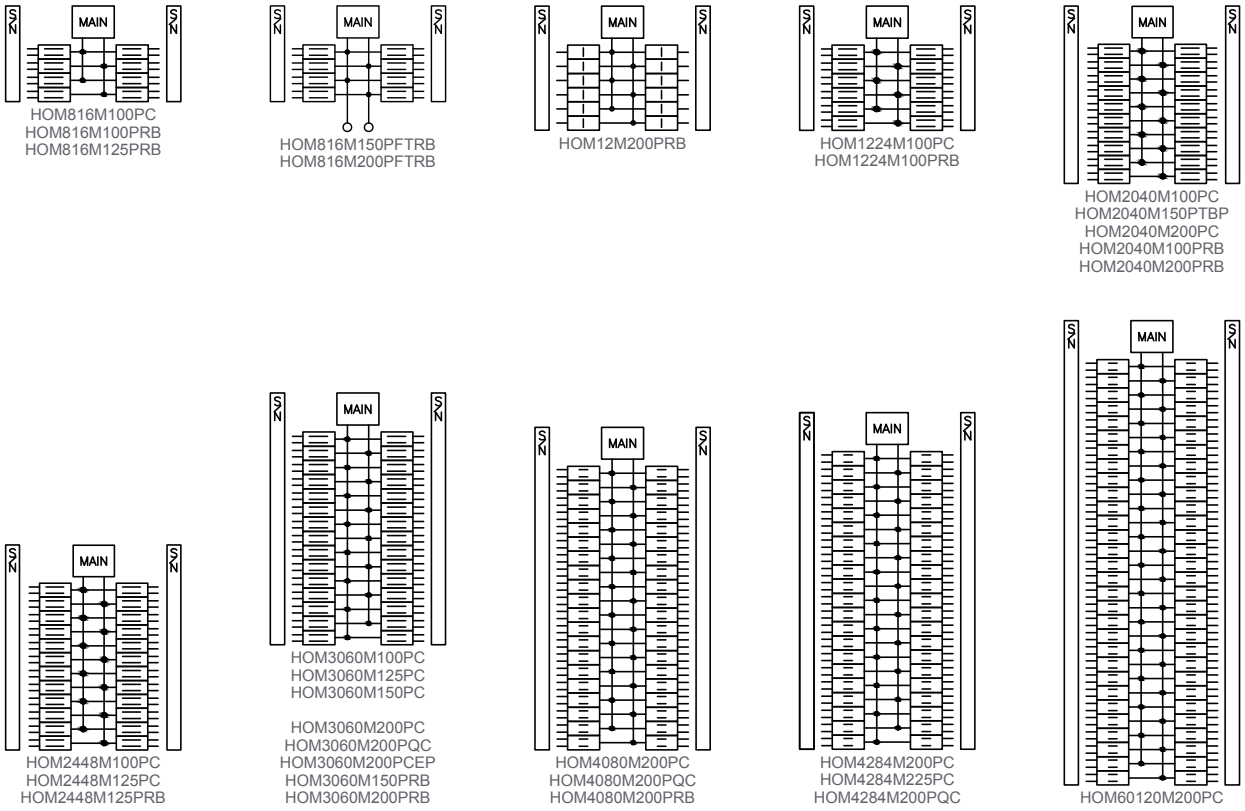
NOTE: See each catalog number's associated technical drawing online for additional wiring diagram details.

Figure 7 - Homeline Load Centers – Main Lugs



Homeline Load Centers – Main Breaker

Figure 8 - Homeline Load Centers – Main Breaker



Homeline Value Packs and Covers

Value Pack Offer

Different value pack combinations offer an affordable mix of products for load center customers. Value packs are ideal for new construction, upgrades and remodels. Designed to meet various needs, special packs are combined for Homeline products.

We've got you covered, the covers are included.

Indoor Homeline covers are available in gray or white colors; these can be purchased separately and limit loss or damage if stored at the job site.

Mono-Flat covers, a high-end alternative with aesthetically pleasing design and low profile surface with concealed mounting screws and door hinges, are an alternative to our standard covers.

Plug-on Neutral Load Center Value Packs

HOM3060L225PGCVP

HOM2040M100PCVP

Table 46 - Plug-on Neutral Indoor Load Center Value Packs (compatible with Plug-on Circuit Breakers and Plug-on Neutral Circuit Breakers)

Mains Rating	Spaces	Max. 1P Circuits (118)	Max. Tandem Circuit Breakers	Load Center Box, Interior, Cover and Branch Circuit Breakers		Equipment Ground Bar Kit (Order Separately)	Main Wire Size AWG/kcmil		Box No. (119)
				Cat. No.	Included Load Center/ Circuit Breakers	Cat. No.	Al	Cu	
Homeline Convertible Mains—Factory-Installed Main Lugs (accepts only HOM Plug-On Circuit Breakers) 10 kA Short Circuit Current Rating Convertible to appropriate QOM 22 kA Short Circuit Current Rating Main Circuit Breaker									
125 A	12	24	12	HOM1224L125PGCVP	(1) HOM1224L125PGC (2) HOM120	PKGTALP1 Included	6–2/0	6–1	6
225 A	30	60	30	HOM3060L225PGCVP	(1) HOM3060L225PGC (3) HOM120 (2) HOM230	PKGTALP2 Included	4–300	4–250	10
100 A	20	40	20	HOM2040M100PCVP	(1) HOM2040M100PC (2) HOM120 (1) HOM230	PK9-27GTA(L) (Order Separately)	6–1	6–3	7
				HOM2040M100PC1AVP	(1) HOM2040M100PC (2) HOM120 (1) HOM230 (1) HOM115PCAFI				
	24	48	24	HOM2448M100PCVP	(1) HOM2448M100PC (3) HOM120 (2) HOM230		6–2/0	6–1/0	8

(118) Maximum single pole branch circuits utilizing QO and/or QOT (20 A MAX. NON-CTL) circuit breakers.
(119) See QO/Homeline Enclosure Dimensions and Knockout Information, page 67.

Table 46 - Plug-on Neutral Indoor Load Center Value Packs (compatible with Plug-on Circuit Breakers and Plug-on Neutral Circuit Breakers) (Continued)

Mains Rating	Spaces	Max. 1P Circuits (120)	Max. Tandem Circuit Breakers	Load Center Box, Interior, Cover and Branch Circuit Breakers		Equipment Ground Bar Kit (Order Separately)	Main Wire Size AWG/kcmil		Box No. (121)
				Cat. No.	Included Load Center/ Circuit Breakers	Cat. No.	Al	Cu	
150 A	30	30	30	HOM3060M150PCVP	(1) HOM3060M150PC (3) HOM120 (2) HOM230	PK9-27GTA(L) (Order Separately)	4–250		10
	20	40	20	HOM2040M200PCVP	(1) HOM2040M200PC (3) HOM120 (2) HOM230				9
	30	60	30	HOM3060M200PCVP	(1) HOM3060M200PC (3) HOM120 (2) HOM230				10
				HOM3060M200PC1AVP	(1) HOM3060M200PC (3) HOM120 (2) HOM230 (1) HOM115PCAFI				
200 A	30	60	30	HOM3060M200PCAFVP	(1) HOM3060M200PC (3) HOM120 (2) HOM230 (3) HOM115PCAFI	PK9-27GTA(L) (Order Separately)			
	40	80	40	HOM4080M200PCVP	(1) HOM4080M200PC (3) HOM120 (2) HOM230				12
				HOM4080M200PC1AVP	(1) HOM4080M200PC (3) HOM120 (2) HOM230 (1) HOM115PCAFI				
				HOM4080M200PCAFVP	(1) HOM4080M200PC (3) HOM120 (2) HOM230 (3) HOM115PCAFI				

Table 47 - Plug-on Neutral with Qwik-Grip Indoor Load Center Value Packs — (compatible with Plug-on Circuit Breakers and Plug-on Neutral Circuit Breakers)

Mains Rating	Spaces	Max. 1P Circuits	Max. Tandem Circuit Breakers	Load Center Box, Interior, Cover and Branch Circuit Breakers		Equipment Ground Bar Kit (Order Separately)	Main Wire Size AWG/kcmil		Box No. (121)
				Cat. No.	Included Load Center/ Circuit Breakers	Cat. No.	Al	Cu	
Homeline Convertible Mains—Factory-Installed Main Circuit breaker, 22 kA Short Circuit Current Rating—Copper Bus, QOM1 Main Frame Size, Convertible to Main Lugs or Main Breaker									
100 A	20	40	20	HOM2040M100PQCVP	(1) HOM2040M100PQC (2) HOM120 (1) HOM230 and (1) PKQGA Qwik-Grip assembly kit	PK9-27GTA(L)	6–1	6–3	7Q
200 A	30	60	30	HOM3060M200PQCVP	(1) HOM3060M200PQC (3) HOM120 (2) HOM230 and (1) PKQGA Qwik-Grip assembly kit		4–250		10Q

(120) Maximum single pole branch circuits utilizing QO and/or QOT (20 A MAX. NON-CTL) circuit breakers.
(121) See QO/Homeline Enclosure Dimensions and Knockout Information, page 67.

Table 47 - Plug-on Neutral with Qwik-Grip Indoor Load Center Value Packs — (compatible with Plug-on Circuit Breakers and Plug-on Neutral Circuit Breakers) (Continued)

Mains Rating	Spaces	Max. 1P Circuits	Max. Tandem Circuit Breakers	Load Center Box, Interior, Cover and Branch Circuit Breakers		Equipment Ground Bar Kit (Order Separately)	Main Wire Size AWG/kcmil		Box No. (122)
				Cat. No.	Included Load Center/ Circuit Breakers	Cat. No.	Al	Cu	
200 A	40	80	40	HOM4080M200PQCVP	(1) HOM4080M200PQC (2) HOM120 (1) HOM230 and (1) PKQGA Qwik-Grip assembly kit		4–250		12Q

Table 48 - Plug-on Neutral Rainproof Load Center Value Packs (compatible with Plug-on Circuit Breakers and Plug-on Neutral Circuit Breakers)

Mains Rating	Spaces	Max. 1P Circuits	Max. Tandem Circuit Breakers	Load Center Box, Interior, Cover and Branch Circuit Breakers		Equipment Ground Bar Kit (Order Separately)	Main Wire Size AWG/kcmil		Box No. (122)
				Cat. No.	Included Load Center/Circuit Breakers	Cat. No.	Al	Cu	
Homeline (Accepts Only HOM Plug-On Circuit Breakers) Convertible Mains—Factory-Installed Main Circuit Breaker, 22 kA Short Circuit Current Rating Convertible to Main Lugs or Lower Amperage QOM2 Main Circuit Breaker									
125 A	12	24	12	HOM1224M125PRBVP	(1) HOM1224M125PRB (3) HOM120 (2) HOM230	PK9-27GTA(L)	6–2/0	6–1	3R
200 A	30	60	30	HOM3060M200PRBVP	(1) HOM3060M200PRB (3) HOM120 (2) HOM230		4–250		7R

Table 49 - Plug-on Neutral Load Center Value Packs with Surge Protective Device (compatible with Plug-on Circuit Breakers and Plug-on Neutral Circuit Breakers)

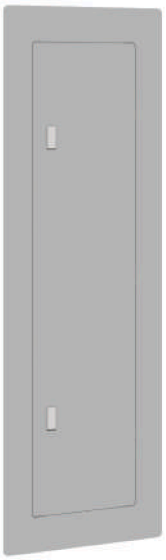
Mains Rating	Spaces	Max. 1P Circuits	Max. Tandem Circuit Breakers	Load Center Box, Interior, Cover and Branch Circuit Breakers		Equipment Ground Bars	Main Wire Size AWG/kcmil		Box No.
				Cat. No.	Included Load Center/ Circuit Breakers/SPD	Cat. No.	Al	Cu	
225 A	30	60	30	HOM3060L225PGCSVP2	(1) HOM3060l225PGC (1) HOM230 (2) HOM120, (1) Plug-on Neutral HOM250PSPD, Cover and Ground Bar	PKGTALP2 Included	4-300	4-250	10
200 A	8	16	8	HOM816M200PFTRBSP2	(1) HOM816M200PFTRB (1) Plug-on Neutral HOM250PSPD	PK15GTA (Order Separately)	4-250		6R

(122) See QO/Homeline Enclosure Dimensions and Knockout Information, page 67.

Homeline Load Center Covers

HOMC12UCW

HOMC24UC



HOMCMF60UC

Table 50 - Homeline Load Center Covers

Mains Rating	Spaces	Homeline Standard Covers		Homeline Mono Flat Covers
		Combination	Combination	
		Gray	White	Gray
100 A	8	HOMC8UC	—	—
	12	HOMC12UC	HOMC12UCW	—
	24	HOMC24UC	HOMC24UCW	—
125 A	8	HOMC12UC	HOMC12UCW	—
	12	HOMC12UC	HOMC12UCW	—
	16	HOMC24UC	HOMC24UCW	—
	20	HOMC24UC	HOMC24UCW	—
	24	HOMC24UC	HOMC24UCW	—
150 A	16	HOMC20UC	HOMC20UCW	—
	20	HOMC20UC	HOMC20UCW	—
	30	HOMC30UC	HOMC30UCW	—
200 A	12	HOMC20UC	HOMC20UCW	—
	16	HOMC20UC	HOMC20UCW	—
	20	HOMC20UC	HOMC20UCW	—
	30	HOMC30UC (122)	HOMC30UCW	—
	40	HOMC42UC	—	—
	42	HOMC42UC	—	—
	60	HOMC60UC	—	HOMCMF60UC
225 A	16	HOMC20UC	HOMC20UCW	—
	20	HOMC20UC	HOMC20UCW	—
	30	HOMC30UC	HOMC30UCW	—
	40	HOMC42UC	—	—
	42	HOMC42UC	—	—
	60	HOMC60UC	—	HOMCMF60UC

(122)Extra long version available HOMC30UFL.

QO/Homeline Load Centers

QO vs. Homeline Load Centers

Table 51 - QO vs. Homeline Load Centers

QO Load Centers			Homeline Load Centers	
	QO 3/4 in. breakers feature Visi-Trip trip to center position	**UL Listed Only for Square D Circuit Breakers**	Homeline 1 in. circuit breakers trip to center position	
	PON circuit breakers installed on any space in select Load Centers	**Accepts Plug-on Neutral CAFIs**	PON circuit breakers installed on any space	
	Top and split neutral plus (2 or 3) #1 AWG terminals	**Backed-out Neutral Terminal Screws**	Fully distributed split neutral	
	Tin-plated copper	**Bus Bars**	Tin and copper plated aluminum	
	Shielded	**Bus Bars**	Not shielded	
	3/4 in. per 1 Pole space 40 spaces/circuit = 33 3/4 in. Tall Enclosure	**Circuit Breaker Format**	1 in. per 1 Pole space 40 space/circuit = 39 1/2 in. Tall Enclosure	
	Option for Surface or Flush covers that ship separately, or a combo cover (in carton) shipped with Load Center	**Cover Options**	Combo cover (in carton) shipped with Load Center	
	Lifetime Limited	**Warranty**	Combo cover (in carton) shipped with Load Center	

QO/Homeline Enclosure Dimensions and Knockout Information

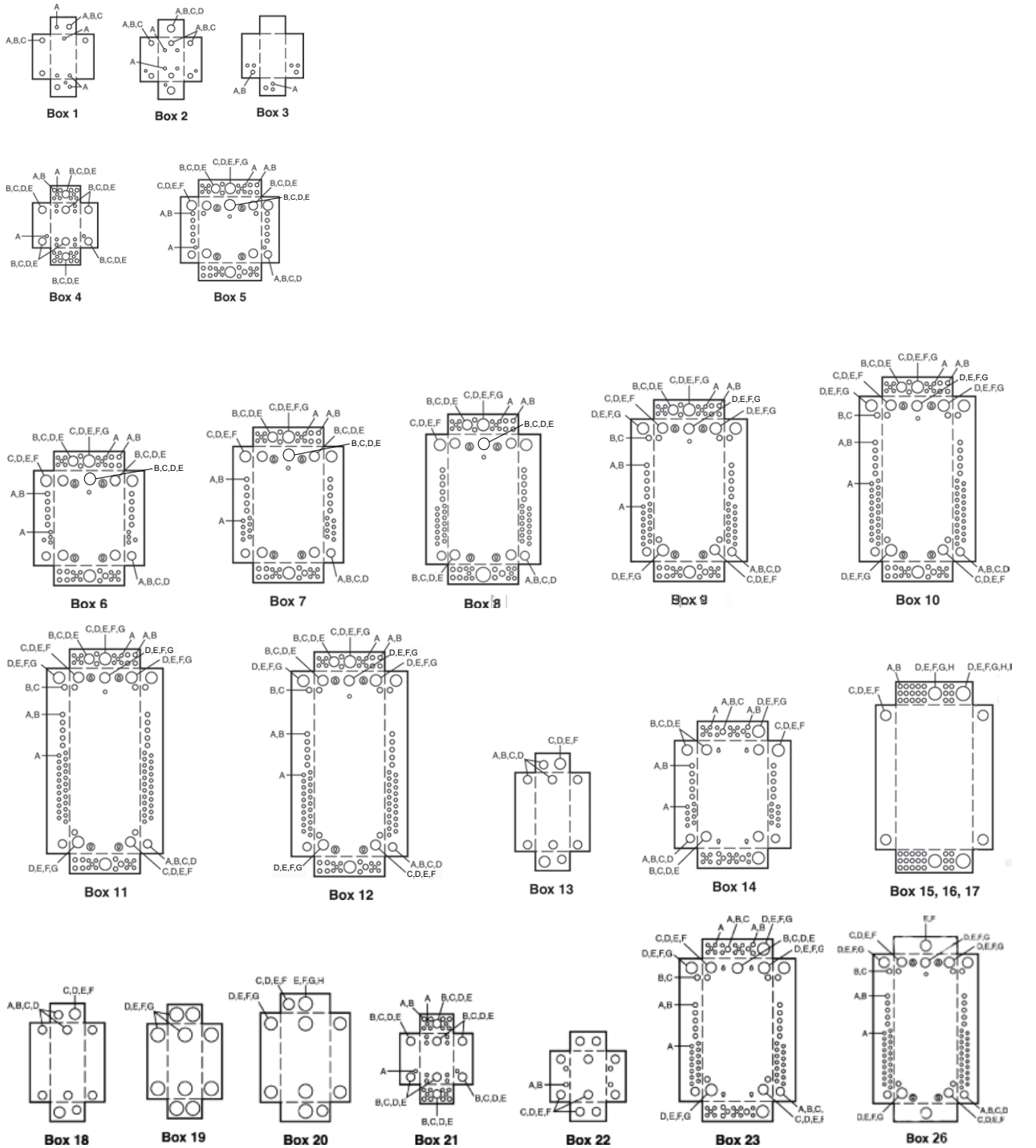
Indoor Load Centers

Table 52 - Enclosure Dimensions for Indoor Load Centers

Box No.	W		H		D		Box No.	W		H		D	
	in.	mm	in.	mm	in.	mm		in.	mm	in.	mm	in.	mm
1	3.81	97	6.72	171	3.00	76	**14**	14.25	362	20.92	531	3.75	95
2	4.81	122	9.30	236	3.19	81	**15**	20.00	508	50.00	1270	5.75	146
3	4.81	122	9.30	236	3.19	81	**16**	20.00	508	62.00	1730	5.75	146
4	8.88	226	12.57	319	3.80	97	**17**	20.00	508	53.00	1350	5.75	146
5	14.25	362	14.92	379	3.75	95	**18**	5.88	149	16.12	409	3.38	86
6	14.25	362	17.92	455	3.75	95	**19**	7.56	192	23.12	587	4.25	108
7	14.25	362	20.92	531	3.75	95	**20**	9.62	244	26.12	663	4.75	121
8	14.25	362	26.04	661	3.75	95	**21**	8.88	226	14.80	376	3.80	97
9	14.25	362	29.86	758	3.75	95	**22**	8.55	217	23.92	608	3.95	100
10	14.25	362	33.78	858	3.75	95	**23**	14.25	362	29.86	758	3.75	95
11	14.25	362	37.98	965	3.75	95	**24**	14.25	362	43.15	1100	3.75	95
12	14.25	362	39.37	1000	3.75	95	**25**	14.25	362	48.5	1240	3.75	95
13	5.88	149	13.12	333	3.38	86	**26**	14.25	362	33.78	858	3.75	95

Table 53 - Knockouts for Indoor Load Centers

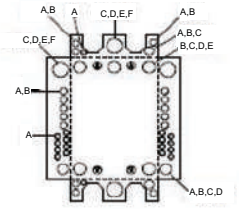
Symbol	A	B	C	D	E	F	G	H	I
Conduit Size	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	3 1/2



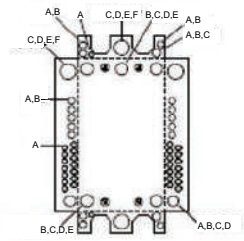
Indoor Load Centers with Qwik-Grip

Table 54 - Enclosure Dimensions for Indoor Load Centers with Qwik-Grip

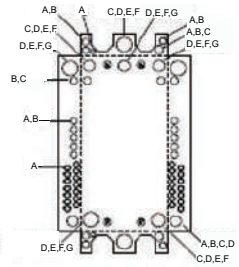
Box No.	W		H		D	
	in.	mm	in.	mm	in.	mm
7Q	14.25	362	20.92	531	3.75	95
8Q			26.04	661		
9Q			29.86	758		
10Q			33.78	858		
11Q			37.98	965		
12Q			39.37	1000		



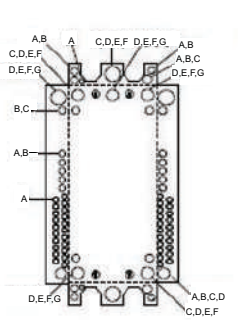
Box 7Q



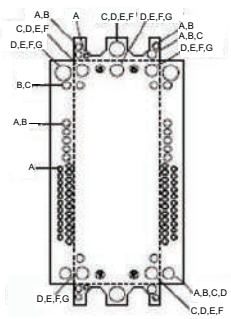
Box 8Q



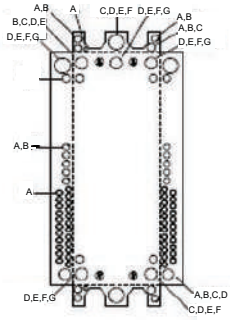
Box 9Q



Box 10Q



Box 11Q



Box 12Q

Rainproof Load Centers

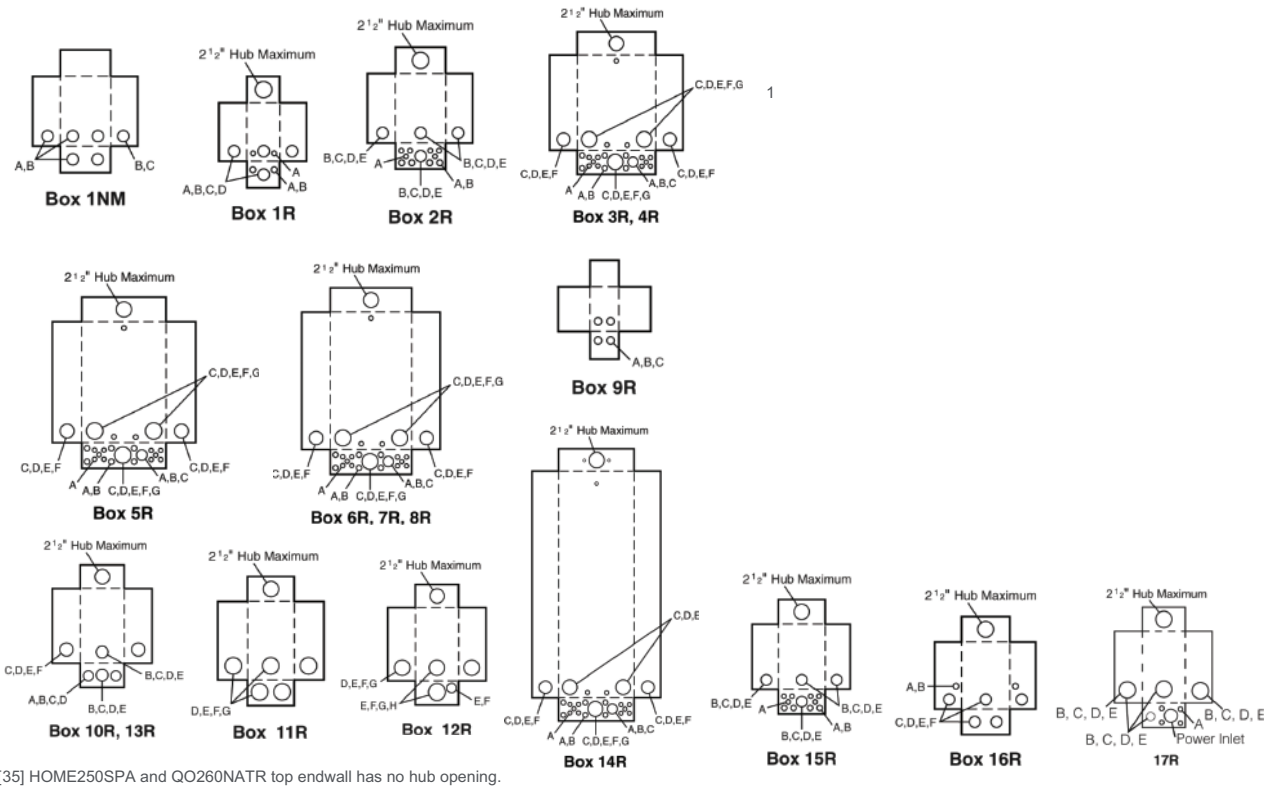
Table 55 - Enclosure Dimensions for Rainproof Load Centers

Box No.	W		H		D	
	in.	mm	in.	mm	in.	mm
1NM	6.52	166	8.79	223	3.90	99
1R (123)	4.88	124	9.38	238	4.00	102
2R	8.88	226	12.65	321	4.27	108
3R	14.75	375	18.92	481	4.52	115
4R			22.06	560		
5R			26.04	661		
6R			29.86	758		
7R			33.78	858		
8R			37.98	965		
9R	4.56	116	6.50	165	3.88	99
10R	6.92	176	13.18	335	4.12	105
11R	7.56	192	23.24	590	4.75	121
12R	9.62	244	26.24	666	5.50	140
13R	6.92	176	16.18	411	4.12	105
14R	14.75	375	39.37	1000	4.52	115
15R	8.88	226	14.8	376	4.27	108
16R	8.55	217	24.75	629	4.16	106
17R	8.88	226	12.65	321	4.27	108

Table 56 - Knockouts for Rainproof Load Centers

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

(123)HOME250SPA and QO260NATR top endwall has no hub opening.



[35] HOME250SPA and QO260NATR top endwall has no hub opening.

QO/Homeline Bolt-On Hubs

B075

B150

B250

Square D equipment with R or RB suffix, designated NEMA 3R rainproof construction, utilizes bolts-on hubs listed below. The RB devices will accept 3/4 in. through 2 1/2 in. bolt-on hubs without the use of reducers.

Off-center conduit thread openings and elongated mounting holes provide quick and easy adjustment to eliminate costly conduit offsets and bends. Catalog devices with suffix R require 3 in. through 4 in. field cut opening. Hubs are suitable for use with conduit having ANSI standard taper pipe thread.

Table 57 - UL Listed Bolt-On Hubs for RB Devices

Hub Cat. No.	B075	B100	B125	B150	B200	B250
Conduit Size	3/4 in.	1 in.	1-1/4 in.	1-1/2 in.	2 in.	2-1/2 in.

NOTE: Closing cap (catalog number B-CAP) is provided factory-installed on each device with the RB suffix.

Table 58 - UL Listed Enclosure Coupling for RB Devices

(Designed for mounting in field cut opening. Includes gasket and four mounting bolts and nuts.)		
Hub Cat. No.	B300	B400
Conduit Size	3 in.	4 in.

QO/Homeline Accessories

PSDS

QO1SE

PK8FL

PK6FL

PK4FL

QOFP

QO2P

HOMFP

Table 59 - Circuit Identification Stickers

Load Center	Cat. No.	Usage Information
QO and Homeline	PSDS	Circuit identification stickers for use on cover directory labels to identify branch circuits

Table 60 - Cover Sealing Strap

Load Center	Cat. No.	Usage Information
QO	QO1SE	Provides means of sealing trim mounting screws on QO load center covers

Table 61 - Door Lock Kits

(Available for indoor load centers. Two keys provided with each lock kit.)		
Load Center	**Cat. No.**	**Usage Information**
QO	PK8FL (124)	Use with QO612L100DF/S, QO612L100DFCU/SCU, QO612L100DTF/S, QO816L100DF/S, QO816L100DFCU/SCU, QO816L100DTF/S, QO48M30DSGP, or QO48M60DSGP
QO and Homeline	PK6FL	Use with convertible mains, 1Ø and 3Ø 100–225 A, and fixed mains, 3Ø 125–225 A indoor load centers
QO	PK4FL	Use with 300 and 400 A indoor load centers

Table 62 - Filler Plates

(Fast to install, snap-in type)		
Load Center	**Cat. No.**	**Usage Information**
QO	QOFP	Use on QO load center cover to fill unused branch circuit breaker opening
QO and Homeline	QOM1FP	Fills main circuit breaker opening in convertible load center covers 100–125 A
	QOM2FP	Fills main circuit breaker opening in convertible load center covers 150–225 A
QO	QO2FP	Fills main circuit breaker opening in Q style 3Ø load center covers (S03 Series)
Homeline	HOMFP	Use on Homeline load center cover to fill unused branch circuit breaker opening

(124)QO403L60NF/S does not have provisions for a field-installed lock.

QOM1PA

QOM2PA

4028344850K

4028345850K

LK70AN

LK22ANHOM

UCD42CP

Table 63 - Handle Padlock Attachments

Load Center	Cat. No.	Usage Information
QO and Homeline	QOM1PA	For padlocking main circuit breakers in convertible load center OFF
	QOM2PA	For padlocking main circuit breakers in convertible load center OFF

Table 64 - Neutral Bonding Screw

Load Center	Cat. No.	Usage Information
QO and Homeline	4028344850K	For use on all Homeline and QO 125 convertible main load centers
	4028345850K	For use on QO 150–225 convertible main load centers
	PKNBSCP	For use on QO and Homeline convertible main load centers

Table 65 - Neutral / Ground Lugs

Load Center	Cat. No.	Usage Information
QO and Homeline	LK70AN	Field-installed for 12– 2 Al or 14–4 Cu AWG wire
	LK100AN	Field-installed for 6–2/0 Al/Cu AWG wire
	LK125AN	Field-installed for 14–2/0 Al/Cu AWG wire
QO	LK150AN	Field-installed for 2–3/0 Al/Cu AWG wire
	LK225AN	Field-installed for 4 AWG to 300 kcmil Al/Cu wire. Use in Series S, 150-225 A QO load center.

Table 66 - Replacement Cover Directory Label

Load Center	Cat. No.	Usage Information
QO and Homeline	LSDL	1 through 42 numbered universal replacement directory label for load center covers
	UCD42CP	1 through 42 universal circuit directory kit, including circuit identification labels

PK2MB

PK5RK

PK4MB2LA

PK4MB2HA

HOM1RK

HOM4RK2HA

HOM5RK

PKSB1HA

PKSB3

PKSB3BF

Table 67 - Retaining Kit for Breakers Used as Backfed Mains

Load Center	Cat. No.	Usage Information
(Back-fed main circuit breaker retaining kits secure 2-pole, 10-125 A circuit breakers to single-phase or three-phase mains interiors when used as back-fed main circuit breakers. Mounting of retaining kits is based on top-feed applications.)		
QO	PK2MB	Fasten circuit breaker to interior when used as a back-fed main. For QO612L100F/S, RB, QO612L100DF/S, QO816L100F/S, RB, QO816L100DF/S and QO148L125GF/S, GRB load centers.
	PK3MB	Fasten 3P circuit breaker without accessories to left side of interior when used as a back-fed main. For 3Ø load centers.
	PK5RK	Fasten circuit breaker to interior when used as a back-fed main for 2P QO 150–200 A circuit breakers.
	PK4MB2LA	Fasten one circuit breaker with or without electrical accessories to right side of interior when used as a back-fed main. For 1Ø 100–125 ampere convertible main load centers. Series S01 and S02
	PK4MB2HA	Fasten one circuit breaker with or without electrical accessories to right side of interior when used as a back-fed main. For 1Ø 150–225 ampere convertible main load centers. Series S01 and S02
Homeline	HOM1RK	Fasten circuit breaker to interior when used as a back-fed main. For HOM612L100F/S, RB and HOM48L125GC, GRB load centers.
	HOM4RK2LA	Fasten one circuit breaker right side of interior when used as a back-fed main. For 100–125 A convertible main load centers, Series S01 and S02
	HOM4RK2HA	Fasten one circuit breaker right side of interior when used as a back-fed main. For 150–225 A convertible main load centers, Series S01 and S02
	HOM5RK	Fasten circuit breaker to interior when used as a back-fed main. For 2P 150–200 A circuit breakers.

Table 68 - Service Entrance Barriers

Load Center	Cat. No.	Usage Information
QO and Homeline	PKSB1LA	QO / Homeline 1Ø 100–125 A QOM1 convertible main load centers
	PKSB1HA	QO / Homeline 1Ø 150–225 A QOM2 convertible main load centers
QO	PKSB3	QO 3Ø convertible main load centers
	PKSB1QOBF	QO 1Ø back-fed main breaker applications
	PKSB3BF	QO 3Ø back-fed main breaker applications
	PKSB1QO2	QO enclosed circuit breaker devices
Homeline	PKSB1HOMBF	Homeline back-fed main breaker applications
	PKSB1FM	HOM24L fixed main load centers

QOCRBGK1C

QOCGK2C

QORBGK2C

HOMCGK2C

HOMRBGK2C

PKQGFP

PKQGI

Table 69 - Generator Circuit Breaker Interlock Kit

Load Center	Cat. No.	Usage Information
QO	QOCRBGK1C	For use on G and S Series NEMA 1 and G, S1 and S2 Series NEMA 3R load centers. Interlocks a QOM1 2P main circuit breaker of a load center (100–125 A) with a QO 2P (15–125 A) branch circuit breaker. Includes a retaining kit.
	QOCGK2C	For use on G and S Series NEMA 1 and G and S1 Series NEMA 3R load centers. Interlocks a QOM2 2P main circuit breaker of a load center (150–225 A) with a QO 2P (15–125 A) branch circuit breaker. Includes a retaining kit.
	QORBGK2C	For use on S2 Series NEMA 3R load centers. Interlocks a QOM2 2P main circuit breaker of a load center (150–225 A) with a QO 2P (15–125 A) branch circuit breaker. Includes a retaining kit.
Homeline	HOMCRBGK1C	For use on S Series NEMA 1 and NEMA 3R load centers. Interlocks a QOM1 2P main circuit breaker of a load center (100–125 A) with a Homeline 2P (15–125 A) branch circuit breaker.
	HOMCGK2C	For use on S Series NEMA 1 and S1 Series NEMA 3R load centers. Interlocks a QOM2 2P main circuit breaker of a load center (150–225 A) with a Homeline 2P (15–125 A) branch circuit breaker.
	HOMRBGK2C	For use on S2 and S3 Series NEMA 3R QOM2 load centers. Interlocks a QOM2 2P main circuit breaker of a load center (150–225 A) with a Homeline 2P (15–125 A) branch circuit breaker.

Table 70 - Qwik-Grip Load Center Accessories

Load Center	Cat. No.	Usage Information	Qty.
QO and Homeline	PKQGS	Qwik-Grip replacement shield — Qwik-Grip shield	1
	PKQGFP	Qwik-Grip fillers — Qwik-Grip fillers	10
	PKQGI	Qwik-Grip replacement insert — Qwik-Grip insert	1
	PKQGA	Qwik-Grip assembly kit — Qwik-Grip shields, Qwik-Grip fillers	4 each

QO2DTI

QODTIM

PK4DTIM4LA

PK4DTIM4LAL

PK7GTA

PK12GTA

PK15GTA6

PKGTALP1

PKGTAB

Table 71 - Manual Transfer Equipment Kit

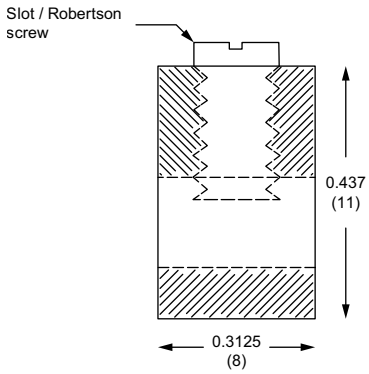
(Manual transfer equipment kits secure two 2-pole, 10-125 A circuit breakers.)		
Load Center	**Load Center**	**Usage Information**
QO	QO2DTI	For interlocking the handles of two 2P or one 2P and one 1P QO and Q1 circuit breakers mounted side-by-side so that only one circuit breaker can be ON at a time.
	QODTIM	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) 2P or (1) 2P and (1) 1P QO circuit breakers in QO816L100 load centers.
	PK4DTIM4LA	Secures two 2P circuit breakers to right side of interior when used as back-fed mains, a QO2DTI Kit included for back-up power supply applications. For 1Ø 100–125 ampere convertible main load centers. Series S01 and S02.
	PK4DTIM4LAL	Secures two 2P circuit breakers to left side of interior when used as back-fed mains, a QO2DTI Kit included for back-up power supply applications. For 1Ø 100–125 ampere convertible main load centers. Series S01 and S02.

Table 72 - Ground Bar Kits

(Field-installable in all load centers. Same wire size as neutral terminals. Suitable for copper or aluminum wire)		
Load Center	**Load Center**	**Usage Information**
QO and Homeline	PK3GTA1	Ground Bar Assembly—3 connectors
	PK4GTA	Ground Bar Assembly—4 connectors
	PK5GTA	Ground Bar Assembly—5 connectors
	PK7GTA	Ground Bar Assembly—7 connectors
	PK9GTA	Ground Bar Assembly—9 connectors
QO	PK12GTA	Ground Bar Assembly—12 connectors
QO and Homeline	PK15GTA	Ground Bar Assembly—15 connectors
	PK18GTA	Ground Bar Assembly—18 connectors
	PK23GTA	Ground Bar Assembly—23 connectors
	PK27GTA	Ground Bar Assembly—27 connectors
QO	PK15GTA6	Ground Bar Assembly—21 connectors. Use in high amperage load centers
	PK15GTAL	Standard PK15GTA with a 1–4/0 Al/Cu Lug
QO and Homeline	PK18GTAL	Standard PK18GTA with a 1–4/0 Al/Cu Lug
QO	PK23GTAL	Standard PK23GTA with a 1–4/0 Al/Cu Lug
QO and Homeline	PKGTALP1	Ground Bar Pack— PK9GTA, PK9GTA, and LK100AN
	PKGTALP2	Ground Bar Pack— PK9GTA, PK18GTA, and LK100AN
	PKGTALP3	Ground Bar Pack—PK15GTA, PK18GTA, and LK100AN
	PKGTAB	Insulator Kit for PK7GTA through PK27GTA

PK3GTA1

PK9GTA



PK15GTAL

PK27GTA

Table 73 - Ground Bar Kits

(All PK equipment grounding kits are supplied with mounting screws, necessary installation instructions, and an equipment grounding terminal self-adhesive label.)												
Catalog No.	Total Qty.	Terminals						Approximate Overall Length		Distance Between Mounting Holes		Mounting
		Quantity Each Size (See Wiring Range, page 77)										
		I	II	III	IV	V	VI	in.	mm	in.	mm	
PK3GTA1	3	3	—	—	—	—	—	1.38	35	One hole	One hole	Top
PK4GTA	4	4	—	—	—	—	—	1.63	41	One hole	One hole	Top
PK5GTA	5	5	—	—	—	—	—	2.25	57	1.25	32	Top
PK7GTA	7	7	—	—	—	—	—	2.88	73	1.25	32	Top or Side
PK9GTA	9	9	—	—	—	—	—	3.78	96	3.13	80	Top
PK12GTA	12	12	—	—	—	—	—	4.7	119	3.13	80	Top
PK15GTA	15	15	—	—	—	—	—	5.63	143	3.13	80	Top
PK15GTAL	16	15	1	—	—	—	—	8.13	207	3.13	80	Top
PK15GTA6	21	15	—	—	6	—	—	5.88	149	(125)	(125)	Top
PK18GTA	18	18	—	—	—	—	—	8.13	167	3.13	80	Top
PK18GTAL	19	18	1	—	—	—	—	5.88	224	3.13	80	Top
PK23GTA	23	23	—	—	—	—	—	6.56	206	3.13	80	Top
PK23GTAL	24	23	1	—	—	—	—	8.81	240	3.13	80	Top
PK27GTA (126)	27 or 26	27 or 26	—	1	—	—	—	8.11	238	3.13	80	Top

Table 74 - Wiring Range

Size	Cu (AWG)	Al (AWG)
I	(1) #14 – # 4 or (2) #14 or #12	(1) #12 – #4 or (2) #12 or #10
II	(1) #1 – 4/ 0	(1) #1 – 4/0
III	(1) #6 – 2/ 0	(1) #6 – 2/0
IV	(1) #6 – 3/0	(1) #6 – 3/0
V	(1) #14 – 1/0	(1) #14 – 1/0
VI	(1) #10 – 2/0	(1) #6 – 2/0

(125)3.13 in. (80 mm) on small terminals; 5.25 in. (133 mm) on large terminals.
(126)PK27GTA includes one main grounding lug that mounts with two terminal screws and requires three terminals for mounting.

QO/Homeline Surge Protective Devices (SPD)

Square D Whole Home Surge Protection blocks the voltage spikes at the load center, providing downstream protection for all your connected devices. Square D Surge Protective Devices have been developed based on decades of expertise and industry-leading technology, making it a trusted brand among homeowners and electrical contractors alike.

To decide which device is best for your home, consider the following sections when working with your electrical contractor.

Load Center and CSED Surge Protective Devices

Cat. No.	Description	Surge Current per Phase	Schedule
1 phase – 3 wire			
QO2175SB	QO Surgebreaker	22.5 kA	DE1B
HOM2175SB	HOM Surgebreaker		
SDSA1175	1Ø3W–120/240 V Compact SPD	36 kA	
QO250PSPD	QO Plug-on Neutral SPD	50 kA	
HOM250PSPD	HOM Plug-on Neutral SPD	50 kA	
HEPD25	SurgeArrest Whole Home Electronic Protection	25 kA	
HEPD50		50 kA	
HEPD80		80 kA	
SDSB80111	Surgebreaker Plus (all-in-one protection for appliances, ethernet, and telephone)	80 kA	
3 phase – 3 wire			
SDSA2040D	3Ø3W–240 V Compact SPD	40 kA	DE1B
3 phase – 4 wire			
SDSA2040	3Ø4W–208Y/120 V Compact SPD	40 kA	DE1B

Load Center and CSED Surge Protective Devices Mounting Kits

QOSAMK

HEPD58MKF

Cat. No.	Description	Surge Current per Phase	Schedule
QOSAMK	SDSA1175 Mount Kit	—	DE1B
HEPD25MKF	HEPD25 Flush Mount Kit	—	
HEPD58MKF	HEPD50 and HEPD80 Flush Mount Kit	—	

Whole Home Surge Protection

QO250PSPD

HOM250PSPD

SDSA1175

Plug-on Neutral SPD for QO (QO250PSPD) and Homeline (HOM250PSPD)

Use — QO250PSPD for QO load centers, combination devices (CSEDs) and NQ panelboards. HOM250PSPD for Homeline load centers and combination devices (CSEDs)

Feature — Plug-on Neutral connectivity. Easy to install, no wiring needed.

Installation Flexibility — NEMA 1 (Indoor)

Surge Current Capacity — 50 kA

Standards — UL Listed 1449, 4th Edition and CSA Certified

Warranty — 5 Year/$50,000 Connected Equipment Limited Warranty

Hard-Wire Whole House Surge Protective Device (SDSA1175)

- **Use —** Suitable for Use in Service Entrance locations: Meets Requirements of NEC Article 280
- **Feature —** Coordinated Fuse Technology
- **Installation Flexibility —** NEMA 4X (Indoor and Outdoor)
- **Surge Current Capacity —** 36 kA
- **Standards —** UL Listed 1449, 4th Edition and CSA Certified
- **Warranty —** 2 Years

QO2175SB

Surgebreaker for QO (QO2175SB) and Homeline (HOM2175SB)

- **Use —** QO2175SB for QO load centers, combination devices and NQ panelboards. HOM2175SB for Homeline load centers and combination devices
- **Installation Flexibility —** NEMA 1 (Indoor)
- **Surge Current Capacity —** 22.5 kA per phase
- **Standards —** UL Listed 1449, 4th Edition and CSA Certified
- **Warranty —** 3 Year/$10,000 Connected Equipment Limited

HOM2175SB

Home Electronics Protective Device (HEPD25, HEPD50, HEPD80)

- **Use —** Small, affordable whole house surge suppression that can easily be mounted to Square D and competitors load centers
- **Installation Flexibility —** NEMA 4X (Indoor and Outdoor). Easy-to-install, optional flush mount kit for a professional look when installed in a finished wall (HEPD25MKF, HEPD58MKF).
- **Surge Current Capacity —** 25 kA (HEPD25), 50 kA (HEPD50) and 80 kA (HEPD80)
- **Standards —** UL Listed 1449, 4th Edition and CSA Certified
- **Warranty —** 3 Year/$30,000 (HEPD25) or 3 Year/$50,000 (HEPD50) or 5 Year/$75,000 (HEPD80) Connected Equipment Limited Warranty

HEPD25

Surgebreaker Plus Whole House Surge Protector (SDSB80111)

- **Use —** Mounts directly to any load center from any manufacturer
- **Feature —** Removable modules (cable, Ethernet, and telephone) allow quick and easy installation customization
- **Installation Flexibility —** NEMA 1

(Indoor)

- **Surge Current Capacity —** 80 kA
- **Standards —** UL Listed 1449, 4th edition
- **Warranty —** 5 Year/$100,000 Connected Equipment Limited Warranty

SDSB80111

Enclosed Devices

Designed to be tough, reliable, and help provide exceptional performance in the most grueling conditions.

Provides a dead front housing for circuit breakers, molded case switches, and motor circuit protectors to help prevent personnel from accidentally contacting energized parts. Protect circuit breaker from physical damage. Allow circuit breaker operation without removing cover.

Features

Residential Circuit Breaker Enclosures:

- QOM2 circuit breaker enclosures
- UL Listed
- 100-225 A Max. QOM2 circuit breakers
- 22 k RMS short circuit current ratings
- Ideal for 100–225 A residential applications with Square D load centers, CSED meter mains, and circuit breaker enclosures
- Provides the flexibility to meet more applications with a single breaker format, which also simplifies inventory stocking
- A compact and flexible NEC compliant residential service entrance device
- NEMA Type 1 and Type 3R enclosures

Product Description

QO2100BNS

QOM22225NRB

These devices include provisions for a double-pole circuit breaker to be installed in an enclosure. Typical applications include a main service entrance disconnect for mobile homes and residences, as well as equipment or outbuilding disconnects.

Type

Enclosed molded case circuit breakers are UL Listed; File E136861, for enclosures and File E10027 for circuit breakers. Enclosed molded case switches are UL Listed under File E59921.

Knockouts

Located in back, side, top and bottom of all devices

Service

- 120/240 Vac, 1Ø3W
- 240 Vac, 1Ø2W
- 240 Vac, 1Ø3W
- 240/120 Vac, 3Ø4W
- 208Y/120 Vac, 3Ø4W

Bolt-On Hubs

- Hubs available from 0.75 in. (19 mm) to 2.50 in. (64 mm) conduit size
- Off-center thread openings keep conduit close to wall
- No gasket required with hubs

Neutral Assemblies

- Insulated and groundable (except QO2TR)
- Suitable for aluminum or copper wire
- Grounding terminal provided

Equipment Grounding Bar

- Field-installable PKOGTA2
- Suitable for #6 AWG 2/0 aluminum or #10 AWG 2/0 AWG copper wire

Ratings — (Single Phase)

- QO (2-pole): 10,000 A
- QOM2: 22,000 A
- QB: 10,000 A
- QD: 25,000 A
- QG: 65,000 A
- QJ: 65,000 A @ 240 V or 100,000 A @ 208Y / 120

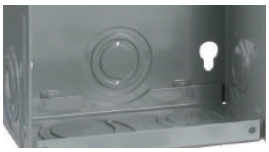
Circuit Breakers

Visi-Trip indication (QO circuit breakers). Lugs suitable for aluminum or copper wire. Refer to catalog sections listed below:

- QO Class 730
- QB, QD, QG and QJ Class 734
- QOM2 Class 736
- Molded-case switches Class 601

Enclosures

Indoor Enclosures



Indoor Enclosures — NEMA Type 1

Material, Finish and Knockouts — Enclosures are from sheet steel with knockouts at top, bottom, backand sides. Indoor finish consists of gray baked enamel electrodeposited over cleaned, phosphatized steel.

Flush and Surface Covers — Indoor covers are available in surface or flush mount and are included with our enclosed device.

Provisions — Indoor devices have padlock provisions for locking circuit breaker handle in ON (I) or OFF (O) position.

Rainproof Enclosures

Rainproof Enclosures — NEMA Type 3R

Material, Finish and Knockouts — Enclosures are from galvannealed sheet steel with knockouts at bottom, back and sides. Rainproof finish consists of gray baked enamel, electrodeposited over cleaned, phosphatized, galvannealed steel.

Provisions — Rainproof devices have provisions to padlock cover closed and for interchangeable bolt-on hubs.

Service Entrance Devices

Q2150MRBE

Table 75 - Residential Enclosed Circuit Breaker with PowerPacT Q-Frame Molded Case Circuit Breakers

Enclosure	Mains Rating	Short Circuit Rating	General Purpose	Included In Package
Rainproof NEMA 3R	150 A	25 kA	Q2150MRBE	Factory Installed: (1) QDL22150 (1) Service entrance barrier (1) Emergency disconnect label & (1) Service disconnect label
Rainproof NEMA 3R	200 A	25 kA	Q2200MRBE	Factory Installed: (1) QDL22200 (1) Service entrance barrier (1) Emergency disconnect label & (1) Service disconnect label
Rainproof NEMA 3R	70–200 A	10–100 kA	Q2200RBE (127)	Factory Installed: (1) Emergency disconnect label & (1) Service disconnect label Factory Included: (1) Service entrance barrier (128)

Table 76 - Replacement Kit for Residential Enclosed Circuit Breaker with PowerPacT Q-Frame Molded Case Circuit Breakers

Mains Rating	Short Circuit Rating	Commercial Reference	Included In Package
70–200 A	10–100 kA	PKSB1Q2	(1) Service entrance barrier & (1) Emergency disconnect label (127)

QBL22070

Table 77 - PowerPacT Q-Frame Molded Case Circuit Breakers for Residential

Service	Type 3R — Rainproof Circuit Breaker not included	Ampere Rating	Short Circuit Rating			
			10 k AIR	25 k AIR	65 k AIR	100 k AIR
2P 240 Vac Maximum	Q2200RBE	70 A	QBL22070	QDL22070	QGL22072	QJL22073
		80 A	QBL22080	QDL22080	QGL22080	QJL22080
		90 A	QBL22090	QDL22090	QGL22090	QJL22090
		100 A	QBL22100	QDL22100	QGL22100	QJL220100
		110 A	QBL22110	QDL22110	QGL22110	QJL22110
		125 A	QBL22125	QDL22125	QGL22125	QJL22125
		150 A	QBL22150	QDL22150	QGL22150	QJL22150
		175 A	QBL22175	QDL22175	QGL22175	QJL22175
		200 A	QBL22200	QDL22200	QGL22200	QJL22200

(127)Suitable ONLY for breakers from 70-200 A. Not compatible with 225 A breakers.
(128)Suitable only for 2P Q-frame molded case circuit breakers only.

QO2100MRBE

Table 78 - 2-Pole Circuit Breaker Enclosures — 22 kA Short Circuit Current Rating

Service (129)		Ampere Rating	General Purpose (130)	Rainproof	Box No. (131)	Included in Package
120/240 Vac	S N	100 A	QO2100BNF/S	—	13	—
		125 A	QO2125BNF/S	—	18	—
		100 A	—	QO2100MRBE	10R	Factory Installed: (1) QO2100VH Service Barrier Kit (1) PKSB1QO2
		125 A	—	QO2125MRBE	13R	Factory Installed: (1) QO2125VH Service Barrier Kit (1) PKSB1QO2
60 A Max. Circuit Breaker Enclosures—10 kA, Short Circuit Current Rating Circuit breaker not included. (Order separately from QO Plug-On Circuit Breakers). Will not accept QO-GFI circuit breaker nor QO circuit breakers with factory-installed accessories.						
240 Vac	G B	60 A	—	QO2TR	9R	—

Table 79 - Q-Frame Enclosures and Q-Frame Circuit Breakers

Service		Enclosure Only			Circuit Breaker (Order Separately)				
		Type 1 General Purpose (130)	Type 3 Rainproof	Box No.	Ampere Rating	10 k AIR	25 k AIR	65 k AIR	65 k AIR
2P 240 Vac	S N	Q22200NS or Q23225NF/S	Q22200NRB or Q23225NRB	19, 11R, 20, 12R	70 A	QBL22070	QDL22070	QGL22070	QJL22070
					80 A	QBL22080	QDL22080	QGL22080	QJL22080
					90 A	QBL22090	QDL22090	QGL22090	QJL22090
					100 A	QBL22100	QDL22100	QGL22100	QJL22100
					110 A	QBL22110	QDL22110	QGL22110	QJL22110
					125 A	QBL22125	QDL22125	QGL22125	QJL22125
					150 A	QBL22150	QDL22150	QGL22150	QJL22150
					175 A	QBL22175	QDL22175	QGL22175	QJL22175
					200 A	QBL22200	QDL22200	QGL22200	QJL22200
					225 A	QBL22225	QDL22225	QGL22225	QJL22225
3P 240 Vac	S N	Q23225NF/S	Q23225NRB	20, 12R	70 A	QBL32070	QDL32070	QGL32070	QJL32070
					80 A	QBL32080	QDL32080	QGL32080	QJL32080
					90 A	QBL32090	QDL32090	QGL32090	QJL32090
					100 A	QBL32100	QDL32100	QGL32100	QJL32100
					110 A	QBL32110	QDL32110	QGL32110	QJL32110
					125 A	QBL32125	QDL32125	QGL32125	QJL32125
					150 A	QBL32150	QDL32150	QGL32150	QJL32150
					175 A	QBL32175	QDL32175	QGL32175	QJL32175
					200 A	QBL32200	QDL32200	QGL32200	QJL32200
					225 A	QBL32225	QDL32225	QGL32225	QJL32225

(129)Not for use with one pole QO circuit breakers. Circuit breakers not included. Accepts QO circuit breakers with factory-installed accessories. Order equipment ground bar PKOGTA2, if required.
(130)Order F for flush, S for surface.
(131)See QO/Homeline Enclosure Dimensions and Knockout Information., page 67

Table 80 - QOM2 Enclosures and QOM2 Circuit Breakers

Service		Enclosure Only(132)			QOM2 Circuit Breaker (Order Separately)	
		Type 1 General Purpose (133)	Type 3 Rainproof	Box No. (134)	Ampere Rating	22 k AIR
		Cat. No.	Cat. No.			Cat. No. (135)
2P 240 Vac Max.		QOM22225NF/S	QOM22225NRB	22, 16R	100 A	QOM2100VH
				22, 16R	125 A	QOM2125VH
				22, 16R	150 A	QOM2150VH
				22, 16R	175 A	QOM2175VH
				22, 16R	200 A	QOM2200VH
				22, 16R	225 A	QOM2225VH

Non-Service Entrance Devices

QO200TRNM

Table 81 - Enclosed Molded Case Switch, Switch Included (Does NOT provide overcurrent protection)

Service		Ampere Rating	General Purpose	Rainproof	Box No. (134)
240 Vac		60 A (136), (137)	QO260NATS	QO200TR	2, 9R (138)
				QO200TRNM	1NM
				QO260NATR	1R
120/240		100 A (139)	QO2000NS	QO2000NRB	13, 10R

HOME250SPA

Table 82 - Enclosed GFCI Circuit Breakers, GFCI Circuit Breaker Included — 10 kA Short Circuit Current Rating

Service		Ampere Rating	Type 3R—Rainproof Circuit Breaker Included	Circuit Breaker Only	Box No. (134)
120/240 Vac		50 A	QOE250GFINM	QO250GFI	1NM (Non metallic)
			HOME250SPA	HOM250GFI	1M (Metallic)
		60 A	QOE260GFINM	QO260GFI3W	1NM (Non metallic) 1M (Metallic)

(132)Equipment ground bar kit PKOGTA2 factory-included.
(133)Order F for flush, S for surface.
(134)See QO™/Homeline™ Enclosure Dimensions and Knockout Information, page 67.
(135)DE3A Discount Schedule.
(136)Not suitable for service equipment.
(137)Maximum 10 hp 240 Vac.
(138)Top endwall has no hub opening.
(139)Maximum 20 hp 240 Vac.

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