

Do you need electrical distribution equipment for your home?

Review our selection in the 2009 Retail Catalog.



SQUARE D

by **Schneider** Electric

Make the most of
your energySM

Schneider
Electric

Thinking Outside the Square



> Who we are

Schneider Electric total sales in North America in 2007 were \$6.6 billion (U.S.). These include the sales of the North American Operating Division of Schneider Electric (NAOD), as well as North American sales of other Schneider Electric companies such as APC, T.A.C., etc.

Headquartered in Palatine, Ill., the North American Operating Division markets many of the brands of Schneider Electric to customers in the United States, Canada and Mexico. In the United States, Schneider Electric is best known by its flagship Square D® brand. Schneider Electric, the global specialist in energy management, offers integrated solutions making energy safer, more reliable, more efficient, more productive and more green in the energy & infrastructure industry, data centers & networks, buildings and residential markets. With sales of \$23.7 billion in 2007, the company's 120,000 employees in 102 countries help individuals and organizations make the most of their energy.

> A new business perspective

Innovation is nothing new to Schneider Electric and Square D products. Without our quality, innovation and reliability, we would not have made it this far. We attribute much of our success to our customers and work every day to ensure our bright futures together.

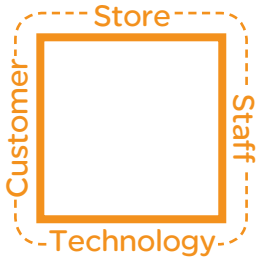
Through an innovative merchandising strategy and on-going new product development, we are continually striving to meet the needs of an ever-changing global community. We offer customized planograms from concept to store set-up. We assist you in reaching your customer in new and exciting ways by providing creative signage, product and marketing initiatives and consistently explore opportunities to advance your business and engage your customers. Our goal is to provide continuous support for your business and constantly strengthen our partnership.

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Completing Four Sides
of the Square...



Unique, value-added programs that provide marketing, merchandising and sales support to our retail partners. Our experienced team brings you exciting programs designed to help grow your business in today's ever changing and competitive environment.

> Customer

Market research is conducted on an on-going basis. One more way Square D products continue to stay ahead of the competition. We continuously study the market and utilize the information collected by:

- Dispersing bounce back cards to solicit customer feedback
- Tracking sales at the store level
- Generating accurate maps of buying activity from a national perspective to individual markets and stores
- Pinpointing marketing efforts to drive sales where needed
- Customizing mailings for our partners from a retail chain to an individual store
- Providing in-store product knowledge training
- Having two distribution centers dedicated solely to the retail channel
- Focusing on customers at our Customer Service Center 800-432-2599

> Store

Square D merchandising is designed to drive profitable buying behavior in your electrical aisle:

- Eye-catching signs attract and assist prospective buyers in locating products faster and make better buying decisions
- Signage that communicates brand and product messages simply and clearly
- Packaging and assembling of kits of products to simplify installation
- Brand-specific packaging consistent with Square D image
- Customized digital planogram service from creative concept to actual store set. Square D products continue to lead in this area using the latest technology. Our database contains up-to-date measurements of all our products. We offer the most effective and comprehensive planogram service available from any electrical and distribution equipment manufacturer.

> Staff

Training: Offering one of the most complete programs in the industry; the three levels include:

- **Level 1:** Videotape and Workbook Courses
 - Tapes and workbooks provide a detailed introduction to the distribution and control of electricity.
 - Features, benefits, applications and commonly asked questions of Square D products.
- **Level 2 - Hands-on Classes**
 - Teaches retail employees how to install various Square D products in basic applications.
 - Course customization available to meet our partners' needs such as length, location, date, etc.
- **Level 3 - Intensive Four-hour Course** (15 or more participants required)
 - Provides a detailed look at Square D products, selling features and applications
 - Participants take part in building display panels by wiring load centers and other Square D products and by installing circuit breakers.

Advertising: Provides brochures, sell sheets, product images and educational pieces on Square D products.

> Technology

Visit the Square D products web site for additional information on our retail products.

- New product information
- Easy to understand product basics
- Online product literature
- Retail products catalog

Types of Circuit Breakers, Residential Load Centers & other Electrical Devices

Circuit Breakers: A circuit breaker is designed to protect the wiring in a home. It automatically interrupts a circuit (shutting off the flow of electricity) whenever a circuit is overloaded or a short circuit occurs. Circuit breakers carry three primary ratings:

1. **Ampere Rating:** the specific continuous current on which the breaker is designed to operate
2. **Maximum Voltage Rating:** either 120 Vac for single-pole (one space) breakers or 240 Vac for double-pole (two space) breakers
3. **Interrupting Rating:** the maximum fault current a breaker is designed to interrupt

> Single-Pole Circuit Breaker

Available in various ampere ratings, these circuit breakers occupy one space in the load center and are used for single 120 Vac circuits. A typical residential service contains electrical branch circuits supplying wall receptacles, lighting fixtures and appliances such as dishwashers and disposals.

> Double-Pole Circuit Breaker

Also available in various ampere ratings. Appliances which require larger amounts of power (clothes dryers, ranges, furnaces, air conditioners, etc.) will use separate 30A, 40A, or 50A 240 Vac branch circuits.

> Tandem Circuit Breaker

These low amperage breakers provide two isolated single-pole circuits utilizing only one single-pole space in the load center. Only designated Square D load centers will accept tandem breakers.

> Quad Circuit Breaker (Homeline only)

This circuit breaker provides three isolated circuits (two single-pole and one double-pole) utilizing two spaces in the load center. Only designated Homeline load centers will accept quad breakers.

> Main Circuit Breaker (for replacement or conversion)

Available in various amperage ratings, this is the main circuit breaker for the load center. It may be ordered to replace the existing main breaker in a main breaker load center or to convert selected main lugs load centers into main breaker load centers.

Circuit Breaker Application Guide

(Local codes may vary. Check with your electrical inspector for applicable codes.)

Circuit Breaker Application	Circuit Breaker		Copper Wire Size
	Amps	# Spaces	
Air Conditioner			
120V–up to 11K BTU	20	1	12-2*
240V–up to 23K BTU	20	2	12-2*
240V–up to 36K BTU	30	2	10-2*
Attic Fan			
120V–up to 1/2 HP	15	1	14-2
Branch Circuit			
120V–15A	15	1	14-2
120V–20A	20	1	12-2
Clothes Dryer			
240V	30	2	10-3
Dishwasher			
120V	20	1	12-2
Doorbell Transformer – Class 5			
120V	15	1	14-2
Electric Heater			
120V–up to 1.92KW	20	1	12-2
Electric Range			
240V–up to 5.7KW	30	2	10-3
240V–up to 7.6KW	40	2	6-3
240V–up to 9.6KW	50	2	6-3
240V–up to 11.5KW	60	2	6-3
Garbage Disposal			
120V–up to 1/2 HP	15	1	14-2
Motors (Single Phase)			
120V–up to 1/2 HP	20	1	12-2
120V–up to 1 HP	20	1	12-2
240V–up to 1 HP	15	2	14-2
240V–1-1/2 to 3 HP	30	2	10-2
Outdoor Lighting:			
120V	15	1	14-2
Range Hood			
120V	15	1	14-2
Spa/Hot Tub			
240V	240	2	6-2
Sump Pump			
120V	15	1	14-2
Water Heater			
240V–up to 6KW	25 or 30	2	10-3
Well Pump: up to 1 HP			
120V–up to 150'	30	1	8-2
240V–151' to 200'	15	1	12-2
240V–201' to 300'	15	1	10-2

* With ground.

> Ground Fault Circuit Interrupter (GFCI)

This breaker is used as a device to provide personal protection by opening the circuit when a current to ground exceeds a predetermined level. A ground fault as low as 4-6mA (6/1000A) will trip a GFCI breaker. Check the National Electrical Code® (NEC®) and local codes as GFCI breakers may be required for bathrooms, kitchens, patios, garages, hot tubs, fountains, pools and other areas where a shock hazard may exist. Available in both single or double pole and in various amperage ratings.

> Arc Fault Circuit Interrupter (AFCI)

- AFCI: Provides the ability to detect dangerous arcing conditions that can cause fires when electrical products or wires are damaged, aged or improperly used. Arc faults cannot be detected by standard circuit breakers and fuses. The Square D AFCI special electronic sensing circuitry can “sense” arc faults as well as overloads and short circuits and disconnect the power before a potentially dangerous condition occurs.
- Combination AFCI: Because series arcs are often associated with damaged devices or cord sets, the enhanced protection provided in this area is significant. When an arcing event is detected, the Combination AFCI analyzes the event and the circuit breaker opens when it determines a hazardous condition exists. The Combination AFCI detects arcing at levels down to 5 amperes, including series arcs, parallel arc and line-to-ground arcs. Check the local code to determine requirements for using this product over an AFCI.
- Available for Square D QO® or Homeline® load centers.

> Main Breaker Load Centers

This is the service entrance panel which is connected to the electrical meter and distributes electricity throughout the home. Each is equipped with a factory installed main circuit breaker, which serves as the main disconnect to turn off power to the entire home, as well as to protect the load center from an overload or short circuit.

> Main Lugs Load Centers

This is typically used as an add-on or “sub panel” load center and is connected to the main breaker load center when spaces for more circuits are needed or when a main disconnect is located elsewhere. It does not contain a main breaker. Convertible main lug panels can be converted to main breaker panels with a replacement main breaker.

> Safety Switches

These are designed for residential and light commercial applications where operation and handling are moderate. Typical applications include residential, farm and small business service entrances and light-duty branch circuit disconnects.

> Pressure Switches

These devices are designed for the control of water pumps and air compressors. They are available in a variety of pressure settings and cutoff levels.

> Enclosed Circuit Breakers

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.

> Meter Sockets

These individual meter sockets are designed for single family residential applications. They are the point of placement for the utility company’s detachable watt hour meter and are used in conjunction with a load center located inside the home. The enclosures are of rainproof construction and accept “A” type bolt-on hubs for conduit entry.

• Ring Type

A ring type meter socket uses a sealing ring to retain the meter in position. In order to remove the meter, the sealing ring is removed without removing the cover.

• Ringless Type

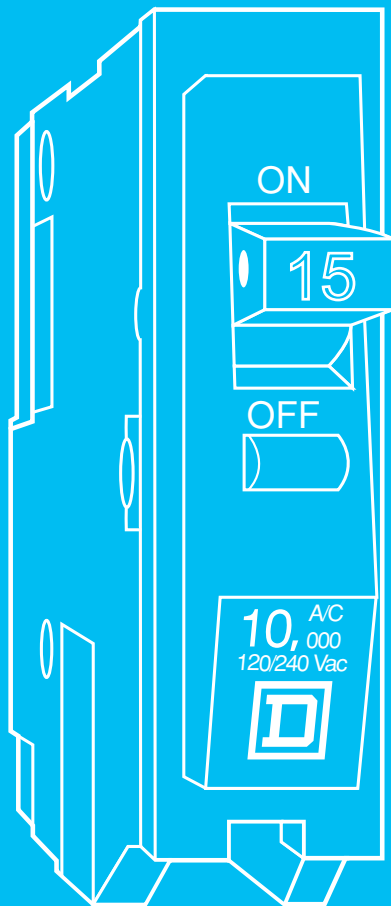
A ringless type meter socket uses the cover itself as a retaining means to hold the meter in position. To remove the meter, the cover must first be removed.

> Combination Service Entrance Devices (CSED)

CSEDs primarily serve the West Coast residential market.

“All-in-one” devices combine the meter socket, main disconnect and load center into one enclosure. “Meter mains” combine the meter socket and main breaker disconnect in the same enclosure.

QO Circuit Breakers



> The Exclusive QO Visi-Trip® Indicator

All QO circuit breakers are equipped with the exclusive Visi-Trip indicator. When a QO Visi-Trip circuit breaker trips, the handle snaps to a midpoint position between “OFF” and “ON” and a highly visible, red indicator easily identifies the tripped breaker. This enables you to easily distinguish which breaker has tripped in a load center that may contain up to 42 different circuit breakers. QO circuit breakers have features no other manufacturer can offer. They come in many different sizes and can meet the needs of virtually every function in your home or business. These types of quality, industry exclusive products keep the Square D brand ahead of the competition and are builders’ and electrical contractors’ first choice in electrical protection.

QO Circuit Breaker Features:

- Qwik-Open® circuit breaker protection (trips within 1/60th of a second) on 15A and 20A single-pole breakers at currents as low as 150A to 200A
- Trips thermally (in an overload situation) or magnetically (under a short circuit situation)
- Quick make - quick break mechanism
- SWD (switching duty) rating on 15A and 20A single-pole breakers
- Plug-on design, easy to install
- Wire terminals UL listed for 2 branch wires (10A-30A, single- and double-pole)
- Limited lifetime warranty (see page 58 for details)



For nearly half a century, QO products have been the choice of professionals – chosen two to one over any other brand. The quality and protection standards of the QO line lead the industry by providing unsurpassed protection and reliability advantages.

QO Circuit Breakers

3/4" Breaker Catalog Number Description

QO	1	15	C
Brand	# of Poles	Amps	Clam Shell Packaging

"C" denotes clam shell packaging.

"CP" denotes bulk bar coded breakers.



Plug-On Circuit Breakers

- UL Listed, CSA Approved
- 120/240 Vac
- 10,000 AIR
- Visi-Trip Indicator

3/4" Breakers*

Amps▼	1-Pole Catalog #	UPC Code	2-Pole Catalog #	UPC Code
15	QO115CP▲	0-47569-83798-2	QO215CP	0-47569-00894-8
	QO115C▲	0-47569-52237-6	QO215C	0-47569-52216-1
20	QO120CP▲	0-47569-83799-9	QO220CP	0-47569-83802-6
	QO120C▲	0-47569-52238-3	QO220C	0-47569-52217-8
25	–	–	QO225CP	0-47569-02382-8
30	QO130CP	0-47569-83800-2	QO230CP	0-47569-83803-3
	QO130C	0-47569-52239-0	QO230C	0-47569-52218-5
40	QO140CP	0-47569-83801-9	QO240CP	0-47569-83804-0
	QO140C	0-47569-17791-0	QO240C	0-47569-52219-2
50	QO150CP	0-47569-00893-1	QO250CP	0-47569-83805-7
	–	–	QO250C	0-47569-52220-8
60	–	–	QO260CP	0-47569-83806-4
	–	–	QO260C	0-47569-52221-5
70	–	–	QO270CP	0-47569-00895-5
80	–	–	QO280CP	0-47569-52227-7
90	–	–	QO290CP	0-47569-52228-4
100	–	–	QO2100CP	0-47569-52229-1
	–	–	QO2100C	7-85901-69123-5
125	–	–	QO2125CP	0-47569-04400-7

High Magnetic 3/4" Breakers*

Amps▼	1-Pole Catalog #	UPC Code
15	QO115HM	7-85901-40007-3
20	QO120HM	7-85901-40011-0



QO120



QO2100

* All 15A to 60A circuit breakers listed on this page are UL listed as HACR type for use with air conditioning, heating and refrigeration equipment having motor group combinations and marked for use with HACR type circuit breakers.

▼ 10A to 30A circuit breakers are suitable for use with 60°C or 75°C conductors. 35A to 125A circuit breakers are suitable for use with 75°C conductors.

▲ UL listed as SWD (switching duty) rated. Suitable for switching 120 Vac fluorescent lighting loads.

QO Circuit Breakers – Tandem



Plug-On Circuit Breakers

- UL Listed, CSA Approved
- 120/240 Vac
- 10,000 AIR
- Visi-Trip Indicator



QOT1515

- ▼ 10A to 30A circuit breakers are suitable for use with 60°C or 75°C conductors. 35A-125A circuit breakers are suitable for use with 75°C conductors.

Tandem Catalog Number Description

QO	T	15	15
Brand	Tandem Breakers	1 st Pole Amps	2 nd Pole Amps
"C" denotes clam shell packaging. "CP" denotes bulk bar coded breakers.			



Circuit Limiting QOT Tandem Breakers

QOT tandem breakers have a mounting cam as shown. Installation into a QO load center can only be made in those positions having a mounting pan rail slot. Meets Par. 384-15 of NEC. UL listed as class CTL.

Amps▼		1-Pole Catalog #	UPC Code	2-Pole Tandem
1-Pole	2-Pole			
Tandem Breakers 1-Pole (120/240 Vac) and 2-Pole				
15	15	QOT1515CP	0-47569-06269-8	Order two QOT1515 or QOT2020 circuit breakers and handle tie, catalog # QOTHT, for common switching of center double-poles.
20	20	QOT2020CP	0-47569-00896-2	
		QOT2020C	0-47569-07198-0	
Replacement Tandem Breakers				
For use in Old Style Non-Class CTL QO Load Centers (built prior to 1967)				
15	15	QO1515CP	0-47569-08277-1	Order two QO1515 or QO2020 circuit breakers and handle tie, catalog # QOTHT, for common switching of center double-poles.
		QO1515C	0-47569-07195-9	
20	20	QO2020CP	0-47569-00898-6	
		QO2020C	0-47569-07196-6	

QO Circuit Breakers – GFCI



GFCI Breakers & Application Info

- UL Listed, CSA Approved
- QOE250GFNM Value Pack (see page 44)

GFCI Catalog Number Description

QO	1	15	GFI
Brand	# of Poles	Amps	Ground Fault Circuit Interrupter

GFCI Breakers[■]: 1-Pole (120 Vac) and 2-Pole (120/240 Vac)

Amps▼	1-Pole Catalog #	UPC Code	2-Pole Catalog #	UPC Code
15	QO115GFICP [•]	0-47569-52231-4	QO215GFI ⁺	7-85901-56298-6
20	QO120GFICP [•]	0-47569-52232-1	QO220GFICP	0-47569-83831-6
30	QO130GFI ⁺	7-85901-25509-3	QO230GFICP	0-47569-03467-1
40			QO240GFI	7-85901-76485-4
50			QO250GFIC [•]	7-85901-30312-1
			QO250GFICP	0-47569-04392-5
60			QO260GFICP [•]	0-47569-04393-2

- Suitable only for feeding 240 Vac and 208 Vac 2 wire loads. Does not contain load neutral connection.
- Only available in clam shell packaging.
- ▼ 10A to 30A circuit breakers are suitable for use with 60°C or 75°C conductors. 35A-125A circuit breakers are suitable for use with 75°C conductors.
- Do not connect to more than 250 feet of load conductor for the total one-way run to prevent nuisance tripping.
- + Item may require additional lead time.

Circuit Breaker Wire Sizes

Breaker Type	Amp Rating▼	Wire Size (AWG)	
		Aluminum	Copper
QO	10-30	#14 - 8	(1) #14 - 8 or (2) #14 - 10
	35-70	#8 - 2	#8 - 2
	80-125	#12 - 2/0	#12 - 2/0
QOT	15-20	#12 - 8	#14 - 8
QO-GFI	15-30	#12 - 8	#14 - 8
	40, 50, 60	#12 - 4	#14 - 6

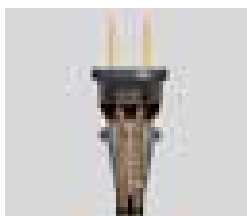


QO120GFI

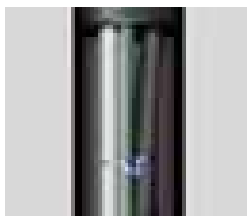


QO250GFI

QO Circuit Breakers – AFCI



Series Arc Fault



Parallel Arc Fault

> New Technology Designed for Safety

The Square D brand Arc Fault Circuit Interrupter (AFCI) is designed to detect arcs that are caused by damaged, aged or improperly used wires or cords and to disconnect the power. In addition, they can also detect overloads and short circuits.

Arc faults cannot be detected by standard circuit breakers or fuses and have been identified as an early event in the cause of many electrical fires. These electrical arcs may be as hot as 10,000°F and can easily ignite combustible materials located nearby such as wood frames, insulation, etc.

Square D brand AFCIs will fit into our existing load centers and can be used as a direct replacement for standard circuit breakers for remodeling or as direct installation items with the exception of ground fault circuit interrupters (GFCI).

The 2008 National Electrical Code requires that combination AFCIs be installed on all circuits that supply a dwelling unit living area. Arc Faults can occur on any type of circuit where you may have wire that has deteriorated insulation or has been damaged (such as during pulling, service or installation) or in worn extension or appliance cords. For more information, visit www.SquareD.com/afci or www.afcisafety.org.



AFCI Breakers

- UL Listed, CSA Approved
- 120/240 Vac
- 10,000 AIR
- Branch feed AFCI:
Green Reset Button
- Combination AFCI:
White Reset Button

Arc Fault Circuit Interrupters*

Visi-Trip Indicator

Amps	1-Pole Catalog #	UPC Code
15	QO115AFIC	7-85901-30133-2
20	QO120AFIC	7-85901-30134-9

Combination Arc Fault Circuit Interrupters*

Visi-Trip Indicator

Amps	1-Pole Catalog #	UPC Code
15	QO115CAFIC	7-85901-61044-1
20	QO120CAFIC	7-85901-69818-0



QO120AFIC



QO120CAFIC

* "C" denotes Clam Shell packaging. All 15A and 20A single-pole arc fault circuit interrupters are UL listed and can be used on circuits requiring standard QO or Homeline circuit breakers. AFCI circuit breakers cannot be used on circuits requiring GFCI breakers.

QO & Homeline Circuit Breakers – Accessories

Accessory	Description	Catalog #	UPC Code**
Handle Attachments			
Handle Tie	Secured as back-fed main for HOM612L100F/S, RB. HOM48L125C,GRB load centers	HOM1RKCP	0-47569-07145-4
	Converts any two adjacent 120/240 Vac 1-pole Homeline circuit breakers to independent trip 2-pole	HOM1HTCP	0-47569-07147-8
	Converts any two adjacent 120/240 Vac 1-pole QO circuit breakers to independent trip 2-pole	QO1HTCP	0-47569-57040-7
	Converts any two adjacent 120/240 Vac 1-pole side-by-side Homeline tandem breakers to independent trip 2-pole	HOMTHTCP	0-47569-07148-5
	Converts any two adjacent 120/240 Vac 1-pole side-by-side QOT circuit breakers to independent trip 2-pole	QOTHTCP	0-47569-17831-3
Handle Lock-Off	Clip for fixing QO 1-pole handle in "ON" or "OFF" position	QO1LOCP	0-47569-49462-8
	Clip for fixing QO or Q1 either 1-, 2- or 3-pole breaker handles in "ON" or "OFF" position	HLO-1CP	0-47569-51772-3
Handle Padlock Attachment	For padlocking 1-pole Homeline breakers in "ON" or "OFF" position	HOM1PACP	0-47569-79871-9
	For padlocking 2-pole Homeline breakers in "ON" or "OFF" position		
	For high amperage	HOM2PAHACP	7-85901-33158-2
	For low amperage	HOM2PALACP	7-85901-33159-9
	For padlocking the center of a 2-pole Homeline quad breaker in the "OFF" position	HOMQPA*	7-85901-86581-0
	For padlocking 1-pole QO circuit breakers in "ON" or "OFF" position		
	Fixed attachment	QO1PACP	0-47569-49743-8
	Loose attachment	QOHPL*	7-85901-76347-5
	For padlocking 1-pole side-by-side QOT circuit breakers in "ON" or "OFF" position.	QOTHPA*	7-85901-00255-0
	For 2- and 3-pole QO and Q1 circuit breakers which require padlocking in either "ON" or "OFF" position		
	Fixed attachment	QO1PL*	7-85901-51907-2
	Loose attachment	QO1HPLCP	0-47569-79864-1
Mechanical Interlock Attachment with Retaining Kit	QO2DTI mechanical interlock attachment with retaining kit for securing two adjacent back-fed circuit breakers in dual power supply applications. Can be used with (2) 2-poles or (1) 2-pole and (1) 1-pole QO circuit breakers in QO816L100 load centers.	QO2DTIM*	7-85901-78471-5
Bolt-On Hubs	Meter socket Bolt-On "A" hub	A100	7-85901-02948-9
		A125	7-85901-02949-6
		A150	7-85901-02950-2
		A200	7-85901-02951-9
		A200L	7-85901-13009-3
		A250	7-85901-02952-6
		A250L	7-85901-10798-9
		A300L	7-85901-10797-2
	Outdoor Bolt-On "B" hub	B075	7-85901-45941-5
		B100	7-85901-45942-2
		B125	7-85901-45944-6
		B150	7-85901-45945-3
		B200	7-85901-45947-7
		B250	7-85901-45948-4
		B300	7-85901-61583-5



HOMTHTCP



QO1PACP



QO2DTIM



A125



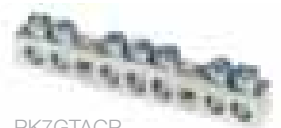
B100

Accessory	Description	Catalog #	UPC Code**
Sub-Feed Lugs	2-pole plug-on – 2 spaces required		
	125A	HOML2125*	7-85901-06592-0
	60A (#6 - 2 Al/Cu)	QO60SL	Special Order
	125A (#4 - 2/0 Al/Cu)	QO2125SL*	7-85901-03115-4
Filler Plates	Fills opening in covers if twistout is removed in error	HOMFPCP	7-85901-07149-2
Closing Plates	To be installed on TOP endwall	QOFPCP	0-47569-07224-6
		ACPACP	0-47569-73540-0
Lock Kits	Use with convertible load center covers (Indoor)	ACPACP	0-47569-73539-4
		PK6FL*	7-85901-74631-7
Neutral Lugs/ Ground Lugs	Field installed for #12 - 2 Al or #14 - 4 Cu wire	LK70ANCP▲	7-85901-48311-3
		HOM70AN	7-85901-07658-2
		QO70AN	7-85901-53973-5
	Field installed for #6 - 2/0 Al/Cu wire	LK100ANCP▲	7-85901-43664-2
		HOM100AN	7-85901-07659-9
	Field installed for #2 - 3/0 Al/Cu wire	LK150AN▲*	7-85901-73835-0
Ground Bar Kits	Standard PK15GTA with a #1 - 4/0 Al/Cu Lug	PK15GTA-L*	7-85901-44087-1
	Standard PK18GTA with a #1 - 4/0 Al/Cu Lug	PK18GTA-L*	7-85901-44088-8
	Standard PK23GTA with a #1 - 4/0 Al/Cu Lug	PK23GTA-L*	7-85901-44089-5
Ground Bars Number of terminals listed at right. All suitable for: (1) #14 - 4 or (2) #14 or #12 Cu or (1) #12 - 4 or (2) #12 or #10 Al	Two terminals suitable for (1) #10 - 2/0 Cu or (1) #6 - 2/0 Al	PK0GTA-2	7-85901-43267-8
	Three terminals	PK3GTA-1CP	0-47569-51730-3
	Four terminals	PK4GTACP	0-47569-51731-0
	Seven terminals	PK7GTACP	0-47569-51732-7
	Nine terminals	PK9GTACP	0-47569-51733-4
	Twelve terminals	PK12GTACP	0-47569-51735-8
	Fifteen terminals	PK15GTACP	0-47569-57033-9
	Eighteen terminals	PK18GTACP	0-47569-51738-9
	Twenty-three terminals	PK23GTACP	0-47569-51739-6
Miscellaneous			
Retaining Kit	Secures circuit breaker to interior when used as a back-fed main. For QO612L100F/S,RB, QO612L100DF/S, QO816L100F/S,RB and QO816L100DF/S load centers.	PK2MBCP	0-47569-51734-1
	Secures ONE circuit breaker, with or without electrical accessories, to right side of interior when used as a back-fed main. For 100 to 125A convertible main load centers. Series S01 and S02.	PK4MB2LA*	7-85901-30718-1
	Secures ONE circuit breaker, with or without electrical accessories, to right side of interior when used as a back-fed main. For 150 to 225A convertible main load centers. Series S01 and S02.	PK4MB2HA*	7-85901-30717-4
Manual Transfer Equipment Transfer	Secures TWO circuit breakers to right side of interior when used as back-fed mains, a QO2DTI Kit included for back-up power supply applications. For 100A to 125A convertible main load centers. Series S01 and S02.	PK4DTIM4LA*	7-85901-40027-1
	Secures TWO circuit breakers to right side of interior when used as back-fed mains, a QO2DTI Kit included for back-up power supply applications. For 150A to 225A convertible main load centers. Series S01 and S02.	PK4DTIM4HA*	7-85901-30716-7
	Secures TWO circuit breakers to left side of interior when used as back-fed mains, a QO2DTI Kit included for back-up power supply applications. For 100A to 125A convertible main load centers. Series S01 and S02.	PK4DTIM4LAL*	7-85901-30721-1
Cover Screws	Clamshell package of six load center cover screws. Fits all QO and Homeline load centers.	S106	0-47569-44073-1
Surge Arrester Mounting Kit	UL listed for mounting hardwired SDSA1175 surge arrester into ground bar mounting holes on convertible load centers.	QOSAMK	7-85901-00298-7

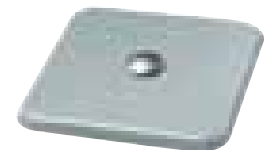


Accessories

- UL Listed
- QO accessories can only be used with QO load centers



PK7GTACP



ACPACP



LK100ANCP



S106

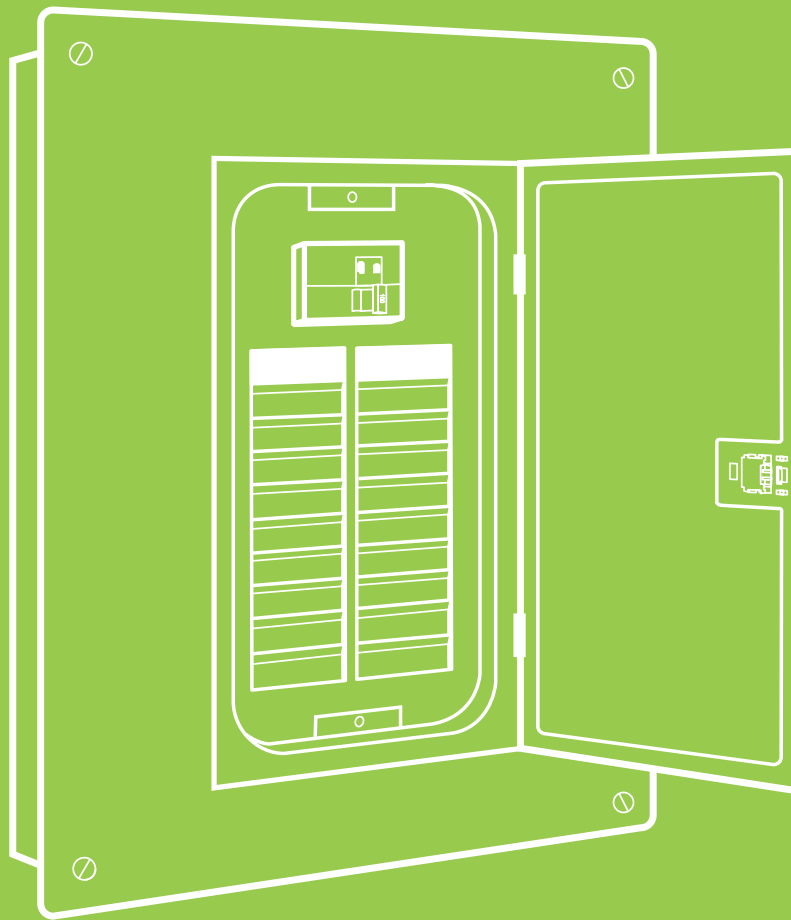
* For use in QO load centers prior to series S1.

**Where UPC code is not shown, contact Square D sales representative for ordering information.

▲ For use in QO and Homeline load centers.

* Item may require additional lead time.

QO Load Centers



> The Leading Choice

Our Square D brand load centers are the leading choice of electrical contractors and electricians. Every feature of the QO load centers was designed to provide clear advantages. Quality features designed to simplify installation, improve reliability and enhance safety.

QO Load Center Features:

- Shielded copper bus bar insulates and secures the interior
- Increased neutral capacity reduces clutter and simplifies wiring
- Easy-mount interiors save time and money
- Slot/square drive screws let you use either standard flat blade screwdriver or square-head driver for positive drive and improved torque
- Ground bar is included with all main lugs load centers with three mounting locations
- Convertible mains allow you to meet changing job site requirements by field converting main breaker load centers to main lugs and vice versa
- Straight-in mains design minimized cable bends, cutting waste and saving time
- Top or bottom feed can be accessed simply by rotating the load center
- 22,000/10,000 AIR standard series connected rating
- Lifetime limited warranty (see page 58)



For nearly half a century, QO products have been the choice of professionals – chosen two to one over any other brand. The quality and protection standards of the QO line lead the industry by providing unsurpassed protection and reliability advantages.

QO Load Centers – Main Breaker

Amps	Spaces	Max. Circuits	Cover	Catalog #	Ground Bar	UPC Code	Box Size
Indoor – QOM1 Main Breaker Frame Size							(see pg.18)
100	12	12	Combination	QO112M100C	PK9GTA	7-85901-84127-2	4
	12	20	Combination	QO11220M100C	PK15GTA	7-85901-84118-0	5
	16	16	Combination	QO116M100C	PK15GTA	7-85901-84775-5	5
	20	20	Combination	QO120M100C	PK15GTA	7-85901-84788-5	5
	24	24	Order Separately*	QO124M100*	PK15GTA	7-85901-84792-2	6
	32	32	Order Separately*	QO132M100	PK18GTA	7-85901-19337-1	6
125	24	24	Order Separately*	QO124M125*	PK15GTA	7-85901-84793-9	6
	32	32	Order Separately*	QO132M125	PK18GTA	7-85901-19338-8	6
Indoor – QOM2 Main Breaker Frame Size							(see pg.18)
150	24	24	Order Separately*	QO124M150*	PK15GTA	7-85901-84794-6	8
	30	30	Combination	QO130M150C	PK18GTA	7-85901-86743-2	8
	32	32	Order Separately*	QO132M150*	PK23GTA	7-85901-39489-1	9
200	20	40	Combination	QO12040M200C	PK23GTA	7-85901-84783-0	8
	24	24	Order Separately*	QO124M200*	PK15GTA	7-85901-84795-3	8
	30	30	Combination	QO130M200C	PK18GTA	7-85901-86754-8	8
	30	40	Combination	QO13040M200C	PK23GTA	7-85901-84800-4	8
	40	40	Combination	QO140M200C	PK23GTA	7-85901-86766-1	9
	42	42	Order Separately*	QO142M200*	PK23GTA	7-85901-39490-7	10
225	40	40	Order Separately*	QO140M225*	PK23GTA	7-85901-86767-8	10
Outdoor – QOM1 Main Breaker Frame Size							(see pg.19)
100	12	12	Rainproof	QO112M100RB*	PK9GTA	7-85901-86787-6	3R
	16	16	Rainproof	QO116M100RB*	PK12GTA	7-85901-86794-4	4R
	20	20	Rainproof	QO120M100RB	PK15GTA	7-85901-86798-2	4R
125	24	24	Rainproof	QO124M125RB*	PK15GTA	7-85901-86804-0	4R
Outdoor – QOM2 Main Breaker Frame Size							(see pg.19)
150	20	30	Rainproof	QO12030M150RB	PK18GTA	7-85901-86796-8	5R
	30	30	Rainproof	QO130M150RB*	PK18GTA	7-85901-86810-1	6R
200	20	40	Rainproof	QO12040M200RB	PK23GTA	7-85901-86797-5	5R
	30	30	Rainproof	QO130M200RB	PK18GTA	7-85901-86811-8	6R
	40	40	Rainproof	QO140M200RB	PK23GTA	7-85901-86813-2	7R
Outdoor – Feed Thru: 22,000 AIR (mobile home applications)							(see pg.19)
125	6	12	Rainproof	QO1612M125FTRB*▲	PK12GTA	7-85901-86816-3	3R
150	8	16	Rainproof	QO1816M150FTRB	PK15GTA-L	7-85901-86817-0	6R
200	8	16	Rainproof	QO1816M200FTRB	PK15GTA-L	7-85901-86818-7	6R



Main Circuit Breakers

- UL Listed, NOM Certified
- Single-Phase, 3-Wire
- 120/240 Vac—UL Listed
- 22,000 AIR*
- Convertible to Main Lugs or Lower Amperage Main Breaker
- Factory Installed Main Breaker
- Copper Bus
- Catalog Number Guide Page 17

Listings thru 200A mains meet Federal Specification W-P-115c as Type 1, Class 2.

* 22,000 AIR main circuit breaker UL listed for use ahead of QO and QOT 10,000 AIR branch breakers to permit their application systems with up to 22,000A available fault current.

* Contact Square D sales representative for ordering information.

▲ Item may require additional lead time.

▲ QO1612M125FTRB provided with QOM1 frame main circuit breaker.



QO120M100C



QO120M100RB



QO140M200C



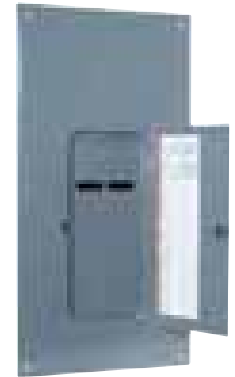
QO140M200RB

QO Load Centers – Main Lugs



Main Lugs

- UL Listed
- Single-Phase, 3-Wire
- 120/240 Vac
- 12 Spaces and Higher Panels Convertible to Main Breaker
- Factory Installed Main Lugs
- Copper Bus Bar Only on 12 Circuits and Higher
- Catalog Number Guide Page 17



QO13040L200GC



QO11624L125GRB

Listings thru 200A mains meet Federal Specification W-P-115c as Type 1, Class 2.

- Not supplied with copper bus bar.
- * Will not accept Qwik-Gard QO GFI circuit breakers.
- Mains rated 25A when aluminum wire is used.
- Use #10 maximum size wire for GFI circuit breaker.
- * Contact Square D sales representative for ordering information.
- + Item may require additional lead time.

Amps	Spaces	Max. Circuits	Cover	Catalog #	Ground Bar	UPC Code	Box Size
Indoor – 10,000 AIR							(see pg.18)
30	2	2	Surface	QO2L30SCP●□	PK3GTA-1	0-47569-80432-8	1
70	2	4	Flush	QO24L70FCP●■	PK4GTA	0-47569-80435-9	2
	2	4	Surface	QO24L70SCP●■	PK4GTA	0-47569-80436-6	2
100	6	12	Flush	QO612L100FCP●	PK7GTA	0-47569-80508-0	3
	6	12	Surface	QO612L100SCP●	PK7GTA	0-47569-80507-3	3
	6	12	Flush	QO612L100DF●	PK7GTA	7-85901-78564-4	3
	6	12	Surface	QO612L100DS●	PK7GTA	7-85901-78562-0	3
	8	16	Flush	QO816L100FCP●	PK7GTA	0-47569-80475-5	3
	8	16	Surface	QO816L100SCP●	PK7GTA	0-47569-80476-2	3
	8	16	Flush	QO816L100DF●	PK7GTA	7-85901-78569-9	3
	8	16	Surface	QO816L100DS●	PK7GTA	7-85901-78574-3	3
125	4	8	Flush	QO148L125GF+	Included	7-85901-48438-7	22
	4	8	Surface	QO148L125GS+	Included	7-85901-48440-0	22
Indoor – QOM1 Main Frame Size: Convertible to 22,000 AIR Main Breaker							(see pg.18)
125	12	12	Combination	QO112L125GC	Included	7-85901-86845-3	5A
	12	24	Combination	QO11224L125GC	Included	7-85901-84120-3	5A
	16	16	Order Separately*	QO116L125G	Included	7-85901-84773-1	6
	16	24	Order Separately*	QO11624L125G+	Included	7-85901-84130-2	6
	20	20	Combination	QO120L125GC	Included	7-85901-84786-1	6
	20	24	Order Separately*	QO12024L125G+	Included	7-85901-84777-9	6
	24	24	Order Separately*	QO124L125G+	Included	7-85901-84790-8	6
Indoor – QOM2 Main Frame Size: Convertible to 22,000 AIR Main Breaker							(see pg.18)
150	20	30	Order Separately*	QO12030L150G+	Included	7-85901-84779-3	8
	24	24	Order Separately*	QO124L150G+	Included	7-85901-84791-5	8
	30	30	Order Separately*	QO130L150G+	Included	7-85901-84801-1	8
200	12	12	Order Separately*	QO112L200G+	Included	7-85901-84124-1	8
	30	30	Order Separately*	QO130L200G+	Included	7-85901-84802-8	8
	30	40	Combination	QO13040L200GC	Included	7-85901-84798-4	8
225	42	42	Order Separately*	QO142L225G+	Included	7-85901-86775-3	10
Outdoor – Non-metallic Enclosure							(see pg.19)
60	2	4	Rainproof	QO24L60NRNM	Included	7-85901-32802-5	1NM
Outdoor – 10,000 AIR							(see pg.19)
40	2	2	Rainproof	QO2L40RBCP●■	PK3GTA-1	0-47569-80437-3	1R
70	2	4	Rainproof	QO24L70RBCP●■	PK4GTA	0-47569-80438-0	1R
100	6	12	Rainproof	QO612L100RBCP●	PK7GTA	0-47569-80509-7	2R
	8	16	Rainproof	QO816L100RBCP●	PK7GTA	0-47569-80477-9	2R
125	4	8	Rainproof	QO148L125GRB+	Included	7-85901-48439-4	9R
Outdoor – QOM1 Main Frame Size: Convertible to 22,000 AIR Main Breaker							(see pg.19)
125	12	12	Rainproof	QO112L125GRB+	Included	7-85901-86785-2	3R
	12	24	Rainproof	QO11224L125GRB	Included	7-85901-86784-5	3R
	16	24	Rainproof	QO11624L125GRB	Included	7-85901-86788-3	4R
	24	24	Rainproof	QO124L125GRB	Included	7-85901-86799-9	4R
Outdoor – QOM2 Main Frame Size: Convertible to 22,000 AIR Main Breaker							(see pg.19)
150	30	30	Rainproof	QO130L150GRB	Included	7-85901-86808-8	6R
200	12	12	Rainproof	QO112L200GRB	Included	7-85901-86786-9	5R
	30	30	Rainproof	QO130L200GRB	Included	7-85901-86809-5	6R
	30	40	Rainproof	QO13040L200GRB	Included	7-85901-86806-4	6R
225	42	42	Rainproof	QO142L225GRB+	Included	7-85901-86815-6	8R

QO Load Centers

> Catalog Number Guide

QO 1 8 16 M 100 T FT C CP

Position 1 – Brand

“QO” = QO

“HOM” = Homeline

Position 2 – Phases

Only applies to QO

Blank or “1” = Single

“3” = Three

Position 3 – Spaces

Maximum number of full-size single-pole circuit breaker spaces.

Position 4 – Circuits

Maximum number of single-pole circuits when using tandem breakers

Note: Number of circuits minus number of spaces equals number of tandem breakers accepted.

Position 5 – Mains Type

“M” = Main Breaker

“L” = Main Lugs

Position 6 – Mains Ratings

(Amps)

Position 10 –

Consumer Product

“CP” = Consumer Products
CP only applies to Homeline load centers with six spaces or less and QO load centers with eight spaces or less and does not change the product.

Position 9 – Cover

“C” = Combination Cover

“F” = Flush Cover

“S” = Surface Cover

“RB” = Rainproof

“EP” = Longer Cover

Accessory

Blank = Order separately

Position 8 –

Special Construction

“FT” = Feed Through

Position 7 – Ground Bar

“G” = Included

“T” = Factory Installed

Blank = Order separately

Amps▲	Use With Main Lug Load Center Mains Rating	Main Circuit Breaker Catalog #	Main Wire Size AWG/kcmil (Al or Cu)	UPC Code
Field Installable Main Breaker (convertible load centers only): QOM1 Frame Size				
50	100-125	QOM50VH*		7-85901-87959-6
60	100-125	QOM60VH*		7-85901-87960-2
70	100-125	QOM70VH*		7-85901-05471-9
80	100-125	QOM80VH*		7-85901-05472-6
90	100-125	QOM90VH*	#12 - 2/0	7-85901-05473-3
100	100-125	QOM100VHCP		0-47569-82259-9
110	125	QOM110VH		Special Order
125	125	QOM125VHCP		0-47569-03461-9
Field Installable Main Breaker (convertible load centers only): QOM2 Frame Size				
100	150-225	QOM2100VH*		7-85901-02195-7
125	150-225	QOM2125VH*		7-85901-02197-1
150	150-225	QOM2150VH	#4 - 300	7-85901-00405-9
175	200-225	QOM2175VH*		7-85901-84858-5
200	200-225	QOM2200VH		7-85901-00406-6
225	225	QOM2225VH		7-85901-00407-3
Field Installable Main Lugs (convertible load centers only)				
125	100-125	QOL125*	#6 - 2/0	7-85901-74796-3
200	150-225	QOL225*	#6 - 300	7-85901-74797-0

Product	Catalog #	UPC Code
High Amperage Breaker Enclosures		
Outdoor Enclosure with Factory Installed 200A Main Breaker (Replaces Q2E2200NRBCP)	QOM2E2200NRB	7-85901-37530-2
Outdoor Enclosure Only (100A to 225A QOM2 Main Breaker order separately)	QOM22225NRB	7-85901-32887-2
Indoor Surface Mount Enclosure Only (100A to 225A QOM2 Main Breaker order separately)	QOM22225NS*	7-85901-32886-5



QOM2E2200NRB

* Item may require additional lead time.

▲ Do not exceed the load center mains rating.

Load Centers

> Indoor Knockout Information and Enclosure Dimensions

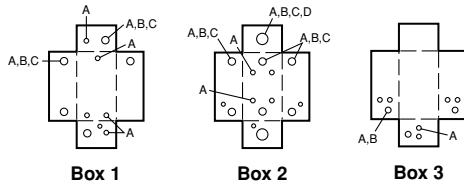
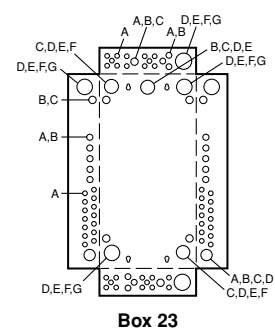
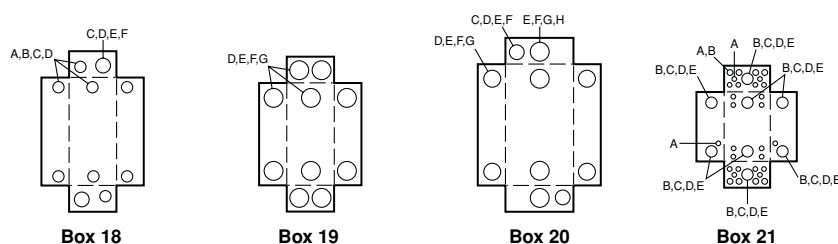
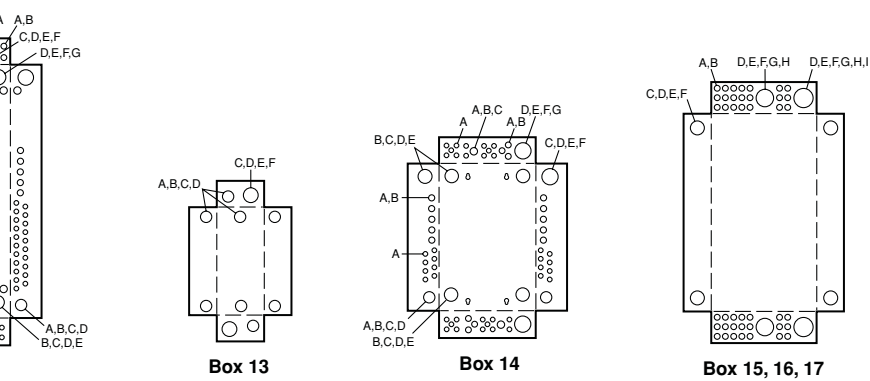
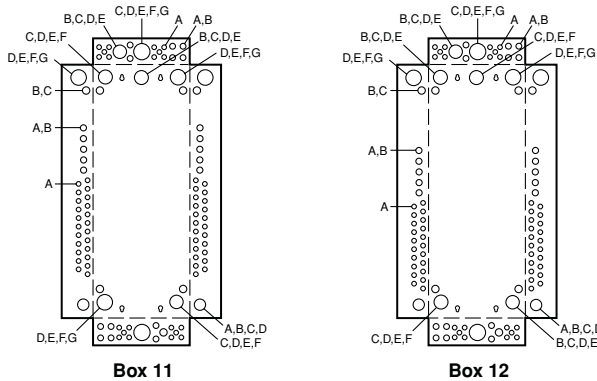
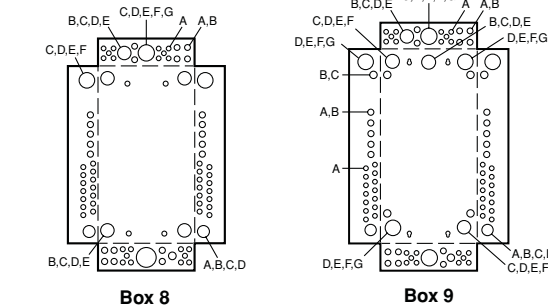
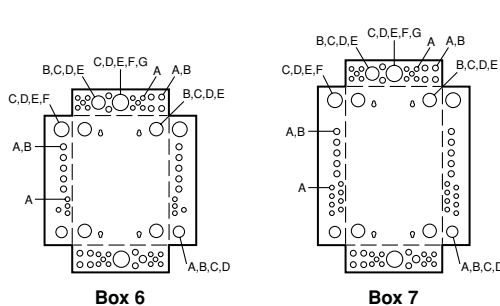
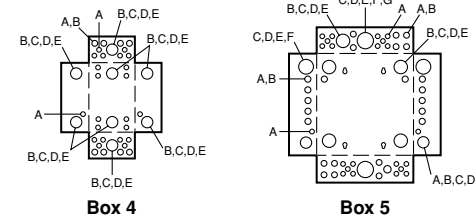


Table 1.46: Enclosure Dimensions

Dimensions							Dimensions						
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	13	5.88	149	13.12	333	3.38	86
2	4.81	122	9.30	236	3.19	81	14	14.25	362	20.92	531	3.75	95
3	4.81	122	9.30	236	3.19	81	15	20.00	508	50.00	1270	5.75	146
4	8.88	226	12.57	319	3.80	97	16	20.00	508	68.00	1727	5.75	146
5	14.25	362	14.92	379	3.75	95	17	20.00	508	53.00	1346	5.75	146
6	14.25	362	17.92	455	3.75	95	18	5.88	149	16.12	409	3.38	86
7	14.25	362	20.92	531	3.75	95	19	7.56	192	23.12	587	4.25	108
8	14.25	362	26.04	661	3.75	95	20	9.62	244	26.12	663	4.75	121
9	14.25	362	29.86	758	3.75	95	21	8.88	226	14.80	376	3.80	97
10	14.25	362	33.78	858	3.75	95	22	8.55	217	23.92	608	3.95	100
11	14.25	362	37.98	965	3.75	95	23	14.25	362	29.86	758	3.75	95
12	14.25	362	39.37	1000	3.75	95							

Table 1.47: Knockout Information

Knockouts									
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



> Rainproof Knockouts, Dimensions, Bolt-On Hubs Information

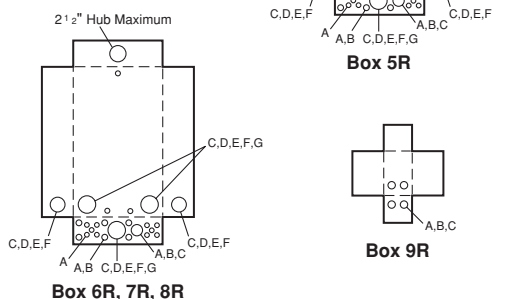
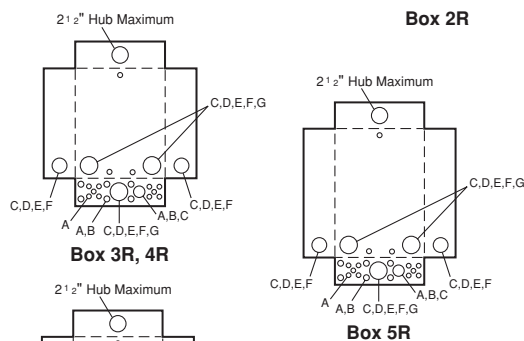
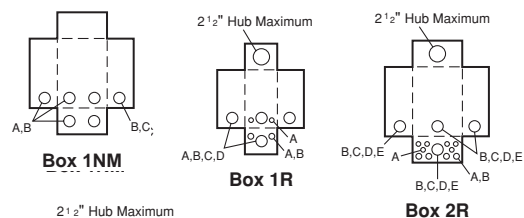


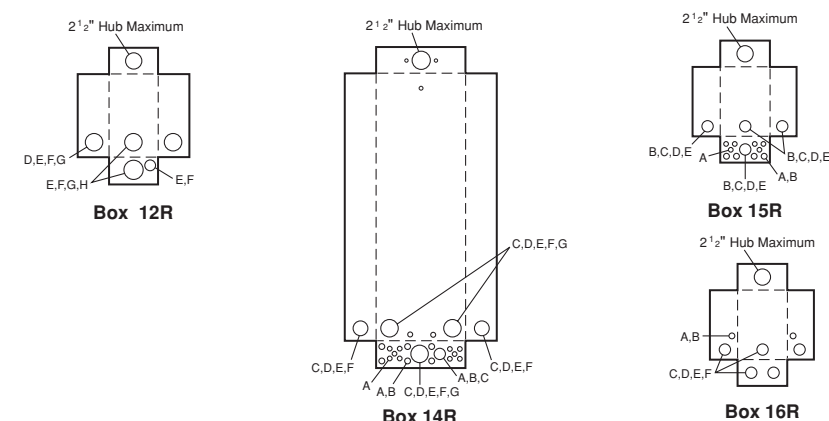
Table 1.48: Enclosure Dimensions

Box No.	Dimensions					
	W		H		D	
	in.	mm	in.	mm	in.	mm
1NM	6.52	166	8.79	223	3.90	99
1R*	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	14.75	375	22.06	560	4.52	115
5R	14.75	375	26.04	661	4.52	115
6R	14.75	375	29.86	758	4.52	115
7R	14.75	375	33.78	858	4.52	115
8R	14.75	375	37.98	965	4.52	115
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	14.80	376	4.27	108
16R	8.55	217	24.75	629	4.16	106

*HOME250SPA and QO260NATR top endwall has no hub opening.

Table 1.49: Knockout Information

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



Bolt-On Hubs

Square D equipment with "R" or "RB" suffix, designated NEMA 3R rainproof construction, utilizes bolt-on hubs listed below. "RB" devices will accept 3/4" through 2-1/2" 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 suffix "R" devices require 3" through 4" field cut opening. Hubs are suitable for use with conduit having ANSI standard taper pipe thread.

Table 1.50: Bolt-On Hubs UL Listed for "RB" Devices*

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

* Closing cap (Cat. No. BCAP) is provided factory-installed on each device having "RB" suffix.

Table 1.51: Bolt-On Hubs UL Listed for Mounting in Field-Cut Opening

Conduit Size	3 in.	3-1/2 in.	4 in.	Designed for mounting in field cut opening. Includes gasket and four mounting bolts and nuts.
Hub Cat. No.	B300	B350	B400	



QO Load Centers – Main Wire Sizes

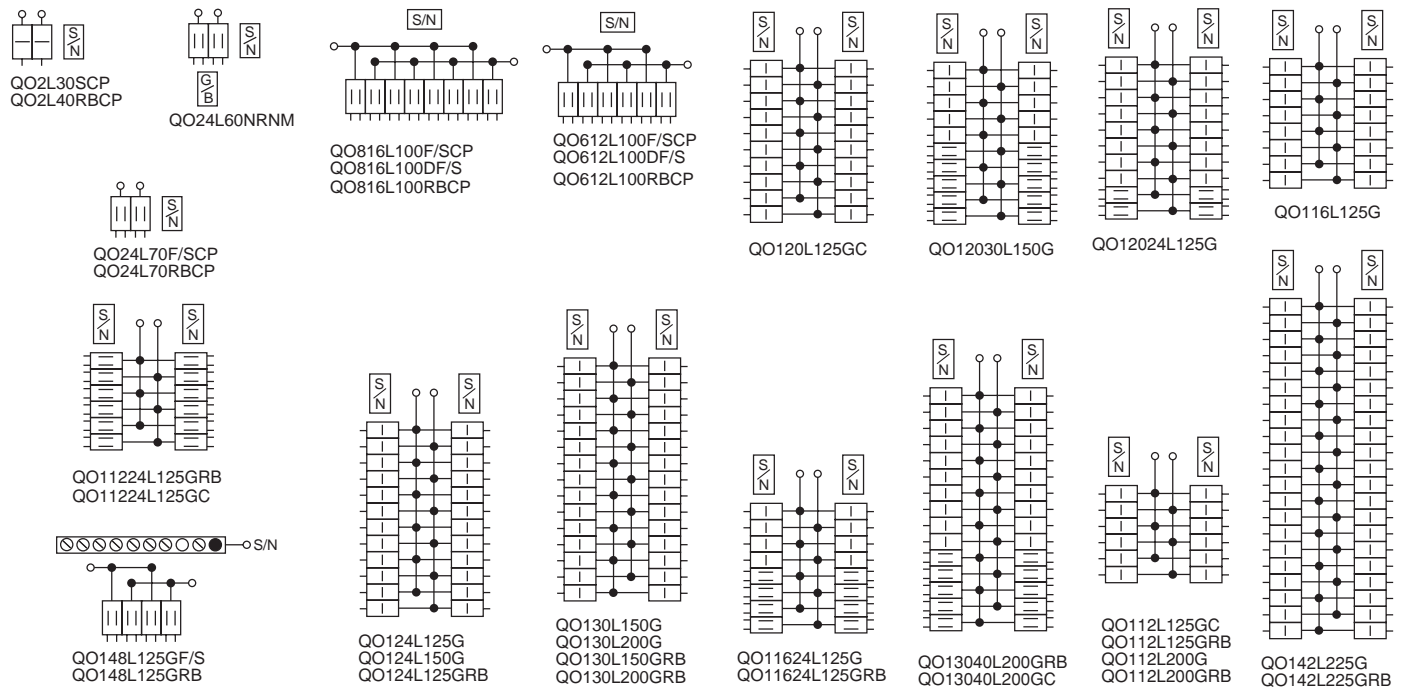
> 1-Phase 3-Wire Main Breakers

Main Breaker Load Centers	
Catalog Number	Main Wire Size AWG/kcmil (Al or Cu)
Indoor	
QO112M100C	#6 - 1
QO11220M100C	#6 - 2/0
QO116M100C	#6 - 1
QO120M100C	#6 - 1
QO124M100	#6 - 2/0
QO124M125	#6 - 2/0
QO12030M150C	#4 - 250
QO124M150	#4 - 250
QO130M150C	#4 - 250
QO12040M200C	#4 - 250
QO124M200	#4 - 250
QO130M200C	#4 - 250
QO13040M200C	#4 - 250
QO132M125C	#6 - 2/0
QO132M150	#4 - 250
QO140M200C	#4 - 250
QO140M225	#4 - 300
QO142M200	#4 - 300
Outdoor	
QO112M100RB	#6 - 2/0
QO116M100RB	#6 - 2/0
QO120M100RB	#6 - 2/0
QO124M125RB	#6 - 2/0
QO12030M150RB	#4 - 250
QO130M150RB	#4 - 250
QO12040M200RB	#4 - 250
QO130M200RB	#4 - 250
QO140M200RB	#4 - 250
Feed Thru	
QO1612M125FTRB	#6 - 2/0
QO1816M150FTRB	#4 - 250
QO1816M200FTRB	#4 - 250

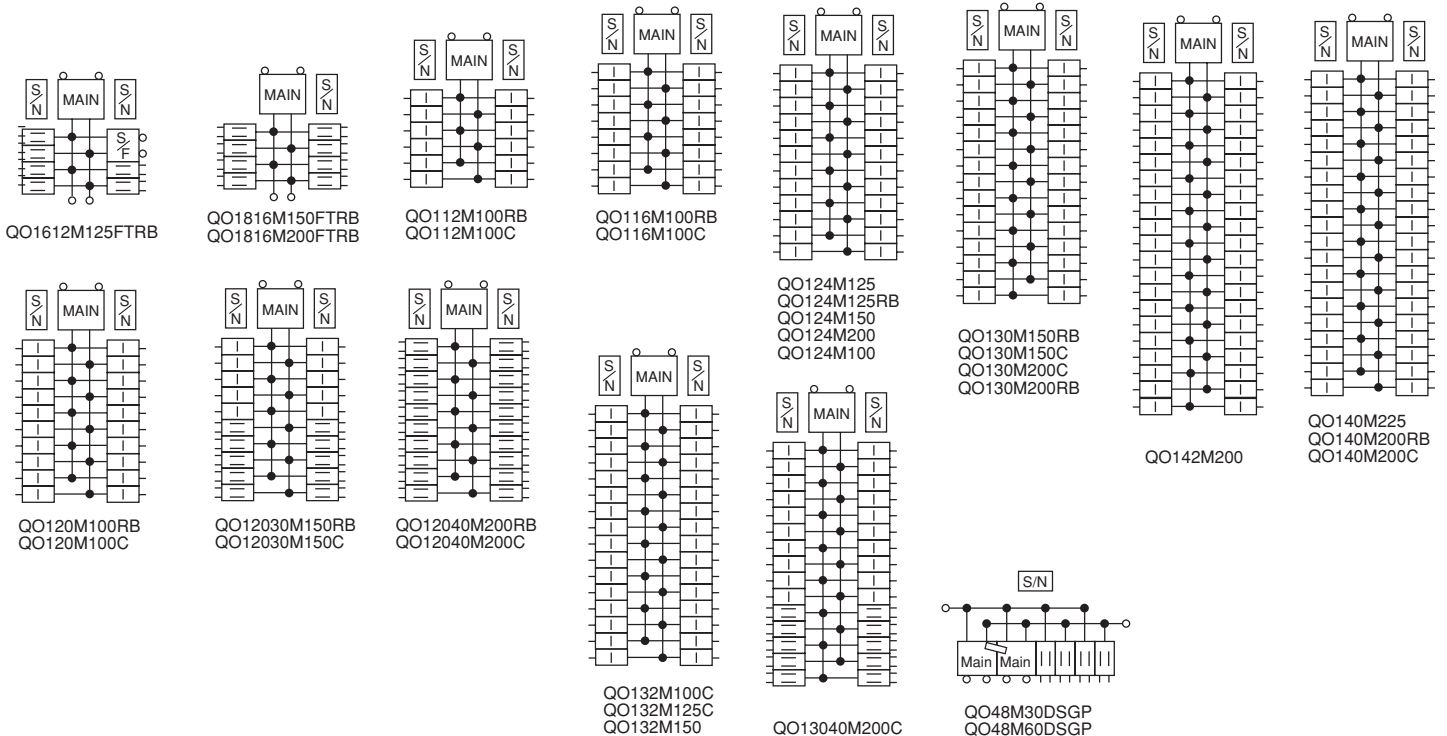
Main Lugs Load Centers	
Catalog Number	Main Wire Size AWG/kcmil (Al or Cu)
Indoor	
QO2L30SCP	#12 - 10 (Al) or #14 - 10 (Cu)
QO24L70FCP	#12 - 3 (Al) or #14 - 4 (Cu)
QO24L70SCP	#12 - 3 (Al) or #14 - 4 (Cu)
QO612L100FCP	#8 - #1
QO612L100DF	#8 - #1
QO612L100DS	#8 - #1
QO612L100SCP	#8 - #1
QO816L100FCP	#8 - #1
QO816L100DF	#8 - #1
QO816L100DS	#8 - #1
QO816L100SCP	#8 - #1
QO148L125GF	#14 - 2/0
QO148L125GS	#14 - 2/0
QO112L125GC	#6 - 2/0
QO11224L125GC	#6 - 2/0
QO116L125G	#6 - 2/0
QO11624L125G	#6 - 2/0
QO120L125GC	#6 - 2/0
QO12024L125G	#6 - 2/0
QO124L125G	#6 - 2/0
QO12030L150G	#6 - 250
QO124L150G	#6 - 250
QO130L150G	#6 - 250
QO112L200G	#6 - 250
QO130L200G	#6 - 250
QO13040L200GC	#6 - 250
QO142L225G	#6 - 300
Outdoor	
QO24L60NRNM	#14 - 4
QO2L40RBCP	#12 - 6 (Al) or #14 - 6 (Cu)
QO24L70RBCP	#12 - 3 (Al) or #14 - 4 (Cu)
QO612L100RBCP	#8 - 1
QO816L100RBCP	#8 - 1
QO148L125GRB	#14 - 2/0
QO112L125GRB	#6 - 2/0
QO11224L125GRB	#6 - 2/0
QO11624L125GRB	#6 - 2/0
QO124L125GRB	#6 - 2/0
QO130L150GRB	#4 - 250
QO112L200GRB	#4 - 250
QO130L200GRB	#4 - 250
QO13040L200GRB	#4 - 250
QO142L225GRB	#4 - 300

QO Load Centers – Wiring Diagrams

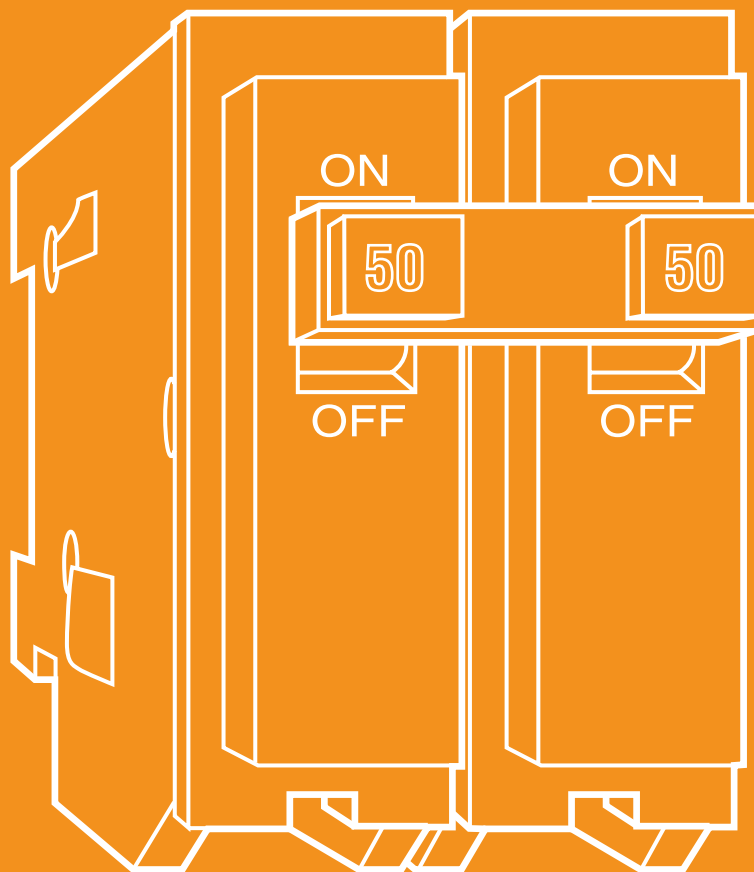
> 1-Phase 3-Wire Main Lugs



> 1-Phase 3-Wire Main Breakers



Homeline Circuit Breakers



> The Best In Class

Homeline Circuit Breakers are built with the same Square D brand quality you have come to expect at a price that makes them the best value in their class.

Homeline Circuit Breaker Features:

- Standard 1" format
- Trip thermally (in an overload situation) or magnetically (under a short circuit situation)
- Switching duty rating (SWD) on 15A and 20A single-pole breakers
- Quick make - quick break mechanism
- Available in convenient 10-packs
- Limited lifetime warranty (see page 58 for details)



Homeline circuit breakers are the best in class. Designed exclusively for the residential market, Homeline products offer everything you need to distribute electricity throughout your home. Homeline offers the same quality as the QO line with only slight modifications that are tailored to the residential market.

Homeline Circuit Breakers

1" Breaker Catalog Number Description

HOM	1	15	C
Brand	# of Poles	Amps	Clam Shell Packaging

"C" denotes clam shell packaging.

"CP" denotes bulk bar coded breakers.



Plug-On Circuit Breakers

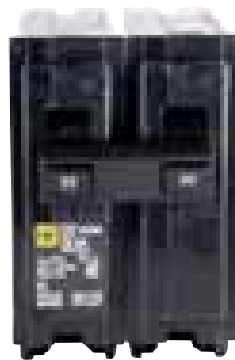
- UL Listed
- 120/240 Vac
- 10,000 AIR

Full Size 1" Breakers*

Amps	1-Pole Catalog #	UPC Code	2-Pole Catalog #	UPC Code
15	HOM115CP▲	0-47569-06270-4	HOM215CP	0-47569-06275-9
	HOM115C▲	0-47569-06287-2	HOM215C	0-47569-06292-6
20	HOM120CP▲	0-47569-06271-1	HOM220CP	0-47569-06276-6
	HOM120C▲	0-47569-06288-9	HOM220C	0-47569-07099-0
25	–	–	HOM225CP	0-47569-07160-7
30	HOM130CP	0-47569-06272-8	HOM230CP	0-47569-06277-3
	HOM130C	0-47569-06289-6	HOM230C	0-47569-07100-3
40	HOM140CP	0-47569-06273-5	HOM240CP	0-47569-06278-0
	HOM140C	0-47569-06290-2	HOM240C	0-47569-07101-0
50	HOM150CP	0-47569-06274-2	HOM250CP	0-47569-06279-7
	–	–	HOM250C	0-47569-07102-7
60	–	–	HOM260CP	0-47569-06280-3
	–	–	HOM260C	0-47569-07103-4
70	–	–	HOM270CP	0-47569-06281-0
80	–	–	HOM280CP	0-47569-06282-7
90	–	–	HOM290CP	0-47569-06283-4
100	–	–	HOM2100CP	0-47569-06285-8
	–	–	HOM2100C	7-85901-48242-0
125	–	–	HOM2125CP	0-47569-06286-5



HOM120



HOM230

- * UL listed as HACR type for use with air conditioning, heating and refrigeration equipment having motor group combinations and marked for use with HACR type circuit breakers.
- ▲ 15A to 20A tandem or quad tandem breakers are suitable for use with 60°C or 75°C conductors. 25A to 50A tandem or quad tandem are suitable for use with 75°C conductor only.

Homeline Circuit Breakers – Tandem



HOMT1520CP



HOMT2020240CP

Tandem Catalog Number Description

HOM	T	15	15
Brand	Tandem Breakers	1st Pole Amps	2nd Pole Amps

"C" denotes clam shell packaging.
"CP" denotes bulk bar coded breakers.



Plug-On Circuit Breakers

- UL Listed
- 120/240 Vac
- 10,000 AIR

Tandem Breakers* 1-Pole (120/240 Vac)

Amps		1-Pole Catalog #	UPC Code
1st Pole	2nd Pole		
15	15	HOMT1515CP	0-47569-07105-8
		HOMT1515C	0-47569-07107-2
15	20	HOMT1520CP	0-47569-40375-0
20	20	HOMT2020CP	0-47569-07106-5
		HOMT2020C	0-47569-07108-9

Quad Tandem Breakers* 2-Pole (120/240 Vac) 2 Spaces Required

Amps		2-Pole Catalog #	UPC Code
1st Pole	2nd Pole		
(2) 15	15	HOMT1515215	Special Order
	20	HOMT1515220CP	0-47569-07220-8
	30	HOMT1515230CP	0-47569-07221-5
	40	HOMT1515240CP	7-85901-39582-9
	50	HOMT1515250CP	7-85901-39583-6
(2) 20	20	HOMT2020220CP	0-47569-07222-2
	30	HOMT2020230CP	0-47569-07223-9
	40	HOMT2020240CP	7-85901-39584-3
	50	HOMT2020250CP	7-85901-39400-6

- * UL listed as HACR type for use with air conditioning, heating and refrigeration equipment having motor group combinations and marked for use with HACR type circuit breakers.
- ▲ 15A to 20A tandem or quad tandem breakers are suitable for use with 60°C or 75°C conductors. 25A to 50A tandem or quad tandem are suitable for use with 75°C conductor only.

Homeline Circuit Breakers – AFCI & CAFI

> New Technology Designed for Safety

Our Square D brand Arc Fault Circuit Interrupter (AFCI) is designed to detect arcs that are caused by damaged, aged or improperly used wires or cords and to disconnect the power. In addition, they can also detect overloads and short circuits.

Arc faults cannot be detected by standard circuit breakers or fuses and have been identified as an early event in the cause of many electrical fires. These electrical arcs may be as hot as 10,000°F and can easily ignite combustible materials located nearby such as wood frames, insulation, etc.

The Square D brand AFCIs will fit into our existing load centers and can be used as a direct replacement for standard Square D brand circuit breakers for remodeling or as direct installation items with the exception of ground fault circuit interrupters (GFCI).

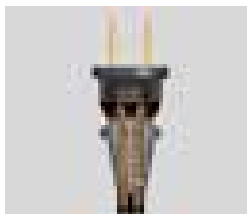
The 2008 National Electrical Code requires that combination AFCIs be installed on all circuits that supply a dwelling unit living area. Arc Faults can occur on any type of circuit where you may have wire that has deteriorated insulation or has been damaged (such as during pulling, service or installation) or in worn extension or appliance cords. For more information, visit www.SquareD.com/afci or www.afcिसafety.org.



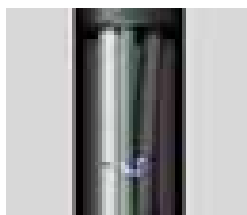
AFCI & CAFI Breakers

- UL Listed, CSA Approved
- 120/240 Vac
- 10,000 AIR
- AFI: Green Reset Button
- CAFI: White Reset Button

* "C" denotes clam shell packaging. All 15A and 20A single-pole arc fault circuit interrupters are UL listed and can be used on circuits requiring standard QO or Homeline circuit breakers. AFCI circuit breakers cannot be used on circuits requiring GFCI breakers.



Series Arc Fault



Parallel Arc Fault

Arc Fault Circuit Interrupters*

Amps	1-Pole Catalog #	UPC Code
15	HOM115AFIC	7-85901-30135-6
20	HOM120AFIC	7-85901-30136-3

Combination Arc Fault Circuit Interrupters*

Amps	1-Pole Catalog #	UPC Code
15	HOM115CAFIC	7-85901-63098-2
20	HOM120CAFIC	7-85901-47715-0

Homeline Circuit Breakers – GFCI

GFCI Catalog Number Description			
HOM	1	15	GFI
Brand	# of Poles	Amps	Ground Fault Circuit Interrupter



GFCI Breakers and Application Info

- UL Listed
- 10,000 AIR
- HOME250SPA
- Value Pack (see page 43)

GFCI Breakers: 1-Pole (120 Vac) and 2-Pole (120/240 Vac)				
Amps	1-Pole Catalog #	UPC Code	2-Pole Catalog #	UPC Code
15	HOM115GFICP	0-47569-07109-6	HOM215GFI*	7-85901-30319-0
20	HOM120GFICP	0-47569-07110-2	HOM220GFI*	7-85901-30320-6
30	–	–	HOM230GFI*	7-85901-30323-7
40	–	–	HOM240GFI*	7-85901-30346-6
50	–	–	HOM250GFI	7-85901-78357-2
	–	–	HOM250GFICP	7-85901-87589-5

Circuit Breaker Wire Sizes			
Breaker Type	Amp Rating	Wire Size (AWG)*	
		Aluminum	Copper
HOM – 1-Pole	15-30*	#14 - 8	(2) #14 - 10
	45-50*	#8 - 2	#8 - 2
HOM – 2-Pole	15-30*	#14 - 8	#14 - 8 or (2) #14 - 10
	35-70*	#8 - 2	#8 - 2
	80-125*	#4 - 2/0	#4 - 2/0
HOMT and QUAD	15-30▲	#14 - 8	#14 - 8
HOM-GFI – 1-Pole	15-20*	#14 - 10	#14 - 10
HOM-GFI – 2-Pole	15-50*	#12 - 4	#14 - 6



HOM120GFI



HOM240GFI

- * 15A to 30A circuit breakers are suitable for use with 60°C or 75°C conductors. 40A to 125A circuit breakers are suitable for use with 75°C conductors.
- ▲ 15A to 20A tandem or quad tandem circuit breakers are suitable for use with 60°C or 75°C conductors. 25A to 50A tandem or quad tandem circuit breakers are suitable for use with 75°C conductor only.
- ✦ Item may require additional lead time.

Homeline Load Centers



> Value by Design

Homeline load centers are the smart choice for value-minded contractors, remodelers, builders and homeowners. Feature for feature, Homeline panels outclass the competition.

Homeline Load Center Features:

- Straight-In mains design saves expensive cable and time
- Convertible mains let you meet changing job site requirements
- Interiors that remove easily, attached by a single captive screw that cannot be lost
- Split branch neutral with up to 50% more terminations than required
- Bus and interior assembly is among the most rugged in the industry
- Three ground bar mounting locations (left, right and end) let you pick the easiest spot to wire
- Optional 22,000/10,000 AIR standard series connected rating
- Tangential main service knockouts eliminate the need for service conduit offset, speeding installation
- Top or bottom feed can be accessed simply by rotating the load center
- Ten-year limited warranty (see page 58 for details)



Homeline load centers are the best in class. Designed exclusively for the residential market, Homeline products offer everything you need to distribute electricity throughout your home. Homeline offers the same quality as the QO line with only slight modifications that are tailored to the residential market.

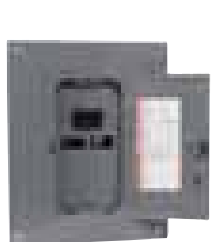
Homeline Load Centers – Main Breaker

Amps	Spaces	Max. Circuits	Cover	Catalog #	Ground Bar	UPC Code	Box Size
Indoor – QOM1 Main Breaker Frame Size							(see pg.18)
100	8	16	Combination	HOM816M100C	PK12GTA	7-85901-06131-1	3
	8	16	Combination	HOM816M100TC*	Installed	7-85901-07514-1	3
	12	12	Combination	HOM12M100C	PK12GTA	7-85901-06133-5	4
	12	24	Combination	HOM1224M100TC	Installed	7-85901-07515-8	4
	20	20	Combination	HOM20M100C	PK15GTA	7-85901-06135-9	5
	24	24	Combination	HOM24M100C	PK15GTA	7-85901-77113-5	5
	30	30	Combination	HOM30M100C	PK23GTA	7-85901-39486-0	9
125	12	24	Combination	HOM1224M125C*	PK15GTA	7-85901-10746-0	4
	12	24	Combination	HOM1224M125TC	Installed	7-85901-07651-3	4
	24	24	Combination	HOM24M125C	PK15GTA	7-85901-10783-5	5
	30	30	Combination	HOM30M125C	PK23GTA	7-85901-39487-7	9
Indoor – QOM2 Main Breaker Frame Size							(see pg.18)
150	16	32	Combination	HOM1632M150TC*	Installed	7-85901-08397-9	6
	20	30	Combination	HOM2030M150TC*	Installed	7-85901-82416-9	6
	30	30	Combination	HOM30M150C	PK23GTA	7-85901-06137-3	7
200	16	32	Combination	HOM1632M200TC	Installed	7-85901-08398-6	6
	20	40	Combination	HOM2040M200C	PK23GTA	7-85901-08400-6	6
	20	40	Combination	HOM2040M200TC*	Installed	7-85901-08399-3	6
	30	30	Combination	HOM30M200C	PK23GTA	7-85901-06139-7	7
	30	40	Combination	HOM3040M200TC	Installed	7-85901-07653-7	7
	40	40	Combination	HOM40M200C	PK23GTA	7-85901-07649-0	8
225	42	42	Combination	HOM42M225C*	PK23GTA	7-85901-82421-3	8
Outdoor – QOM1 Main Breaker Frame Size							(see pg.19)
100	8	16	Rainproof	HOM816M100RB	PK15GTA	7-85901-06132-8	3R
	12	12	Rainproof	HOM12M100RB	PK15GTA	7-85901-06134-2	3R
	20	20	Rainproof	HOM20M100RB	PK15GTA	7-85901-06136-6	4R
125	8	16	Rainproof	HOM816M125RB	PK15GTA-L	7-85901-64916-8	6R
	24	24	Rainproof	HOM24M125RB	PK15GTA	7-85901-62630-5	6R
Outdoor – QOM2 Main Breaker Frame Size							(see pg.19)
150	30	30	Rainproof	HOM30M150RB	PK23GTA	7-85901-06138-0	7R
200	20	40	Rainproof	HOM2040M200RB	PK23GTA	7-85901-82419-0	6R
	30	30	Rainproof	HOM30M200RB	PK23GTA	7-85901-07648-3	7R
	40	40	Rainproof	HOM40M200RB	PK23GTA	7-85901-07650-6	8R
Outdoor – Feed Thru (ideal for mobile homes and farm applications)							(see pg.19)
150	8	16	Rainproof	HOM816M150FTRB	PK15GTA-L	7-85901-08381-8	6R
200	8	16	Rainproof	HOM816M200FTRB	PK15GTA-L	7-85901-07654-4	6R



Main Circuit Breakers

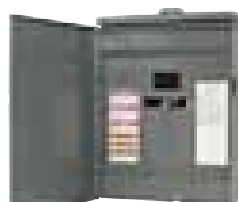
- UL Listed
- Single-Phase, 3-Wire
- 120/240 Vac
- 22,000 AIR*
- Cover Included
- Factory Installed Main Breaker
- Catalog Number Guide Page 17



HOM12M100C



HOM30M150RB



HOM1224M125RB



HOM3040M200C

Listings thru 200A mains meet Federal Specification W-P-115c as Type 1, Class 2.

■ Rated 200A when using copper wire. Reference NEC 310-16 Note 3 when using aluminum wire.

♦ 22,000 AIR main circuit breaker UL Listed for use ahead of HOM and HOMET 10,000 AIR branch breakers to permit their application systems with up to 22,000A available fault current.

* Item may require additional lead time.

Homeline Load Centers – Main Lugs



Main Lugs

- UL Listed
- Single-Phase, 3-Wire
- 120/240 Vac
- 10,000 AIR
- Factory Installed Main Lugs
- Cover Included
- Catalog Number Guide Page 17

Amps	Spaces	Max. Circuits	Cover	Catalog #	Ground Bar	UPC Code	Box Size
Indoor – Factory Installed Fixed Main Lugs							(see pg.18)
70	2	4	Flush	HOM24L70FCP■	PK3GTA-1	0-47569-07121-8	1
	2	4	Surface	HOM24L70SCP■	PK3GTA-1	0-47569-07120-1	1
100	6	12	Flush	HOM612L100FCP▲	PK7GTA	0-47569-07124-9	2
	6	12	Surface	HOM612L100SCP▲	PK7GTA	0-47569-07123-2	2
125	4	8	Combination	HOM48L125GC	Included	7-85901-48436-3	10
Indoor – QOM1 Main Frame Size: Convertible to 22,000 AIR Main Breaker							(see pg.18)
125	8	16	Combination	HOM816L125C	PK15GTA	7-85901-82404-6	4
	8	16	Combination	HOM816L125TC*	Installed	7-85901-82405-3	4
	12	12	Combination	HOM12L125C	PK15GTA	7-85901-82407-7	4
	12	24	Combination	HOM1224L125TC	Installed	7-85901-51598-2	4
	16	24	Combination	HOM1624L125C*	PK15GTA	7-85901-82409-1	5
	20	20	Combination	HOM20L125C	PK15GTA	7-85901-06125-0	5
	20	24	Combination	HOM2024L125TC	Installed	7-85901-51611-8	5
	24	24	Combination	HOM24L125TC	Installed	7-85901-10784-2	5
Indoor – QOM2 Main Frame Size: Convertible to 22,000 AIR Main Breaker							(see pg.18)
150	30	30	Combination	HOM30L150C	PK23GTA	7-85901-82414-5	7
200	30	30	Combination	HOM30L200C	PK23GTA	7-85901-06127-4	7
	30	40	Combination	HOM3040L200TC	Installed	7-85901-20900-3	7
	40	40	Combination	HOM40L200C	PK23GTA	7-85901-06129-8	8
225	42	42	Combination	HOM42L225C*	PK23GTA	7-85901-82415-2	8
Outdoor – Factory Installed Fixed Main Lugs							(see pg.19)
70	2	4	Rainproof	HOM24L70RBCP■	PK4GTA	0-47569-07122-5	1R
100	6	12	Rainproof	HOM612L100RBCP	PK7GTA	0-47569-07125-6	2R
125	4	8	Rainproof	HOM48L125GRB	Included	7-85901-48437-0	9R
Outdoor – QOM1 Main Frame Size: Convertible to 22,000 AIR Main Breaker							(see pg.19)
125	8	16	Rainproof	HOM816L125RB	PK15GTA	7-85901-82406-0	3R
	12	12	Rainproof	HOM12L125RB	PK15GTA	7-85901-82408-4	3R
	20	20	Rainproof	HOM20L125RB	PK15GTA	7-85901-06126-7	4R
Outdoor – QOM2 Main Frame Size: Convertible to 22,000 AIR Main Breaker							(see pg.19)
200	12	12	Rainproof	HOM12L200RB	PK23GTA	7-85901-10782-8	5R
	30	30	Rainproof	HOM30L200RB	PK23GTA	7-85901-06128-1	7R
	40	40	Rainproof	HOM40L200RB*	PK23GTA	7-85901-06130-4	8R



HOM1224L125TC

Listings thru 200A mains meet Federal Specification W-P-115c as Type 1, Class 2.

▲ 70A maximum branch circuit breaker, 100A maximum back feed main circuit breaker.

■ Use #10 maximum wire size for GFI circuit breaker.

* Item may require additional lead time.

Homeline Load Centers – Main Wire Sizes

Main Breaker Load Centers

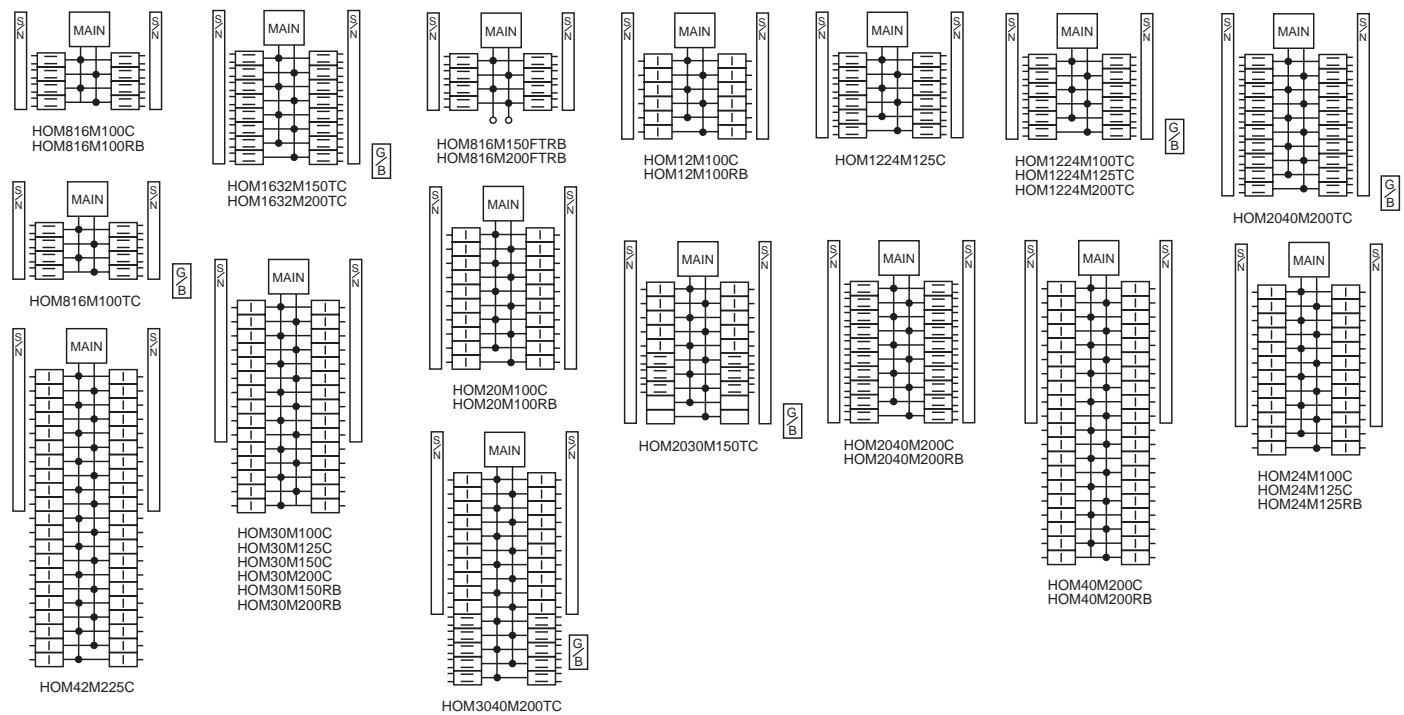
Catalog Number	Main Wire Size AWG/kcmil (Al or Cu)
Indoor	
HOM816M100C	#6 - 1
HOM816M100TC	#6 - 1
HOM12M100C	#6 - 2/0
HOM1224M100TC	#6 - 2/0
HOM20M100C	#6 - 1
HOM24M100C	#6 - 2/0
HOM30M100C	#6 - 2/0
HOM1224M125C	#6 - 2/0
HOM1224M125TC	#6 - 2/0
HOM24M125C	#6 - 2/0
HOM30M125C	#6 - 2/0
HOM1632M150TC	#4 - 250
HOM2030M150TC	#4 - 250
HOM30M150C	#4 - 250
HOM1224M200TC	#4 - 250
HOM1632M200TC	#4 - 250
HOM2040M200C	#4 - 250
HOM2040M200TC	#4 - 250
HOM30M200C	#4 - 250
HOM3040M200TC	#4 - 250
HOM40M200C	#4 - 250
HOM42M225C	#4 - 250
Outdoor	
HOM816M100RB	#6 - 1
HOM12M100RB	#6 - 2/0
HOM20M100RB	#6 - 2/0
HOM24M125RB	#6 - 2/0
HOM30M150RB	#4 - 250
HOM2040M200RB	#4 - 250
HOM30M200RB	#4 - 250
HOM40M200RB	#4 - 250
Feed Thru	
HOM816M150FTRB	#4 - 250
HOM816M200FTRB	#4 - 250

Main Lugs Load Centers

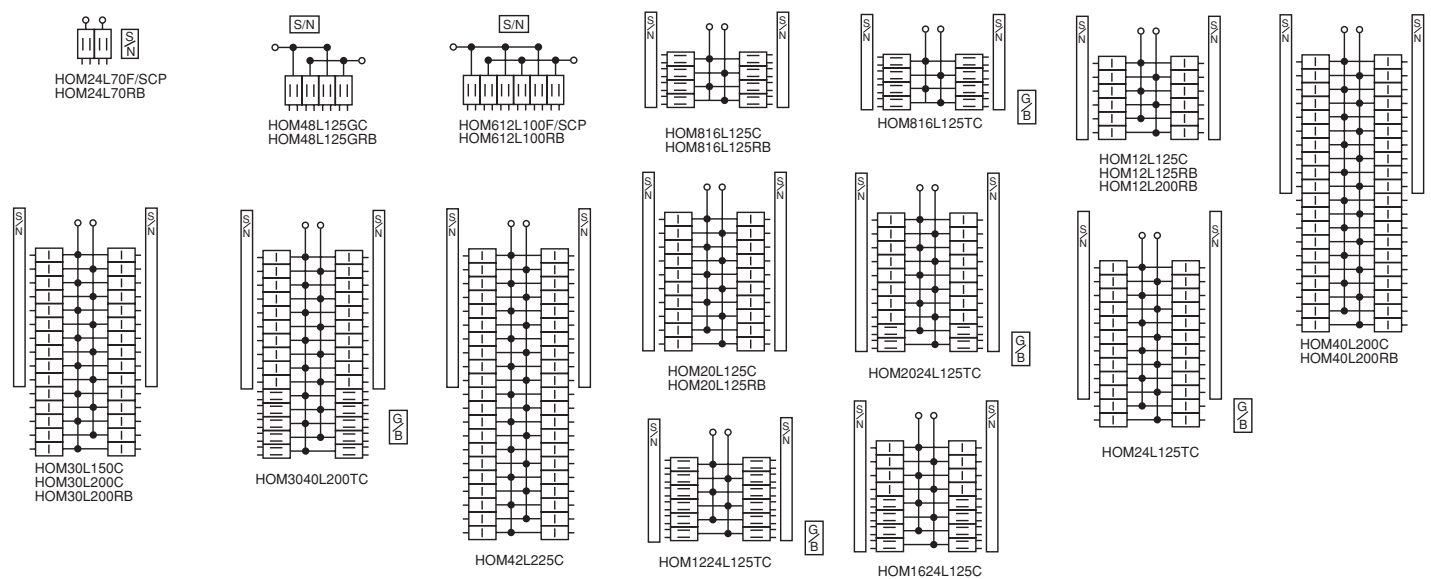
Catalog Number	Main Wire Size AWG/kcmil (Al or Cu)
Indoor	
HOM24L70FCP	#12 - 3 (Al) or #14 - 4 (Cu)
HOM24L70SCP	#12 - 3 (Al) or #14 - 4 (Cu)
HOM612L100FCP	#8 - 1
HOM612L100SCP	#8 - 1
HOM48L125GC	#14 - 2/0
HOM816L125C	#6 - 2/0
HOM816L125TC	#6 - 2/0
HOM12L125C	#6 - 2/0
HOM1224L125TC	#6 - 2/0
HOM1624L125C	#6 - 2/0
HOM20L125C	#6 - 2/0
HOM2024L125TC	#6 - 2/0
HOM24L125TC	#6 - 2/0
HOM30L150C	#4 - 250
HOM30L200C	#4 - 250
HOM3040L200TC	#4 - 250
HOM40L200C	#4 - 250
HOM42L225C	#4 - 250
Outdoor	
HOM24L70RB	#12 - 3 (Al) or #14 - 4 (Cu)
HOM612L100RB	#8 - 1
HOM48L125GRB	#14 - 2/0
HOM816L125RB	#6 - 2/0
HOM12L125RB	#6 - 2/0
HOM20L125RB	#6 - 2/0
HOM12L200RB	#4 - 250
HOM30L200RB	#4 - 250
HOM40L200RB	#4 - 250

Homeline Load Centers – Wiring Diagrams

> 1-Phase, 3-Wire Main Breakers

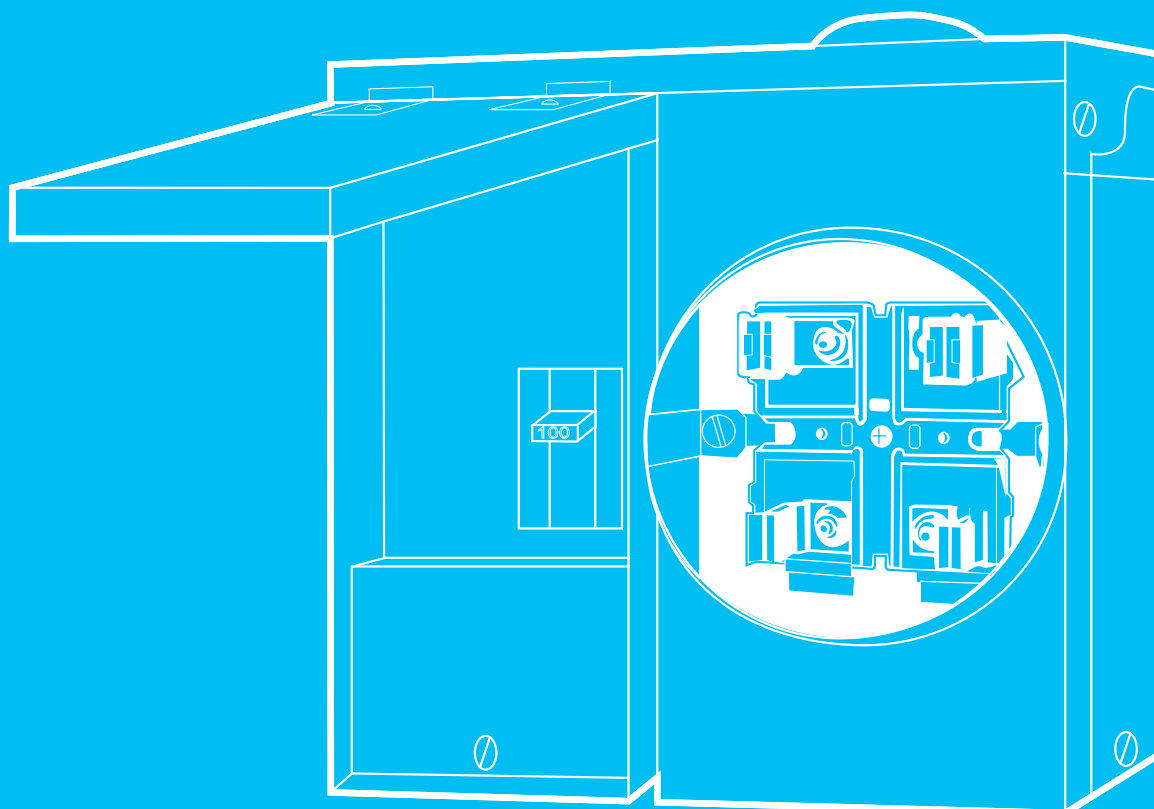


> 1-Phase, 3-Wire Main Lugs





CSED – Meter Mains, Metering Devices & All-In-Ones



Combination Service Entrance Devices (CSED)

> The Best Electrical Service Starts at the Meter Socket

Square D products offer the broadest, most complete line of combination service entrance devices (CSED) because electrical service for the home starts right at the meter socket.

CSED products fall into two categories:

- Meter mains that include the utility meter socket and factory installed or provisions for field installation of service disconnect(s) to feed downstream devices.
- All-in-ones include the utility meter socket, service disconnect(s) and integral load center in a single unit. Now available for overhead surface mount applications.



Our CSED line provides unsurpassed electrical protection, time and money-saving installation features and world-class quality that made Square D products famous.

CSED – Meter Mains

CSED Catalog Number Description

S	C	8	16	F	200	S
Socket Type	Service	Spaces	Circuits	Main Breaker	Amps	Enclosure

Ring Type Meter Mains – Surface Mount (except as noted)

Amp Rating	Service Feed	Hub Style [○]	Service Disconnect		Branch Breaker		Catalog #	UPC-A
			Type	Max Amps	Spaces	Circuits		
100	OH/UG	B	QOM100 [▲]	125	0	0	CQRB100CP [■]	0-47569-04402-1
125	OH/UG	B	QOM1-VH	125	0	0	C125RB [■]	Special Order
	OH/UG	A	(4) HOM (2-Pole only)	(1) 125 [●] (3) 100	0	0	SC8L125S [■]	7-85901-30880-5
	OH/UG	A or B300	(4) HOM (2-Pole only)	110	0	0	SC8L125F [■]	7-85901-11148-1
150	OH/UG	A or A-L	(1) HOM2150 [■]	150	(8) HOM	(16) HOM	SC816D150C ^{◆♦♦}	7-85901-85915-4
			(1) HOM (2-Pole only)	50				
200	OH [■] /UG	A-L	QOM2200VH [■]	200	(8) HOM	(16) HOM	SC816F200F ^{◆♦♦}	7-85901-37731-3
	OH/UG	A	QOM2200VH [■]	200	0	0	CQRA200 ^{◆♦}	0-47569-29180-7
			QOM2-VH	200	0	0	CM200S	7-85901-29176-3
			(6) HOM (2-Pole only)	200	0	0	SC12L200S ^{♦♦}	7-85901-37730-6
	OH [■] /UG	A-L	(6) HOM (2-Pole only)	200	0	0	SC12L200F ^{♦♦}	Special Order
	OH/UG	A-L	QOM2200VH [■]	200	(8) HOM	(16) HOM	SC816F200S ^{◆*}	7-85901-32866-7
		A or A-L	(1) HOM2200 [■] (1) HOM (2-Pole only)	200 50	(8) HOM	(16) HOM	SC816D200C ^{◆♦♦}	7-85901-85916-1
400	UG	A-L	(1)QDL22200 [■]	200	0	0	CU12L400CN	Special Order
			(1) QDL, QGL, QJL	200				
			(4) QOH	125				
			(1) QDL22200 [■]	200	0	0	CU12L400CB ^{♦♦♦}	7-85901-48666-4
			(1) QDL, QGL, QJL	200				
			(4) QOH	125				



Combination Service Entrance Devices (CSED)

- UL Listed
- Single-Phase, 3-Wire
- 120/240 Vac
- NEMA Type 3R Enclosure
- Catalog Number Guide pg. 36
- Suitable Only for Use as Service Equipment

- ▲ Order Type QOM1-VH replacement circuit breaker (10k).
- Order Type QOM2-VH replacement circuit breaker.
- Service Disconnect Supplied Factory Installed.
- ◆ Consumer product only (same as C200RB).
- * For use only on 120/240 Vac, Single-Phase, 3-Wire system.
- ▼ Knockout provided in cover for use with Barrel Lock Kit, order catalog number SCBRLOCK (see Accessories page).
- 125A Homeline double-pole circuit breaker can be installed in top position only. All other positions are limited to 100A max.
- Suitable for OH service with addition of Tunnel Kit (SCTK20). Order separately.
- ◆ Supplied with load side feed thru lugs for #6 AWG-250 kc mil (Al/Cu) conductors.
- * Convertible to semi-flush with SC200F flange kit (order separately).
- ▶ 10,000 short circuit current rating.
- * 22,000 short circuit current rating or UL short circuit current rating is equal to the lowest interrupting rating of any circuit breaker installed.
- ♦ Item may require additional lead time.



CQRB100



SC816D200C

CSED – Meter Mains

Ringless Type Meter Mains – Surface Mount (except as noted)

Amp Rating	Service Feed	Hub Style	Service Disconnect		Branch Breaker		Catalog #	UPC-A
			Type	Max Amps	Spaces	Circuits		
100	OH/UG	A	QOM2100VH■	100	(8) QO	(16) QO	QC816F100CH*P**	Special Order
			QOM2100VH■	100	(8) HOM	(16) HOM	RC816F100CH*P*	7-85901-40182-7
125	OH/UG	A	QOM2125VH■	125	(8) QO	(16) QO	QC816F125C*P*	7-85901-39097-8
			QOM2125VH■	125	(8) QO	(16) QO	QC816F125CH*P*	7-85901-40181-0
			QOM2125VH■	125	(8) HOM	(16) HOM	RC816F125CH*P*	7-85901-40183-4
			(4) HOM (2-Pole only)	125	0	0	RC8L125S**	7-85901-30883-6
150	OH/UG	A	QOM2150VH■	150	(8) HOM	(16) HOM	RC816F150C*P*	7-85901-85919-2
			QOM2150VH■	150	(8) HOM	(16) HOM	RC816F150CH*P*	7-85901-86394-6
			QOM2150VH■	150	(8) QO	(16) QO	QC816F150C*P*	7-85901-00105-8
200	OH/UG	A	(6) HOM (2-Pole only)	200	0	0	RC12L200C*	7-85901-86398-4
			(6) HOM (2-Pole only)	200	0	0	RC12L200CH*P**	7-85901-00104-1
			QOM2200VH■	200	(8) HOM	(16) HOM	RC816F200C*P*	7-85901-86392-2
			QOM2200VH■	200	(8) HOM	(16) HOM	RC816F200CH*P*	7-85901-86396-0
		A or B300	(1) HOM2200■	200	(8) HOM	(16) HOM	RC816D200CH*P**	7-85901-86397-7
			(1) HOM (2-Pole only)	50	0	0		
		A	QOM2-VH	200	0	0	RC200S**	7-85901-39318-4
			QOM2-VH	200	0	0	RC2M200S**	7-85901-39669-7
			QO-VH	50	0	0		
			(6) QO-VH (2-Pole only)	200	0	0	QC12L200C**	7-85901-00112-6
			(6) QO-VH (2-Pole only)	200	0	0	QC12L200CH*P**	7-85901-00113-3
			QOM2200VH■	200	(8) QO	(16) QO	QC816F200C*P*	7-85901-00106-5
			QOM2200VH■	200	(8) QO	(16) QO	QC816F200CH*P**	7-85901-00108-9



Combination Service Entrance Devices (CSED)

- UL Listed
- Single-Phase, 3-Wire
- 120/240 Vac
- NEMA Type 3R Enclosure
- Catalog Number Guide pg. 36
- Suitable Only for Use as Service Equipment

- ▲ Order Type QOM1-VH replacement circuit breaker (10k).
- Service disconnect supplied factory installed.
- ▼ Knockout provided in cover for use with Barrel Lock Kit, order catalog number SCBRLOCK (see accessories page).
- 125A Homeline double-pole circuit breaker can be installed in top position only. All other positions are limited to 100A max.
- ◇ Supplied with load side feed thru lugs for #6 AWG-250 kcmil (Al/Cu) conductors.
- ☆ Convertible to semi-flush with SC200F flange kit (order separately).
- ▮ Device supplied with barrel lock provisions factory installed.
- Supplied with horn bypass and fifth jaw factory installed.
- 10,000 short circuit current rating.
- * 22,000 short circuit current rating.
- * Item may require additional lead time.



QC816F150C



RC12L200C

CSED – All-In-Ones

CSED Catalog Number Description

S	C	16	24	M	100	S
Socket Type	Service	Spaces	Circuits	Main Breaker	Amps	Enclosure

Ring Type All-In-Ones – Surface Mount (except as noted)

Amp Rating	Service Feed	Hub Style	Service Disconnect		Branch Breaker		Catalog #	UPC-A
			Type	Max Amps	Spaces	Circuits		
100	OH/UG	A	HOM2100	100	(16) HOM	(24) HOM	SC1624M100S ¹	7-85901-30881-2
	OH/UG	A or B300	HOM2100	100	(16) HOM	(24) HOM	SC1624M100F ¹	7-85901-10779-8
	OH ²	A	HOM2100	100	(10) HOM	(20) HOM	SO1020M100S ¹	7-85901-32804-9
125	OH/UG	A	HOM2125	125	(16) HOM	(24) HOM	SC1624M125S ¹	7-85901-30882-9
	OH/UG	A or B300	HOM2125	125	(16) HOM	(24) HOM	SC1624M125F ¹	7-85901-10780-4
200	OH/UG	A-L	QOM2200VH	200	(20) HOM	(40) HOM	SC2040M200S ^{1,2}	7-85901-37729-0
	OH/UG	A or A-L	HOM2200	200	(20) HOM	(40) HOM	SC2040M200C ²	7-85901-85909-3
	OH ²	A	QOM2200VH	200	(20) HOM	(40) HOM	SO2040M200S ²	7-85901-32803-2
	OH/UG	A-L	QOM2200VH	200	(40) HOM	(40) HOM	SC40M200S ²	7-85901-89419-3
	OH/UG	A-L	QOM2200VH	200	(30) HOM	(40) HOM	SC3040M200S ²	7-85901-37728-3
	OH ² /UG	A-L	QOM2200VH	200	(20) HOM	(40) HOM	SC2040M200F ²	7-85901-10781-1
	OH ² /UG	A-L	QOM2200VH	200	(30) HOM	(40) HOM	SC3040M200F ²	7-85901-32863-6
	UG	A or B300	QOM2200VH	200	(30) HOM	(40) HOM	SU3040M200R ¹	7-85901-29190-9
225	UG	A or B300	QOM2225VH	225	(30) HOM	(40) HOM	SU3040M225R ¹	7-85901-75121-2
	OH ² /UG	A-L	QOM2225VH	225	(30) HOM	(40) HOM	SC3040M225F ^{1,2}	7-85901-32864-3
400	UG	A-L	QDL22200	200	(30) HOM	(40) HOM	SU3040D400CN ^{1,2}	7-85901-49140-8
			QDL, QGL, QJL ³	200	0	0		
	UG	A-L	QDL22200	200	(30) HOM	(40) HOM	SU3040D400CB ^{1,2}	7-85901-52179-2
			QDL, QGL, QJL ³	200	0	0		



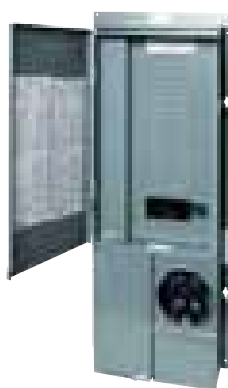
Combination Service Entrance Devices (CSED) All-In-Ones

- UL Listed
- Single-Phase, 3-Wire
- 120/240 Vac
- NEMA Type 3R Enclosure
- Catalog Number Guide pg. 36
- Service Disconnect(s) Supplied Factory Installed
- Suitable Only for Use as Service Equipment

- ¹ Suitable for OH service with addition of tunnel kit (SCTK20). Order separately.
- ² Suitable for OH service with addition of tunnel kit (SCTK30). Order separately.
- ³ Knockout provided in cover for use with barrel lock kit, order catalog number SCBRLOCK (see accessories page).
- ⁴ For use only on 120/240 Vac, Single-Phase, 3-Wire system (4-jaw meter socket).
- ⁵ 10,000 short circuit current rating.
- ⁶ 22,000 short circuit current rating.
- ⁷ Convertible to semi-flush with SC200F flange kit (order separately).
- ⁸ Item may require additional lead time.
- ⁹ Device not EUSERC approved.
- ¹⁰ UL short circuit current rating is equal to the lowest interrupting rating of any circuit breaker installed.
- ¹¹ Additional service disconnect for field-installation, order prefix QBL at 10kA, QDL at 25kA, QGL at 65kA or QJL at 100kA. Order separately.



SC1624M100F



SC3040M200F

CSED – All-In-Ones



Combination Service Entrance Devices (CSED) All-In-Ones

- UL Listed
- Single-Phase, 3-Wire,
- 120/240 Vac
- NEMA Type 3R Enclosure
- Catalog Number
- Guide Below
- Service Disconnect(s)
- Supplied Factory Installed
- Suitable Only for Use as Service Equipment



RC2040M200C

Ringless Type All-In-Ones – Surface Mount (except as noted)

Amp Rating	Service Feed	Hub Style	Service Disconnect		Branch Breaker		Catalog #	UPC-A
			Type	Max Amps	Spaces	Circuits		
100	OH/UG*	A	HOM2100	100	16 (HOM)	24 (HOM)	RC1624M100S**	7-85901-30884-3
125	OH/UG*	A	HOM2125	125	16 (HOM)	24 (HOM)	RC1624M125S**	7-85901-30885-0
	OH/UG*	A	QO2125VH	125	20 (HOM)	40 (HOM)	RC2040M125CH*○**	7-85901-00284-0
150	OH/UG*	A	QO2150VH	150	20 (HOM)	40 (HOM)	RC2040M150CH*○**	7-85901-87831-5
200	OH/UG*	A	QOM2200VH	200	20 (HOM)	40 (HOM)	RC2040M200C*○**	7-85901-19336-4
	OH/UG*	A	QOM2200VH	200	20 (HOM)	40 (HOM)	RC2040M200CH*○**	7-85901-84116-6
	OH/UG*	A	QOM2200VH	200	24 (QO)	42 (QO)	QC2442M200C*○**	7-85901-39668-0
	OH/UG*	A	QOM2200VH	200	24 (QO)	42 (QO)	QC2442M200CH*○**	7-85901-39678-9
400	UG	A-L	QDL22200●	200	30 (HOM)	40 (HOM)	RU3040D400CL*▼**	7-85901-44543-2
			QDL, QGL, QJL■▲	200	0	0		

▼ Additional service disconnect for field-installation, order prefix QBL at 10kA, QDL at 25kA, QGL at 65kA or QJL at 100kA. Order separately.

► Knockout provided in cover for use with barrel lock kit, order catalog number SCBRLOCK (see accessories page).

◇ Device not EUSERC approved.

☆ Device supplied with barrel lock provisions factory installed.

○ Supplied with horn bypass and fifth jaw factory installed.

! 10,000 short circuit current rating.

* 22,000 short circuit current rating.

★ Item may require additional lead time.

● Service disconnect supplied factory-installed.

■ Circuit breaker prefix QBL at 10,000 AIR may be used. For complete circuit breaker catalog number, see below.

▲ UL short circuit current rating is equal to the lowest interrupting rating of any circuit breaker installed.

CSED

> Catalog Number Logic System

R C 8 16 D 200 C H

Position 1 – Socket Type

“Q” = QO Ringless
 “R” = HOM Ringless
 “C” = QO Ring Type
 “S” = HOM Ring Type

Position 2 – Service Feed

Blank = Combination Overhead/Underground
 “C” = Combination Overhead/Underground
 “O” = Overhead Only
 “U” = Underground Only

Position 3 – Spaces

Service Disconnects or Branches
 Maximum # of Single-Pole Spaces

Position 4 – Circuits

Maximum # of Single-Pole Circuits

Position 5 – Interior

“D” = Dual Main Service Disconnects
 (feed-thru lugs on 100A to 200A only)
 “F” = Single Main Service Disconnect with Feed-Thru Lugs
 “L” = Main Lug Interior (service disconnects field installed)
 “M” = Single Main Service Disconnect

Position 8 – Meter Socket Bypass Type

“H” = Horn Bypass
 “K” = K-4 Bolt-on, No Bypass
 “L” = Class 320 with Lever Bypass
 “N” = Class 320 No Bypass
 “B” = Class 320 Test Block Bypass
 Blank = No Bypass

Position 7 – Enclosure Mounting Style

“C” = Surface Mount or
 Convertible to Semi-Flush
 (with appropriate flange kit)
 “F” = Semi-Flush Mount Only
 “R” = Reverse Mount Only
 “RB” = Surface Mount Only with
 “B” Hub Provisions in
 Top Endwall
 “S” = Surface Mount Only
 Blank = 300A/400A Only Surface
 Convertible to Semi-Flush
 with Flange Kit

Position 6 – Amperage Rating

CSED – Metering Devices



> Individual and Horizontal Ganged Meter Sockets

Individual sockets available in ring or ringless type, single- or three-phase, 600 Vac maximum with and without horn or lever bypass, overhead and underground service feeds.

Horizontal ganged meter sockets available in ring or ringless type, single-phase, 600 Vac maximum, main lugs only, two to six meter positions, with and without horn or lever bypass, end or center feed, overhead and underground service feeds.

This metering is generally utility specific. Always check with local utility company before installing. Contact local Square D representative for additional catalog numbers.

Ring Type

- 10,000 RMS Symmetrical Amps Short Circuit Current Rating
- UL Listed, NEMA Type 3R Enclosure
- Units Supplied with Bonded Neutral
- Units Supplied with Hub Opening in TOP Endwall Require the Use of a Bolt-On Hub or Closing Plate

Ringless Type

- 10,000 RMS Symmetrical Amps Short Circuit Current Rating
- UL Listed, NEMA Type 3R Enclosure
- Units Supplied with Bonded Neutral
- Units Supplied with Hub Opening in TOP Endwall Require the Use of a Bolt-On Hub or Closing Plate
- Units Supplied with Solid TOP are for Underground Feed Only

	Amps	# of Positions	Jaw Qty.	Service Type	Catalog #	UPC Code
Ring Type – Individual (Check with local Utility for appropriate catalog number)						
Single-Phase, 3-Wire 600 Vac Max., without Bypass	125	–	4	OH/UG	URTRS101B [¶]	7-85901-62764-7
	200	–	4	OH/UG	URTRS213B [¶]	0-47569-29113-5
Ringless Type – Individual						
Single-Phase, 3-Wire 600 Vac Max., without Bypass	125	–	4	OH	UTRS101B	7-85901-62663-3
	200	–	4	OH/UG	UTRS213B [¶]	7-85901-62766-1
Single-Phase, 3-Wire 600 Vac Max., with Horn Bypass	125	–	4	OH/UG	UHTRS101B [¶]	7-85901-91163-0
	200	–	4	OH/UG	UHTRS213B [¶]	7-85901-91167-8
Single-Phase, 3-Wire 600 Vac Max., with Lever Bypass and Jaw Release	200	–	4	OH/UG	UTH4213T [¶]	7-85901-62768-5
	200	–	5	OH/UG	UTH5213T [¶]	7-85901-62782-1
Ringless Type – Horizontal Ganged Meter Sockets						
Single-Phase, 3-Wire 600 Vac Max., without Bypass	100	2	4	OH/UG	UT2R1121B ^{¶*}	7-85901-29120-6
	200	2	4	OH/UG	UT2R2122B ^{¶*}	7-85901-29124-4



UHTRS101B



UTRRS101B



UTRS213B

- ¶ Device supplied with stainless steel, snap-on sealing ring (cat. # ARP00026).
- ¶ When unit is installed for underground feed, the appropriate closing plate must be ordered separately and installed over the hub opening in TOP endwall of device.
- * Item may require additional lead time.

CSED – Application Info

> Circuit Breakers & Accessories

Table 1.54: Circuit Breakers for use with Meter Mains and All-In-One devices

Ampere Rating*	Type: HOM, 1P	Type: HOM, 2P	Type: QO, 1P	Type: QO, 2P	Type: QO-VH, 1P	Type: QO-VH, 2P
	Cat. No.	Cat. No.	Cat. No.	Cat. No.	Cat. No.	Cat. No.
10	—	—	QO110	—	—	—
15	HOM115	—	QO115	—	QO115VH	—
20	HOM120	—	QO120	—	QO120VH	—
25	HOM125	—	QO125	—	QO125VH	—
30	HOM130	HOM230	QO130	QO230	QO130VH	QO230VH
35	—	HOM235	QO135	QO235	—	—
40	HOM140	HOM240	QO140	QO240	—	QO240VH
45	—	HOM245	QO145	QO245	—	—
50	HOM150	HOM250	QO150	QO250	—	QO250VH
60	—	HOM260	QO160	QO260	—	QO260VH
70	—	HOM270	QO170	QO270	—	QO270VH
80	—	HOM280	—	QO280	—	QO280VH
90	—	HOM290	—	QO290	—	QO290VH
100	—	HOM2100	—	QO2100	—	QO2100VH
110	—	HOM2110	—	QO2110	—	QO2110VH
125	—	HOM2125	—	QO2125	—	QO2125VH
150	—	HOM2150BB	—	QO2150	—	QO2150VH
175	—	HOM2175BB	—	QO2175	—	QO2175VH
200	—	HOM2200BB	—	QO2200	—	QO2200VH

Ampere Rating*	Type: QOM1-VH, 2P	Type: QOM2-VH, 2P	Type: QDL, 2P*
	Cat. No.	Cat. No.	Cat. No.
50	QOM50VH*	—	—
60	QOM60VH	—	—
70	QOM70VH	—	QDL22070
80	QOM80VH	—	QDL22080
90	QOM90VH	—	QDL22090
100	QOM100VH	QOM2100VH	QDL22100
110	QOM110VH	—	QDL22110
125	QOM125VH	QOM2125VH	QDL22125
150	—	QOM2150VH	QDL22150
175	—	QOM2175VH	QDL22175
200	—	QOM2200VH	QDL22200
225	—	QOM2225VH	—

* Do not exceed mains rating of device

⦿ Reference National Electrical Code Article 230-79.

* For additional interrupting rating circuit breakers, order circuit breaker prefix QBL at 10 kA, QGL at 65 kA or QJL at 100 kA.

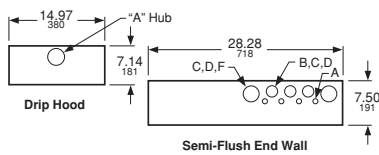
Table 1.55: Accessories, Hubs and Closing Plates

Accessories	
Description	Cat. No.
Generator Kit: Interlocks main service disconnect and generator circuit breaker (order separately). For : • Homeline CSED Devices RC816F-, RC2040M-, SO2040M- • QO CSED Devices QC816F-, QC2442M-	RCGK2 QCGK3
Fifth Jaw Kit for: Meter Main Types: C, RC, SC, QC All-In-One Types: SC, SU (100–225 A), QC, RC, SO	5J
Bypass (Horn Type) for Ringless Type Meter Mains and All-In-Ones (100–200 A) (except for RC200S and RC2M200S)	RCHB2
Lexan Meter Socket Cover Plate for: • Ring and Ringless Type Meter Mains • Ring and Ringless Type All-In-Ones	29007
Meter Socket Sealing Rings for Ring Type Meter Mains and All-In Ones: • Snap Type Aluminum (Std.) • Screw Type Aluminum • Snap Type Stainless Steel	2920910001 29008W ARP00026
Anti-Inversion Kit . For use ONLY on 400 A Meter Mains and All-In-Ones with lever bypass.	MMLRK
Trim Kit for 2 in. X 6 in. stud wall, used with Reverse All-In-Ones, SU3040M200R, and SU3040M225R	SU2X6TRIM
Barrel Lock Kit (Barrel Lock not included), supplied with bracket and mounting screw, refer to listings for where used.	SCBRLLOCK
Semiflush Flange Kit for: Meter Mains: SC816D150/200C and RC816D200CH All-In-Ones: SC2040M200C	SC200F
Semiflush Flange Kit for ring- and ringless-type Meter Mains and All-In-Ones (400 A Only)	FK400
Ringless Type Utility Cover for RU3040D400CL/FL, QU12L400CL/FL, and QU816D400CL/FL. Includes one piece meter socket and pull box cover with handles and closing plate.	R400L
Lug Kit includes (4) lugs, for use with 2 AWG–600 kcmil Al/Cu conductors. Lugs are for standard 2-Hole mounting. Meter Main and All-In-One units supplied with (2) studs per phase and neutral will accept one lug per phase and neutral. Not for use on 400 A devices with "K" suffix.	CMECLK4
Overhead Feed Trough for 400 A ring- and ringless-type Meter Mains and All-In-Ones.	OCK400
3 in. Conduit Adapter Kit for 400 A ring- and ringless-type Meter Mains and All-In-Ones.	SU400PVCHA3
Touch-Up Paint (ASA49 Gray)	PK49SP
Ground Bar Kit, Meter Mains and All-In-Ones QC, RC, and SC (100–225 A)	PK15GTA
Filler Plate for: Meter Main Types: QC, CU All-In-One Types: QC	QOFP
Filler Plate for: Meter Main Types: RC, SC All-In-One Types: SC, RC, SU	HOMFP
Neutral Lug (6-2/0 AWG) for: Meter Main Types: RC, SC, QC All-In-One Types: SC, SU, QC, RC	LK100AN

Hubs and Closing Plates		
Hub Series	Conduit Size (inches)	Cat. No.
Closing Plate for "A" Hub opening		ACP
A	1.00	A100
	1.25	A125
	1.50	A150
	2.00	A200
Adapter plate to allow use of "A" Hubs on "A-L" size hub openings		A250
Closing Plate for "A-L" Hub opening		AAP
A-L	2.00	ACPL
	2.50	A200L*
	3.00	A250L
	3.50	A300L
Closing Plate for "B" Hub opening	4.00	A350L
	4.00	A400L
B	0.75	BCAP
	1.00	B075
	1.25	B100
	1.50	B125
	1.50	B150
	2.00	B200
B300	2.50	B250
	3.00	B300

* Supplied with AAP adapter plate and "A" hub.

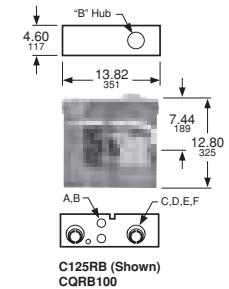
> Knockouts, Dimensions



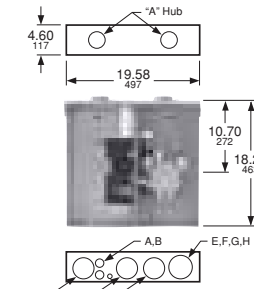
- ▲ Driphood supplied factory-installed and is required for surface mount installation. For semi-flush installation, remove driphood and install flange kit SC200F (order separately).
- Unit supplied with blank top endwall (factory-installed) for surface mount installation. For semi-flush installation, install flange kit FK400 (order separately). Kit includes replacement top endwall (with knockouts) and flanges.
- ◆ Unit supplied with semi-flush top endwall factory-installed and semi-flush flanges factory included.

Table 1.56: Knockouts

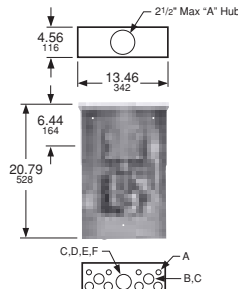
Symbol	A	B	C	D	E	F	G	H	I	J
Conduit Size (in.)	1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	3-1/2	4



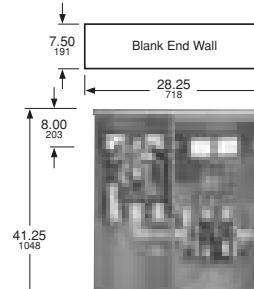
**C125RB (Shown)
CQRB100**



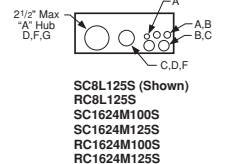
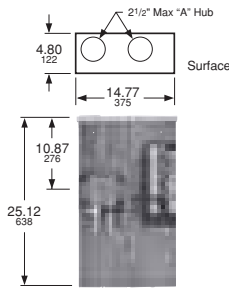
**Ring Type:
CM200S
C2M200S (Shown)
C4L200S**



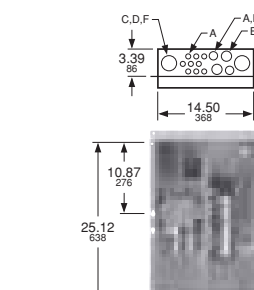
SO1020M100S



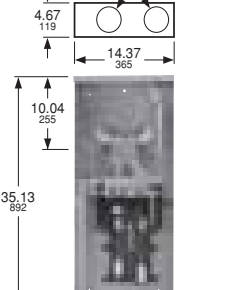
Blank End Wall



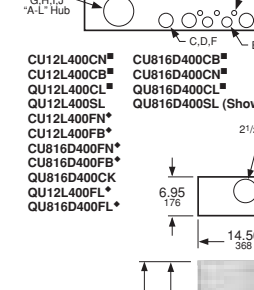
**SC8L125S (Shown)
RC8L125S
SC1624M100S
SC1624M125S
RC1624M100S
RC1624M125S**



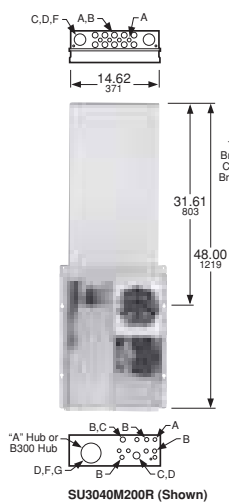
**SC8L125F (Shown)
SC1624M100F
SC1624M125F**



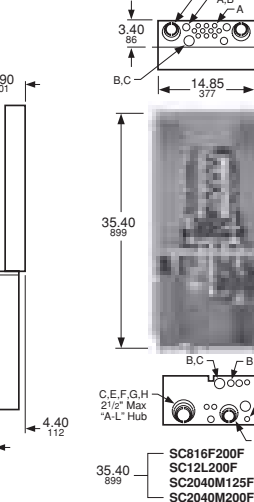
**RC816F100CH
RC816F125CH
RC816F150C/CH
RC816F200C/CH
RC12L200C/CH
RC204M125CH
RC204M150CH
RC204M200C/CH**



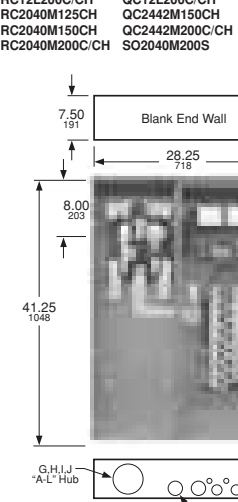
**CU12L400CN
CU12L400CB
CU12L400CL
QU12L400SL
CU12L400FN*
CU12L400FB*
CU816D400FN*
CU816D400FB*
QU816D400CK
QU12L400FL*
QU816D400FL***



**SU3040M200R (Shown)
SU3040M225R**



**SC816F200F
SC12L200F
SC204M125F
SC204M200F (Shown)
SC3040M200F
SC3040M225F**



**SU3040D400CB (Shown)
RU3040D400CL
RU3040D400CK
SU3040D300FB*
SU3040D400FB*
SU3040D400FN*
SU3040D300CB*
SU3040D400CN*
RU3040D400FL*
RU3040D400FK***



**SC816D150C* (Shown)
SC816D200C*
SC204M200C*
RC816D200CH*
SC12L200S
SC816F150S
SC816F200S
SC40M200S
SC204M200S (Shown)
SC3040M200S**

CSED – Wire Size

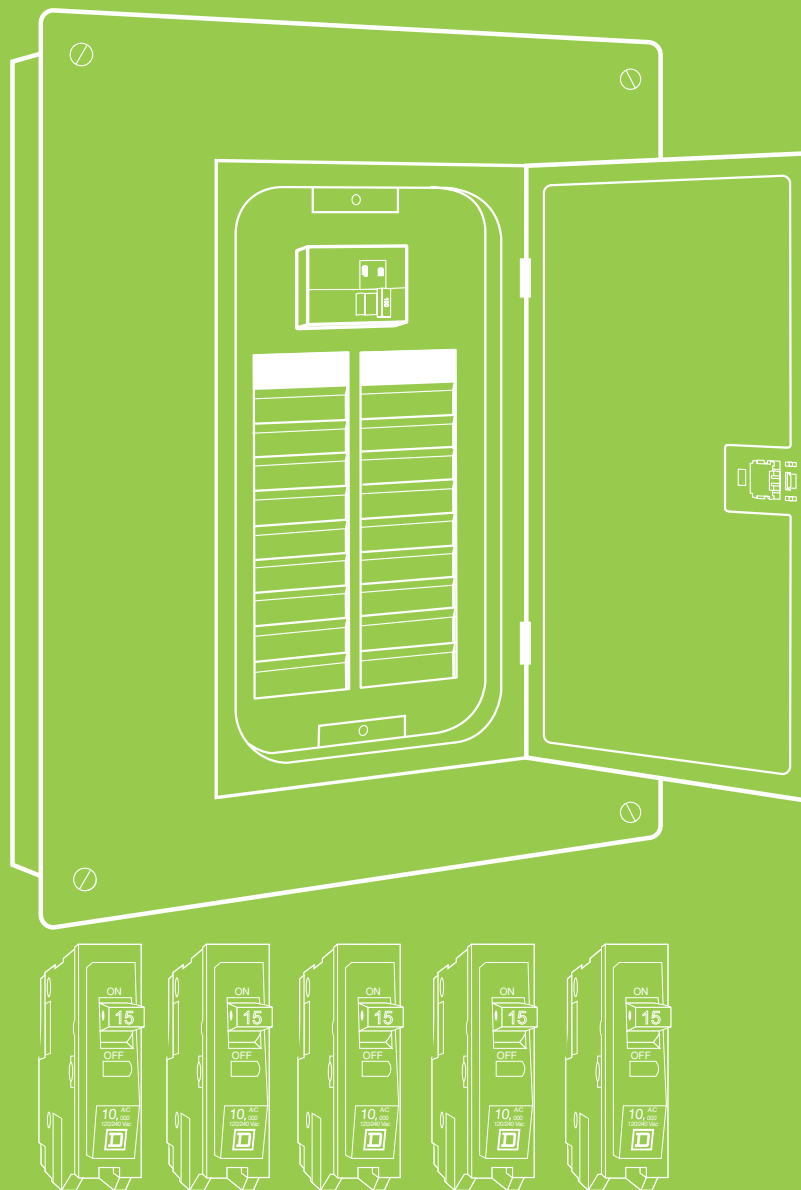
> Meter Mains

Catalog #	Line Side Phase and Neutral Lugs AWG/kcmil (Al/Cu)	Service Ground Lug AWG/kcmil (Al/Cu)	Feed Through Lugs AWG/kcmil (Al/Cu)	Bypass Type
C125RB	(1) #4 - 1/0	(1) #8 - 1/0	–	–
CM200S	(1) #4 - 250	(2) #8 - 2/0	–	–
C2M200S	(1) #4 - 250	(2) #8 - 2/0	–	–
C4L200S	(1) #4 - 250	(2) #8 - 2/0	–	–
CU12L400CN	(2) Studs	#4 - 250	–	–
CU12L400CB	(2) Studs	#4 - 250	–	Class 320 Manual
CU816D400CN	(2) Studs	#4 - 250	–	–
CU816D400CB	(2) Studs	#4 - 250	–	Class 320 Manual
SC8L125S	(1) #6 - 2/0	(1) #12 - 4	–	–
SC12L200S	(1) #4 - 250	(1) #12 - 2/0	–	–
SC8L125F	(1) #6 - 2/0	(1) #12 - 2/0	–	–
SC12L200F	(1) #4 - 250	(1) #12 - 2/0	–	–
SC816F200F	(1) #4 - 250	(1) #12 - 2/0	#6 - 250	–
SC816F150S	(1) #4 - 250	(1) #12 - 2/0	#6 - 250	–
SC816D150C	(1) #6 - 300	(1) #12 - 1/0	#6 - 250	–
SC816F200S	(1) #4 - 250	(1) #12 - 2/0	#6 - 250	–
SC816D200C	(1) #6 - 300	(1) #12 - 1/0	#6 - 250	–
RC200S	(1) #6 - 350	(2) #8 - 2/0	–	–
RC2M200S	(1) #6 - 350	(2) #8 - 2/0	–	–
RC2M200SH	(1) #6 - 350	(2) #8 - 2/0	–	Horn
QC12L200C	(1) #6 - 350	(1) #12 - 2/0	–	–
QC12L200CH	(1) #6 - 350	(1) #12 - 2/0	–	Horn
QC816F100CH	(1) #6 - 350	(1) #12 - 2/0	#6 - 250	Horn
QC816F125C	(1) #6 - 350	(1) #12 - 2/0	#6 - 250	–
QC816F125CH	(1) #6 - 350	(1) #12 - 2/0	#6 - 250	Horn
QC816F150C	(1) #6 - 350	(1) #12 - 2/0	#6 - 250	–
QC816F150CH	(1) #6 - 350	(1) #12 - 2/0	#6 - 250	Horn
QC816F200C	(1) #6 - 350	(1) #12 - 2/0	#6 - 250	–
QC816F200CH	(1) #6 - 350	(1) #12 - 2/0	#6 - 250	Horn
QU12L400CL	(2) Studs	#4 - 250	–	Class 320 Lever
QU12L400SL	(2) Studs	#4 - 250	–	Class 320 Lever
QU816D400CL	(2) Studs	#4 - 250	#6 - 250	Class 320 Lever
QU816D400SL	(2) Studs	#4 - 250	#6 - 250	Class 320 Lever
RC8L125S	(1) #6 - 2/0	(1) #12 - 4	–	–
RC12L200C	(1) #6 - 350	(1) #12 - 2/0	–	–
RC12L200CH	(1) #6 - 350	(1) #12 - 2/0	–	Horn
RC816F100CH	(1) #6 - 350	(1) #12 - 2/0	#6 - 250	Horn
RC816F125CH	(1) #6 - 350	(1) #12 - 2/0	#6 - 250	Horn
RC816F150C	(1) #6 - 350	(1) #12 - 2/0	#6 - 250	–
RC816F150CH	(1) #6 - 350	(1) #12 - 2/0	#6 - 250	Horn
RC816F200C	(1) #6 - 350	(1) #12 - 2/0	#6 - 250	–
RC816F200CH	(1) #6 - 350	(1) #12 - 2/0	#6 - 250	Horn
RC816D200CH	(1) #6 - 300	(1) #6 - 1/0	#6 - 250	Horn

> All-In-Ones

Catalog #	Line Side Phase and Neutral Lugs AWG/kcmil (Al/Cu)	Service Ground Lug AW/kcmil (Al/Cu)	Feed Through Lugs AWG/kcmil (Al/Cu)	Bypass Type
SC1624M100S	(1) #6 - 2/0	(1) #12 - 4	—	—
SC1624M125S	(1) #6 - 2/0	(1) #12 - 4	—	—
SC2040M200S	(1) #4 - 250	(1) #12 - 2/0	—	—
SC2040M200C	(1) #6 - 300	(1) #12 - 1/0	—	—
SC1624M100F	(1) #6 - 2/0	(1) #12 - 2/0	—	—
SC1624M125F	(1) #6 - 2/0	(1) #12 - 2/0	—	—
SC2040M200F	(1) #4 - 250	(1) #12 - 2/0	—	—
SC3040M200F	(1) #4 - 250	(1) #12 - 2/0	—	—
SC3040M225F	(1) #4 - 250	(1) #12 - 2/0	—	—
SO1020M100S	(1) #6 - 1	(1) #14 - 4	—	—
SO2040M200S	(1) #6 - 350	(1) #8 - 2/0	—	—
SC3040M200S	(1) #4 - 250	(1) #12 - 2/0	—	—
SC40M200S	(1) #4 - 250	(1) #12 - 2/0	—	—
SU3040M200R	(1) #6 - 300	(1) #12 - 1/0	—	—
SU3040M225R	(1) #6 - 300	(1) #12 - 1/0	—	—
SU3040D300CB	(2) Studs	(1) #4 - 250	—	Class 320 Manual
SU3040D400CN	(2) Studs	(1) #4 - 250	—	—
SU3040D400CB	(2) Studs	(1) #4 - 250	—	Class 320 Manual
RC1624M100S	(1) #6 - 2/0	(1) #12 - 4	—	—
RC1624M125S	(1) #6 - 2/0	(1) #12 - 4	—	—
RC2040M125CH	(1) #6 - 350	(1) #12 - 2/0	—	Horn
RC2040M150CH	(1) #6 - 350	(1) #12 - 2/0	—	Horn
RC2040M200C	(1) #6 - 350	(1) #12 - 2/0	—	—
RC2040M200CH	(1) #6 - 350	(1) #12 - 2/0	—	Horn
RU3040D400CL	(2) Studs	#4 - 250	—	Class 320 Lever
RU3040D400CK	(2) Studs	#4 - 250	—	K-4 Bolt-On
QC2442M150CH	(1) #6 - 350	(1) #12 - 1/0	—	Horn
QC2442M200C	(1) #6 - 350	(1) #12 - 1/0	—	—
QC2442M200CH	(1) #6 - 350	(1) #12 - 1/0	—	Horn

Value Packs



> Offer Add-on Sales

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, Homeline and Combination Service Entrance Device (CSED) products.

Value Packs

Catalog #	Description	UPC Code	Order #	Image
HOME250SPA	1 – HOM24L50R Homeline 50A 2 Space/4 Circuit Max. Main Lug Load Center 1 – HOM250GFI Homeline 50A Double-Pole Ground Fault Circuit Interrupter	7-85901-23054-0	23054	
HOMVP12M100CBP4	1 – HOM12M100C Homeline 100A 12 Space/12 Circuit Max. Main Breaker Load Center 5 – HOM115 Homeline 15A Single-Pole Circuit Breakers	7-85901-37912-6	37912	
HOM20M100CBP2	1 – HOM20M100C Homeline 100A 20 Space/20 Circuit Max. Main Breaker Load Center 5 – HOM115 Homeline 15A Single-Pole Circuit Breakers 1 – HOM230 Homeline 30A Double-Pole Circuit Breaker	7-85901-37913-3	37913	
HOM24M100VP (replaces HOMVP5)	1 – HOM24M100C Homeline 100A 24 Space/24 Circuit Max. Main Breaker Load Center 3 – HOM120 Homeline 20A Single-Pole Circuit Breakers 2 – HOM230 Homeline 30A Double-Pole Circuit Breakers	7-85901-47799-0	47799	
HOM1224L125VP (replaces HOMVPL2)	1 – HOM1224L125TC Homeline 125A 12 Space/24 Circuit Max. Main Lug Load Center with Equipment Ground Bar Kit 2 – HOM120 Homeline 20A Single-Pole Circuit Breakers	7-85901-61009-0	61009	
HOM1224M125RBVP (replaces HOM816M125RBVP)	1 – HOM1224M125RB Homeline 125A 12 Space/24 Circuit Max. Rainproof Main Breaker Load Center 3 – HOM120 Homeline 20A Single-Pole Circuit Breakers 2 – HOM230 Homeline 30A Double-Pole Circuit Breakers	7-85901-66618-9	66618	
HOM3040M150VP (replaces HOMVP12)	1 – HOM3040M150C Homeline 150A 30 Space/30 Circuit Max. Main Breaker Load Center 3 – HOM120 Homeline 20A Single-Pole Circuit Breakers 1 – HOM230 Homeline 30A Double-Pole Circuit Breaker	7-85901-92127-1	92127	

Value Packs

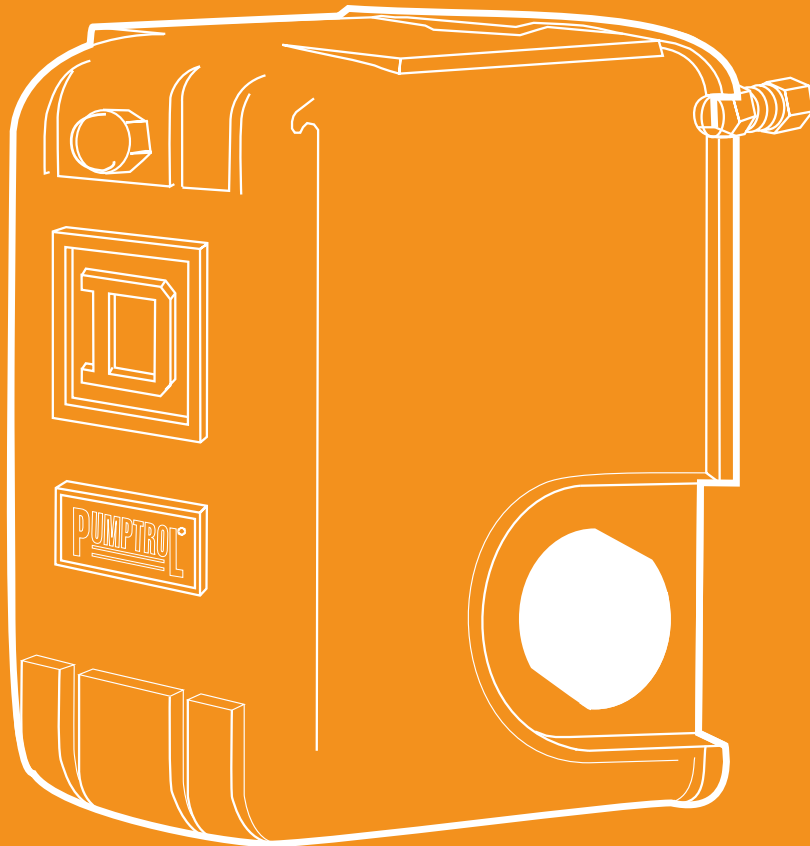
Catalog #	Description	UPC Code	Order #	Image
HOM2040M200VP (replaces HOMVP16)	1 – HOM2040M200TC Homeline 200A 20 Space/40 Circuit Max. Main Breaker Load Center with Equipment Ground Bar Kit 3 – HOM120 Homeline 20A Single-Pole Circuit Breakers 2 – HOM230 Homeline 30A Double-Pole Circuit Breakers	7-85901-67958-5	67958	
HOM3040L200VP (replaces HOMVPL1)	1 – HOM3040L200TC Homeline 200A 30 Space/40 Circuit Max. Main Lug Load Center with Equipment Ground Bar Kit 3 – HOM120 Homeline 20A Single-Pole Circuit Breakers 2 – HOM230 Homeline 30A Double-Pole Circuit Breakers	7-85901-40172-8	40172	
HOM3040M200EPVP	1 – HOM3040M200EP Homeline 200A 30 Space/40 Circuit Max. Main Breaker Load Center 3 – HOM120 Homeline 20A Single-Pole Circuit Breakers 2 – HOM230 Homeline 30A Double-Pole Circuit Breakers	7-85901-54177-6	54177	
HOM3040M200VP (replaces HOMVP1, HOMVP9 and HOMVP14)	1 – HOM3040M200TC Homeline 200A 30 Space/40 Circuit Max. Main Breaker Load Center with Equipment Ground Bar Kit 3 – HOM120 Homeline 20A Single-Pole Circuit Breakers 2 – HOM230 Homeline 30A Double-Pole Circuit Breakers	7-85901-49068-5	49068	
HOM3040M200RBVP (replaces HOMVPRB1)	1 – HOM3040M200RB Homeline 200A 30 Space/ 40 Circuit Max. Rainproof Main Breaker Load Center 3 – HOM120 Homeline 20A Single-Pole Circuit Breakers 2 – HOM230 Homeline 30A Double-Pole Circuit Breakers	7-85901-66606-6	66606	
HOM40M200VP (replaces HOMVP15)	1 – HOM40M200C Homeline 200A 40 Space/40 Circuit Max. Main Breaker Load Center with Equipment Ground Bar Kit 3 – HOM120 Homeline 20A Single-Pole Circuit Breakers 2 – HOM230 Homeline 30A Double-Pole Circuit Breakers	7-85901-83169-3	83169	
QOE250GFIMM	1 – QO24L60NRNM QO 60A 2 Space/4 Circuit Max. Non-Metallic Main Lug Load Center 1 – QO250GFI QO 50A Double-Pole Ground Fault Circuit Interrupter	7-85901-38950-7	38950	
QO32M100VP (replaces QOVP2)	1 – QO132M100C QO 100A 32 Space/32 Circuit Max. Main Breaker Load Center 3 – QO120 QO 20A Single-Pole Circuit Breakers 2 – QO230 QO 30A Double-Pole Circuit Breakers	7-85901-87965-7	87965	

Catalog #	Description	UPC Code	Order #	Image
QO3040M200VP (replaces QOVP1 and QOVP10)	1 – QO13040M200C QO 200A 30 Space/40 Circuit Max. Main Breaker Load Center 3 – QO120 QO 20A Single-Pole Circuit Breakers 2 – QO230 QO 30A Double-Pole Circuit Breakers	7-85901-69267-6	69267	
SO1020VP	1 – SO1020M100S 100A 10 Space/20 Circuit Max. All-In-One Overhead Service Feed and Integral Ring-Type Meter Socket 3 – HOM120 Homeline 20A Single-Pole Circuit Breakers 1 – HOMT2020 Homeline 20A Single-Pole Tandem Circuit Breaker	7-85901-39642-0	39642	
SO2040VP	1 – SO2040M200S 200A 20 Space/40 Circuit Max. All-In-One Overhead Service Feed and Integral Ring-Type Meter Socket 4 – HOM120 Homeline 20A Single-Pole Circuit Breakers 1 – HOMT2020 Homeline 20A Single-Pole Tandem Circuit Breaker 1 – HOM230 Homeline 30A Double-Pole Circuit Breaker 1 – HOM250 Homeline 50A Double-Pole Circuit Breaker	7-85901-39643-7	39643	
RC2040M200CGP Generator Panel	1 – RC2040M200C 200A 20 Space/40 Circuit Max. All-In-One Overhead/Underground Service Feed and Integral Ringless-Type Meter Socket 1 – HOM230 Homeline 30A Double-Pole Circuit Breaker 1 – HOMCGK2C Homeline Indoor Generator Interlock Kit	7-85901-48190-4	48190	
CSEDVP1	1 – SC3040M200S 200A 30 Space/40 Circuit Max. All-In-One CSED Load Center 2 – HOM115 Homeline 15A Single-Pole Circuit Breakers 5 – HOM120 Homeline 20A Single-Pole Circuit Breakers 1 – HOM250 Homeline 50A Double-Pole Circuit Breaker	7-85901-88408-8	88408	

> Obsolete Value Packs

Catalog #	Description	UPC Code	Order #	Catalog #	Description	UPC Code	Order #
HOMVP1	HOM3040M200C 5-HOM120 1-HOM230	0-47569-79877-1	79877	HOMVPL1	HOM3040L200C 6-HOM115 6-HOM120	7-85901-40172-8	40172
HOMVP5	HOM20M100C 5-HOM120	0-47569-88407-8	88407	HOMVPL2	HOM1224L125C 5-HOM120	7-85901-32722-6	32722
HOMVP9	HOM3040M200C 6-HOM115 6-HOM120	7-85901-88411-8	88411	HOMVPRB1	HOM2040M200RB 6-HOM115 6-HOM120	7-85901-40170-4	40170
HOMVP12	HOM30M150C 5-HOM120 1-HOM230	7-85901-40171-1	40171	HOM816M125RB-VP	HOM816M125RB 3-HOM120 1-HOM120	7-85901-19517-7	19517
HOMVP14	HOM3040M200C 12-HOM120 1-HOM230	7-85901-33047-9	33047	QOVP1	QO13040M200C 5-QO120	7-85901-33450-7	33450
HOMVP15	HOM40M200C 10-HOM120	7-85901-29601-0	29601	QOVP2	QO132M100C 5-QO120	7-85901-33451-4	33451
HOMVP16	HOM2040M200C 5-HOM120 1-HOM230	7-85901-29618-8	29618	QOVP10	QO13040M200C 10-QO120	7-85901-26473-6	26473

Control Switches



> Float and Pressure Switches

For over 65 years, our Square D brand Pumptrol® FSG Pressure Switches have been used to monitor and control electrically driven water pumps. A long-time industry standard, you can trust that Square D brand switches will do the necessary job every time.



Square D introduced the FSG water pump switch in 1947. Today many more Square D brand switches are installed on pumps than any other switch available on the market.

Switches - Float

Sump or Open Tank Style – Type FG

Catalog #	UPC Code	Type	Description
9036FG	Special Order		Universal kit which includes switch, plastic center hole float, rod and attaching hardware
9036FG30	Special Order	Switch only	Contacts close on liquid rise 2-pole NEMA 1
9049A60	Special Order	Float	Plastic center hole float
9049A61	Special Order	Tubing	33.75 inch aluminum rod, 2 float stop assemblies and attaching hardware

Sump or Open Tank Style – Type DG, GG

Catalog #	UPC Code	Type	Description	Force up to trip	Force down to Trip	Level Position
9036DG2*	Special Order	Switch only	Contacts close on liquid Rise	9 oz.	8 oz.	n/a
9036DG2R	7-85901-57643-3	Switch only	Contacts open on liquid rise; universal float and rod kit consists of 1-7"	9 oz.	8 oz.	n/a
9036GG2*	Special Order	Switch only	Contacts close on liquid rise; top tapped 304 stainless steel float, 2-2½'	33 (21) oz.	39 (27) oz.	short, (long)
9036GG2R*	Special Order	Switch only	Contacts open on liquid rise; brass rods with connector and 2-stop collars	34 (21) oz.	40 (27) oz.	short, (long)
9049A6*	Special Order	Tapped-at-Top	#304 SS float; 5' brass tubing and two stops	–	–	–
9049A6S	Special Order	Floats	#304 SS float; 5' SS tubing and two stops	–	–	–
9049A6C	Special Order	Center-Hole	#304 SS float; 5' brass tubing and four stops	–	–	–
9049A6CS	Special Order	Floats	#304 SS float; 5' SS tubing and four stops	–	–	–
9049T1	Special Order	Additional Tubing	2½' brass tubing with connector	–	–	–
9049T1S	Special Order	Additional Tubing	2.5 foot SS tubing with connector	–	–	–



Pumptrol Float Switches Class 9036

• Pedestal Style

Type FG30

- Designed for liquid level control with electric motor operated pumps either directly or through a magnetic starter
- Can also be used to activate alarms in liquid level control systems
- Upward or downward movement of the lever arm of the Class 9036 Type FG30 float switch controls the ON and OFF positions corresponding to the water level changes required to turn the pump or alarm on and off

• Sump or Open Tank Type DG, GG

- Double-pole rated
- 2 HP @ 115 Vac and 3 HP @ 230 Vac
- Designed for automatic control of liquid level in open sumps or tanks handling small motor loads directly or through a starter
- NEMA Type 1 Indoor Enclosure
- Type GG – heavier duty for light commercial and industrial applications



9036DG2



9036GG2



9036FG

* Item may require additional lead time.

Switches - Float

Closed Tank – Screw-in Style – Type HG

Catalog #	UPC Code	Description	Float Position▲	Float Rod Angle	Approx. Water Level Change (Field Adjustable)	
					Minimum	Maximum
9037HG33*	Special Order	Contacts close on liquid rise	Right	45° offset	2"	5"
9037HG32	Special Order		Left	90° offset	2"	11½"
9037HG31	Special Order	Contacts close on liquid rise	Right	90° offset	2"	11½"
9037HG30	Special Order		Left	90° offset	2"	8¼"

Closed Tank – Flange Mount Style – Type EG

Catalog #	UPC Code	Description	Post Length
9037EG8	Special Order	For minimum water level change	2⅝"
9037EG9	Special Order	For maximum water level change	2⅝"



Pumptrol Float Switches Class 9037

• Closed Tank-Type HG

- NEMA Type 1 Indoor Enclosure
- Double-pole rated
- 2 HP @ 115 Vac and 3 HP @ 230 Vac
- Type HG switch is attached to tank by means of 2½" screw connection
- Switches come complete with stainless steel float and rod
- Buna N Quad-Ring® seal is used between the float rod and sealing connector
- Can withstand tank pressures up to 50 PSIG at temperatures up to 220°F

• Closed Tank-Type EG

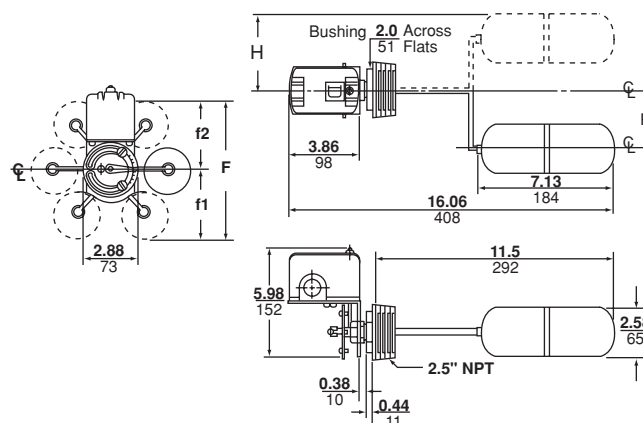
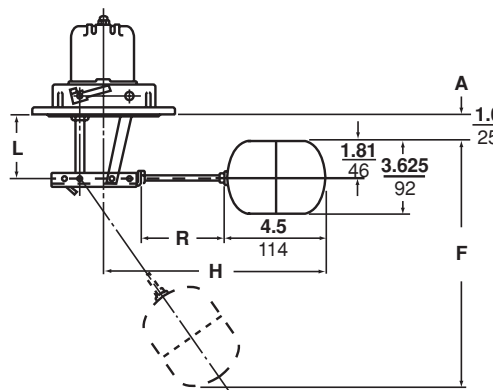
- NEMA Type 1 Indoor Enclosure
- Double-pole rated
- 2 HP @ 115 Vac 3 HP @ 230Vac
- Switches are flange mounted and float movement is transmitted through a stuffing box
- Can be built up to meet exact requirements from the basic switch, float rod and float groups
- Switch may be assembled in the field to give contacts that open on liquid rise or close on liquid rise

* Item may require additional lead time.

▲ Viewed from front of switch facing indicator scale.

QUAD-RING® is a registered trademark of Minnesota Rubber Co.

VITON® is a registered trademark of DuPont Co.



9037EG



9037HG



Switches – Pressure



Class 9013 Type FSG

Single-phase electrical ratings

- FSG:
1.5 HP @ 115 Vac
2 HP @ 230 Vac
- FRG:
1 HP @ 115 Vac
1 HP @ 230 Vac
- FYG:
2 HP @ 115 Vac
3 HP @ 230 Vac
- FHG:
1.5 HP @ 115 Vac
2 HP @ 230 Vac
- GSG, GHG
2 HP @ 115 Vac
3 HP @ 230 Vac
5 HP @ 460/575 Vac

Additional features defined

- Maintained manual cut-out lever has two positions: AUTO-switch operates on rising and falling pressure; and OFF – contacts are held in the open or off position.
- Low pressure cut-off operates at approximately 10 PSIG below the cut-in setting to stop the pump in the event it runs dry or a line breaks.
- Pulsation plug enables the switch to operate on reciprocating pump without responding to the pressure spikes at the end of each piston stroke.
- 2-way pressure relief valve releases head pressure on the compressor upon cut-off of the switch.
- CP – clamshell package
BP – box packaging.

▲ Differential – the difference between cut-in and cut-out pressure.

Catalog #	UPC Code	Cut-In Setting (PSIG)	Cut-Out Setting (PSIG)	Pressure Connection (NPSF Internal)	Additional Features*
Water Pump Pressure Switches – Type FSG*					
Standard Action: Contacts Open On Rising Pressure; 2-Pole, NEMA 1					
FSG2J20BP	0-47569-11533-2	20	40	1/4"	
FSG2J20CP	0-47569-00632-6	20	40	1/4"	
FSG2J20PBP	0-47569-11534-9	20	40	1/4"	Pulsation plug
FSG2J20PCP	0-47569-52171-3	20	40	1/4"	Pulsation plug
FSG2J20M1BP	0-47569-11535-6	20	40	1/4"	Manual cut-in lever
FSG2J20M1CP	0-47569-80786-2	20	40	1/4"	Manual cut-in lever
FSG2J20M4BP	0-47569-11536-3	20	40	1/4"	Low pressure cut-off
FSG2J20M4CP	0-47569-80787-9	20	40	1/4"	Low pressure cut-off
FSG2J18CP	Special Order	20	50	1/4"	
FSG2J21BP	0-47569-11538-7	30	50	1/4"	
FSG2J21CP	0-47569-80785-5	30	50	1/4"	
FSG2J21M1BP	0-47569-11539-4	30	50	1/4"	Manual cut-in lever
FSG2J21M1CP	0-47569-04397-0	30	50	1/4"	Manual cut-in lever
FSG2J21M4BP	0-47569-11540-0	30	50	1/4"	Low pressure cut-off
FSG2J21M4CP	0-47569-03466-4	30	50	1/4"	Low pressure cut-off
FSG2J24BP	0-47569-11541-7	40	60	1/4"	
FSG2J24CP	0-47569-07217-8	40	60	1/4"	
FSG2J24M4BP	0-47569-11542-4	40	60	1/4"	Low pressure cut-off
FSG2J24M4CP	0-47569-17782-8	40	60	1/4"	Low pressure cut-off
Water Pump Pressure Switches – Type FRG**					
Reverse Action: Contacts Open On Falling Pressure; 2-Pole, NEMA 1					
9013FRG22J36	Special Order	10	5	1/4"	
9013FRG22J19	Special Order	22	16	1/4"	
9013FRG2J23	Special Order	40	20	1/4"	
9013FRG2J23M3	Special Order	40	20	1/4"	Momentary manual cut-in lever (AUTO-START)
9013FRG2J23M5	Special Order	40	20	1/4"	Maintained manual cut-in lever (AUTO-ON)
9013FRG2J35	Special Order	50	30	1/4"	
Water Pump Pressure Switches – Type FYG***					
Standard Action: Contacts Open On Rising Pressure; 2-Pole, NEMA 1 with higher HP					
9013FYG2J20	Special Order	20	40	1/4"	
9013FYG2J21	Special Order	30	50	1/4"	
9013FYG2J24	Special Order	40	60	1/4"	
9013FYG2J33	Special Order	50	70	1/4"	
9013FYG2J25	Special Order	60	80	1/4"	
*FSG2 – 20-65 PSIG Cut-in Range, 10-45 PSIG Cut-out Range, 15-30 PSIG Approx. Adjustable Differential▲					
**FRG2 – 23-65 PSIG Cut-in Range, 8-45 PSIG Cut-out Range, 15-30 PSIG Approx. Adjustable Differential▲					
***FYG2 – 25-80 PSIG Cut-in Range, 5-60 PSIG Cut-out Range, 20-30 PSIG Approx. Adjustable Differential▲					



Pumptrol Water Pump and Air Compressor Pressure Switches Class 9013

Schneider Electric's Square D brand of pressure switches have set the standard for reliability, efficiency and durability. As the most trusted brand in residential, commercial and industrial pumping applications, Square D pressure switches continue to meet the daily needs of the water systems industry.

High reliability

- Rugged, robust construction provides a long life and provides years of uninterrupted, worry-free service
- Feature drift proof cut-in and cut-out settings
- Has visible vertical contacts, easy to inspect without removal
- Extra wide diaphragm orifice reduces clogging
- An extra strong frame that resists distortion when mounting the switch to a pipe or compressor
- Designed for the direct control of motors in pump and compressor applications. Water pump switches suitable for all types of pumps: jets, submersible, reciprocating, etc.
- Diaphragm actuated

Models

- Type FSG is the standard water pump switch
- Type FYG is designed to meet higher horse-power and pressure requirements
- Type FRG is reverse acting
- Type FHG for air compressors
- Type G for higher electrical ratings (water pumps and air compressors)

Catalog #	UPC Code	Cut-Out Setting (PSIG)	Pressure Connection (NPSF Internal)	Additional Features*
Air Compressor Pressure Switches – Type FHG*				
Standard Action: Contacts Open On Rising Pressure; 2-Pole, NEMA 1				
FHG2J27BP	0-47569-11543-1	100	1/4"	
FHG2J27CP	0-47569-17822-1	100	1/4"	
FHG2J27XCP	0-47569-17823-8	100	1/4"	2-way pressure relief
FHG12J52XBP	0-47569-11545-5	125	1/4"	2-way pressure relief
FHG12J52XCP	0-47569-17824-5	125	1/4"	2-way pressure relief
FHG12J55BP	Special Order	150	1/4"	
FHG12J55CP	0-47569-17825-2	150	1/4"	
FHG12J55XBP	0-47569-11547-9	150	1/4"	2-way pressure relief
FHG12J55XCP	0-47569-17826-9	150	1/4"	2-way pressure relief
9013FHG42J59	Special Order	175	1/4"	
9013FHG42J59X	Special Order	175	1/4"	
9013FHG49J59	Special Order	175	1/4" NPT External	
9013FHG49J59X	Special Order	175	1/4" NPT External	2-way pressure relief
Air Compressor Water Pump Pressure Switches – Type GHG, GSG**				
Standard Action: Contacts Open On Rising Pressure; 2-Pole, NEMA 1				
9013GSG2J20	Special Order	40	1/4"	
9013GSG2J21	Special Order	50	1/4"	
9013GSG2J24	Special Order	60	1/4"	
9013GSG2J25	Special Order	80	1/4"	
9013GHG2J25	Special Order	80	1/4"	
9013GHG2J29	Special Order	100	1/4"	
9013GHG2J30	Special Order	100	1/4"	
9013GHG2J53	Special Order	125	1/4"	
9013GHG2J63	Special Order	175	1/4"	
9013GHG2J30X	Special Order	100	1/4"	2-way pressure relief
9013GHG2J53X	Special Order	125	1/4"	2-way pressure relief
9013GHG2J63X	Special Order	175	1/4"	2-way pressure relief
*FHG2 – 40-100 PSIG Cut-out Range, 20 PSIG Approx. Adjustable Differential▲				
*FHG12 – 70-150 PSIG Cut-out Range, 30 PSIG Approx. Adjustable Differential▲				
*FHG49 – 100-200 PSIG Cut-out Range, 40 PSIG Approx. Adjustable Differential▲				
**9013GSG2 – 5-60 PSIG Cut-out Setting, 20-80 PSIG Cut-out Range, 15-30 PSIG Approx. Adjustable Differential▲				
**9013GHG2 – 40-170 PSIG Cut-out Setting, 65-200 PSIG Cut-out Range, 20-40 PSIG Approx. Adjustable Differential▲				

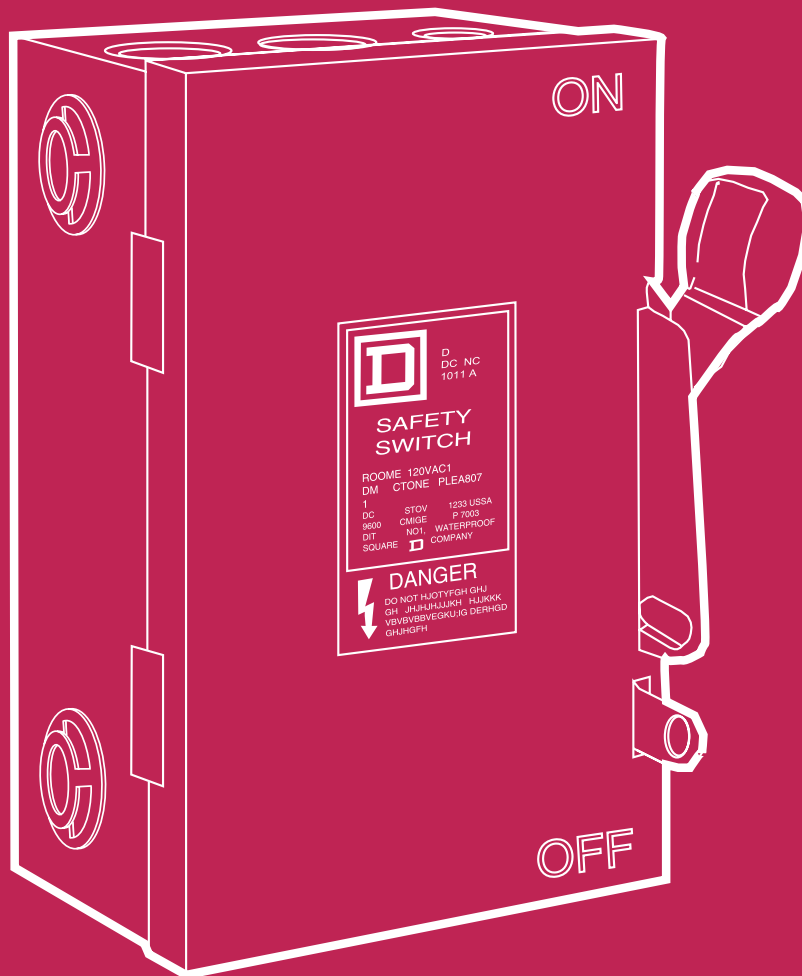


Class 9013 Type GHG



Class 9013 Type FHG

Safety Switches, Surge Protection & Other Residential Products



> From the Beginning, the Safety Switch Leader

For more than 90 years, we've been the unchallenged leader in safety switches. Our Square D brand safety switches are preferred two to one over our closest competitor. We've continued our tradition of innovation, developing new features that provide an unsurpassed level of performance, reliability, safety and ease of installation.



Square D introduced the enclosed safety switch back in 1909 and for more than 90 years we've been the unchallenged leader in safety switches.

AC Disconnects & Switches – Light Duty

> AC Disconnects

Amps	Catalog #	UPC Code	Maximum Horsepower	Add'l Access	UPC Code
Fusible AC Disconnects – Pullout and Fuseholder▼					
30	FP221R▲	7-85901-30115-8	3	–	–
60	FP222R▲	7-85901-30116-5	10	–	–
Not Fusible AC Disconnects – Pullout					
60	UFP222R▯	7-85901-30117-2	10	–	–
	UFP222RGFI▯	7-85901-60710-6		–	–
	UFP222RD▯	7-85901-42026-2		–	–
Not Fusible AC Disconnects – Enclosed Molded Case Switch					
60	QO200TRCP▯●	0-47569-51769-3	10	PKHB	7-85901-11935-7

Catalog #	UPC Code
Non-Metallic	
FP221RNM*	7-85901-32798-1
FP222RNM*	7-85901-32799-8
UFP222RNM	7-85901-32800-1
QO200TRNM	7-85901-32801-8

> Light Duty Switches

Light Duty Enclosed Switch Catalog Number Description					
L	2	2	1	N	CP
Light Duty	# of Poles	Vac	Amps	Neutral	Consumer Products

Amps	Fuse Type▼	System	Catalog #	UPC Code	Horsepower Rating
Fusible AC Disconnects – Pullout and Fuseholder▼					
30	Plug	2-Wire	L111N*	7-85901-11548-9	2 HP @ 120 Vac
	Plug	3-Wire	L211N*	7-85901-09052-6	3 HP @ 240 Vac
	Cartridge	3-Wire	L221N▲	7-85901-49902-2	3 HP @ 240 Vac



L211N



QO200TRNM



UFP222R



AC Disconnects

- UL Listed
- 2 Wire
- 240 Vac
- Rainproof

Light Duty

Enclosed Switches

- UL Listed
- 10,000A Short Circuit Current Rating
- 120/240 Vac

- ▯ Suitable for use on systems with up to 10,000 RMS symmetrical amps with available fault current at 240 Vac max. when protected by a fuse or circuit breaker rated 60A or less.
- Bracket for QO200TR used for stucco, aluminum and vinyl siding available (Catalog No. PKHB/UPC Code 0-47569-11935-7).
- ▯ Does not contain overcurrent protection.
- ▼ Fuses not included.
- * 10,000A short circuit rating with plug fuses.
- ▲ 10,000A short circuit rating with Class H fuses.

Switches – General Duty

General Duty Safety Switch Catalog Number Description

D	2	2	1	N	RB
General Duty	# of Poles	Vac	30A	Neutral	Outdoor Cover



General Duty Safety Switches

- UL Listed
- 100,000A Short Circuit Withstand Rating with Proper Fuses Installed
- NEMA Type 1 on Indoor Units
- NEMA Type 3R on Outdoor Units
- Enclosed molded case switch, not suitable for service equipment.
- ▢ Includes ground bar kit, factory installed.
- Includes solid neutral, factory installed.
- * For bolt-on hubs, refer to page 19.
- For field installable service ground bar kit order PK3GTA-1.
- † For field installable service ground bar kit order GTK0610.
- * For field installable service ground bar kit order GTK03.
- ▼ 10,000A short circuit current rating.
- * Item may require additional lead time.

Amps	Fuse Type	Indoor Unit Catalog #	UPC Code	Rainproof Unit Catalog #*	UPC Code
Fusible Safety Switches – 2-Pole, 3-Wire (2 Blades and Fuseholders, 1 S/N) 120/240 Vac (Plug), 240 Vac (Cartridge) Maximum					
30	Plug	D211NCP●▼	0-47569-52154-6	D211NRBCP●▼	0-47569-52160-7
	Cartridge	D221NCP●	0-47569-52155-3	D221NRBCP●	0-47569-52161-4
60	Cartridge	D222NCP*	0-47569-52156-0	D222NRBCP*	0-47569-52162-1
100	Cartridge	D223N†	7-85901-46068-8	D223NRB†	7-85901-46070-1
Fusible Safety Switches – 3-Pole, 4-Wire (3 Blades and Fuseholders, 1 S/N) 240 Vac Maximum					
30	Cartridge	D321NCP●	7-85901-07189-1	D321NRBCP●	7-85901-07190-7
60	Cartridge	D322N*	7-85901-46123-4	D322NRB*	7-85901-46128-9
100	Cartridge	D323N†*	7-85901-46135-7	D323NRB†*	7-85901-46140-1
Not Fusible Safety Switches – 2-Pole, 2-Wire (2 Blades) 240 Vac Maximum					
30	–	–	–	DU221RB●†	7-85901-49034-0
60	–	–	–	QO260NATR†▼	7-85901-62887-3
	–	QO260NATS†▼	7-85901-62886-6	DU222RB●†	7-85901-49149-1
100	–	QO2000NS†▼	7-85901-53952-0	QO2000NRB†▼	7-85901-53953-7
Not Fusible Safety Switches – 3-Pole, 3-Wire (3 Blades) 240 Vac Maximum					
30	–	DU321●†	7-85901-49160-6	DU321RB●†	7-85901-49162-0
60	–	DU322●	7-85901-49174-3	DU322RB●	7-85901-49176-7
100	–	DU323†	7-85901-49180-4	DU323RB†	7-85901-49182-8



D223N



D221NRB



D222NRB

Switches – Circuit Breaker Enclosures

Amps	Service Vac	General Purpose Catalog #	UPC Code	Rainproof Catalog #	UPC Code	Box #	Circuit Breakers (order separately)	
							Amps	Catalog #
Enclosed Circuit Breakers (Includes factory installed circuit breakers)						(see pg.19)	–	–
100	120/240	–	–	QO2100NRBCP	0-47569-51762-4	12R	–	–
200	120/240	–	–	QOM2E2200NRB	7-85901-37530-2	13R	–	–
Circuit Breaker Enclosures (circuit breakers not included: order QO and QO-GFCI breakers from page 9 or 10)						(see pg. 18-19)		
100	120/240	QO2100BNS	7-85901-05172-5	QO2100BNRB	7-85901-05174-9	17, 12R	–	–
	120/240	QO2100BNF	7-85901-05173-2	–	–	17	–	–
	240	QO3100BNF	7-85901-05175-6	QO3100BNRB	7-85901-05177-0	17, 12R	–	–
	240	QO3100BNS	7-85901-05176-3	–	–	17	–	–
125	120/240	QO2125BNF	7-85901-05178-7	QO2125BNRB	7-85901-05180-0	22, 15R	–	–
	120/240	QO2125BNS	7-85901-05179-4	–	–	22	–	–
Q-Frame Enclosures & Circuit Breakers (circuit breakers not included: enclosure only)						(see pg. 18-19)		
–	–	–	–	–	–	–	100	QBL22100
–	–	–	–	–	–	–	110	QBL22110
–	–	–	–	–	–	–	125	QBL22125
–	240 – 2-Pole	Q2-2200NS	7-85901-78544-0	Q2-2200NRB	7-85901-78545-3	24, 13R	150	QBL22150
–	–	–	–	–	–	–	175	QBL22175
–	–	–	–	–	–	–	200	QBL22200
	240 – 3-Pole	Q2-3225NF	7-85901-47060-1	Q2-3225NRB	7-85901-47062-5	25, 14R	100	QBL32100
	240 – 3-Pole	Q2-3225NS	7-85901-47061-8	–	–	25	110	QBL32110
	–	–	–	–	–	–	125	QBL32125
	–	–	–	–	–	–	150	QBL32150
	–	–	–	–	–	–	175	QBL32175
	–	–	–	–	–	–	200	QBL32200
–	–	–	–	–	–	–	225	QBL32225



Circuit Breaker Enclosures

- UL Listed

- All breakers rated at 10,000 AIC.
- For ground bar kit order PKOGTA-2.
- Accepts 200A max. 2-pole Q-Frame breakers.
- ▲ Factory-installed groundable neutral assembly included (2) ground lugs and (2) neutral lugs. Equipment ground kit PKOGTA-2 also included.
- ★ Item may require additional lead time.

Surge Protection

Type	Catalog #	UPC Code	Clamping Voltage at Surge Currents of.■		
			1,500A	5,000A	10,000A
Surgebreaker® Secondary Surge Arrester (\$10,000 Warranty – see page 59)					
QO	QO2175SB	7-85901-21089-4	475V	500V	600V
Homeline	HOM2175SB	7-85901-21090-0	475V	500V	600V
Hardwire Secondary Surge Arrester (Warranty – see page 60)					
–	SDSA1175CP	7-85901-21087-0	500V	625V	750V
Surgebreaker Plus (\$50,000 Warranty – see page 61)					
Indoor	SDSB1175C	7-85901-30713-6			
Outdoor	SDSB1175R	7-85901-30714-3			
Surgebreaker® Plus Low Voltage Only (\$10,000 Warranty – see page 60)					
Outdoor	SDSA4P2VR*	7-85901-83856-2			



Surgebreaker Secondary Surge Arrester

- UL Listed: QO2175SB and CSA Certified
- Suitable for Use in Service Entrance Locations: Meets Requirements of NEC Article 280
- Protects from Electrical Surges up to 20,000V
- Offers Added Protection to Point of Use Surge Protection, which Normally Protects up to 6,000V
- LED Indicator
- 150Vac Phase-to-Ground Maximum
- Installs like any Square D Plug-On Circuit Breaker (Requires 2-Poles)
- Equal Protection to all Circuits and Receptacles throughout the Home

Hard-Wire Secondary Surge Arrester

- UL Listed and CSA Certified
- Sealed Thermoplastic Housing Suitable for Indoor and Outdoor Applications
- Ideal for Pumps and Motor Applications as well as Service Entrance Locations
- Suitable for Use in Service Entrance Locations: Meets Requirements of NEC Article 280
- Protects from Electrical Surges up to 20,000V
- Offers Added Protection to Point of Use Surge Protection, which Normally Protects up to 6,000V
- 150Vac Phase-to-Ground Maximum
- Equal Protection to all Circuits and Receptacles throughout the Home

Surgebreaker Plus Whole House Surge Protector

- UL Listed 1449, 2nd edition
- Suitable for Use in Service Entrance Locations: Meets Requirements of NEC Article 280
- Suitable for Indoor and Outdoor Applications
- LED Status Indicator
- Flush or Surface Mounting for Indoor; Outdoor is Surface Mount Only
- Electrical System - Connects Through the Main Load Center
- Two Coax Lines – Master Antenna, Satellite Dish or Cable
- Four Line Telephone (Analog Lines) Protection



QO2175SB



HOM2175SB



SDSA1175



SDSB1175C

* Low Voltage Suppressor contains telephone and CATV only.

■ Clamping voltages measured with 1" lead length.

Generator Panels



Generator Panel

- Allows Connection to a Standby Power Source to as many as Eight Circuits
- Lets You Change from the Utility Power to a Standby Source with Flip of Two QO Main Circuit Breakers
- Mechanical Interlock Ensures that Only One Main Circuit Breaker is in the "ON" Position at any Time
- Uses Eight Genuine QO Circuit Breakers from Square D - "The World's Finest"
- 4 Spaces/8 Circuits Max.
- See Page 21 for wiring information

Generator Interlock Kit

- Interlocks the QOM1 and QOM2 Main Breaker with a 2-pole Breaker Back-Fed from a Generator
- No Need for a Separate Generator Panel
- Avoid the Inconveniences that an Unexpected Power Outage Can Cause
- Choose Where You Want to Direct Generator Power to any Circuit Within the Home

Generator Panel

Amps	Catalog #	Ground Bar	UPC Code
30	QO48M30DSGP	PK7GTA	7-85901-86820-0
60	QO48M60DSGP	PK7GTA	7-85901-82434-3

Outdoor Generator Transfer Switch Panel

Load Center Amps	Generator Main Amps	Catalog #	Power Inlet Type	UPC Code
100	20	QO1DM10020TRBR	NEMA L14-20	7-85901-62331-1
	30	QO1DM10030TRBR	NEMA L14-30P	7-85901-88322-7
	50	QO1DM10050TRBR	Hubbell CS6375	7-85901-46880-6

Generator Interlock Kit

Catalog #	Indoor/Outdoor	UPC Code
QOCGK2C	Indoor	7-85901-48900-9
QORBGK2C	Outdoor	Special Order
HOMCGK2C	Indoor	7-85901-94050-0
HOMRBGK2C	Outdoor	Special Order



QO48M30DSGP



Generator Interlock Kit (In use)

Product Warranty

> Square D/Schneider Electric Residential Products Limited Warranty

I. Square D/Schneider Electric QO Brand Load Center and Load Center Branch Circuit Breakers

Square D QO brand load centers and Square D breakers. Square D warrants its branch circuit breakers to be free from defects in material and workmanship under normal care and proper usage in a residential installation, for the lifetime of the load center in which it is installed. QO brand load centers are also covered under the same lifetime warranty. If the circuit breaker or QO brand load center fails within the warranty period because of a defect in material or workmanship, Square D/Schneider Electric will replace the defective breaker or device free of charge upon following the notice procedures below and return of the product to place of purchase. **Exclusive Remedy** — The repair and/or replacement of defective products is your sole and exclusive remedy.

II. Square D/Schneider Electric Single-Phase Load Centers and Combination Service Entrance Device (CSED)

Square D Homeline brand single phase load centers and combination service entrance devices. Square D warrants its Homeline single phase load centers and combination service entrance devices to be free from defects in material and workmanship, under normal care and proper usage in a residential installation, for a period of ten (10) years from the date of installation. If the product fails within the warranty period because of a defect in material or workmanship, Square D will, at its option, repair or replace the defective part or parts upon following the notice procedures below and return of product to place of purchase.

III. Warranty Redemption and Exclusions

- A. Square D must be given prompt written notice of any defect or failure of any product covered by these limited warranties at the following address: Square D Company, 1415 S. Roselle Road, Palatine, Illinois, 60067, (888) 778-2733, weekdays between the hours of 8:00 a.m. and 5:00 p.m. Eastern Time. For warranty redemption, you must return the product to Square D at the above address.
- B. Any product returned under these limited warranties, if shipped, must be sent freight costs prepaid. Square D will deliver repaired or replaced products to buyer, freight costs prepaid. Repaired or replaced products shall be warranted hereunder only for the unexpired portion of the original warranty period. This warranty does not include costs or reimbursement for labor.
- C. Any limited warranties granted or liabilities assumed hereunder will not apply to products that have been damaged, altered, repaired or operated otherwise than in conformity with the requirements for safe operation and maintenance. For your safety and to provide optimum short circuit protection, Square D recommends that you use only the Square D circuit breakers identified on the load center or combination service entrance device label or wiring diagram. Square D disclaims all liability for damage, injury or non-performance caused by the use or failure of incompatible or UL classified circuit breakers.

IV. Disclaimer of All Other Warranties

EXCEPT FOR THE EXPRESS WARRANTY SET FORTH ABOVE OR ANY WARRANTIES IMPLIED BY LAW, SQUARE D MAKES NO OTHER EXPRESS OR IMPLIED WARRANTIES. TO THE FULLEST EXTENT PERMITTED BY LAW, SQUARE D DISCLAIMS ALL IMPLIED WARRANTIES, INCLUDING ALL WARRANTIES OF MERCHANTABILITY AND/OR FITNESS FOR A PARTICULAR PURPOSE. THE FOREGOING DISCLAIMER MAY NOT APPLY TO YOU DEPENDING UPON THE PRODUCT YOU PURCHASE, THE APPLICATION AND USE OF YOUR PRODUCT, OR YOUR STATUS AS A CONSUMER. TO THE EXTENT YOU ARE ENTITLED TO RECOVER UNDER AN IMPLIED WARRANTY, THE DURATION OF THAT IMPLIED WARRANTY SHALL BE THE PERIOD OF THE EXPRESS LIMITED WARRANTY SET FORTH ABOVE.

V. Limitation of Liability

Square D expressly disclaims any and all liability to you for any consequential or incidental damages, damages for loss of use, loss of profits, income or revenue, loss of time or inconvenience, loss or damage to associated equipment, damages to tangible or intangible property, other than the equipment covered by this limited warranty, cost of substituted or replacement equipment other than as expressly warranted, damages associated with excessive overvoltages, obsolescence, abuse, misuse, non-authorized modification, alteration or catastrophic events, or any other incidental, consequential or special damage arising out of the use of the products. Square D shall not be liable for indirect, special, incidental or consequential damages with respect to the sale of the products, including any lost revenue or profits, consequential and/or incidental damages, business interruption or damage to business reputation, regardless of the theory upon which any claim may be based, including any statutory, tort contract or insurance subrogation causes of action or claims. In no event will Square D's entire liability to you, including any liability in the event the exclusive remedy set forth in this agreement fails of its essential purpose, exceed the purchase price for the affected products. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the preceding limitations or exclusions may not apply to you. This limited warranty gives you specific legal rights, and you may also have other rights, which vary from state to state.

> Surgebreaker Surge Protection Devices Warranty

I. Protection Limits

With regard to any Square D Surgebreaker surge protection device (catalog numbers QO2175SB and HOM2175SB) from Square D/Schneider Electric that has been properly installed in a residential home in compliance with the current National Electrical Code (NEC) requirements, Square D/Schneider Electric warrants to the homeowner at the time of such installation (or the initial homeowner if installed as part of new construction) that Square D/Schneider Electric shall accept responsibility for any damage to that homeowner's major household appliances, as defined below, up to the limits provided herein, to the extent such damage is caused by the failure of such surge protection device to protect against electrical power surges caused by lightning or the electric utility. As used herein, "major household appliances" shall mean: refrigerators, freezers, air conditioners, stoves, ovens (except microwaves), clothes washers, clothes dryers and dishwashers. Major household appliances specifically shall NOT include electronic devices such as: microwave ovens, audio and stereo components, video equipment, televisions and computers. The limit of Square D/Schneider Electric's liability under this warranty shall be \$10,000 or the deductible amount of customer's insurance policy covering such major household appliances, whichever is less.

II. Warranty Period

This warranty shall be in effect until three (3) years following the date of purchase of the Surgebreaker surge protection device, or until two (2) years following the date of installation, whichever occurs earlier.

III. Warranty Not Transferable

This warranty may not be transferred from the homeowner who initially receives this warranty to any other party.

IV. Warranty Limitations

THIS WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER EXPRESS OR IMPLIED WARRANTIES, INCLUDING WITHOUT LIMITATION ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE. This warranty excludes damage or loss arising from any of the following events or sources: unauthorized product modification or alteration, force major events such as flood or earthquake, war, insurrection, vandalism, theft, normal-use wear and tear, erosion, depletion, obsolescence, abuse, defective software and computer virus infection. Square D/Schneider Electric shall not be liable for any indirect, incidental, consequential damages. With respect to products purchased by consumers in the United States for personal use, implied warranties, including but not limited to the warranties of merchantability and fitness for a particular purpose, are not excluded but are limited to the extent allowed by law to the duration of the warranty period set forth above. No claim under this warranty will be honored unless the homeowner has reported the damage within thirty (30) days after its occurrence in accordance with the claims procedure below.

V. Claims Procedure

To make a claim under this warranty, please follow these steps: (1.) Retain the original dated sales receipts from the Square D Surgebreaker device from Square D/Schneider Electric. (2.) Ask an independent repair person to write a report on the cause of the damage. Retain all related repair receipts. (3.) File a claim under homeowner's insurance. (4.) Within thirty (30) days of the occurrence of the damage and prior to repairing the damaged equipment, contact Schneider Electric at (859)243-8220, Monday through Friday 8:00 am. to 4:00 p.m. Eastern Standard Time (EST). (5.) Send the purchase receipt, repair receipt, damage report, any homeowner's insurance report along with the damaged Square D Surgebreaker Plus component(s) (electrical, telephone and/or coaxial cable) to Schneider Electric, 1601 Mercer Road, Lexington, KY 40511, Attn: Surgebreaker Surge Protection Devices Warranty.

Product Warranty

> Surgebreaker Plus Low-voltage Only Devices Warranty

I. Protection Limits

With regard to the Square D Surgebreaker Plus low-voltage only device, catalog number SDSA4P2VR (Surgebreaker Plus device) that has been properly installed in a residential home and in compliance with all applicable electrical code requirements, Square D warrants to the homeowner at the time of such installation (or the initial homeowner if installed as part of new construction) that Square D shall accept responsibility for any damage to that homeowner's connected household equipment that is downstream from the Surgebreaker Plus device, up to the limits provided herein, to the extent such damage is caused by the failure of such surge protection device to protect against electrical power surges caused by lightning or a utility company (coaxial or telephone). As used herein, "connected household equipment" shall mean electronic devices, including audio and stereo components, video equipment, televisions and computers that are connected to the system protected by the Surgebreaker Plus device. "Connected household equipment" shall exclude any commercial or industrial grade equipment not commonly found in a home. The limit of Square D's liability under this warranty shall be the lesser of \$10,000 or the deductible amount of customer's insurance policy covering such connected household equipment.

II. Warranty Period

This warranty shall be in effect for three (3) years following the date of purchase of the Surgebreaker Plus device.

III. Warranty Not Transferable

This warranty may not be transferred from the homeowner who initially receives this Warranty to any other party.

IV. Warranty Limitations

THIS WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER EXPRESS OR IMPLIED WARRANTIES, INCLUDING WITHOUT LIMITATION ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE. This Warranty excludes damage or loss arising from any of the following events or sources: unauthorized product modification or alteration, force majeure events such as flood or earthquake, war, insurrection, vandalism, theft, normal-use wear and tear, erosion, depletion, obsolescence, abuse, defective software, and computer virus infection. Square D shall not be liable for any indirect, incidental, consequential damages. With respect to products purchased by consumers in the United States for personal use, implied warranties, including but not limited to the warranties of merchantability and fitness for a particular purpose, are not excluded but are limited to the extent allowed by law to the duration of the warranty period set forth above. No claim under this warranty will be honored unless the homeowner has reported the damage within thirty (30) days after its occurrence in accordance with the claims procedure below.

V. Claims Procedure

To make a claim under this warranty please follow these steps: (1.) Retain the original dated sales receipts from the Square D Surgebreaker Plus device. (2.) Ask an independent repairperson to write a report on the cause of the damage. Retain all related repair receipts. (3.) File a claim under homeowner's insurance. (4.) Within thirty (30) days of the occurrence of the damage and prior to repairing the damaged equipment, contact EFI Electronics Corporation at (800) 877-1174, Monday through Friday 8:00 am. to 4:30 p.m. Mountain Time. (5.) Send the purchase receipt, repair receipt, damage report, and any homeowners insurance report and any report along with the damaged Square D Surgebreaker Plus component(s) (telephone and/or coaxial cable) to: EFI Electronics Corporation, 1751 South 4800 West, Salt Lake City, Utah 84104, Attn: Surgebreaker Plus Warranty. Failure to follow the claims procedure set forth above may be grounds for refusing any warranty claim made hereunder.

> Warranty to Customers Purchasing Through Authorized Square D/ Schneider Electric Distributors and Customers Purchasing Directly From Square D/Schneider Electric

Square D/Schneider Electric warrants equipment manufactured by it to be free from defects in materials and workmanship for eighteen (18) months from date of invoice from Square D/Schneider Electric or its authorized sales channel. If within the applicable warranty period purchaser discovers such item was not as warranted and promptly notifies Square D/Schneider Electric in writing, Square D/Schneider Electric shall repair or replace the items or refund the purchase price, at Square D/Schneider Electric's option. This warranty shall not apply (a) to equipment not manufactured by Square D/Schneider Electric, (b) to equipment which shall have been repaired or altered by others than Square D/Schneider Electric, (c) to equipment which shall have been subjected to negligence, accident, or damage by circumstances beyond Square D/Schneider Electric's control, or to improper operation, maintenance or storage, or to other than normal use or service. With respect to equipment sold but not manufactured by Square D/Schneider Electric, the warranty obligations of Square D/Schneider Electric shall in all respects conform and be limited to the warranty actually extended to Square D/Schneider Electric by its supplier. The foregoing warranties do not cover reimbursement for labor, transportation, removal, installation, or other expenses which may be incurred in connection with repair or replacement.

> Surgebreaker Plus Warranty

I. Protection Limits

With regard to any Surgebreaker Plus device (catalog number SBSB1175C and SDSB1175R) from Square D® that has been properly installed in a residential home in compliance with the current National Electrical Code (NEC) requirements, Square D/Schneider Electric warrants to the homeowner at the time of such installation (or the initial homeowner if installed as part of new construction) that Square D/Schneider Electric shall accept responsibility for any damage to that homeowner's major household connected equipment, as defined below, up to the limits provided herein, to the extent such damage is caused by the failure of such surge protection device to protect against electrical power surges caused by lightning or a utility company (electric, coaxial or telephone). As used herein, "connected household equipment" shall mean major household appliances and electronic devices, including refrigerators, freezers, air conditioners, stoves, oven, microwave oven, clothes washer, clothes dryer, dishwasher, audio and stereo components, video equipment, televisions and computers. The limit of Square D's liability under this warranty shall be the lesser of \$25,000 or the deductible amount of customer's insurance policy covering such connected household equipment, except that when the Surgebreaker Plus device is used in conjunction with both a point of use surge protective device and a Square D QO or Homeline Load Center device, then the limit of Square D's liability under this warranty shall be the lesser of \$50,000 or the deductible amount of customer's insurance policy covering such major connected household equipment. As used herein, "point of use surge protective device" shall mean a surge protective device that is listed to UL 1449 Listed (with a clamping voltage of 330V for solid state devices) and that is located at and connected to the connected household equipment for which a damage claim is made.

II. Warranty Period

This warranty shall be in effect for three (3) years following the date of purchase of the Surgebreaker Plus device, except that when the Surgebreaker Plus device is used in conjunction with both a point of use surge protective device and a Square D QO or Homeline load center, then this warranty shall be in effect for five (5) years following the date of purchase of the Surgebreaker Plus device.

III. Warranty Not Transferable

This warranty may not be transferred from the homeowner who initially receives this Warranty to any other party.

IV. Warranty Limitations

THIS WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER EXPRESS OR IMPLIED WARRANTIES, INCLUDING WITHOUT LIMITATION ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE. This Warranty excludes damage or loss arising from any of the following events or sources: unauthorized product modification or alteration, force major events such as flood or earthquake, war, insurrection, vandalism, theft, normal-use wear and tear, erosion, depletion, obsolescence, abuse, defective software and computer virus infection. Square D shall not be liable for any indirect, incidental, consequential damages. With respect to products purchased by consumers in the United States for personal use, implied warranties, including but not limited to the warranties of merchantability and fitness for a particular purpose, are not excluded but are limited to the extent allowed by law to the duration of the warranty period set forth above. No claim under this warranty will be honored unless the homeowner has reported the damage within thirty (30) days after its occurrence in accordance with the claims procedure below.

V. Claims Procedure

To make a claim under this warranty please follow these steps: (1.) Retain the original dated sales receipts of the Surgebreaker Plus from Square D, and if applicable, the UL 1449 approved secondary surge protector(s). (2.) Ask an independent repairman to write a report on the cause of the damage. Retain all related repair receipts. (3.) File a claim under homeowner's insurance. (4.) File a claim with the manufacturer of the UL 1449 secondary surge device, if applicable. (5.) Within thirty (30) days of the occurrence of the damage and prior to repairing the damaged equipment, contact Schneider Electric at (859) 243-8220, Monday through Friday 8:00 a.m. to 4:00 p.m. Eastern Standard Time (EST). (6.) Send the purchase receipt, repair receipt, damage report, any homeowner's insurance report and any secondary surge manufacturer's report along with the damaged Surgebreaker Plus component(s) (electrical, telephone and/or coaxial cable) to Schneider Electric, 1601 Mercer Road, Lexington, KY 40511, Attn: Surgebreaker Plus Warranty. (If no claim is filed with the UL 1449 secondary surge device manufacturer, any warranty claim here under will be subject to three (3) year / \$25,000 limitations stated here in.)

> Conductor Ampacity Based on 2008 National Electric Code

Ampacity Based on NEC Table 310.16 – Allowable Ampacities of Insulated Conductors Rated 0 through 2000V, 60° to 90°C (140° to 194°F). Not more than three current-carrying conductors in raceway or cable or earth (directly buried), based on ambient temperature of 30°C (86°F)

For conduit fill see 2008 NEC Annex C.

For Information on Temperature Ratings of Terminations to Equipment See NEC 110.14(C)

Size	Temperature Rating of Conductor. [See Table 310.13(A).]						Size
AWG kcmil	60°C (140°F)	75°C (167°F)	90°C (194°F)	60°C (140°F)	75°C (167°F)	90°C (194°F)	AWG kcmil
	Types TW, UF	Types RHW, THHW, THW, THWN, XHHW, USE, ZW	Types TBS, SA, SIS, FEP, FEPB, MI, RHH, RHW-2, THHN, THHW, THW-2, THWN-2, USE-2, XHH, XHHW, XHHW-2, ZW-2	Types TW, UF	Types RH, RHW, THW, THHW, THWN, XHHW, USE	Types TBS, SA, SIS, THHN, THHW, THW-2, THWN-2, RHH, RHW-2, USE-2, XHH, XHHW, XHHW-2, ZW-2	
	Copper			Aluminum or Copper-Clad Aluminum			
18	.....	.....	14	.....	.....	.....	.....
16	.....	.....	18	.....	.....	.....	.....
14*	20	20	25	.....	.....	.....	.....
12*	25	25	30	20	20	25	12*
10*	30	35	40	25	30	35	10*
8	40	50	55	30	40	45	8
6	55	65	75	40	50	60	6
4	70	85	95	55	65	75	4
3	85	100	110	65	75	85	3
2	95	115	130	75	90	100	2
1	110	130	150	85	100	115	1
1/0	125	150	170	100	120	135	1/0
2/0	145	175	195	115	135	150	2/0
3/0	165	200	225	130	155	175	3/0
4/0	195	230	260	150	180	205	4/0
250	215	255	290	170	205	230	250
300	240	285	320	190	230	255	300
350	260	310	350	210	250	280	350
400	280	335	380	225	270	305	400
500	320	380	430	260	310	350	500
600	355	420	475	285	340	385	600
700	385	460	520	310	375	420	700
750	400	475	535	320	385	435	750
800	410	490	555	330	395	450	800
900	435	520	585	355	425	480	900
1000	455	545	615	375	445	500	1000
1250	495	590	665	405	485	545	1250
1500	520	625	705	435	520	585	1500
1750	545	650	735	455	545	615	1750
2000	560	665	750	470	560	630	2000

Correction Factors

Ambient Temp. °C	For ambient temperatures other than 30°C (86°F), multiply the allowable ampacities shown above by the appropriate factor shown below.						Ambient Temp. °F
21-25	1.08	1.05	1.04	1.08	1.05	1.04	70-77
26-30	1.00	1.00	1.00	1.00	1.00	1.00	78-86
31-35	.91	.94	.96	.91	.94	.96	87-95
36-40	.82	.88	.91	.82	.88	.91	96-104
41-45	.71	.82	.87	.71	.82	.87	105-113
46-50	.58	.75	.82	.58	.75	.82	114-122
51-55	.41	.67	.76	.41	.67	.76	123-131
56-60	.....	.58	.71	.....	.58	.71	132-140
61-70	.....	.33	.58	.....	.33	.58	141-158
71-80	.....	.....	.41	.....	.....	.41	159-176

* See Section 240.4 (D).

Ratings for 120/240V, 3-Wire, Single-Phase Dwelling Services—

See NEC Table 310.15 (B)(6)

These are permitted ratings for Dwelling Unit service and feeder conductors which carry the total load of the dwelling.

Rating (amps)	100	110	125	150	175	200	225	250	300	350	400
Copper	4	3	2	1	1/0	2/0	3/0	4/0	250 kcmil	350 kcmil	400 kcmil
Aluminum	2	1	1/0	2/0	3/0	4/0	250 kcmil	300 kcmil	350 kcmil	500 kcmil	600 kcmil

Adjustment Factors – See NEC Table 310.15 (B)(2)(a)

Where the number of current-carrying conductors in a raceway or cable exceeds three, the allowable ampacities shall be reduced as shown in the following table:

Number of Current-Carrying Conductors	Percent of Values in Tables as Adjusted for Ambient Temperature as Necessary
4 through 6	80
7 through 9	70
10 through 20	50
21 through 30	45
31 through 40	40
41 and Above	35

See exceptions to NEC 310.15 (B)(2).

NEC 240.4 Protection of Conductors

Where conductors or cables are installed in conduits exposed to direct sunlight on or above rooftops, see NEC Table 310.15(B)(2)(c). Conductors, other than flexible cords and fixture wires, shall be protected against overcurrent in accordance with

their ampacities specified in NEC 310.15, unless otherwise permitted or required in parts (A) through (G) of NEC 240.4.

NEC 240.4 (D) – Small Conductors

Unless specifically permitted in (E) through (G), the overcurrent protection shall not exceed 15 amperes for #14 AWG, 20 amperes for #12 AWG, and 30 amperes for #10 AWG copper; or 15 amperes for #12 AWG and 25 amperes for #10 AWG aluminum and copper-clad aluminum after any correction factors for ambient temperature and number of conductors have been applied.

NEC 210.19 – Conductors, Minimum Ampacity and Size

The minimum branch circuit conductor size, before the application of any adjustment or correction factors, shall have an allowable ampacity not less than the noncontinuous load plus 125 percent of the continuous load. (See exception for 100% rated devices)

NEC 210.20 (A) – Continuous and Noncontinuous Loads

Where a branch-circuit supplies continuous loads or any combination of continuous and noncontinuous loads, the rating of the overcurrent device shall not be less than the noncontinuous load plus 125 percent of the continuous load. (See Exception for 100% rated devices)

NEC 430.22 (A) – Single Motor Circuit Conductors

Branch-circuit conductors supplying a single motor shall have an ampacity not less than 125 percent of the motor's full-load current rating. (See Exceptions)



Things to Know to Protect Your House

Before the next remodeling project begins in the bedroom, kitchen, bathroom or another area of the home requiring a Combination Arc Fault Circuit Interrupter (AFCI) or a Ground Fault Circuit Interrupter (GFCI), educate yourself to the safety features that must be met to prevent against electrical shock and fire hazards in the home. AFCI and GFCI products from Square D offer the protection homeowners need.

> AFCIs provide protection for the home

The 2008 National Electric Code (NEC) developed by the National Fire Protection Association (NFPA) requires specific branch circuits that supply 125V, 15A or 20A outlets to be protected by AFCIs. NEC 210.12 requires specific rooms such as the bedrooms, living room, dining room and others to be protected by AFCIs. The Square D brand AFCI provides protection from the hazards of arc faults by recognizing various types of arcing caused by worn or damaged electrical wiring or cords plugged into outlets.

Arc Fault Facts

- An arc fault is an unintended arc created by current flowing through an interrupted path.
- Arc temperatures can exceed 10,000°F.
- Arcing is believed to be the “early” event in many electrical fires.
- Traditional circuit breakers are unable to detect arc faults.
- Arc faults can occur in new, as well as old, electrical systems.
- AFCIs can be used in any 15A or 20A, 120V circuit.
- AFCIs can be used in conjunction with GFCI receptacles to provide arc fault and ground fault protection.
- AFCIs can sense arcs and can protect against overloads and short circuits.

To learn more about AFCIs facts, visit www.us.SquareD.com/afci or www.afcisafety.org. Check local code to verify what is required in your area.

> GFCIs provide personal protection

GFCIs are required by code in certain areas of the home, including unfinished basements, kitchens, bathrooms, garages, crawl spaces, patios, hot tubs, pools and other locations, where a shock hazard may exist.

GFCI Facts



- GFCIs are designed to help prevent serious injury or death from electrical shock by detecting ground faults at very low levels.
- GFCIs should be used in any area where water may come in contact with electrical products.
- A ground fault as low as 4-6mA (6/1000A) will trip a GFCI.
- GFCIs provide all the protection of standard circuit breakers and they detect current leakage by measuring the current entering the circuit and comparing it with the current leaving the circuit.
- Square D products offer GFCIs in both single and double-pole breaker formats and various ampere ratings.

For more information on GFCI protection, check with your Square D sales representative or Customer Service at 800-432-2599.

Arc Fault vs. Ground Fault

AFCI	GFCI
White reset button	Yellow reset button
Designed to protect against fire hazards due to “Arcing Conditions”	Designed to protect people from severe electrical shock
Required by the NEC in the following locations: bedrooms, family rooms, dining rooms, living rooms, parlors, libraries, dens, sunrooms, recreation rooms, closets, hallways or similar rooms and/or areas	Required by the NEC in the following locations: Bathroom, kitchen, basement, garage, outdoor receptacle Also protects: pool pump, jacuzzi, hot tub, wet bar
Can be used to provide protection on other circuits in the home	Protects entire circuit with one device
Includes overload and short circuit protection	Includes overload and short circuit protection

As the temperature gets warmer, seasonal storms are right around the corner. According to the National Weather Service, each year in America there is an average of 10,000 thunderstorms, 2,500 floods, 1,000 tornadoes and six major hurricanes, which leads to nearly \$14 billion in damages. Unfortunately we cannot prevent the bad weather from happening this year, but we can take the necessary precautions to protect ourselves and our homes.

> A Surge Strip is Not Enough

In today's modern electrical household, many appliances are connected to multiple power sources and communication lines. In addition, most electrical products contain computer chips that can be damaged by even a minor electrical surge. Uncontrolled surges not only run the risk of overloading and destroying sensitive electronics, but they can also damage hard-wired devices, such as pumps and air conditioning compressors, as well as destroy the wiring insulation within the home. These surges can enter the home through one or more of the following paths:

- **Electrical system:** Surges entering through this system are usually caused by lightning or utility disturbances. Without proper protection, externally generated surges produce over voltage conditions that can overwhelm point-of-use surge strips. Diverting surges to ground at the service entrance device is the best way to eliminate the damage caused by these external surges.
- **Telephone system:** Surges through this system can cause damage to answering machines and telephones. Computer modems and DSL equipment are especially vulnerable to these lightning-induced surges as they are directly connected to telephone lines.
- **Coaxial cable satellite TV system:** Similar to the telephone system, coaxial cable can carry surges from local lightning activity, causing harm to connected equipment such as TV receivers and computers (when connected via cable modem).

Protecting valuable appliances and home electronics requires a two-stage, whole house approach. The first stage of protection is to use a whole house surge device at the service entrance to stop damaging surges from entering the home. The Square D Surgebreaker Plus whole house surge protector helps prevent the damage surges can cause when they jump between sources by providing a common, low impedance path to ground for the electrical, telephone and coaxial cable TV systems. It is rated for up to 60,000A of protection with a solid state design to protect 120/240V circuits, four telephone lines and two coaxial television lines for cable or satellite TV. In homes where the lines cannot be routed to the load center, the Square D Surgebreaker Secondary Surge Arrester or Hard-Wired Secondary Surge Arrester is recommended to protect the electrical system against externally generated surges.

> Don't Get Caught in the Dark

When severe weather interrupts your utility power, the effects can be more than the lights going out. Food may defrost in your freezer, your basement could flood, or the home office your livelihood depends on could become useless. As we become more reliant

on the electrical lifeline of our homes, it is important to be prepared for unexpected service interruptions. To prevent a power outage from happening in your home, purchase a generator and the system to interface with your home's electrical equipment. The Square D generator panel includes two factory-installed QO main circuit breakers, one fed by the utility and the other by an alternate power source, such as a generator.

Features:

- Allows you to connect a standby power source to as many as eight circuits
- Lets you change from the utility power to a standby source with the flip of two QO main circuit breakers
- Mechanical interlock ensures that only one main circuit breaker is in the "ON" position at any time
- Uses up to eight genuine Square D QO circuit breakers

Another alternative to adding a subpanel is to modify your existing load center to be generator capable. A limited number of Square D load centers now can be converted to be generator capable with the Square D generator interlock kit.

Features:

- Interlocks the QOM2 main breaker with a double-pole breaker back-fed from a generator
- No need for a separate generator panel
- Avoid the inconveniences that an unexpected power outage can cause
- Direct generator power to any circuit within the home

With minimal cost and labor, you can add standby generator switch capability to your existing Square D load center and have the flexibility to control the power wherever you choose in your home.

Contact your Square D sales representative today for more product information or call our Customer Service Department at 1-800-432-2599.



According to the National Weather Service, if you can hear thunder, you are close enough to a storm to be struck by lightning!

Choosing The Right Load Center: QO vs. Homeline

> Two configurations of load centers:

- **Main Breaker Type** – includes a factory installed main breaker, which manually disconnects all electrical service to the load center and automatically protects the load center main bus bar from short circuits and overloads.
- **Main Lugs Type** – does not include a factory installed main breaker. This type is used when the load center is protected by a separate and upstream overcurrent device such as a circuit breaker or fusible safety switch.

> The Interior of the Load Centers consists of:

- **Main Breaker (or Main Lugs)** – connects and distributes incoming electrical power to the bus bars
- **Main Bus Bar** – conducts electrical current to the attached branch circuit breakers
- **Ground Bar** – provides connections for the equipment grounding wires
- **Branch Circuit Breakers**
- **Neutral** – provides connections for branch neutral wires

> QO... The Ultimate Choice for Load Centers

**Main Breaker
Designed For
Straight-In Wiring**
minimizes bending
service cable and
cuts waste

**22,000A Standard
Short Circuit Rating**
higher short
circuit protection

Removable Interior
mounts quickly and
easily with single,
captive screws

Visi-Trip® Indicator
quick identification of
tripped circuit breakers

**Shielded
Copper Bus**
has two rugged
polymer shields to
insulate and secure
the interior

AFI Circuit Breaker
reduces fire risk by
detecting arc faults

**GFI Circuit Breaker
To 60A**
ground fault protection
for many applications



**Tangential Main
Service Knockouts**
no costly conduit offsets
and bends

**Combination
Slot/Square Drive
Neutral, Ground
and Cover Screws**
let you use a standard
flat blade or square-
head driver for
improved torque

**Qwik-Open
Feature on
15A and 20A
Single-Pole
Circuit Breakers**
unsurpassed short
circuit protection

**Surgebreaker
Secondary
Surge Arrester**
protection against
surges up to
20,000V

**Automatic Flush
Cover Adjustment**
reduced installation time
(see actual cover)

**Tandem Circuit
Breaker**
two single-pole circuits
utilizing one single-pole
space in load center

This display is for example purposes only. Your actual application or installation may vary. Consult a qualified electrician when making changes to your electrical system. Local codes must be consulted in addition to the NEC.

> More Features: (Both QO and Homeline Products)

- **Fully Convertible** – Load centers can convert from main breaker to main lug and main lug to main breaker which provides on-site flexibility for changing job-site requirements.
- **Main Lug** – Factory-included ground bar in all 12 circuit and higher QO load centers. Homeline main lug load centers are available with factory-installed ground bars on select catalog numbers. Three locations to install to meet customer requirements in the field.
- **Branch Wiring** – Now included on QO as standard, three neutral terminations suitable for up to 1/0 wire. Provides economical, convenient and fast branch wiring for high current circuits with no extra lugs to purchase. Available on QO load centers 12 circuits and higher.
- **Top or Bottom Feed** – Top or bottom feed without modification simplifies installation and meets all job-site applications.
- **Cover** – Included with most indoor and rainproof load centers. It is identified according to surface or flush mounting. The cover and the box together are known as the enclosure

> Homeline

Tangential Main Service Knockouts

no costly conduit offsets and bends

Main Breaker Designed For Straight-In Wiring

minimizes bending service cable and cuts waste

Removable Interior

mounts quickly and easily with single, captive screws

Surgebreaker Secondary Surge Arrester

protection against surges up to 20,000V

GFI Circuit Breaker To 50A

ground fault protection for many applications

Automatic Flush Cover Adjustment

reduced installation time (see actual cover)



22,000A Standard Short Circuit Rating

higher short circuit protection

Combination Slot/Square Drive Neutral, Ground and Cover Screws

let you use a standard flat blade or square-head driver for improved torque

AFI Circuit Breaker

reduces fire risk by detecting Arc Faults

Tandem Circuit Breaker

two single-pole circuits utilizing one single-pole space in load center

Qwik-Open Feature on 15A and 20A Single-Pole Circuit Breakers

unsurpassed short circuit protection

This display is for example purposes only. Your actual application or installation may vary. Consult a qualified electrician when making changes to your electrical system. Local codes must be consulted in addition to the NEC.

Product Index Locator

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86784	Q011224L125GRB	16	83801	Q0140CP	9	80438	Q024L70RBCP	16	05472	Q0M80VH	17	39642	SO1020VP	45
86845	Q0112L125GC	16	86766	Q0140M200C	15	80436	Q024L70SCP	16	05473	Q0M90VH	17	32803	SO2040M200S	35
86785	Q0112L125GRB	16	86813	Q0140M200RB	15	52220	Q0250C	9	S.O.	Q0RBGK2C	57	39643	SO2040VP	45
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84127	Q0112M100C	15	86815	Q0142L225GRB	16	04392	Q0250GFICP	10	07198	Q0T2020C	10	29190	SU3040M200R	35
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30133	Q0115AFIC	11	48438	Q0148L125GF	16	83806	Q0260CP	9	00255	Q0THPA	12	30117	UFP222R	53
61044	Q0115CAFIC	11	48439	Q0148L125GRB	16	04393	Q0260GFICP	10	17831	Q0THTCP	12	42026	UFP222RD	53
83798	Q0115CP	9	48440	Q0148L125GS	16	62887	Q0260NATR	54	33450	Q0VP1	45	60710	UFP222RGI	53
52231	Q0115GFICP	10	00893	Q0150CP	9	62886	Q0260NATS	54	26473	Q0VP10	45	32800	UFP222RNM	53
40007	Q0115HM	9	07195	Q01515C	10	00895	Q0270CP	9	33451	Q0VP2	45	91163	UHTRS101B	37
84130	Q011624L125G	16	08277	Q01515CP	10	52227	Q0280CP	9	86398	RC12L200C	34	91167	UHTRS213B	37
86788	Q011624L125GRB	16	86816	Q01612M125FTRB	15	52228	Q0290CP	9	00104	RC12L200CH	34	62764	URTRS101B	37
84773	Q0116L125G	16	86817	Q01816M150FTRB	15	78471	Q02DTIM	12	30884	RC1624M100S	36	29113	URTRS213B	37
84775	Q0116M100C	15	86818	Q01816M200FTRB	15	80432	Q02L30SCP	16	30885	RC1624M125S	36	29120	UT2R1121B	37
86794	Q0116M100RB	15	62331	Q01DM10020TRBR	57	80437	Q02L40RBCP	16	39318	RC200S	34	29124	UT2R1222B	37
84777	Q012024L125G	16	88322	Q01DM10030TRBR	57	69267	Q03040M200VP	45	00284	RC2040M125CH	36	62768	UTH4213T	37
84779	Q012030L150G	16	46880	Q01DM10050TRBR	57	05175	Q03100BNF	55	87831	RC2040M150CH	36	62782	UTH5213T	37
86796	Q012030M150RB	15	79864	Q01HPLCP	12	05177	Q03100BNRB	55	19336	RC2040M200C	36	62663	UTRS101B	37
84783	Q012040M200C	15	57040	Q01HTCP	12	05176	Q03100BNS	55	48190	RC2040M200CGP	45	62766	UTRS213B	37
86797	Q012040M200RB	15	49462	Q01LOCP	12	87965	Q032M100VP	44	84116	RC2040M200CH	36			
30134	Q0120AFIC	11	49743	Q01PACP	12	86820	Q048M30DSGP	57	39669	RC2M200S	34			
52238	Q0120C	9	51907	Q01PL	12	82434	Q048M60DSGP	57	86397	RC816D200CH	34			

Notes

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