Section 1
Load Centers

Plug-on Neutral Load Center Main Breaker, Convertible Mains

1Ø3W—120/240 Vac Indoor—UL Listed

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

Table 1.1: Convertible Main Breaker Plug-on Neutral Load Centers (Compatible with QO Plug-on Circuit Breakers and QO Plug-on Neutral Circuit Breakers)

		Mains Rating	Spaces	Max. 1P Circuits	Max. Tandem Breakers	Load Center Box and Interior	Load Center Covers: Flush/Surface	Load Center Covers: Mono-Flat	Al	Cu	Bus Rating	Equipment Ground Bar Kit (Order Separately)	Box No. [1]
 QO154M200P	INDOOR	Convertible Mains — Factory-Installed Main Circuit Breaker— 22 kA Short Circuit Current Rating Convertible to Main Lugs (see below) or Lower Amperage Main Circuit Breaker (see "QO Standard Plug-On Circuit Breakers" in Section 1 of the Digest) [2], QOM2 Main Circuit Breaker Frame Size—Copper Bus											
		150 A	20	30	10	QO120M150P	QOC30UF[3] QOC30US	QOCMF30UCW[4]	4-250		225	PK15GTA	9
		200 A	20	30	10	QO120M200P	QOC30UF[3] QOC30US	QOCMF30UCW[3]	4-300	4-250	225	PK15GTA	9
		225 A	40	60	20	QO140M225P	QOC42UF[3] QOC42US	QOCMF42UCW[3]	4-300		225	PK23GTA	11
Above listings through 200 A mains rating meet Federal Specification W-P-115c as Type 1, Class 2.													

QO Plug-On Neutral Load Center with Qwik-Grip™

1Ø3W—120/240 Vac Indoor—UL Listed

QO Plug-on Neutral
Load Center with Qwik-Grip™

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

Table 1.2: Plug-on Neutral Load Centers with Qwik-Grip (Compatible with QO Plug-on Circuit Breakers and QO Plug-on Neutral Circuit Breakers)

	Mains Rating	Spaces	Max. Single Pole Circuits	Max. Tandem Circuit Breakers	Load Center Box and Interior	Indoor Cover with Door (Order Separately): Flush/Surface	Indoor Cover with Door (Order Separately): Mono-Flat	Main Wire Size AWG/kcmil: Al	Main Wire Size AWG/kcmil: Cu	Bus Rating	Equipment Gound Bar Kit	Box No.
INDOOR	Convertible Mains—Factory-Installed Main Lugs, 65 kA Short Circuit Current Rating—Copper Bus, QOM1 Main Frame Size, Convertible to Main Circuit Breaker											
	125 A	30	34	4	QO130L125PQG	QOC30U125C	—	6–2/0		125	PK23GTAL Included	9Q
	Convertible Mains-Factory—Installed Main Lugs, 65 kA Short Circuit Current Rating—Copper Bus, QOM2 Main Frame Size, Convertible to Main Circuit Breaker											
	225 A	54	72	18	QO154L225PQG	QOC54UF[3]	—	6–300		225	PK23GTAL	9Q
	Convertible Mains—Factory-Installed Main Circuit Breaker, 22 kA Short Circuit Current Rating—Copper Bus, QOM2 Main Frame Size, Convertible to Main Lugs or Main Circuit Breaker											
	200 A	54	72	18	QO154M200PQ	QOC54UF[3]	—	4–250		225	PK23GTA (Order separately)	12Q

[1] See Indoor Enclosure Dimensions and Knockout Information in the Digest..
[2] 22 k AIR main circuit breaker UL Listed for use ahead of QO, QOT and QO-PL 10 k AIR branch circuit breakers to permit their application on systems with up to 22 kA available fault current.
[3] Available in gray and white. For white equivalencies, add the "W" suffix to the reference, or see QO Load Center Accessories in Section 1 of the Digest..
[4] Available in gray and white. For white equivalencies, add the "W" suffix to the reference, or see QO Load Center Accessories in Section 1 of the Digest.

QO Load Centers with Included Cover
1Ø3W—120/240 Vac Indoor—UL Listed

Table 1.3: Load Centers with Included Cover (Compatible with QO Plug-on Circuit Breakers and QO Plug-on Neutral Circuit Breakers)

Mains Rating	Short Circuit Current Rating	Spaces	Max. 1P Circuits *[5]*	Max. Tandem Circuit Breakers	Load Center *[6]* Box, Interior, and Cover	Al	Cu	Bus Rating	Equipment Ground Bar Kit	Box No. *[7]*
125 A	65 kA	20	24	4	QO120L125PGC	6-2/0		125	PKGTALP1 Included	6
Convertible Mains—Factory-Installed Main Lugs *[8]*—QOM2 Main Frame Size—Convertible to Main Circuit Breaker (See "QO Standard Plug-On Circuit Breakers" in Section 1 of the Digest)—Copper Bus										
225 A	65 kA	54	72	18	QO154L225PGC	4-300		225	PK23GTA, LK100AN Included	12
Convertible Mains—Factory-Installed Main Circuit Breaker—QOM1 Main Frame Size—Convertible to Main Lugs (See "1Ø, Field-Installed Mains Kits" in Section 1 of the Digest) or Lower Amperage Main Circuit Breaker (See QO Standard Plug-On Circuit Breakers in the Digest)—Copper Bus *[9]*										
100 A	22 kA	16	24	8	QO116M100PC	6–2/0	6–1	125	PK9GTA	6

[5] Maximum single pole branch circuits utilizing QO and/or QOT circuit breakers.
[6] Order F for flush device or S for surface device.
[7] See Indoor Enclosure Dimensions and Knockout Information in the Digest.
[8] UL Listed 5000 A short circuit current rating for corner grounded Delta systems. Use QO-H circuit breakers only.
[9] 22 k AIR main circuit breaker UL Listed for use ahead of QO, QOT and QO-PL 10 k AIR branch circuit breakers to permit their application on systems with up to 22 kA available fault current.

Backup Power Solutions
1Ø3W—120/240 Vac Backup Power—UL Listed

Table 1.4: Backup Power Solutions

	Mains Rating (A)	Spaces	Max. Single Pole Circuits *[10]*	Max. Tandem Circuit Breakers	Load Center Box, Interior and Cover	Equipment Grounding Bar Kit (Order Separately)	Main Wire Size AWG/kcmil		Bus Rating	Box No. *[11]*
							Al	Cu		
INDOOR	Split Bus Plug-On Neutral Load Centers—Manual Transfer for use with Temporary Backup Power Source Applications NEMA 1 (Indoor)									
	200	48	48	0	QO122X26M200PC	PK23GTA	4–250	4–250	—	12
		36	69	34	HOM1427X2242M200PC	PK27GTA	4–250	4–250	—	12
RAINPROOF	Generator Panels—Manual Transfer with Generator Power Inlet Plug for Sub-Feed Applications NEMA 3R (Outdoor)									
	Factory-Installed Main Circuit Breakers with Mechanical Interlock—10 kA Short Circuit Current Rating									
	100	4	8	4	QO1DM10020TRBR	Factory-Installed	—	8–2	100	17R
	Split Bus Plug-On Neutral Load Centers—Manual Transfer for use with Temporary Backup Power Source Applications NEMA 1 (Indoor)									
	200	48	48	0	QO122X26M200PC	PK23GTA	—	4–250	—	12

[10] Maximum single pole branch circuits utilizing QO and/or QOT circuit breakers.
[11] See QO/Homeline Load Center Dimensions in Section 1 of the Digest.

QO Standard Load Center Main Lugs and Main Breaker, Fixed Mains

1Ø3W—120/240 Vac Special Applications—UL Listed

Table 1.5: Low Amperage Fixed Main Lugs Indoor Load Centers (Accepts Only QO Plug-on Circuit Breakers - Not compatible with QO Plug-on Neutral Circuit Breakers)

	Mains Rating	Spaces	Max. 1P Circuits *[12]*	Max. Tandem Circuit Breakers	Load Center Box and Interior	Indoor Cover with Door		Main Wire Size AWG/kcmil		Bus Rating	Equipment Ground Bar Kit (Order Separately)	Box No. *[13]*
						Flush	Surface	Al	Cu			
INDOOR	Fixed Mains—Factory-Installed Main Lugs—10 kA Short Circuit Current Rating *[14]*											
	100 A	6	12	6	QO612L100DFCU	Cover Included—With Door		8–1		100	PK7GTA	4
		8	16	8	QO816L100DFCU	Cover Included—With Door				100	PK7GTA	4

Table 1.6: Low Amperage Fixed Mains Indoor Load Centers with Factory Installed Ground Bar (Accepts Only QO Plug-On Circuit Breakers - Not compatible with QO Plug-on Neutral Circuit Breakers)

	Mains Rating	Short Circuit Current Rating	Spaces	Max. 1P Circuits *[12]*	Max. Tandem Circuit Breakers	Load Center *[15]* Box, Interior, and Cover	Equipment Ground Bar Kit (Order Separately)	Main Wire Size AWG/kcmil		Bus Rating	Box No. *[13]*
								Al	Cu		
INDOOR	Manufactured Housing: 1Ø2W 120 Vac—Main Lugs Only—CSA Certified										
	30 A *[16]*	10 kA	2	2	0	QO2L30TTS *[17]*	Factory-installed	12–10	14–10	30	1
	50 A	10 kA	2	4	2	QO24L50TTS *[18]*	Factory-installed	—	14–6	70	2
	1Ø2W 120 Vac—Main Circuit Breakers—CSA Certified										
	30 A	10 kA	3	5	2	QO35FM30TTF	Factory-installed	*[19]*		—	3
	1Ø3W 120/240 Vac—Main Lugs Only—CSA Certified										
	100 A	10 kA	6	12	6	QO612L100TF	Factory-installed	4–1		100	4
			6	12	6	QO612L100DTF *[20]*				100	4
			8	16	8	QO816L100TF				100	4

[12] Maximum single pole branch circuits utilizing QO and/or QOT circuit breakers.
[13] See Indoor Enclosure Dimensions and Knockout Information in the Digest..
[14] UL short circuit current rating depends on lowest interrupting rating of circuit breaker installed.
[15] Order F for flush device or S for surface device.
[16] Mains rated 25 A when Al wire is used.
[17] Will not accept Qwik-Gard™ QO-GFI or QO-AFI circuit breaker.
[18] Use 10 AWG maximum size wire for GFI and AFI circuit breakers.
[19] Main circuit breaker is a field-installed standard QO single pole circuit breaker. Order separately from page 1–2 and 1–3.
[20] 70 A max. branch circuit breaker and 70 A max. back fed main circuit breaker.

QO Riser Panels

1Ø3W—120/240 Vac Special Applications—UL Listed

Table 1.7: Riser Panels for Offset Interior for Wide Gutter—30 A Maximum Branch Circuit Breaker on Left Side of Interior *[21]*, *[22]* **(Compatible with QO Plug-on Circuit Breakers and QO Plug-on Neutral Circuit Breakers)**

	Mains Rating	Spaces	Max. Single Pole Circuits *[23]*	Max. Tandem Circuit Breakers	Load Center Box and Interior	Load Center Cover		Equipment Ground Bar Kit (Order Separately)	Main Wire Size AWG/kcmil		Bus Ratings	Box No. *[24]*
						Flush	Mono-Flat		Al	Cu		
INDOOR	Convertible Mains—Factory-Installed Main Lugs, 65 kA Short Circuit Current Rating Convertible to QOM1 22 kA Short Circuit Current Rating Main Circuit Breaker (See page) when used with QOC cover below—Copper Bus											
	125 A	12	24	12	QO112L125PWG	QOC20UFWG *[25]*	NQC20FWGW *[25]*	PK15GTA	6–2/0		125	14
	Convertible Mains—Factory-Installed Main Circuit Breaker, 22 kA Short Circuit Current Rating Convertible to Main Lugs (See “Indoor, 1Ø, Main Circuit Breaker” or “Lower Amperage QOM2 Main Circuit Breaker” in Section 1 of the Digest) when used with QOC cover below—Copper Bus											
	200 A	24	36	12	QO124M200PWG125 *[26]*	QOC30UFWG *[25]*	NQC30FWGW *[25]*	PK23GTA	4–250		225	23

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

Panelboard-style Covers for Riser Panels

Mono-Flat™ Front available for riser panels as an alternative to standard load center cover. Provides a low-profile, aesthetically pleasing solution for high-traffic areas in upscale multi-family applications. Deadfront included. Lock kit not provided. *[27]*

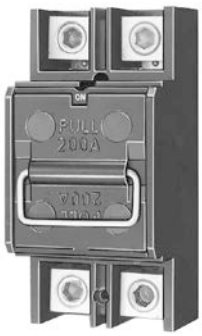
Main Rating of Load Center	Catalog No.
125 A	NQC20FWG
200 A	NQC30FWG

Table 1.8: Tap Kits for Use with Auxiliary Gutter

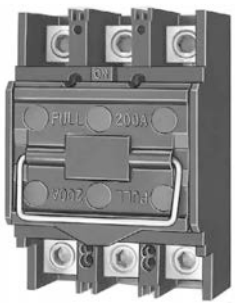
Cat. N0.	Use with Auxiliary Gutter Cat. No.	Riser Wire		Tap Off Wire	
		Lug Type	Al/Cu Wire Size	Lug Type	Al/Cu Wire Size
SDGT300C10C	SDAG26	Anderson VCEL030516H1 (Not included)	(2) 4 AWG–300 kcmil	Anderson VCEL02114S1 (Not Included)	(1) 8–1/0 AWG
SDGT300C300C	SDAG26	Anderson VCEL030516H1 (Not included)	(2) 4 AWG–300 kcmil	Anderson VCEL030516H1 (Not included)	(1) 4 AWG–300 kcmil

[21] UL short circuit current rating depends on lowest interrupting rating of circuit breaker installed.
[22] UL Listed 5000 A short circuit current rating for corner grounded Delta systems. Use QO-H circuit breakers only.
[23] Maximum single pole branch circuits utilizing QO and/or QOT circuit breakers.
[24] See Indoor Enclosure Dimensions and Knockout Information in the Digest..
[25] Available in gray and white. For white equivalencies, add the “W” suffix to the reference, or see QO Load Center Accessories in Section 1 of the Digest..
[26] Comes with 125 A main circuit breaker factory installed.
[27] Order catalog number PK4FL for field-installed lock kit.

Class T Fusible Pullouts



FTL2200

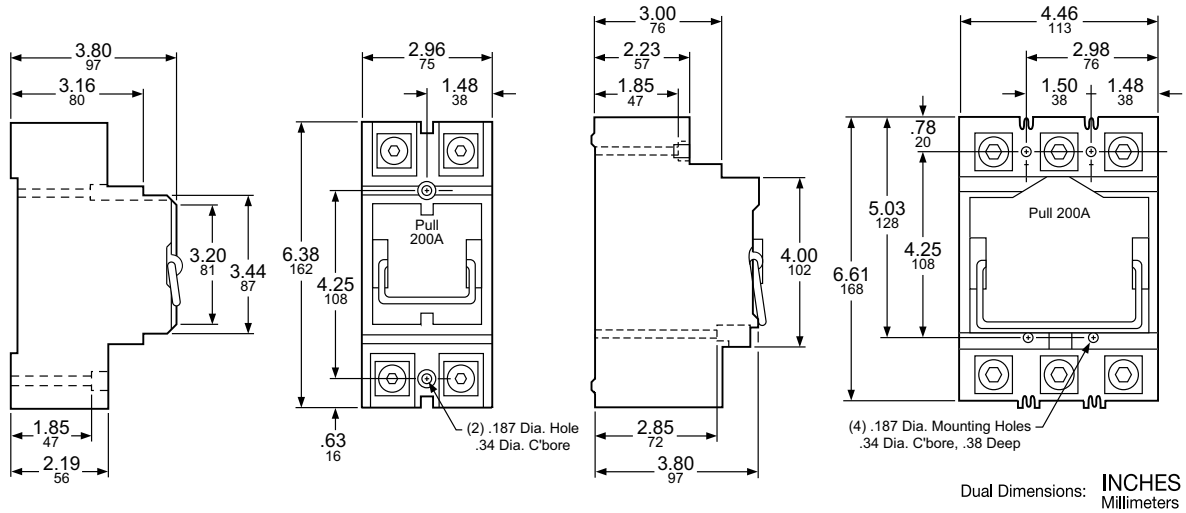


FTL3200

- 2- or 3-pole fusible pullouts
- 200 A maximum 300 V Class T fuses (not included)
- 1Ø3W 120/240 V
  1Ø2W 240 V
- 3Ø3W 240 V delta
  3Ø4W 240/120 V delta
  3Ø4W 208Y/120 V
- UL Listed 100 kA short circuit current rating

Table 1.9: Fusible Pullouts

Mains		Cat. No.		Main Wire Size AWG/kcmil	Fuse Pullout Only
System	Rating	Two Pole	Three Pole		
1Ø3W 120/240 V 1Ø2W 240 V	100 A	FTL2100 *[1]*	—	4–250 Al/Cu	4050704950 *[1]*
	200 A	FTL2200 *[1]*	—		4050703850 *[1]*
3Ø3W 240 V delta 3Ø4W 240/120 V delta 3Ø4W 208Y/120 V	100 A	—	FTL3100		4050707050 *[1]*
	200 A	—	FTL3200		4050705950 *[1]*



Circuit Breaker Covers

Table 1.10: Covers

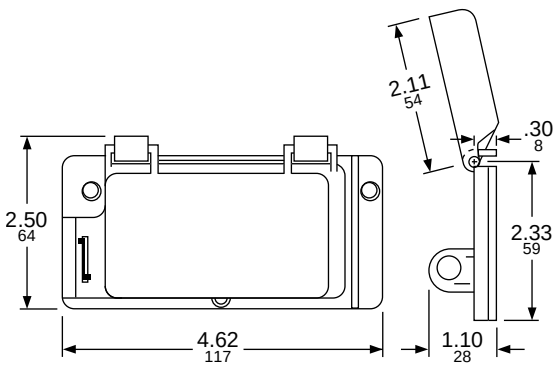
Quantity	Cat. No.
1	BCH
1	BCV

Available now from Square D™ / Schneider Electric™ are two different versions of rainproof circuit breaker covers which are UL component recognized as being suitable for use as circuit breaker handle covers.

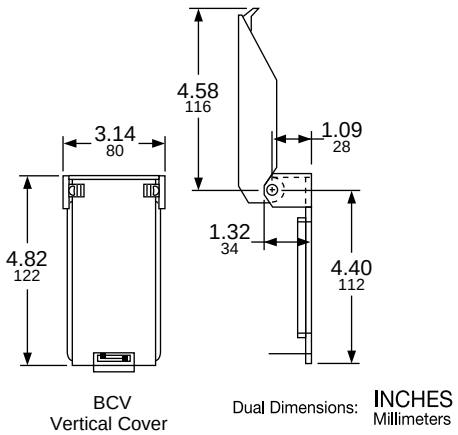
They are constructed of durable impact-resistant material and are intended for use by OEMs where a rainproof cover is needed (e.g. on heat pumps and air conditioners with built-in disconnects). Both models have a built-in latch with padlock provisions.

The BCH covers are for use on a horizontally-mounted circuit breaker and fit over Square D two-pole QO™, QOU, Q2, EH and three-pole Q2 and EH circuit breakers.

The BCV covers are for use on vertically-mounted circuit breakers and will fit over Square D two- and three-pole QO, QOU, Q2, EH, FA and KA circuit breakers.

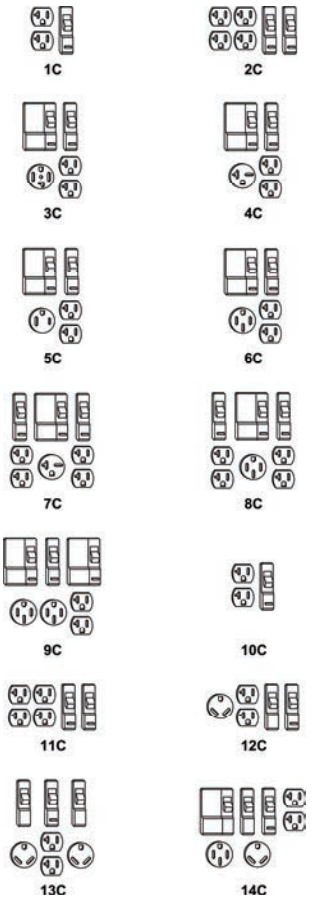


BCH
Horizontal Cover



BCV
Vertical Cover

[1] Not stocked in PDS. Order point Lexington.



Power Outlet Panels for Construction Sites

- Provide temporary power at construction sites.
- Each receptacle protected by QO-GFI circuit breaker in compliance with NEC® requirements.
- Each enclosure is rainproof.
- 10 kA short circuit current rating.
- UL Listed as suitable for use as temporary site service equipment.
- Provided with neutral bonding provisions.
- Boxes have provisions for type “B’’ hubs to be field-installed.

Table 1.11: Construction Site Panels

Power Outlet Configuration	Service *[1]*	Mains Ampere Rating	Circuit Breaker (Included)	Receptacles (Included)					Cat. No. *[2]*	Main Wire Size AWG *[3]*	
				A	C	D	E	F		Cu	Al
1C	1Ø2W	40 A	(1) QO120GFI	1					PAK10C1 OBS	14–6	12–6
2C	1Ø2W	40 A	(2) QO120GFI	2					PAK11C *[4]*	14–6	12–6
2C	1Ø2W	40 A	(2) QO120GFI	2					PAK11C1	14–6	12–6
3C	1Ø3W	70 A	(1) QO120GFI (1) QO230GFI	1			1		PAK31CGFI	8–1	8–1
4C	1Ø3W	70 A	(1) QO120GFI (1) QO220GFI	1		1			PAK36C1GFI	8–1	8–1
5C	1Ø3W	70 A	(1) QO120GFI (1) QO250GFI	1				1	PAK51CGFI	8–1	8–1
6C	1Ø3W	70 A	(1) QO120GFI (1) QO250GFI	1	1				PAK55CGFI	8–1	8–1
7C	1Ø3W	70 A	(2) QO120GFI (1) QO220GFI	2		1			PAK72CGFI	8–1	8–1
8C	1Ø3W	70 A	(2) QO120GFI (1) QO250GFI	2	1				PAK76CGFI	8–1	8–1
9C	1Ø3W	100 A	(1) QO120GFI (2) QO250GFI	1	2				PAK1004CGFI	14–1	12–1

OBS This product is obsolete.

[1] (1Ø2W 120 Vac) (1Ø3W 120/240 Vac)
[2] Devices have a bolt-on factory-installed closing cap. Order type “B’’ bolt-on hub separately from page 1-18.
[3] Equipment ground terminal suitable for (2) 14 or 12 AWG Cu or (2) 12 or 10 AWG Al.
[4] Receptacles in this device are in bottom endwall and are accessible with outer door padlocked. “Order Only’’ from Lexington—Minimum order quantity is 50 devices.

A	20 A 125 V 2W and Grd. NEMA 5-20R
B	30 A 125 V 2W and Grd ANSI 73.13
C	50 A 125/250 V 3W and Grd. NEMA 14-50R
D	20 A 250 V 2W and Grd. NEMA 6-20R
E	30 A 125/250 V 3W and Grd. NEMA 14-30R
F	50 A 250 V 2W and Grd. NEMA 6-50R

All non-pedestal devices have provisions to field-install a Type "B" hub on the bottom endwall for bottom feed from a conduit riser. Order Type "B" bolt-on hub (B250 Max.) and two mounting screws (Cat. No. 8002505501) and two hex nuts (Cat. No. 2340102000).

Power Outlet Panels for Recreational Vehicle Parks

- Provide electrical power to individual recreational vehicle park sites.
- Each receptacle protected by appropriate GFI or Standard QO™ circuit breaker.
- All receptacles and circuit breakers included.
- 10 kA short circuit current rating.
- UL Listed.
- All enclosures are rainproof.
- No neutral bonding provisions.
- Loop-feed provisions.

Table 1.12: Recreational Vehicle Park Panels

Power Outlet Configuration	Service *[5]*	Mains Ampere Rating	Circuit Breaker (Included)	Receptacles (Included) *[6]* A	B	C	Cat. No.	Main Wire Size AWG/kcmil *[7]* Phase and Neutral Cu	Al
Underground or Overhead Loop-Feed Terminals—Non-Pedestal *[8] [9]*									
11C	1Ø2W	40 A	(2) QO120GFI	2			PAK11CTG	14–6	12–6
12C	1Ø2W	50 A	(1) QO120GFI (1) QO130	1	1		PAK41CTGFI		12–1
			(2) QO130	1	1		PAK41CTG		
14C	1Ø3W	100 A	(1) QO120GFI (1) QO250 (1) QO130	1	1	1	PAK75CTGFI (Not Loop Feed)	14–1	12–1
			(1) QO250 (1) QO130 (1) QO120GFI	1	1	1	PAK75CTG (Not Loop Feed)		
Pedestal Mounted—Underground Loop-Feed Terminals *[10]*									
11C	1Ø2W	40 A	(2) QO120GFI	2			PAK11PG	(2) 6–250	
12C	1Ø2W	50 A	(1) QO120GFI (1) QO130	1	1		PAK41PGFI		
			(2) QO130	1	1		PAK41PG		
13C	1Ø2W	75 A	(1) QO120GFI (2) QO130	1	2		PAK61PGFI[OBS]		
			(3) QO130	1	2		PAK61PG[OBS]		
14C	1Ø3W	100 A	(1) QO120GFI (1) QO250 (1) QO130	1	1	1	PAK75PG FI		
			(1) QO250 (1) QO130 (1) QO120GFI	1	1	1	PAK75PG		

[OBS] This product is obsolete.

[5] (1Ø2W 120 Vac) (1Ø3W 120/240 Vac)
[6] 20 A receptacles protected by 20 A GFI circuit breaker.
[7] Two wires each per phase, neutral, and equipment ground—for loop feed (except PAK75CTG).
[8] Devices have a bolt-on factory-installed closing cap. Order type "B" bolt-on hub separately from page 1-18.
[9] Equipment ground terminal suitable for (2) 14–12 AWG Cu or (2) 12–10 Al.
[10] Equipment ground terminals suitable for (2) 10–2/0 AWG Cu or (2) 6–2/0 AWG Al.