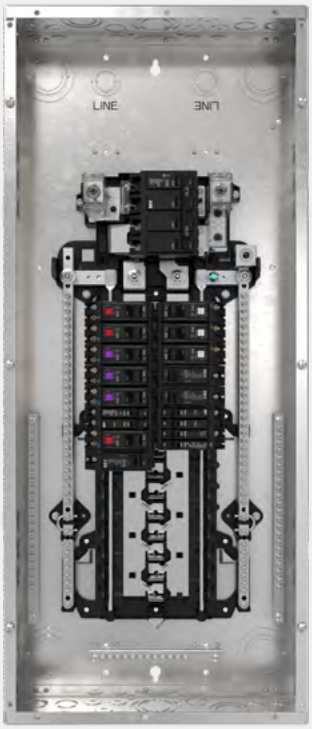
ReliaHome™ Load Centers
T-Series, P-Series, P-Series+
Application guide



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Difference between offerings

	ReliaHome T-Series	ReliaHome P-Series	ReliaHome P-Series+	ReliaHome 3-Phase
Service Voltage		120/ 240V AC, 1Ph 3W		-
		208Y/ 120V AC, 1Ph 3W		208Y/120 V AC, 3Ph 4W
Panelboard amperage	Up to 125A		Up to 225A	
Interrupting rating		22,000 AIC at 120/ 240V		
No of 1" spaces	Up to 14 Spaces	8 space – feed through, 16 Spaces to 60 Spaces		Up to 42 Spaces
Busbar material	Copper	Aluminum	Copper	Aluminum/Copper for 3 Phase
Busbar plating		Tin		
Main lug	+	+	–	+
Main Lug convertible	+	–	+	+
Main circuit breaker	+	+	+	+
Enclosure rating		Indoor (Type 1 – UL50E)		
		Outdoor (Type 3R – UL50E)		
Standard listing		UL67 (E21790)		

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Main circuit breaker kit for 'Main Lug convertible' Load centers or for use as a replacement

Ampacity	ReliaHome T-Series	ReliaHome P-Series and ReliaHome P-Series+
<100A	TQMH000(1)	TQMH000F(1)
100A	TQMH000(1) – Only for SKU# TLMXX12X… THQMV100E(3)	TQMH000F(1) THQMH100F – Only for SKU# PCCXX12X… THQMV100F(2)
125A	TQMH000(1) – Only for SKU# TLMXX12X… THQMV125E(3)	TQMH000F(1) THQMH125F – Only for SKU# PCCXX12X… THQMV125F(2)
150A	THQMV150E(3)	THQMV150F(2)
175A	THQMV175E(3)	THQMV175F(2)
200A	THQMV200E(3)	THQMV200F(2)
225A	THQMV225E(3)	THQMV225F(2)

(1) Order appropriate THQL 10kAIC or THHQL 22kAIC circuit breakers separately
(2) Applicable for all SKUs except PCCXX12X…
(3) Applicable for all SKUs except TLMXX12X…

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Main circuit breaker lug terminal wire size and torque (ReliaHome T-Series, ReliaHome P-Series, ReliaHome P-Series+)

Main circuit breaker kit#			Wire Size	Drive	Toque (LB-IN)
THQMH100F	Installed/ Accessory	60/75°C	#4 – 1/0 Cu-Al	Slotted	45
THQMH125F			#2 – 2/0 Cu-Al	Slotted	60
THQMV100E THQMV125F			#1 – 3/0 Cu 2/0 - 3/0 Al	Internal Hex	200
THQMV125E THQMV125F			#1 – 3/0 Cu 2/0 - 3/0 Al		
THQMV150E THQMV150F			#1 – 3/0 Cu 2/0 - 3/0 Al		
THQMV175E THQMV175F			#1 – 250 Cu 2/0 - 250 Al		
THQMV200E THQMV200F			#1 – 250 Cu 2/0 - 250 Al		
THQMV225E THQMV225F			#1 – 300 Cu 2/0 - 300 Al		

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Main lug kit for use with both 'Main Lug' and 'Main Lug convertible' load centers as a replacement (ReliaHome T-Series, ReliaHome P-Series, ReliaHome P-Series+)

Ampacity	Ampacity			Wire range	Drive	Torque
Up to 125A	TMLK125	Installed/ Accessory	60/75°C	6-2/0	Internal Hex	120 LB-IN
150 to 200A	TMLK200			6-250	Internal Hex	200 LB-IN
225A	TMLK225			1-300	Internal Hex	200 LB-IN

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Neutral/ground Lug Kit (ReliaHome T-Series, ReliaHome P-Series, ReliaHome P-Series+)

Ampacity	Ampacity			Wire range	Drive	Torque
Up to 125A	TNLK20	Installed/Accessory	60/75°C	6-2/0	Internal Hex	120 LB-IN
150 to 225A	TNLK250			1-300	Internal Hex	200 LB-IN

Branch circuit breaker options

Fig. 1.

- Q-line plug-in circuit breakers (Fig. 1.)
- Tandem and Quad circuit breaker (Fig. 2.)
- Arc-Fault Circuit Interrupter (AFCI)
- Ground Fault Circuit Interrupter (GFCI)
- Dual Function Circuit Interrupter (DFCI)

Fig. 2.

Installation

Consult instructions NEMA PB-1.1 located in the circuit directory on the front door before installing this panelboard. If necessary, order replacement manual from supplier.

Short circuit current rating

The Load Center's maximum short-circuit-current rating, measured in RMS symmetrical amperes, corresponds to the lowest interrupting circuit breaker or the combination of series-connected circuit breakers as specified in the series rating listed in DET008/1SQC930152D0228 at https://library.abb.com. Any devices installed or replacement units must be from the same manufacturer, of the same type, and have an equal or higher interrupting capacity.

Maximum continuous loads on main or branch circuits shall not exceed 80% of the handle ratings of the listed circuit breakers. Sum of Circuit Breaker Rating per stab can be found on Door rating label of each product.

Tripped circuit breaker

Circuit Breaker is tripped if toggle is in the middle position. To restore service, first move the handle to "OFF", then back to "ON".

- Outline QR/ Installation Instruction
- Convertible panel – cross phase connection
- Ground Kit panel compatibility

Wiring guidelines (Cu or Al)

- Use 60°C or 75°C ampacity sized wire on line and neutral and equipment ground terminals.
- Wire size and torque information could be found in door rating label.
- Refer to circuit breakers for allowable wire temperature rating, wire size and tightening torque.

Typical box

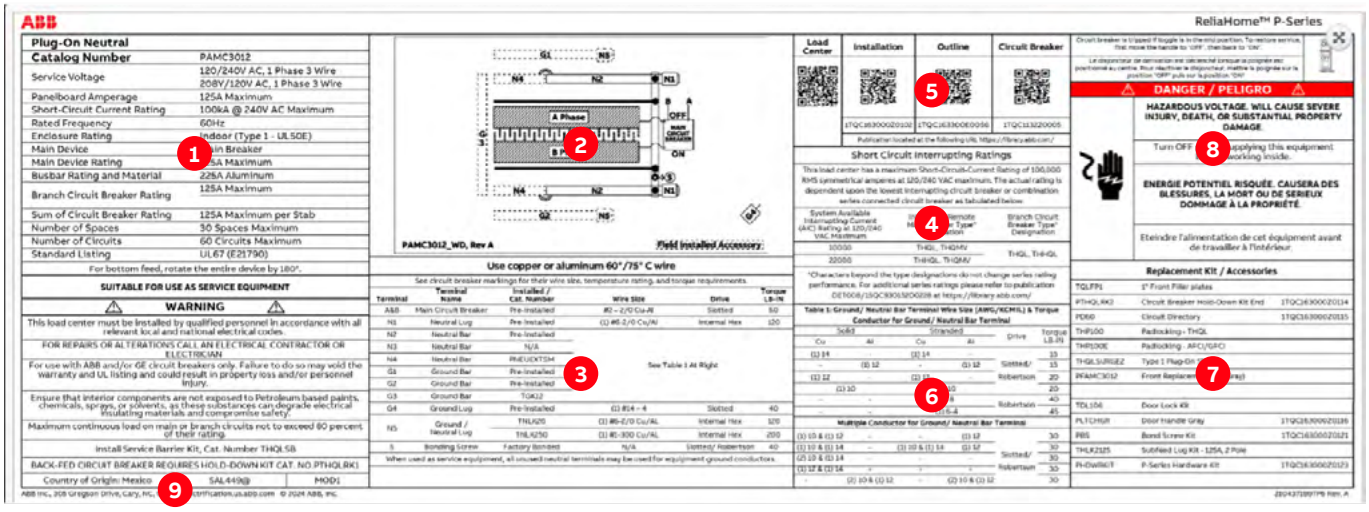
Box No.	Box Height
B1	19"
B2	23"
B3	24.69"
B4	28.44"
B5	33.19"
B6	35.44"
B7	39.19"
B8	49.19"

Space	Main Lug					Main circuit breaker				
	100A	125A	150A	200A	225A	100A	125A	150A	200A	225A
12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
16	N/A	B1	B3	N/A	N/A	B2	B2	B3	N/A	N/A
20	N/A	B2	B3	B3	N/A	B2	B2	B4	B4	N/A
24	N/A	B2	N/A	N/A	N/A	N/A	B2	N/A	N/A	N/A
30	N/A	B4	N/A	B4	N/A	B4	B4	B5	B5	N/A
40	N/A	N/A	N/A	B6	B6	B7	N/A	B7	B7	B7
60	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	B8	B8

N/A - No Catalog available

Fronts – rating labels location and details provided

1. Specification
2. Wiring diagram
3. Terminal type, wire size and torque
4. Short circuit rating and series rating details
5. QR Code for important web links, including installation instruction.
6. Ground/neutral wire size and toque
7. Kit options
8. Circuit breaker handle position and its meaning.
9. Batch code and design revision (Mod) information



Enclosure features

Indoor

- Our enclosures are made from sheet steel and include knockouts at the top, bottom, back, and sides.
- Our enclosures are made from sheet steel and include knockouts at the top, bottom, back, and sides.
- Center keyhole mounting holes at the top and bottom ensure easier mounting and leveling.
- Features patented drywall mounting depth locators (Patent no# US8830657B2).

Available in gray and white paint options.

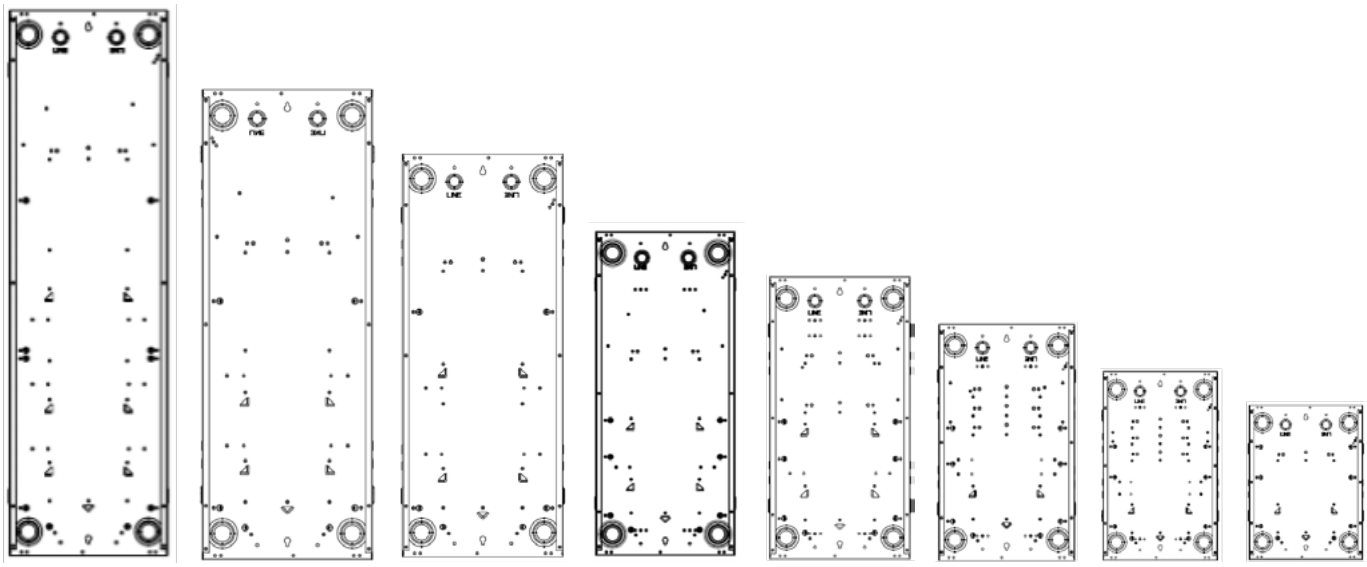
Outdoor

- Our enclosures are constructed from sheet steel with knockouts at the bottom, back, and sides, and come with a gray painted finish.
- Center keyhole mounting holes at the top and bottom ensure easier mounting and leveling
- Outdoor panels with 24 spaces and above have side-hinge doors that provide full wiring access without door removal.

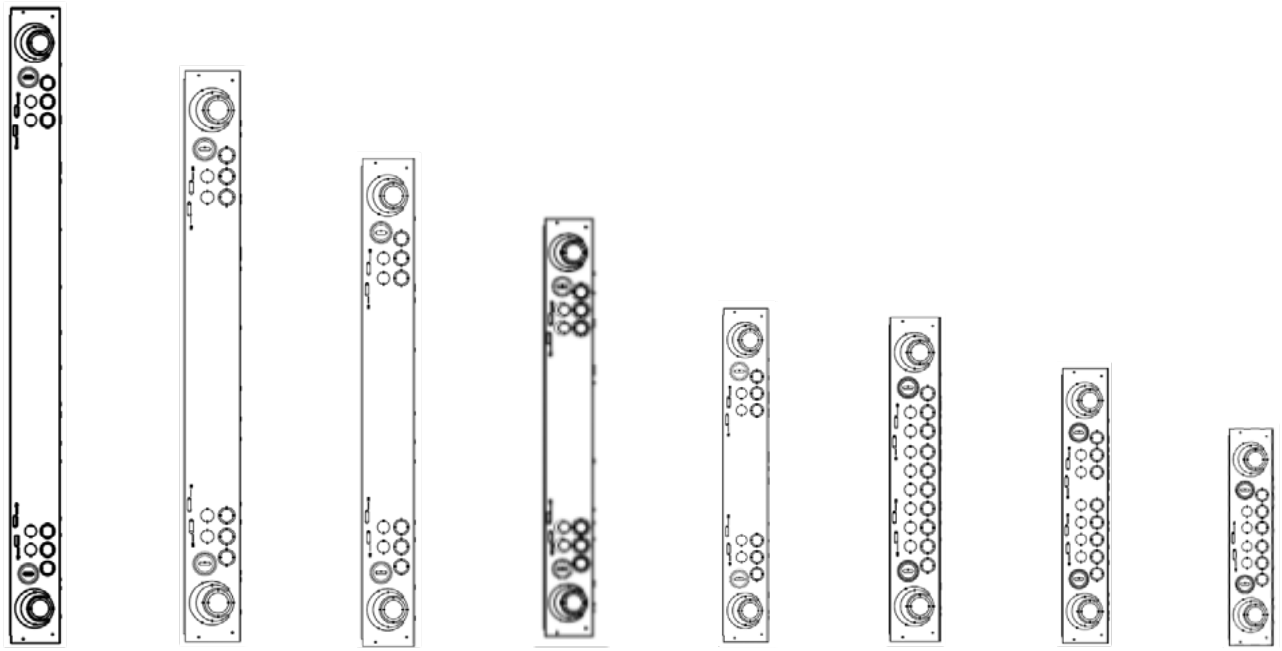
To ensure optimal appearance and durability, our painted assemblies undergo a comprehensive surface preparation process. This includes six stages of cleaning, zirconium application, drying, electrostatic powder coating, and baking.

Enclosure size

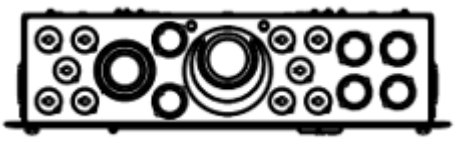
Indoor

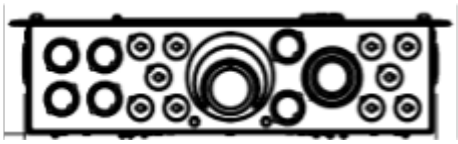


↑ Front View ↑							
I-Box 8	I-Box 7	I-Box 6	I-Box 5	I-Box 4	I-Box 3	I-Box 2	I-Box 1
49.2” Height	39.2” Height	35.5” Height	33.2” Height	28.5” Height	24.7” Height	23” Height	19” Height
14.35” Width x 3.8” Depth							
↓ Side View ↓							

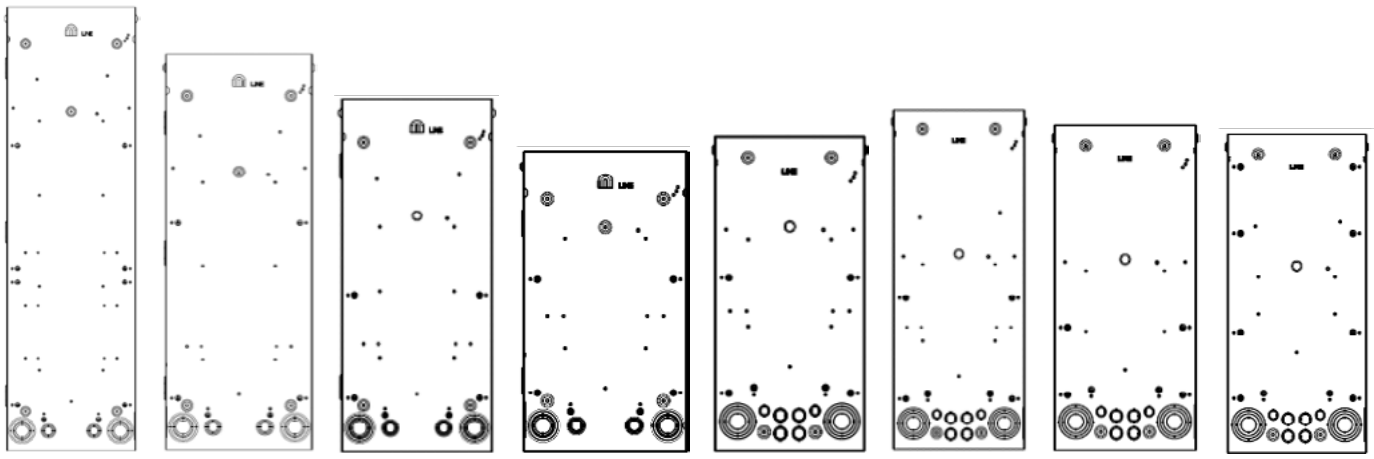


↓ Top end wall ↓	↓ Bottom end wall ↓

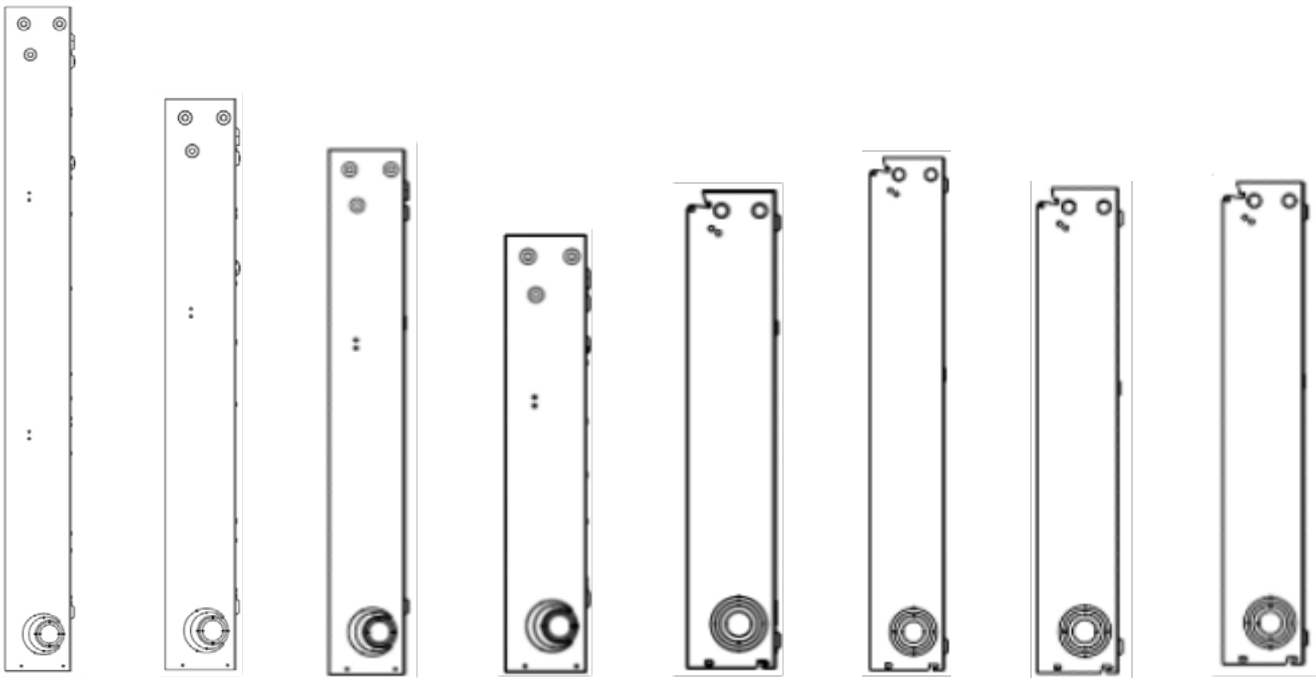




Outdoor

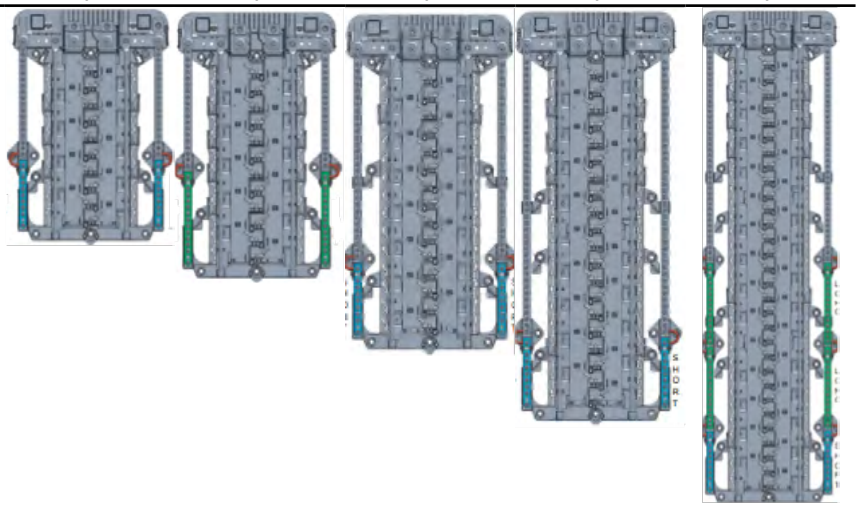


↑ Front View ↑							
O-Box 8	O-Box 7	O-Box 6	O-Box 5	O-Box 4	O-Box 3	O-Box 2	O-Box 1
48.7” Height	38.7” Height	33.2” Height	25.7” Height	26.5” Height	32.7” Height	28.7” Height	28.7” Height
14.6” Width x 4.63” Depth					12.9” Width x 4.63” Depth		
↓ Side View ↓							



↓Top End wall ↓	↓ Bottom End wall ↓	↓Top End wall ↓	↓ Bottom End wall ↓

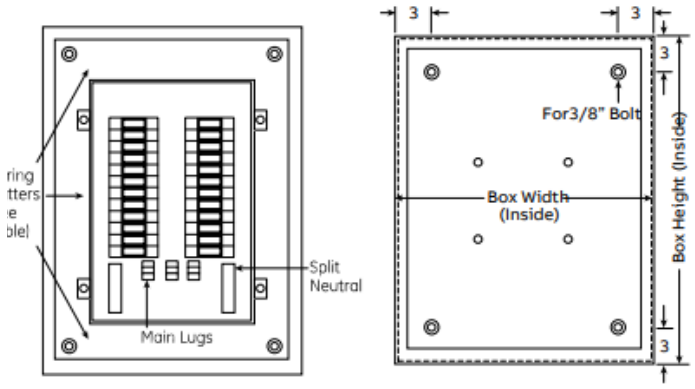
Neutrals – Both Factories Installed (I) and Field Kit (K)

8 Space	12 Space	16 Space	20 Space	24 Space	30 Space	40 Space	60 Space
							
↓ Installed # termination points (I) – Combined Left & Right ↓							
14(L) + 14(R)	17(L) + 17(R)	23(L) + 23(R)	16(L) + 16(R)	17(L) + 17(R)	29(L) + 29(R)	14(L) + 14(R)	38(L) + 38(R)
↓ Kit # of termination points (K) ↓							
N/A	N/A	N/A					
Refer Installation Instrcution…							

Neutrals – Riser Panel PXXXXXM

8 Space	20 Space	30 Space
↓ Installed # of termination points (I) –Right ↓		
14(L) + 14(R)	17(L) + 17(R)	23(L) + 23(R)

Mounting & wire space



Branch circuit devices	Frame	No. of poles	Minimum wiring spaces to side wall (20" wide box)
Double branched bolt-on devices	THQL, THHQL, THQB, THHQB	1, 2, 3	6.5"

Panel size	Box Cat. no.	Box Size inches	Front cat. no.
0–25.5	AB25B	25.5	AF25F,S
28.5–31.5	AB31B	31.5	AF31F,S
34.5–37.5	AB37B	37.5	AF37F,S
40.5–43.5	AB43B	43.5	AF43F,S
46.5–49.5	AB49B	49.5	AF49F,S
52.5–55.5	AB55B	55.5	AF55F,S
57.5–65.5	AB65B	65.5	AF65F,S
67.5–76.5	AB76B	76.5	AF76F,S

Front – Gray & White

Boxes
- Galvaneal painted and 316 stainless steel offerings
- Blank end walls are standard; knockouts are available when specified with NEMA 1 enclosures only
- Boxes furnished with provisions for ground bus as standard

Fronts
- Finished in ANSI-61 gray polyester powder coat paint
- Equipped with corrosion-resistant Valox combination catch and lock door latch (doors over 48" high provided with 2 latches)
- Equipped with concealed hinges and trim adjusting screws
- Directory holder permanently mounted to door

Panels
- Dead-front construction
- Interiors are factory assembled on rigid steel frames
- Metal gauges in accordance with UL and NEMA standards
- Solderless, anti-turn main lugs suitable for copper or aluminum wires are front removable and branch straps are silver-plated copper fully rated at 100 amperes
- Main bus is aluminum with copper branch connections unless otherwise specified
- Main disconnect device is identified when supplied, and numbers are provided for branch circuits
- Interior base assemblies are Noryl and provide circuit breaker mounting and busbar insulation

Branch circuit breaker options

Residential circuit breakers	Q-Line plug-in circuit breakers	15–125 A
	Tandem and Quad circuit breaker	15–40 A
Special purpose circuit breakers	Arc fault circuit interrupter (AFCI circuit breaker)	15–20 A
	Dual function (DFCI/AFCI) ground fault & combination arc fault circuit breaker	15–20 A
	Ground fault with self-test feature circuit breaker	15–60 A
	Ground fault with equipment protection circuit breaker	15–30 A
	Switching neutral circuit breakers	15–30 A
	HID lighting circuit breakers	15–30 A
	High magnetic circuit breakers	15–50 A
Special purpose switches and circuit breakers	Molded case switches	60–100 A
	Interlocking circuit breakers for use in ReliaHome generator panels	30–60 A
	THQL circuit breakers with factory installed shunt trip	15–35 A
	THQL circuit breakers, internal common trip with factory installed shunt trip	15–100 A
See Circuit Breaker markings for their wire size, temperature rating, and torque requirements.		
Maximum continuous loads on main or branch circuits shall not exceed 80% of the handle ratings of the listed circuit breakers. Sum of Circuit Breaker Rating per stab can be found on Door rating label of each product.		
Refer to ABB Buylog for circuit breaker catalog		
Please refer GET-2779K for ABB Molded case Circuit Breaker application and selection.		

ABB Ltd.
305 Gregson Drive,
Cary, NC, 27511

electrification.us.abb.com/residential

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1TQC1630002Z0229 REV A, MAY 2025