

ReliaGear™ Pro-Stock™ Lighting Panels

A lighting panelboard for projects with short turnaround

1. Select interior

Select the interior by bus type, panel rating and number of circuits. Identify the box/front height for use in steps 2 and 3.

Copper Bus

Voltage	Amp Rating	No. of Circuits	Feed-thru Cat. No. ¹	Box/Front Height	Non Feed-thru Cat. No. ²	Box/Front Height	TGL2 Ground Bars ³
240 Vac, 1 Phase	100-250	18	AQU1182RCXAXT1B4	37.5"	AQU1182RCXAXB4	31.5"	2
		30	AQU1302RCXAXT1B4	43.5"	AQU1302RCXAXB4	37.5"	3
		42	AQU1422RCXAXT1B4	49.5"	AQU1422RCXAXB4	43.5"	4
	400	18	AQU1184RCXAXT1B4	64.5"	-	-	2
		42	AQU1424RCXAXT1B4	76.5"	AQU1424RCXAXB4	64.5"	4
		600	18	AQU1186RCXAXT1B4	64.5"	-	-
208/120 Vac, 3 Phase	100-250	18	AQU3182RCXAXT1B4	37.5"	AQU3182RCXAXB4	31.5"	2
		30	AQU3302RCXAXT1B4	43.5"	AQU3302RCXAXB4	37.5"	3
		42	AQU3422RCXAXT1B4	49.5"	AQU3422RCXAXB4	43.5"	4
	400	18	AQU3184RCXAXT1B4	64.5"	-	-	2
		42	AQU3424RCXAXT1B4	76.5"	AQU3424RCXAXB4	64.5"	4
		600	18	AQU3186RCXAXT1B4	64.5"	-	-
240 Vac, 1 Phase	100-250	18	AQU1182RCXAXT1B4	37.5"	AQU1182RCXAXB4	31.5"	2
		30	AQU1302RCXAXT1B4	43.5"	AQU1302RCXAXB4	37.5"	3
		42	AQU1422RCXAXT1B4	49.5"	AQU1422RCXAXB4	43.5"	4
	400	18	AQU1184RCXAXT1B4	64.5"	-	-	2
		42	AQU1424RCXAXT1B4	76.5"	AQU1424RCXAXB4	64.5"	4
		600	18	AQU1186RCXAXT1B4	64.5"	-	-
208/120 Vac, 3 Phase	100-250	18	AQU3182RCXAXT1B4	37.5"	AQU3182RCXAXB4	31.5"	2
		30	AQU3302RCXAXT1B4	43.5"	AQU3302RCXAXB4	37.5"	3
		42	AQU3422RCXAXT1B4	49.5"	AQU3422RCXAXB4	43.5"	4
	400	18	AQU3184RCXAXT1B4	64.5"	-	-	2
		42	AQU3424RCXAXT1B4	76.5"	AQU3424RCXAXB4	64.5"	4
		600	18	AQU3186RCXAXT1B4	64.5"	-	-

Aluminum Bus

Voltage	Amp Rating	No. of Circuits	Feed-thru Cat. No. ¹	Box/Front Height	TGL2 Ground Bars ³
240 Vac, 1 Phase	100-250	18	AQU1182RCXAXT1	37.5"	2
		30	AQU1302RCXAXT1	43.5"	3
		42	AQU1422RCXAXT1	49.5"	4
208/120 Vac, 3 Phase	100-250	18	AQU3182RCXAXT1	37.5"	2
		30	AQU3302RCXAXT1	43.5"	3
		42	AQU3422RCXAXT1	49.5"	4

TGL20 ground lug quantities

Interior Type	No. of TGL20s Required by Panel Rating		
	100-250A	400A	600A
Main Lug Only	1	1	2
Main Lug & Feed-thru	2	2	4
Main Breaker Only	1	1	-
Main Breaker & Sub-feed	1	1	-
Main Breaker & Feed-thru	2	2	-

¹For TGL20 ground lug quantities, see TGL20 ground lug quantities table above.
²For isolated ground, use EGS12. When using the EGS12, 3, 5 and 7 ground lugs (TGL20s) are required for 18, 30 and 42 circuits respectively.
³Main bus rating of 250A for main breaker interiors and a bus rating of 225A for main lug interiors.

2. Choose box

Select a box of the correct height (see step 1). Boxes come with blank endwalls. If endwalls with knockouts are required, also order knockout endwall kit AKEW2 (for Type1 only).



Box Height	NEMA 1		NEMA 3R		NEMA 4, 4X and 12 Painted Galvaneal		NEMA 4, 4X and 12 Stainless Steel	
	20" Wide	20" Wide	20" Wide	20" Wide	20" Wide	20" Wide	20" Wide	20" Wide
25.5"	-	-	-	-	-	-	-	AB254S
31.5"	AB31B	AB31S	AB31B	AB31S	AB31A	AB31C	AB31D	AB314S
37.5"	AB37B	AB37S	AB37B	AB37S	AB37A	AB37C	AB37D	AB374S
43.5"	AB43B	AB43S	AB43B	AB43S	AB43A	AB43C	AB43D	AB434S
49.5"	AB49B	AB49S	AB49B	AB49S	AB49A	AB49C	AB49D	AB494S
64.5"	AB64B	AB64S	AB64B	AB64S	AB64A	AB64C	AB64D	AB644S
76.5"	AB76B	AB76S	AB76B	AB76S	AB76A	AB76C	AB76D	AB764S

3. Add a front

Add a front of the correct height (available for NEMA 1 enclosures only)

Standard fronts are equipped with concealed hinges and trim adjusting screws and quarter turn locks.

The door-in-door is convenient for contractors to gain easy access to equipment from the front of the panel. Door-in-door allows a contractor access to the gutters without removing the front. Front hinged to box is similar to door-in-door for convenient access to gutters, but a contractor must remove four screws to access the outer door.



Front Height	Standard (20" Wide)		Door Within Door (20" Wide)		Front Hinged to Box (20" Wide)	
	Flush ¹	Surface ¹	Flush ¹	Surface ¹	Flush ¹	Surface ¹
31.5"	AF31F	AF31S	AF31FP	AF31SP	AF31FD	AF31SD
37.5"	AF37F	AF37S	AF37FP	AF37SP	AF37FD	AF37SD
43.5"	AF43F	AF43S	AF43FP	AF43SP	AF43FD	AF43SD
49.5"	AF49F	AF49S	AF49FP	AF49SP	AF49FD	AF49SD
64.5"	AF64F (T)	AF64S (T)	AF64FP (T)	AF64SP (T)	AF64FD (T)	AF64SD (T)
76.5"	AF76F (T)	AF76S (T)	AF76FP (T)	AF76SP (T)	AF76FD (T)	AF76SD (T)

¹(T) Fronts with quarter turn lock for applications with XT5 circuit breakers

4. Select main and/or sub-feed breaker kit

Select the main breaker kit appropriate for your interior type (see step 1), amp rating and kAIC rating. If a sub-feed breaker is required, repeat the selection process.

Interior Type	Cat. No. ¹	Max. Amp Rating	No. of Poles	Breaker Rating (kAIC)							
				10	14	22	25	35	50	65	
AQU1: 240 VAC, 1 Phase	MB612	100	2	THQB	THHQB	-	-	-	-	-	-
	MBA12	225	2	A2A	A2N	-	-	-	-	-	-
	MBM324	400	2	-	-	-	-	-	-	XT5N	-
AQU3: 208/120 VAC, 3 Phase	MB613	100	3	THQB	THHQB	-	-	-	-	-	-
	MBA13	225	3	A2A	A2N	-	-	-	-	-	-
	MBB33	250	3	-	-	-	-	-	-	XT4N	-
MBA13 Breaker Kit	MBM334	400	3	-	-	-	-	-	-	XT5N	-

¹Breaker not included.
²Actual breaker short circuit rating is 25 kAIC.

5. Select alternative main breakers

To correlate breaker types with the kAIC rating in specific panelboards, see the table for step 4. For more rating details, see ReliaGear lighting panels rating series labels (1TQC173100Z0001).

Use 2 outer poles for 3 pole applications.

For THQB main breakers, see branch breakers tables in step 7.

Tmax XT breakers¹ (3-pole) for use with appropriate main breaker kit (see step 4).

Rating (A)	kA@ 240Vac	MCCB description	MCCB Cat. No. ²	Lug Cat. No. ²	Wire Range	Cables per Lug
150	65	XT4N 250 TMF 150 AMPS 3P	XT4NU3150AFF000XXX	KXT4CUAL2-3PC	Cu Al 1x 4 AWG-300 kcmil	1
175	65	XT4N 250 TMF 175 AMPS 3P	XT4NU3175AFF000XXX	KXT4CUAL2-3PC	Cu Al 1x 4 AWG-300 kcmil	1
200	65	XT4N 250 TMF 200 AMPS 3P	XT4NU3200AFF000XXX	KXT4CUAL2-3PC	Cu Al 1x 4 AWG-300 kcmil	1
225	65	XT4N 250 TMF 225 AMPS 3P	XT4NU3225AFF000XXX	KXT4CUAL2-3PC	Cu Al 1x 4 AWG-300 kcmil	1
250	35	XT4N 250 TMF 250 AMPS 3P	XT4NU3250AFF000XXX	KXT4CUAL2-3PC	Cu Al 1x 4 AWG-300 kcmil	1
300	65	XT5S 400 TMA 300 AMPS 3P	XT5NU330ABFF000XXX	KXT5CUAL2X500K-3PC	Cu Al 2x 2/0 AWG-500 kcmil	2
400	65	XT5S 400 TMA 400 AMPS 3P	XT5NU340ABFF000XXX	KXT5CUAL2X500K-3PC	Cu Al 2x 2/0 AWG-500 kcmil	2

¹ Thermal Magnetic Fixed (TMF) – no adjustments possible. Thermal Magnetic Adjustable (TMA) – adjustable thermal (L) and magnetic (I).
² Other options are available

Main or sub-feed breakers for use with RQ panels (208/120 V AC 3-phase or 240 V AC single-phase). See step 4. Use lugs KA2225-2 for 2-Pole MCCBs and KA2225-3 for 3-Pole MCCBs

Amp Rating	2-pole		3-pole	
	10kAIC	22kAIC	10kAIC	22kAIC
	Cat. No.	Cat. No.	Cat. No.	Cat. No.
125	A2A125TW-2	A2N125TW-2	A2A125TW	A2N125TW
150	A2A150TW-2	A2N150TW-2	A2A150TW	A2N150TW
175	A2A175TW-2	A2N175TW-2	A2A175TW	A2N175TW
200	A2A200TW-2	A2N200TW-2	A2A200TW	A2N200TW
225	A2A225TW-2	A2N225TW-2	A2A225TW	A2N225TW

6. Select main lug kit and accessories

Select lug kit(s) for main lug and/or feed-thru applications, if required. All lugs are suitable for interiors with either copper or aluminum bus. Also select any accessories required.

Main lug kits

Lug Type	Amp Rating	Cat. No.	Standard		Oversized 200% Neutral	
			Wire Range	Cat. No.	Wire Range	Cat. No.
Pressure	225	MLA1	6-350 kcmil	MLA2	1-600 kcmil or (2) 1/0-250 kcmil	NKA
	400	MLA41	2-600 MCM or (2) 1/0-250 kcmil	MLA62	3/0-800 kcmil	NKA4 ²
	600	MLA61	(2) 2/0-500 kcmil	MLA62	3/0-800 kcmil	-
Copper	225	MLR1	4-450 kcmil	MLR2	1-600 kcmil	NKR
	400	MLR41	1-600 kcmil	MLR61	(2) 2/0-500 kcmil	NKR4
	600	MLR61	(2) 2/0-500 kcmil	-	-	-
Compression	225	MLT1	2/0-300 kcmil	MLT2	4/0-500 kcmil	NKT
	400	MLT42	250-600 kcmil	MLT41	500-750 kcmil ¹	NKT4
Dual	225	MLA2	2-600 kcmil or (2) 1/0-250 kcmil	-	-	-
Main	400	MLA61	(2) 2/0-500 kcmil	-	-	-

Accessories

Cat.No.	Description
ADH2006	Drip hood 20Wx6D for Type 1 enclosures
PROCARE	Accessory kit, replacement parts

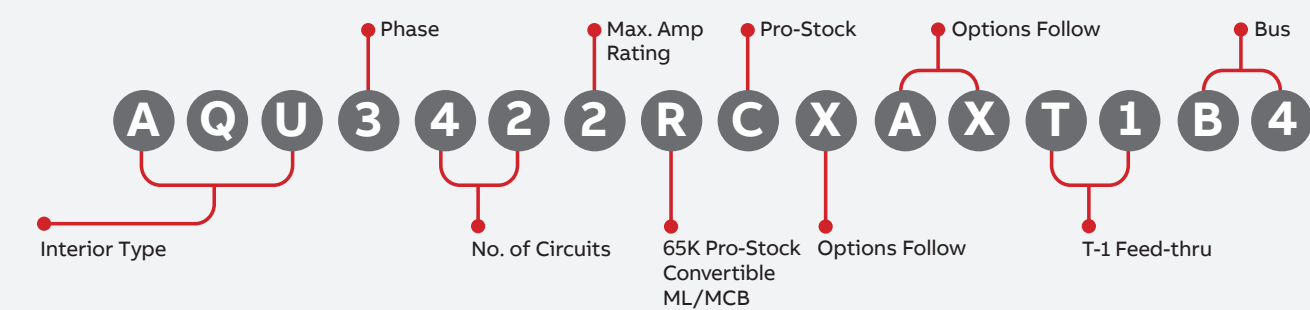
7. Select bolt-on branch breakers

The tables below show standard branch breakers.

Branch circuit breakers for use with RQ panels (208/120 V AC 3-phase or 240 V AC single-phase)

Amp Rating	10 kAIC						22 kAIC	
	1-pole		2-pole		3-pole		3-pole	
	Cat. No.	Cat. No.	Cat. No.	Cat. No.	Cat. No.	Cat. No.	Cat. No.	
15	THQB1115	THQB2115	THQB32015	THHQB1115	THHQB2115	THHQB32015	-	-
20	THQB1120	THQB2120	THQB32020	THHQB1120	THHQB2120	THHQB32020	-	-
25	THQB1125	THQB2125	THQB32025	THHQB1125	THHQB2125	THHQB32025	-	-
30	THQB1130	THQB2130	THQB32030	THHQB1130	THHQB2130	THHQB32030	-	-
35	THQB1135	THQB2135	THQB32035	THHQB1135	THHQB2135	THHQB32035	-	-
40	THQB1140	THQB2140	THQB32040	THHQB1140	THHQB2140	THHQB32040	-	-
45	THQB1145	THQB2145	THQB32045	THHQB1145	THHQB2145	THHQB32045	-	-
50	THQB1150	THQB2150	THQB32050	THHQB1150	THHQB2150	THHQB32050	-	-
60	THQB1160	THQB2160	THQB32060	THHQB1160	THHQB2160	THHQB32060	-	-
70	THQB1170	THQB2170	THQB32070	THHQB1170	THHQB2170	THHQB32070	-	-
80	-	THQB2180	THQB32080	-	THHQB2180	THHQB32080	-	-
90	-	THQB2190	THQB32090	-	THHQB2190	THHQB32090	-	-
100	-	THQB21100	THQB32100	-	THHQB21100	THHQB32100	-	-

Interior product number structure



Interior Type	Phase	No. of Circuits	Max. Amp Rating	T1 Feed-thru	Bus
AQU = 240 Vac	1 = 1-Phase	18 = 18 Circuits	2 = 250A MB/ 225A MLO	Blank Non Feed-thru* (required copper bus [B4])	B4 = Copper
	3 = 3-Phase	30 = 30 Circuits	4 = 400A		Blank = Aluminum
		42 = 42 Circuits	6 = 600A		

Technical Support:

1-800-435-7365
 ep.support@ca.abb.com

ABB Inc. - Campus Montréal.
 800, boulevard Hymus
 Saint-Laurent, QC H4S 0B5

© Copyright 2022 ABB. All rights reserved.
 Information provided is subject to change without notice. Please verify all details with ABB. All values are design or typical values when measured under laboratory conditions, and ABB makes no warranty or guarantee, express or implied that such performance will be obtained under end-use conditions.<