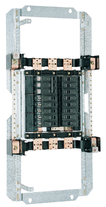
# ReliaGear™ Pro-Stock™ Lighting Panels

## A lighting panelboard for projects with short turnaround

Industrial Solutions

### 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.[1] | Box/Front Height | TGL2 Ground Bars[2,3] |
|---|---|---|---|---|---|---|---|
| 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" | – | – | 2 |
| | | 42 | AQU1426RCXAXT1B4 | 76.5" | AQU1426RCXAXB4 | 64.5" | 4 |
| 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" | – | – | 2 |
| | | 42 | AQU3426RCXAXT1B4 | 76.5" | AQU3426RCXAXB4 | 64.5" | 4 |
| 480/277 Vac, 3 Phase | 100-250 | 18 | AEU3182RCXAXT1B4 | 37.5" | AEU3182RCXAXB4 | 31.5" | 2 |
| | | 30 | AEU3302RCXAXT1B4 | 43.5" | AEU3302RCXAXB4 | 37.5" | 3 |
| | | 42 | AEU3422RCXAXT1B4 | 49.5" | AEU3422RCXAXB4 | 43.5" | 4 |
| | 400 | 18 | AEU3184RCXAXT1B4 | 64.5" | – | – | 2 |
| | | 42 | AEU3424RCXAXT1B4 | 76.5" | AEU3424RCXAXB4 | 64.5" | 4 |
| | 600 | 18 | AEU3186RCXAXT1B4 | 64.5" | – | – | 2 |
| | | 42 | AEU3426RCXAXT1B4 | 76.5" | AEU3426RCXAXB4 | 64.5" | 4 |

**Aluminum Bus**

| Voltage | Amp Rating | No. of Circuits | Feed-thru Cat. No.[1] | Box/Front Height | TGL2 Ground Bars[2,3] |
|---|---|---|---|---|---|
| 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 |
| 480/277 Vac, 3 Phase | 100-250 | 18 | AEU3182RCXAXT1 | 37.5" | 2 |
| | | 30 | AEU3302RCXAXT1 | 43.5" | 3 |
| | | 42 | AEU3422RCXAXT1 | 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 | – |

[1] For TGL20 ground lug quantities, see TGL20 ground lug quantities table above.
[2] For isolated ground, use EGS12. When using the EGS12, 3, 5 and 7 ground lugs (TGL20s) are required for 18, 30 and 42 circuits respectively.
[3] Main 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.

| Box Height | NEMA 1 20" Wide | NEMA 3R 20" Wide | NEMA 4, 4X and 12 Painted Galvaneal 20" Wide | NEMA 4, 4X and 12 Stainless Steel 20" Wide |
|---|---|---|---|---|
| 25.5" | – | – | – | AB254S |
| 31.5" | AB31B | AB313 | AB314 | AB314S |
| 37.5" | AB37B | AB373 | AB374 | AB374S |
| 43.5" | AB43B | AB433 | AB434 | AB434S |
| 49.5" | AB49B | AB493 | AB494 | AB494S |
| 64.5" | AB64B | AB643 | AB644 | AB644S |
| 76.5" | AB76B | AB763 | AB764 | 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 hinges, 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) Flush[1] | Standard (20" Wide) Surface[1] | Door Within Door (20" Wide) Flush[1] | Door Within Door (20" Wide) Surface[1] | Front Hinged to Box (20" Wide) Flush[1] | Front Hinged to Box (20" Wide) 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) |

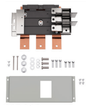
[1] (*T) Fronts with quarter turn lock for applications with XT5 circuit breakers

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

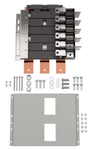
Select the main breaker kit appropriate for your interior type (see step 1), amp rating and kAIC rating. If a sub-feed breaker is required, repeat the selection process. Some units come standard with a breaker.

Please see the list to the right.

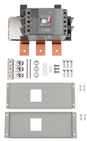
| Cat. No. | Breaker Description | Breaker Type |
|---|---|---|
| MBM124WB | XT5 TMA 400 AMPS 3P | XT5NU340ABFN000XXX |
| MBB13WB | XT4 TMF 225 AMPS 3P | XT4NU3225AFJ000XXX |
| MBB16WB | XT4 TMF 225 AMPS 3P | XT4NU3225AFJ000XXX (2) |
| MBM134WB | XT5 TMA 400 AMPS 3P | XT5NU340ABFN000XXX |
| MBC33WB | XT1 TMF 125 AMPS 3P | XT1HU3125AFD000XXX |
| MBB33WB | XT4 TMF 225 AMPS 3P | XT4HU3225AFJ000XXX |
| MBB36WB | XT4 TMF 225 AMPS 3P | XT4HU3200AFJ000XXX (2) |
| MBM334WB | XT5 TMA 400 AMPS 3P | XT5HU340ABFN000XXX |
| MBM324WB | XT5 TMA 400 AMPS 3P | XT5HU340ABFN000XXX |



**MBA13**
Breaker Kit



**MBA16**
6-pole Breaker Kit



**MBB33WB**
"WB" Breaker Kit

| Interior Type | Cat. No.[1] | Max. Amp Rating | No. of Poles | Breaker Rating (kAIC) 10 | 14 | 22 | 25 | 35 | 50 | 65 | 100 | 150 | 200 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AQU1: 240 VAC, 1 Phase | MB612 | 100 | 2 | THQB | | THHQB | | | | | | | |
| | MB614 | 100 | 4 | (x2) THQB | | (x2) THHQB | | | | | | | |
| | MBA12 | 225 | 2 | A2A | | A2N[2] | | | | | | | |
| | MBM324 | 400 | 2 | | | | | | | XT5N | XT5S | XT5H | XT5L |
| | **MBM124WB** | 400 | 2[3] | | | | | | | XT5N | | | |
| AQU3: 208/120 VAC, 3 Phase | MB613 | 100 | 3 | THQB | | THHQB | | | | | | | |
| | MB616 | 100 | 6 | (x2) THQB | | (2) THHQB | | | | | | | |
| | MBA13 | 225 | 3 | A2A | | A2N | | | | | | | |
| | MBA16 | 400 | 6[2] | (x2) A2A | | (2) A2N | | | | | | | |
| | MBB33 | 250 | 3 | | | | | | | XT4N | XT4S | XT4H | XT4L |
| | **MBB13WB** | 225 | 3 | | | | | | | XT4N | | | |
| | MBB36[5] | 400 | 6[5] | | | | | | | (2) XT4N | (2) XT4S | (2) XT4H | (2) XT4L |
| | **MBB16WB**[5] | 400 | 6[5] | | | | | | | XT4N | | | |
| | MBM334 | 400 | 3 | | | | | | | XT5N | XT5S | XT5H | XT5L |
| | **MBM134WB** | 400 | 3 | | | | | | | XT5N | | | |
| | **MBM124WB**[4] | 400 | 2[3] | | | | | | | XT5N | | | |
| AEU3: 480/277 Vac, 3 Phase | MB423 | 100 | 3 | | TEY | | | | | | | | |
| | MB426 | 100 | 6 | | (x2) TEY | | | | | | | | |
| | MBC33 | 125 | 3 | | | | XT1N | XT1S | | XT1H | | | |
| | **MBC33WB** | 125 | 3 | | | | | | | XT1H | | | |
| | MBB33 | 250 | 3 | | | | XT4N | XT4S | | XT4H | | | |
| | **MBB33WB** | 225 | 3 | | | | | | | XT4H | | | |
| | MBB36[5] | 400 | 6[5] | | | | (x2) XT4N | (x2) XT4S | | (x2) XT4H | | | |
| | MBB36WB[5] | 400 | 6[5] | | | | | | | (x2) XT4H | | | |
| | MBM334 | 400 | 3 | | | | | XT5N | XT5S | XT5H | | | |
| | **MBM334WB** | 400 | 3 | | | | | | | XT5H | | | |
| | **MBM324WB**[4] | 400 | 2[3] | | | | | | | XT5H | | | |

[1] Breaker not included except for "WB" kits (where product number ends in "WB"). "WB" kits include a breaker, mounting kit and load-side lugs.
[2] Actual breaker short circuit rating is 25 kAIC.
[3] Use 2 outer poles for 3 pole applications.
[4] For sub-feed application only.
[5] 6 poles of sub-feed applies only to 400 A and 600 A interiors.
[6] Can use (2) 3 pole devices only, no 2 pole allowed.

### 5. Select alternative main breakers

Skip step 5 if you selected a main breaker kit ending in "WB" — no breaker is required.

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 (1TQC173100E0001).

Use 2 outer poles for 3 pole applications.

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

**Tmax XT breakers[1] (3-pole) for use with appropriate main breaker kit (see step 4).**

| 240V KAIC | 480V KAIC | Breaker Description | US Product Number | Wire Range (Cu/Al) | Cables per Lug |
|---|---|---|---|---|---|
| 65 | 65 | XT1H 125 TMF 30 AMPS 3P | XT1HU3030AFD000XXX | Cu Al 1x14–2/0 AWG | 1 |
| 65 | 65 | XT1H 125 TMF 60 AMPS 3P | XT1HU3060AFD000XXX | Cu Al 1x14–2/0 AWG | 1 |
| 65 | 65 | XT1H 125 TMF 100 AMPS 3P | XT1HU3100AFD000XXX | Cu Al 1x14–2/0 AWG | 1 |
| 65 | 65 | XT1H 125 TMF 125 AMPS 3P | XT1HU3125AFD000XXX | Cu Al 1x14–2/0 AWG | 1 |
| 65 | 35 | XT1S 125 TMF 100 AMPS 3P | XT1SU3100AFD000XXX | Cu Al 1x14–2/0 AWG | 1 |
| 65 | 65 | XT4H 250 TMF 150 AMPS 3P | XT4HU3150AFJ000XXX | Cu Al 1x4 AWG–300 kcmil | 1 |
| 65 | 65 | XT4H 250 TMF 200 AMPS 3P | XT4HU3200AFJ000XXX | Cu Al 1x4 AWG–300 kcmil | 1 |
| 65 | 65 | XT4H 250 TMF 225 AMPS 3P | XT4HU3225AFJ000XXX | Cu Al 1x4 AWG–300 kcmil | 1 |
| 65 | 35 | XT4S 250 TMF 175 AMPS 3P | XT4SU3175AFJ000XXX | Cu Al 1x4 AWG–300 kcmil | 1 |
| 65 | 35 | XT4S 250 TMF 200 AMPS 3P | XT4SU3200AFJ000XXX | Cu Al 1x4 AWG–300 kcmil | 1 |
| 65 | 35 | XT4S 250 TMF 225 AMPS 3P | XT4SU3225AFJ000XXX | Cu Al 1x4 AWG–300 kcmil | 1 |
| 65 | 35 | XT4S 250 TMF 250 AMPS 3P | XT4SU3250AFL000XXX | Cu Al 1x4 AWG–300 kcmil | 1 |
| 65 | 35 | XT4N 250 ekip DIP 60-150 AMPS 3P | XT4NU3150FFL000XXX | Cu Al 1x4 AWG–300 kcmil | 1 |
| 65 | 35 | XT4S 250 ekip DIP 100-250 AMPS 3P | XT4SU3250FFL000XXX | Cu Al 1x4 AWG–300 kcmil | 1 |
| 65 | 65 | XT4H 250 ekip DIP 100-250 AMPS 3P | XT4HU3250FFL000XXX | Cu Al 1x4 AWG–300 kcmil | 1 |
| 65 | 65 | XT5H 400 TMA 400 AMPS 3P | XT5HU340ABFN000XXX | Cu Al 2x2/0 AWG–500 kcmi | 2 |
| 65 | 50 | XT5S 400 TMA 300 AMPS 3P | XT5SU330ABFN000XXX | Cu Al 2x2/0 AWG–500 kcmi | 2 |
| 65 | 50 | XT5S 400 TMA 400 AMPS 3P | XT5SU340ABFN000XXX | Cu Al 2x2/0 AWG–500 kcmi | 2 |
| 65 | 35 | XT5N 400 ekip DIP 16-400 AMPS 3P | XT5NU340AFFN000XXX | Cu Al 2x2/0 AWG–500 kcmi | 2 |
| 65 | 65 | XT5H 400 ekip DIP 16-400 AMPS 3P | XT5HU340AFFN000XXX | Cu Al 2x2/0 AWG–500 kcmi | 2 |

[1] Thermal Magnetic Fixed (TMF) – no adjustments possible. Thermal Magnetic Adjustable (TMA) – adjustable thermal (L) and magnetic (I).

**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.**

| Amp Rating | 2-pole 10kAIC Cat. No. | 2-pole 22kAIC Cat. No. | 3-pole 10kAIC Cat. No. | 3-pole 22kAIC Cat. No. |
|---|---|---|---|---|
| 125 | A2A125TL-2 | A2N125TL-2 | A2A125TT | A2N125TT |
| 150 | A2A150TL-2 | A2N150TL-2 | A2A150TT | A2N150TT |
| 175 | A2A175TL-2 | A2N175TL-2 | A2A175TT | A2N175TT |
| 200 | A2A200TL-2 | A2N200TL-2 | A2A200TT | A2N200TT |
| 225 | A2A225TL-2 | A2N225TL-2 | A2A225TT | A2N225TT |

### 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 | Standard Cat. No. | Standard Wire Range | Oversized Cat. No. | Oversized Wire Range | 200% Neutral 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 | — | — | — |

[1] 500 kcmil Cu, 750 kcmil Al.
[2] For 200% neutral feed-thru, order NKA4FT, (GO-101P). Wire range (2) 2/0–600 kcmil or (4) 4–250 kcmil.

**Accessories**

| Service Entrance[1] Amp Rating | Cat. No. |
|---|---|
| 225 | BNDKT |
| 400 | BNDKT6 |
| 600 | BNDKT6 |

[1] Service entrance kit includes a bonding strap with hardware and a service entrance label

**Scan to find out more about ReliaGear™ Pro-Stock™**

### 7. Select bolt-on branch breakers

The tables below show standard branch breakers.

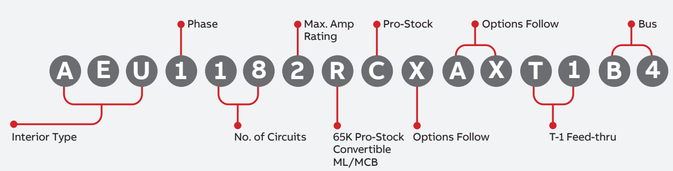
**Branch circuit breakers for use with RQ panels (208/120 V AC 3-phase or 240 V AC single-phase)**

| Amp Rating | 10 kAIC 1-pole Cat. No. | 10 kAIC 2-pole Cat. No. | 10 kAIC 3-pole Cat. No. | 22 kAIC 1-pole Cat. No. | 22 kAIC 2-pole Cat. No. | 22 kAIC 3-pole 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 |

**Branch circuit breakers for use with RE panels (480/277 V AC 3-phase)**

| Amp Rating | 14 kAIC 1-pole Cat. No. | 14 kAIC 2-pole Cat. No. | 14 kAIC 3-pole Cat. No. |
|---|---|---|---|
| 15 | TEY115 | TEY215 | TEY315 |
| 20 | TEY120 | TEY220 | TEY320 |
| 30 | TEY130 | TEY230 | TEY330 |
| 40 | TEY140 | TEY240 | TEY340 |
| 50 | TEY150 | TEY250 | TEY350 |
| 60 | TEY160 | TEY260 | TEY360 |
| 70 | TEY170 | TEY270 | TEY370 |
| 80 | TEY180 | TEY280 | TEY380 |
| 90 | TEY190 | TEY290 | TEY390 |
| 100 | TEY1100 | TEY2100 | TEY3100 |

### 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 |
| AEU = 480Y/277 Vac | 3 = 3-Phase | 30 = 30 Circuits | 4 = 400A | | Blank = aluminum |
| | | 42 = 42 Circuits | 6 = 600A | | |


**Customer Service:** EPIS.ASeries.Mebane@abb.com
**Technical Support:** 1-800-431-7867 #4 or epis.component.support@abb.com
**Warranty Support:** 1-888-437-3765

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