PLEXPOWER™ FACTORY SEALED LIGHTING PANELBOARD

FEATURES

- The PlexPower features a ground-breaking design that uses individual breaker housings to minimize the downtime and costs associated with servicing circuit breakers in hazardous locations.
- PlexPower breakers accommodate off-the-shelf breakers, making replacements readily available.
- Gland plate at the bottom of enclosure can be easily field punched for cable or conduit entries. Additional gland plates available for sides and top must be ordered with the panelboard. See options.
- Flexibility through horizontal and vertical coupling options.
- Standard models offer 3 circuit to 54 circuit panelboard configurations.
- Models are available standard with or without main breaker, depending on the configuration.
- Standard configuration includes internal actuators and a solid door; factory installed options include window door or external actuators.
- Supplied with dead front for internal actuation
- Models available:
  — RQ lighting panelboard: 120/240 Volt, 240 Volt, 120/208 Volt with QC Breakers.
- Branch circuit breakers available in 1-, 2- and 3-pole. Current ratings on branch breakers:
  — 1-pole: 120, 277, 347 Volts, 60 Amps maximum.
  — 2- and 3-pole: 240 Volts, 40 Amps maximum.
- Main circuit breakers up to 150 Amps, 2- or 3-pole.
- Breakers can be individually padlocked in either the "On" or "Off" position.
- Ground and or neutral bars provided as standard.
- External/internal ground lug provided as standard.
- Main breaker module terminal wire range #14-4/0.
- Standard model utilizes Cutler-Hammer ✚ QC Series or F-Frame Series circuit breakers rated -20 °C to +40 °C (-4 °F to +104 °F).

STANDARD MATERIALS

- Enclosure: stainless steel
- Hardware: stainless steel
- Bus bar: hard drawn, tin plated, copper

OPTIONS

- Must be listed in alphanumeric sequence at the end of the catalog number.
- For Class I, Division 2 Groups B, C, D only, add suffix —**D2**.
- Drain/breather, add suffix —**DV**.
- Ground Fault Interrupter Breakers for 120V, single pole, available in 15, 20, 25 and 30 Amps only:
  — For 5 mA, add suffix —**GFI** after breaker
  — For 30 mA, add suffix —**EPD** after breaker
- External actuation, add suffix — **EXT**.
- Grounded neutral, add suffix —**GN**.
- Gland plate, specify suffix **GPL** = left side, **GPR** = right side, **GPT** = top side, **NGP** = no gland plate).
- Thermostatically controlled anti-condensation heater, add suffix — **HTR**.
- Heater for panels certified to -40°C (-40°F) ambient temperature, add suffix — **HTR40**. ④
- LED indicator lights, add suffix —**IL**.
- Inverted feed, add suffix —**INV**.
- Lamacoid nameplate white with black letters 2" x 4" (specify legend), add suffix —**NP**.
- Door padlocking provision, add suffix —**P**.
- Stainless steel legend plate (specify legend), add suffix —**SP**.
- Terminal blocks instead of direct wiring, add suffix —**TB**. ⑤
- Window with internal actuation only, add suffix —**W**.
- For a higher ambient temperature application circuit breakers can be specified per Eaton's de-rating curves,
  — For +50 °C (+122 °F) de-rating curve, add suffix — **V**.
  — For +60 °C (+140 °F) de-rating curve, add suffix — **VI**.
  — For +70 °C (+158 °F) de-rating curve, add suffix — **VII**.

NEC/CEC CERTIFICATIONS AND COMPLIANCES

- UL Standards: ANSI/UL 67, ANSI/ISA 12.12.01, ANSI/UL 1203, ANSI/UL 60079-0, ANSI/UL60079-1, ANSI/UL60079-7
- CSA Standards: C22.2 No. 29, C22.2 No. 0, C22.2 No. 213, CAN E60079-0, CAN E60079-7, CAN E60079-1
- cCSAus Certified: 039199
- Class I, Zone 1, AEx de IIB+H_2 T* ①
- Ex de IIB+H_2 T* ①
- Class I, Division 2, Groups B, C, D T* ①
- Class II, Division 1, Groups F, G ②
- Class III ②
- IP66, Type 4X ③

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① *T3 with heater. T5 without heater.*
② *Certification only applies without drain/breather.*
③ *IP66, Type 4X Certification only applies with drain/breather.*
④ *For panels certified to -40 °C (-40 °F), enclosure size may need to increase. Refer to RQ and RF Panel Size Tables in the catalog for -40 °C (-40 °F) certified panel options.*
⑤ *Contact your local representative for terminal block option. Maximum amperage for branch terminal blocks is 45 amps.*
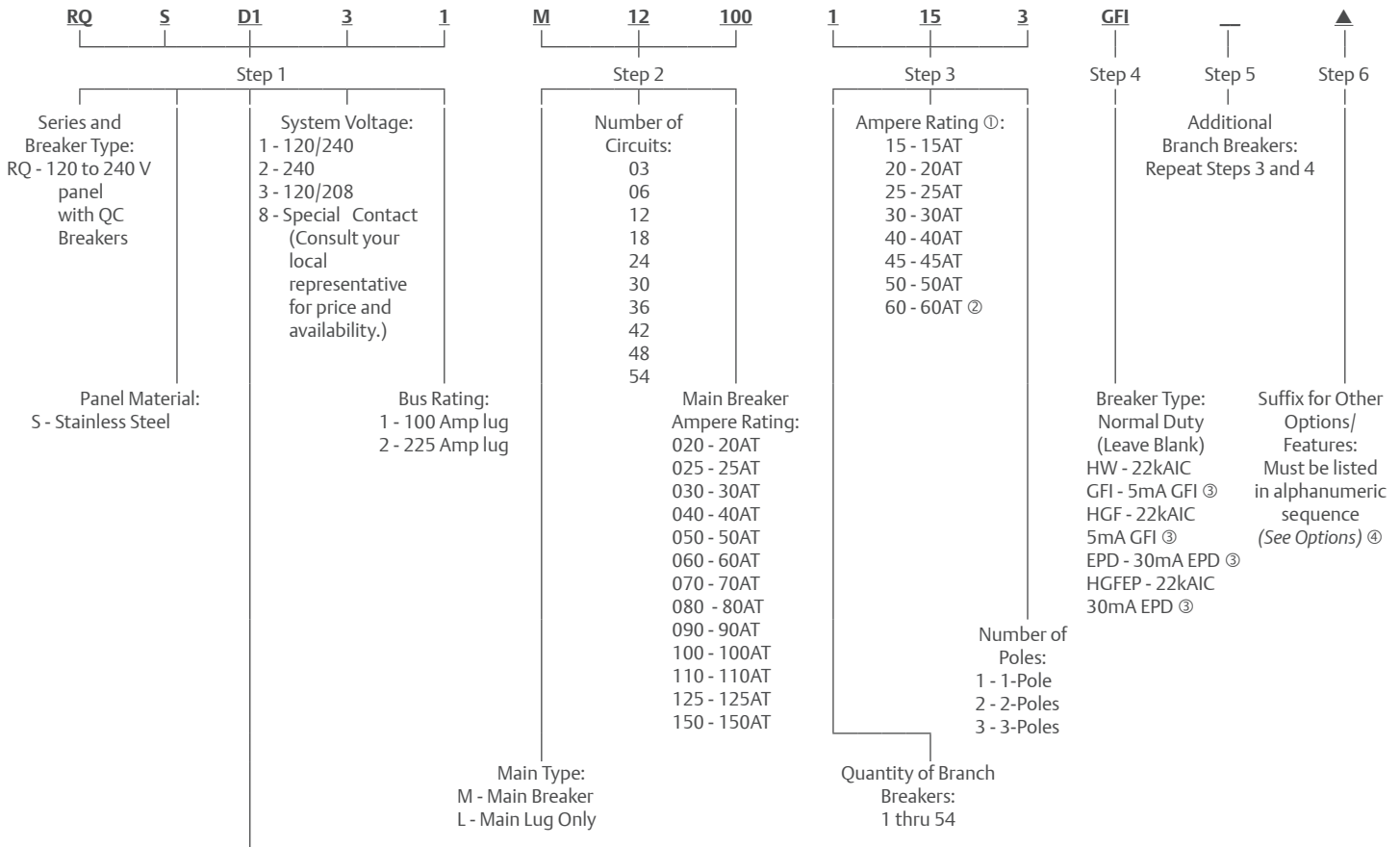✚ *Cutler-Hammer is a registered trademark of Eaton Corporation.*

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PLEXPOWER™ FACTORY SEALED LIGHTING PANELBOARD

Part Number Example: RQ S D1 3 1 M 12 100 1 15 3 GFI — ▲

Step 1	Step 2	Step 3	Step 4	Step 5	Step 6

Step 1

Series and Breaker Type:
RQ - 120 to 240 V panel with QC Breakers

Panel Material:
S - Stainless Steel

System Voltage:
1 - 120/240
2 - 240
3 - 120/208
8 - Special Contact (Consult your local representative for price and availability.)

Bus Rating:
1 - 100 Amp lug
2 - 225 Amp lug

Step 2

Number of Circuits:
03
06
12
18
24
30
36
42
48
54

Main Breaker Ampere Rating:
020 - 20AT
025 - 25AT
030 - 30AT
040 - 40AT
050 - 50AT
060 - 60AT
070 - 70AT
080 - 80AT
090 - 90AT
100 - 100AT
110 - 110AT
125 - 125AT
150 - 150AT

Main Type:
M - Main Breaker
L - Main Lug Only

Step 3

Ampere Rating ①:
15 - 15AT
20 - 20AT
25 - 25AT
30 - 30AT
40 - 40AT
45 - 45AT
50 - 50AT
60 - 60AT ②

Number of Poles:
1 - 1-Pole
2 - 2-Poles
3 - 3-Poles

Quantity of Branch Breakers:
1 thru 54

Step 4

Breaker Type:
Normal Duty (Leave Blank)
HW - 22kAIC
GFI - 5mA GFI ③
HGF - 22kAIC 5mA GFI ③
EPD - 30mA EPD ③
HGFEP - 22kAIC 30mA EPD ③

Step 5

Additional Branch Breakers:
Repeat Steps 3 and 4

Step 6

Suffix for Other Options/ Features:
Must be listed in alphanumeric sequence *(See Options)* ④

Panel Size: Select A1, B1, C1, D1, J1, F1, L1 or H1 stainless steel enclosure based on number of circuits ④

	A1 370x370x250	B1 370X560X250	C1 560x560x250	D1 750x560x250	J1 875x560x250	F1 1130x560x250	L1 1260x560x250	H1 1500x560x250
Main Lugs Only	3	6	12	18	24	30, 36	42	48, 54
With Main Breaker	—	—	6	12	18	24, 30	36	42, 48

Please note the following:
- *Number of circuits shown are non GFI and non EPD breakers.*
- *GFI and EPD breakers number of circuits are determined as total number of circuits divided by 2. Each module will accommodate only 2 GFI or EPD maximum.*
  Example: For 12 Circuits, no of modules = 12/2=6.

For -40°C RQ Panel Sizes: Select A1, B1, C1, D1, J1, F1, L1 or H1 stainless steel enclosure based on number of circuits

	A1 370x370x250	B1 370X560X250	C1 560x560x250	D1 750x560x250	J1 875x560x250	F1 1130x560x250	L1 1260x560x250	H1 1500x560x250
Main Lugs								
Standard Top In - Bottom Out	3	—	6	12	18	24	30	36, 42
Inverted Bottom In - Bottom Out	3	—	6	12	18	24, 30	36	42, 48
Main Breaker								
Standard Top In - Bottom Out	—	—	—	6	12	18	24	30, 36
Inverted Bottom In - Bottom Out	—	—	6	12	18	24, 30	36	42, 48

① *40A is the maximum amperage for 2 or 3 pole branch breaker.*
② *Only one 60A branch breaker is allowed per panel.*
③ *Only 2 per 3 circuits. Only Single pole GFI/EPD available.*
④ *If using suffix -HTR40, please use table 2.*