

# ALPF Factory Sealed Lighting – APPF Power Distribution Panelboards

## Explosionproof, Dust-Ignitionproof, Watertight

### NEC:

Class I, Division 1 and 2, Groups B♦, C♦, D

Class II, Division 1 and 2, Groups E, F, G

Class III

Class I, Zone 1, Group IIB +H<sub>2</sub>

NEMA 4, 4X, 7BCD, 9EFG

### Applications

- Distribution panelboards are used to furnish protection and control of electrical equipment in hazardous locations. These compact units provide a centrally controlled switching system for large quantities of branch circuits for:
  - Lighting
  - Heating
  - Small motors
  - Similar electrical equipment

### Features

- Breaker operators included as standard.
- O-ring gasket insures watertight integrity.
- Factory sealed, no external seals are required for most branch circuits. All conduits must be sealed adjacent to enclosure for Class I, Division 1, Groups B and C.
- Breakers are housed in the panel section and prewired to maximum circuit capacity, then wired to numbered terminals in the wiring compartment.
- Terminal compartment is interconnected to panel section with sealing hubs, unions and poured with sealing compound.
- Permits selection of 1-, 2- or 3-pole breakers.
- Precision machined flame path between body and cover.
- Bolt on stainless steel slotted mounting feet.
- Breaker operators can be padlocked in the ON or OFF position.
- All panelboards are supplied with Cutler-Hammer <sup>†</sup> interiors.
- Chassis assemblies with mains at top (bottom optional).
- Provisions for 12, 18, 24, 30, 36 and 42 circuit 1-pole chassis.
- 100 Amp or 225 Amp main lug.
- Up to 100 Amp backfed main breaker available with main lug chassis.
- Up to 225 Amp main breaker available with main breaker chassis.
- Factory installed ground and neutral bar as standard.

### Standard Materials

- Bodies and covers: copperfree (4/10 of 1% max.) aluminum
- Cover bolts: Quad-Lead<sup>®</sup>, captive, stainless steel
- Breaker operators: copperfree (4/10 of 1% max.) aluminum
- Hinges: stainless steel
- Bus bars: copper
- O-ring: neoprene

### Standard Finish

- Corrosion resistant gray epoxy powder coat to provide NEMA 4X rating

### Options

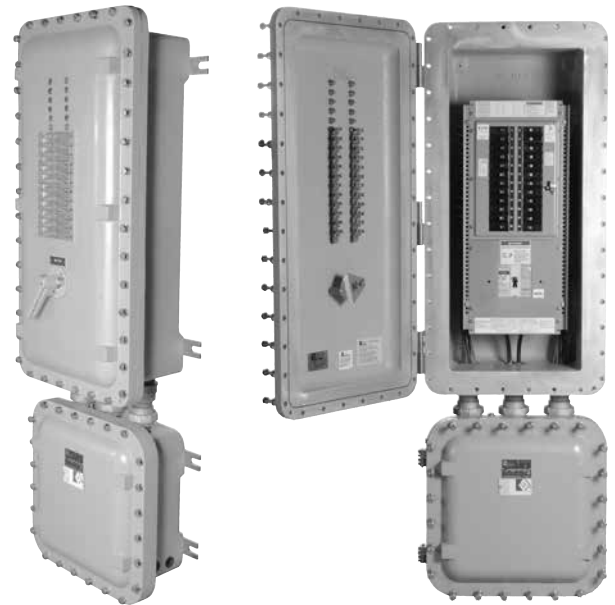
Must be listed in alphanumeric sequence at the end of the catalog number.

- Panel Options
  - Breather, NEMA 4X add suffix —**BR**.
  - Drain, NEMA 4X add suffix —**DN**.
  - External ground stud add suffix —**EGS**.
  - Grounding neutral lug add suffix —**GNL**.
  - Terminal breaker located at bottom, add suffix —**INV**.
  - Main breaker located at bottom, add suffix —**LB**.
  - Phenolic nameplate (specify legend) add suffix —**NP**.
  - For 50 °C (122 °F) breaker rating, add suffix —**V**.
  - For stainless steel terminal enclosure for Division 2 applications only, contact your local sales representative.

♦ For Class I, Division 1, Groups B and C, all conduits must be sealed within 50.8 mm (2") of enclosure.

<sup>†</sup> Cutler-Hammer is a trademark of the Eaton Corporation.

① GFI Push-to-Test Buttons are standard with GFI or EPD options.



- Main Breaker Options
  - Auxiliary switch (1A or 1B) add suffix —**AS1**.
  - Auxiliary switch (2A or 2B) add suffix —**AS2**.
  - Shunt trip (specify voltage) add suffix —**ST**.
  - Under voltage release (specify voltage) add suffix —**UV**.
- Branch Breaker Option ALPF Only
  - Equipment Protection Devices (1- or 2-Pole -30 mA sensitivity) ① add suffix —**EPD**.
  - Ground Fault Interrupter (1- or 2-Pole -5 mA sensitivity) ① add suffix —**GFI**.
  - GFI Indicating Light add suffix —**L5**.
- Branch Breaker Options APPF GHB Only
  - Equipment Protection Devices (1- or 2-Pole -30 mA sensitivity) ① add suffix —**EPD**.
- Branch Breaker Options APPF F-Frame Only
  - Auxiliary switch (1A or 1B) add suffix —**AS1**.
  - Auxiliary switch (2A or 2B) add suffix —**AS2**.
  - Shunt trip (specify voltage) add suffix —**ST**.
  - Under voltage release (specify voltage) add suffix —**UV**.
- 400 Amp panel available, contact your local sales representative.

### NEC Certifications and Compliances

- UL Standard: UL 1203
- UL Classified: E84577

# APPF 480, 600 Volt Factory Sealed Power Distribution Panelboards

Explosionproof, Dust-Ignitionproof, Watertight

F-Frame Cutler Hammer + Circuit Breakers

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Select branch breakers as desired in panel. First and second digits are the quantity of breakers, third and fourth digits are ampere rating, the fifth digit is number of poles. Example: An 18-circuit 277/480 V 3-phase 100 A MLO panel with 12 1-pole 20 Amp and 3 2-pole 30 Amp branch breakers should read APPFP14C18ML100-12201-03302.

## Catalog Numbering Guide

| APPF                                                                                                                                                                                                                                | P | 1                                             | 4                                                                                 | C | 18                                                         | ML                                                                                                                                                                                                                                                       | 100                                            | 12                                                                         | 20                                                                                                                                                                                                                                                                                                                                                                                              | 1                                               | ▲                                                                                                              |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-----------------------------------------------|-----------------------------------------------------------------------------------|---|------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|----------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| Duty:<br>Appleton<br>Factory Sealed<br>Power Panel                                                                                                                                                                                  |   |                                               | Voltage:<br>3 - 480<br>4 - 277/480<br>6 - 600<br>7 - 24 Vdc<br>8 - 125/250<br>Vdc |   |                                                            | Main Type:<br>MB - Main<br>Breaker<br>ML - Main Lug<br>Only                                                                                                                                                                                              |                                                |                                                                            | Ampere<br>Rating ①:<br>10 - 10AT<br>15 - 15AT<br>20 - 20AT<br>25 - 25AT<br>30 - 30AT<br>35 - 35AT<br>40 - 40AT<br>45 - 45AT<br>50 - 50AT<br>60 - 60AT<br>70 - 70AT<br>80 - 80AT<br>90 - 90AT<br>100 - 100AT<br>110 - 110AT<br>(2-, 3-Pole Only)<br>125 - 125AT<br>(2-, 3-Pole Only)<br>150 - 150AT<br>(2-, 3-Pole Only)<br>175 - 175AT<br>(2-, 3-Pole Only)<br>200 - 200AT<br>(2-, 3-Pole Only) |                                                 | Suffix for Other<br>Options/<br>Features:<br>Must be<br>listed in<br>alphanumeric<br>sequence<br>(See Options) |
| Panel Size:<br>P - 12 Circuit with Main<br>Breaker or<br>24 Circuit without<br>Main Breaker<br>R - 24 Circuit with Main<br>Breaker or<br>36 Circuit without<br>Main Breaker or<br>S - 42 Circuit with<br>or without Main<br>Breaker |   |                                               | Wire System:<br>B - 3P, 3W<br>C - 3P, 4W<br>D - 2P, 2W for<br>24 Vdc              |   |                                                            | Ampere<br>Rating:<br>020 - 20AT<br>025 - 25AT<br>030 - 30AT<br>040 - 40AT<br>050 - 50AT<br>060 - 60AT<br>070 - 70AT<br>080 - 80AT<br>090 - 90AT<br>100 - 100AT<br>110 - 110AT<br>125 - 125AT<br>150 - 150AT<br>175 - 175AT<br>200 - 200AT<br>225 - 225AT |                                                | No. of<br>Poles ①:<br>(include only if<br>different from<br>wiring system) |                                                                                                                                                                                                                                                                                                                                                                                                 |                                                 |                                                                                                                |
|                                                                                                                                                                                                                                     |   | Current Rating:<br>1 - 100 Amp<br>2 - 225 Amp |                                                                                   |   | Number of<br>Circuits:<br>12<br>18<br>24<br>30<br>36<br>42 |                                                                                                                                                                                                                                                          | Quantity of Branch<br>Breakers ①:<br>1 thru 42 |                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                 | Additional<br>Branch Breakers:<br>Repeat Step ① |                                                                                                                |

① EPD Single Phase (requires 2-Poles) 277 Vac, 30 mA.

+ Cutler-Hammer is a trademark of the Eaton Corporation.

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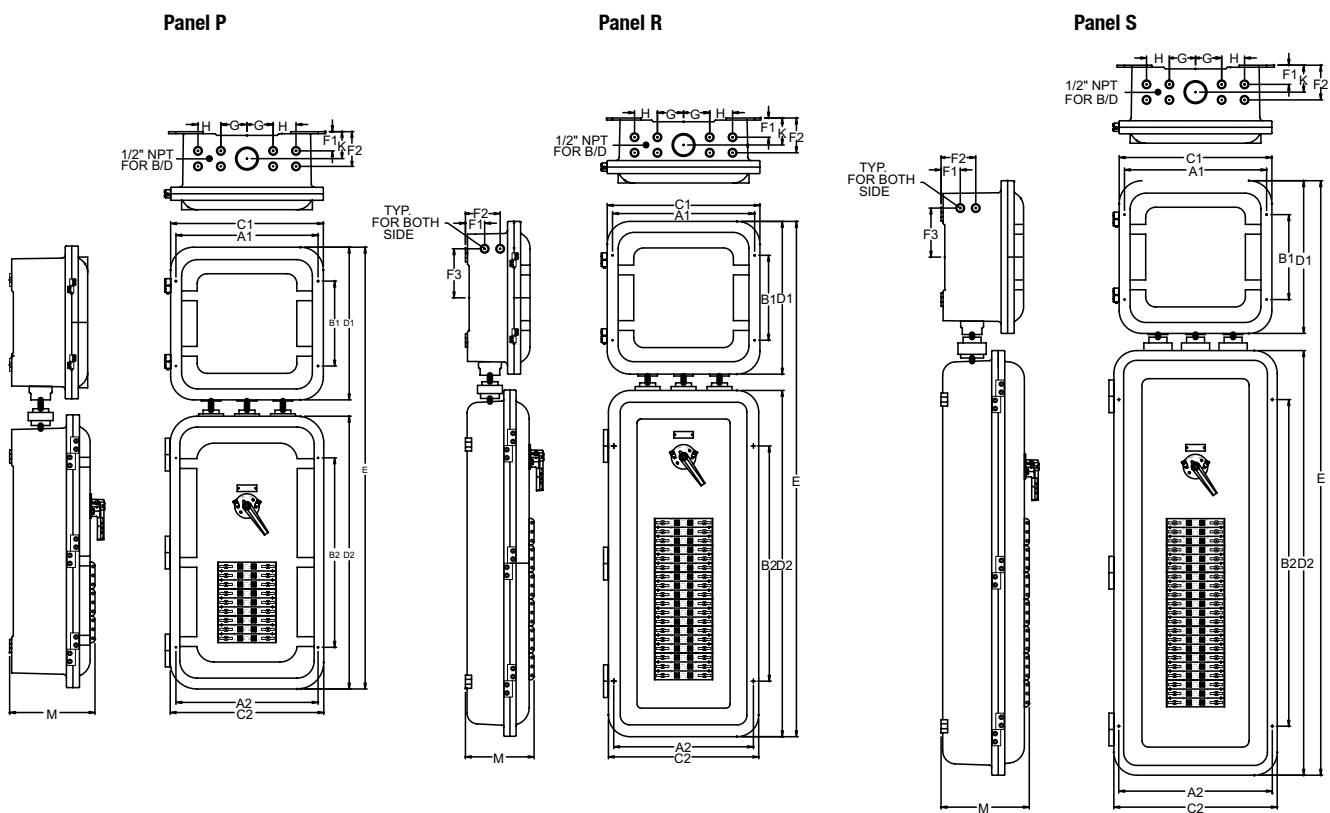
DISTRIBUTION EQUIPMENT: NEC/CEC HAZARDOUS LOCATION PANELBOARDS

APPLETON™

## APPF 480, 600 Volt Factory Sealed Power Distribution Panelboard

| Panel Size | Sealed Together |           | Top                  | Standard Outlets Sides | Mounting Hdw. Set |
|------------|-----------------|-----------|----------------------|------------------------|-------------------|
| P          | 183608          | 181806/08 | (1) 3" and (8) 1"NPT | —                      | CMH8 (2)          |
| R          | 184806          | 181806/08 | (1) 3" and (8) 1"NPT | (4) 1" NPT             | CMH8 (2)          |
| S          | 206008          | 181806/08 | (1) 3" and (8) 1"NPT | (4) 1" NPT             | CMH8 (2)          |

## Dimensions in Millimeters (Inches)



| Panel Size | A1               | A2               | B1               | B2                | C1               | C2               | D1               | D2                | E                 | F1             | F2              | F3              | G               | H              | K               | M                |
|------------|------------------|------------------|------------------|-------------------|------------------|------------------|------------------|-------------------|-------------------|----------------|-----------------|-----------------|-----------------|----------------|-----------------|------------------|
| P          | 522.5<br>(21.75) | 21.75/<br>522.5  | 330.2<br>(13.00) | 736.6<br>(29.00)  | 593.9<br>(23.38) | 596.9<br>(23.50) | 593.9<br>(23.38) | 1060.5<br>(41.75) | 1717.8<br>(67.63) | 74.7<br>(2.94) | 130.3<br>(5.13) | —               | 101.6<br>(4.00) | 88.9<br>(3.50) | 104.9<br>(4.13) | 331.7<br>(13.06) |
| R          | 522.5<br>(21.75) | 543.1<br>(21.38) | 330.2<br>(13.00) | 914.4<br>(36.00)  | 593.9<br>(23.38) | 584.2<br>(23.00) | 593.9<br>(23.38) | 1346.2<br>(53.00) | 2003.6<br>(78.88) | 74.7<br>(2.94) | 130.3<br>(5.13) | 190.5<br>(7.50) | 101.6<br>(4.00) | 88.9<br>(3.50) | 104.9<br>(4.13) | 266.7<br>(10.50) |
| S          | 522.5<br>(21.75) | 596.9<br>(23.50) | 330.2<br>(13.00) | 1270.0<br>(50.00) | 593.9<br>(23.38) | 635.0<br>(25.00) | 593.9<br>(23.38) | 1651.0<br>(65.00) | 2311.4<br>(91.00) | 74.7<br>(2.94) | 130.3<br>(5.13) | 190.5<br>(7.50) | 101.6<br>(4.00) | 88.9<br>(3.50) | 104.9<br>(4.13) | 331.7<br>(13.06) |

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