

Circuit Breaker Panelboards: Explosionproof, Dust-Ignitionproof, Watertight



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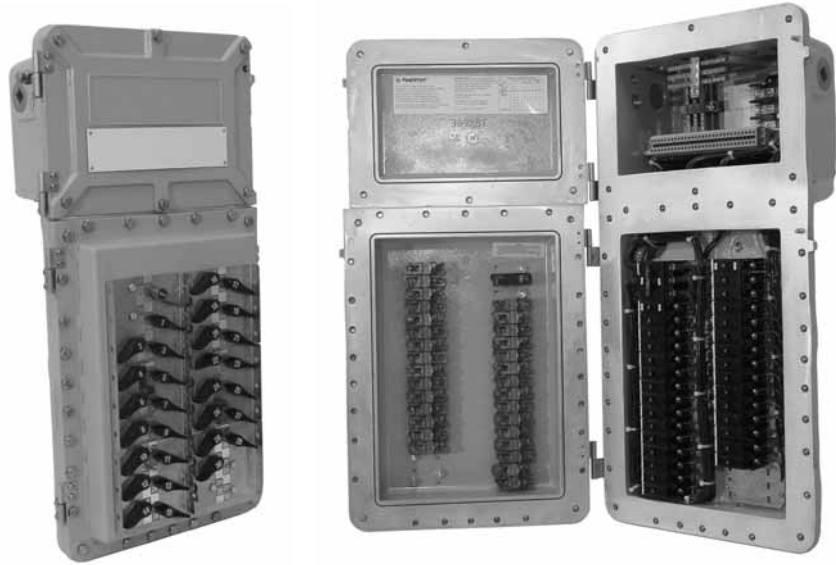
D2P and EWP Factory Sealed Circuit Breaker Panelboards: Explosionproof, Dust-Ignitionproof, Watertight, Corrosion-Resistant

Applications

- Protection and control of electrical equipment and circuits such as lighting and heat tracing in hazardous locations or in damp, wet or corrosive conditions.
- **D2P Series** — designed for use in Class I, Division 2 areas where ignitable vapors or gases may be present under unusual conditions, or in Class II, Division 1 areas where combustible dusts are present.
- **EWP Series** — designed for use in Class I and Class II, Division 1 manufacturing and processing areas where ignitable vapors, gases or combustible dusts are present.
- Group B standard on all D2P and EWP panelboards.

Features

- Panel sizes: "A" Board — up to 12 single-pole spaces; "B" Board — up to 24 single-pole spaces; "C" Board — up to 36 single-pole spaces.
- 3" Main conduit openings for both top and bottom feed of junction compartment.
- Permits selection of 1-, 2- or 3-pole breakers. 10,000 amp AC interrupting capacity is standard. (22,000 A.I.C. also available; contact factory.)
- Aluminum breaker actuators — spring loaded, corrosion resistant—feature self-locating design for actuating 1-, 2-, or 3-pole breakers in any sequence. Rotary actuating handles may be individually padlocked.
- Handles lock in either OFF or ON position without interfering with tripping of breakers.
- Double door — one for junction compartment and one for breaker compartment. Both doors are fully gasketed to provide raintight fit for both compartments.
- Two O-ring gaskets on each breaker handle shaft to prevent entrance of water or corrosion.
- Hinges allow the doors to be lifted off.
- Breakers prewired to terminal block minimizes installation time.
- Insulated neutral lug provided as standard.
- Panelboards use standard Quicklag^{®†} circuit breakers.



- Provision for drains/breathers in both compartments.
- Factory-sealed — no external branch sealing fittings needed (except Div. 1 Groups B and C).
- Voltage ratings: 120VAC for single pole and up to 240VAC for two or three pole.
- Type THHN minimum size #10 AWG copper wire (90°C) used in panelboards. Main lug feeder wires are crimped and installed in single conductor.
- Stainless steel captive, spring-out QuadLead[®] bolts for ease of access.

Standard Materials

- Housings: copper-free aluminum.
- Hardware: Stainless steel.

Standard Finishes

- Housings: Grey epoxy powder coat.

Options

- For bottom and side feed only (No conduit holes drilled in top) Add suffix —NTE
- Drain and breather sets. Suffix —DV.*

- Grounded neutral lug. Suffix —GNL.*
- GFI circuit breakers. Suffix —GFI* (available on all circuit positions.)
- Factory installed main circuit breaker (maximum 100 Amp). Maximum of two main breakers per panelboard permitted by NEC 384-16(a). Suffix —MB* for each main breaker. Main circuit breaker occupies branch breaker spaces.
- Factory installed wired provisions for future installation of circuit breakers in the field, on request. Consult factory for information.
- For Breakers for use in H.I.D. lighting applications, suffix —HID.*

Compliances

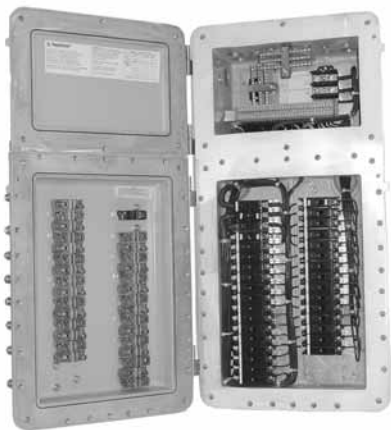
- NEMA 3, 3R, 4, 4X, 5, 7BCD, 9EFG, 12.
- UL Standard 67, 877 and 1203.

†Quicklag[®] is a registered trademark of Cutler-Hammer.

*See Ordering information.

D2P and EWP Factory Sealed Circuit Breaker Panelboards

Illustrated Features



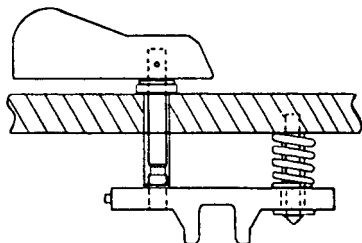
Two Door Design

Breaker compartment and junction compartment can be accessed independently of each other.



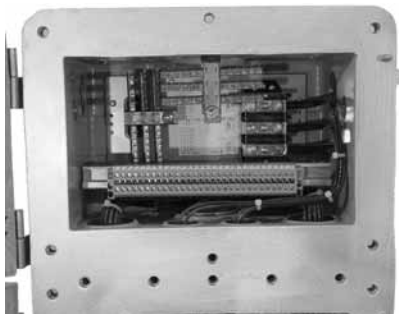
Watertight Gasketed Doors

Each door has an independent watertight gasket for NEMA 4 performance.



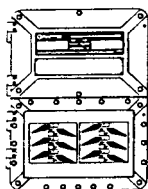
Improved Patented Actuator Handles

Rotary breaker handles provide dependable performance under heavy corrosion conditions. Handle also gives positive visual indication of breaker position. Improved spring-loaded breaker actuators are also designed for corrosion resistance and are completely self-locating.

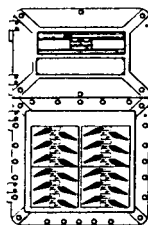


Main Feed Conduit Openings

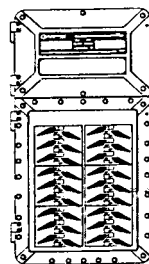
3" conduit openings at the top and bottom of the junction compartment permit either top or bottom feed entry. Threaded branch hubs are placed on all four sides for versatility and ease of installation.



12 Circuit



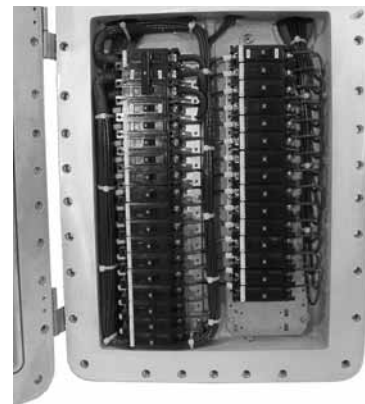
24 Circuit



36 Circuit

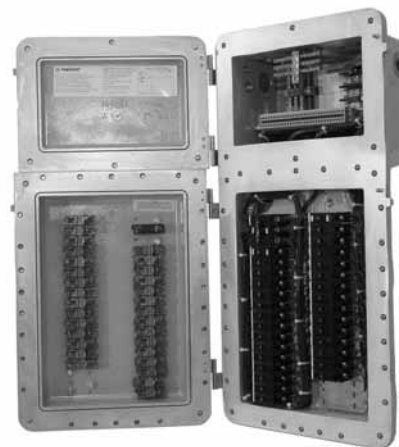
12, 24, or 36 Circuits

The EWP/D2P Panelboard lines are available in 12, 24 or 36 circuit versions.



Wire Management

Breaker wiring in the lower compartment is factory installed, saving installation time on the job site. Individual circuit connections are made to terminal blocks which are conveniently located in the front of the junction compartment. No. 10 wire is used throughout the panelboard breaker compartment. Wire bundles are crimped with a UL Listed method, and insulated for main lug assembly.

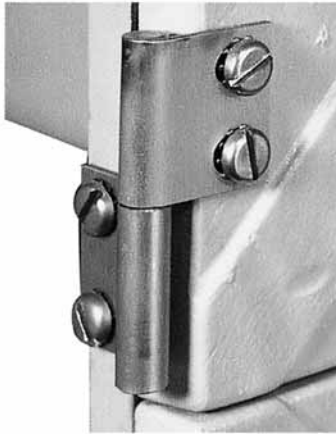


Factory Sealed

Sealing cement seals and protects wiring where it passes from junction to circuit breaker compartment. Branch hubs do not require external seals to maintain hazardous location ratings (except Div. 1, Group B and C).

D2P and EWP Factory Sealed Circuit Breaker Panelboards

Illustrated Features



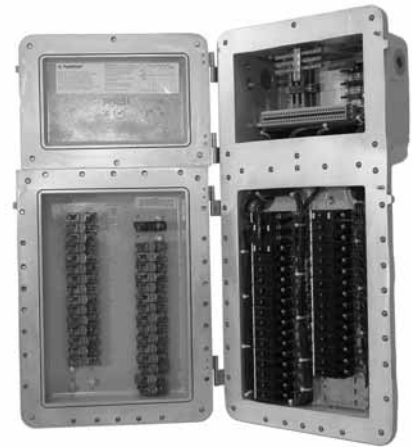
Removable Doors

Standard hinge position allows either door to be lifted off the enclosure to provide easy access to the interior.



Flexibility in Breaker Selection

In addition to having 36 circuits available, one-, two-, or three-pole breakers may also be specified in any combination. Ground-Fault Circuit Interrupters may also be specified for any and all breaker positions, with test buttons located adjacent to the breaker operating handle.



Tamper Proof Construction

Provisions for padlocking individual breakers in either ON or OFF position are provided on the front of the breaker compartment.

Corrosion-Resistant Housing

The junction and breaker housing are constructed of a rugged, one-piece, two-compartment integral casting of copper-free aluminum. Heavy-duty stainless-steel mounting brackets allow easy installation. The exterior and interior of the housing and doors have epoxy powder coat finish.

EWP and D2P Series Breaker Voltage Specifications

Breaker Type	No. of Poles	Continuous Current Range (Amps)	Maximum Breaker Volt Range	Interrupting Capacity Maximum Amps
QC	1	10 - 100	120/240	10,000
	2	10 - 100	120/240	10,000
	3	10 - 100	240	10,000
QPGF (GFI) or QPGFEP (EPD)	1	15 - 40	120	10,000
	2	15 - 50	120/240	10,000
QC(HID)	1	15 - 60	120/240	10,000
	2	15 - 60	120/240	10,000

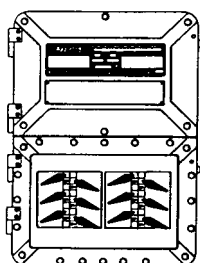
For 22,000 A.I.C. rated breakers contact factory.

Class I, Div. 2
Groups B,C,D
Class II, Div. 1 and 2
Groups E,F,G
Class III
Class I, Zone 1, AEx de IIB
NEMA 3,3R,4,4X,5,
7BCD,9EFG,12

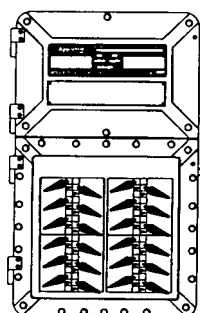
D2P Factory Sealed Circuit Breaker Panelboards: Explosionproof, Dust-Ignitionproof, Watertight

For use with Threaded Metal Conduit or Approved Cable Terminators.

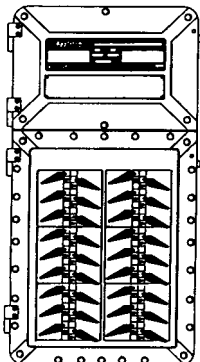
“A” Board
 (12 Circuit)



“B” Board
 (24 Circuit)



“C” Board
 (36 Circuit)



Catalog Number*

No. of Breakers	Main Lug Amp. Max.	Cable Range	Panel Size	Wiring System No.	
				4 120/240V AC	5 120/208V AC
6	250	250 MCM to 6	A	D2P4A-6	D2P5A-6
8	250	250 MCM to 6	A	D2P4A-8	D2P5A-8
10	250	250 MCM to 6	A	D2P4A-10	D2P5A-10
12	250	250 MCM to 6	A	D2P4A-12	D2P5A-12
14	250	250 MCM to 6	B	D2P4B-14	D2P5B-14
16	250	250 MCM to 6	B	D2P4B-16	D2P5B-16
18	250	250 MCM to 6	B	D2P4B-18	D2P5B-18
20	250	250 MCM to 6	B	D2P4B-20	D2P5B-20
22	250	250 MCM to 6	B	D2P4B-22	D2P5B-22
24	250	250 MCM to 6	B	D2P4B-24	D2P5B-24
26	250	250 MCM to 6	C	D2P4C-26	D2P5C-26
28	250	250 MCM to 6	C	D2P4C-28	D2P5C-28
30	250	250 MCM to 6	C	D2P4C-30	D2P5C-30
32	250	250 MCM to 6	C	D2P4C-32	D2P5C-32
34	250	250 MCM to 6	C	D2P4C-34	D2P5C-34
36	250	250 MCM to 6	C	D2P4C-36	D2P5C-36

*Catalog numbers shown are panelboards with single-pole breakers for wiring systems 4 and 5. To order single, two and/or three-pole breakers with different wiring systems (Page P-8), use “Ordering Information” below. Add ampere rating (continuous): 15 through 60 for 1P, and 15 through 100 for 2P and 3P.

Information

1. Select Panel Type: D2P.
2. Select Wiring System Diagram Number from Section P, page 8 (switching neutral, solid neutral or without neutral).
3. Select Panelboard Size: A (max. 12 single-pole spaces), B (max. 24 single-pole spaces) or C (max. 36 single-pole spaces).
4. Insert dash and select Breakers as desired in panelboard. First number is quantity of breakers (1 5-60A for 1P and 15-100A for 2P, 3P); second number, ampere rating (continuous); and third number, number of poles. (Indicate only if different from wiring

diagram selected). Each breaker pole takes one space.

5. Add dash and repeat step 4 for Additional Breakers as desired.

6. Add dash preceding each DV, GNL or MB suffix (see “Factory Installed Accessories”). The correct number of poles for the Main Breaker will be supplied automatically, depending on wiring system selected. Maximum of two main breakers allowed by NEC 384-16(a).

NOTE: Main breakers use 2 or 3 branch circuit spaces.

Options and Factory Installed Accessories

Description	Suffix
Drain and Breather	-DV
Grounded Neutral Bar	-GNL
Main Breaker	-MB***
Ground Fault Interrupter (Single or Two Pole -5 mA sensitivity)	-GFI**
Equipment Protection Devices (Single or Two Pole -30 mA sensitivity)	-EPD**
Ground Terminal Bar	-GJ**
HID rated breaker	-HID
No Top Entry	-NTE

*** Add ampere rating (max. 100A.)
 ** Consult factory.

Ordering Example: D2P 25 B - 9 15 - 3 50 - 7 20 - 1 30 2 - MB 100

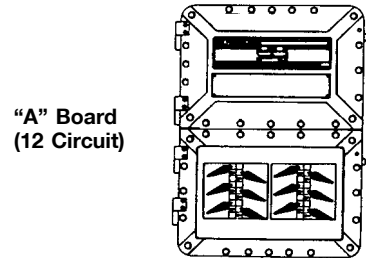
Panel Type	_____
Wiring System	_____
Panel Size	_____
Quantity of Breakers	_____
Ampere Rating	_____
Quantity of Breakers	_____
Ampere Rating	_____
Quantity of Breakers	_____
Ampere Rating	_____
Quantity of Breakers	_____
Ampere Rating	_____
No. of Poles (include only if different from wiring system)	_____
Main Breaker (number of poles depends on wiring system)	_____
Ampere Rating	_____

P-6

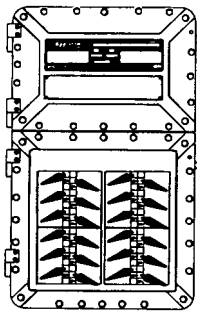
Class I, Div. 1 and 2
Groups BT,CT,D
Class II, Div. 1 and 2
Groups E,F,G
Class III
NEMA 3,3R,4,4X,5,
7BCD,9EFG,12

EWP Factory Sealed Circuit Breaker Panelboards: Explosionproof, Dust-Ignitionproof, Watertight

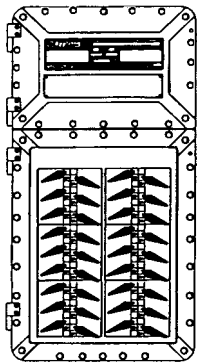
For use with Threaded Metal Conduit.



"A" Board
(12 Circuit)



"B" Board
(24 Circuit)



"C" Board
(36 Circuit)

Options and Factory Installed Accessories

Description	Suffix
Drain and Breather	-DV
Grounded Neutral Bar	-GNL
Main Breaker	-MB***
Ground Fault Interrupter (Single or Two Pole -5 mA sensitivity)	-GFI**
Equipment Protection Devices (Single or Two Pole -30 mA sensitivity)	-EPD**
Ground Terminal Bar	-GJ**
HID rated breaker	-HID
No Top Entry	-NTE

*** Add ampere rating (max. 100A.)

** Consult factory.

No. of Breakers	Main Lug Amp. Max.	Cable Range	Panel Size	Catalog Number*	
				Wiring System No. 4 120/240V AC	Wiring System No. 5 120/208V AC
6	250	250 MCM to 6	A	EWP4A-6	EWP5A-6
8	250	250 MCM to 6	A	EWP4A-8	EWP5A-8
10	250	250 MCM to 6	A	EWP4A-10	EWP5A-10
12	250	250 MCM to 6	A	EWP4A-12	EWP5A-12
14	250	250 MCM to 6	B	EWP4B-14	EWP5B-14
16	250	250 MCM to 6	B	EWP4B-16	EWP5B-16
18	250	250 MCM to 6	B	EWP4B-18	EWP5B-18
20	250	250 MCM to 6	B	EWP4B-20	EWP5B-20
22	250	250 MCM to 6	B	EWP4B-22	EWP5B-22
24	250	250 MCM to 6	B	EWP4B-24	EWP5B-24
26	250	250 MCM to 6	C	EWP4C-26	EWP5C-26
28	250	250 MCM to 6	C	EWP4C-28	EWP5C-28
30	250	250 MCM to 6	C	EWP4C-30	EWP5C-30
32	250	250 MCM to 6	C	EWP4C-32	EWP5C-32
34	250	250 MCM to 6	C	EWP4C-34	EWP5C-34
36	250	250 MCM to 6	C	EWP4C-36	EWP5C-36

*Catalog numbers shown are panelboards with single-pole breakers for wiring systems 4 and 5. To order single, two and/or three-pole breakers with different wiring systems (Page P-8, use "Ordering Information" below. Add ampere rating (continuous): 15 through 60 for 1P, and 15 through 100 for 2P and 3P. †For Groups B and C, all conduits must be sealed adjacent to enclosure.

Information

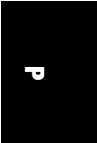
1. Select Panel Type: EWP.
2. Select Wiring System Diagram Number from Section P, page 8 (switching neutral, solid neutral or without neutral).
3. Select Panelboard Size: A (max. 12 single-pole spaces), B (max. 24 single-pole spaces) or C (max. 36 single-pole spaces).
4. Insert dash and select Breakers as desired in panelboard. First number is quantity of breakers; second number, ampere rating (1 15-100A for 1P and 15-100A for 2P, 3P)(continuous); and third number, number of poles. (Indicate only if different

from wiring diagram selected). Each breaker pole takes one space.
5. Add dash and repeat step 4 for Additional Breakers as desired.
6. Add dash preceding each DV, GNL or MB suffix (see "Factory Installed Accessories"). The correct number of poles for the Main Breaker will be supplied automatically, depending on wiring system selected. Maximum of two main breakers allowed by NEC 384-16(a).

NOTE: Main breakers use 2 or 3 branch circuit spaces.

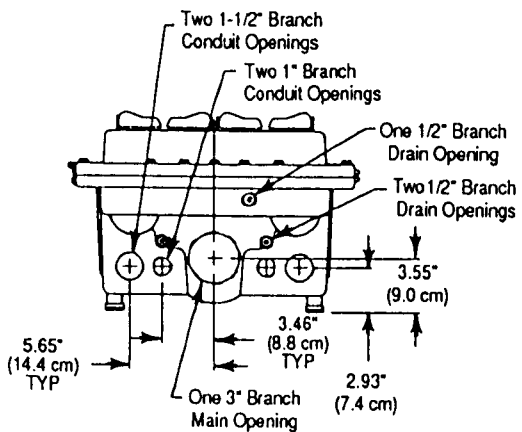
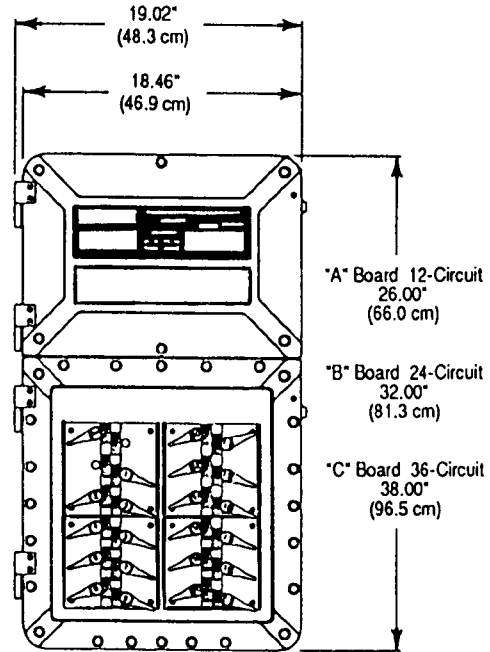
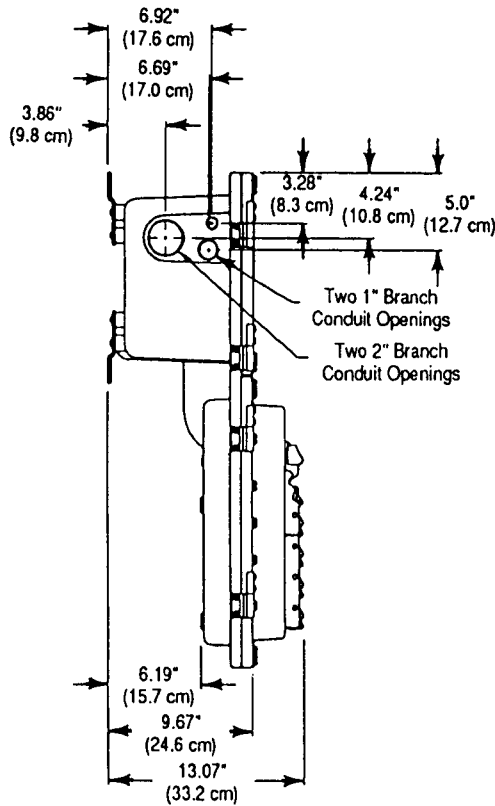
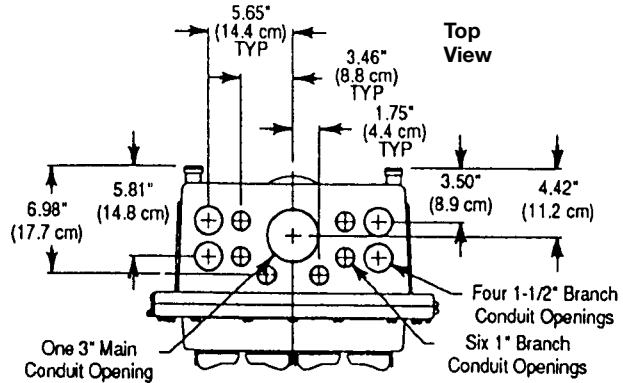
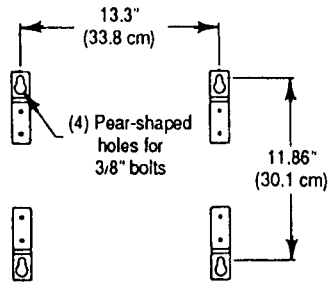
Ordering Example: EWP 25 B - 9 15 - 3 50 - 7 20 - 1 30 2 - MB 100

Panel Type	_____
Wiring System	_____
Panel Size	_____
Quantity of Breakers	_____
Ampere Rating	_____
Quantity of Breakers	_____
Ampere Rating	_____
Quantity of Breakers	_____
Ampere Rating	_____
Quantity of Breakers	_____
Ampere Rating	_____
No. of Poles (include only if different from wiring system)	_____
Main Breaker (number of poles depends on wiring system)	_____
Ampere Rating	_____



Dimensions: D2P and EWP Circuit Breaker Panelboards

Drilling Plans for Mounting Bolts

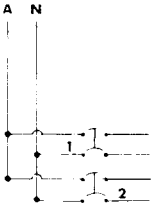


D2P shown.
D2P and EWP have same dimensions.

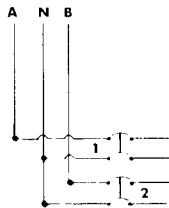
Bottom
View

Wiring System Diagrams for EWP and D2P Series Panelboards

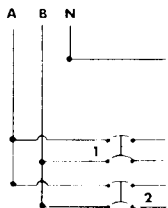
SYSTEM NO. 1
Mains—2-Wire
Branches—2-Wire
Breakers—2-Pole



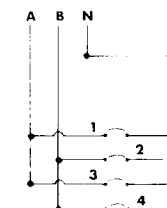
SYSTEM NO. 2
Mains—3 Wire
Branches—2-Wire
Breakers—2-Pole



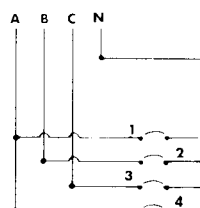
SYSTEM NO. 3
Mains—3-Wire
Branches—3-Wire
Breakers—2-Pole
Solid Neutral



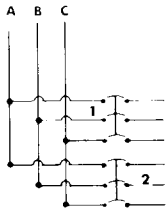
SYSTEM NO. 4
Mains—3-Wire
Branches—2-Wire
Breakers—Single-Pole
Solid Neutral



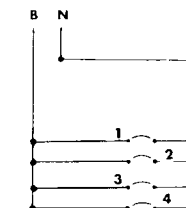
SYSTEM NO. 5
Mains—4-Wire, 3-Phase
Branches—2-Wire, 1-Phase
Breakers—Single-Pole
Solid Neutral



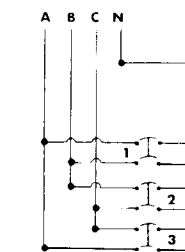
SYSTEM NO. 6
Mains—3-Wire
Branches—3-Wire
Breakers—3-Pole



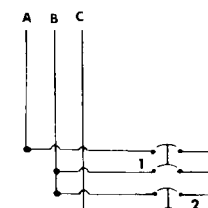
SYSTEM NO. 7
Mains—2 Wire
Branches—2-Wire
Breakers—Single-Pole
Solid Neutral



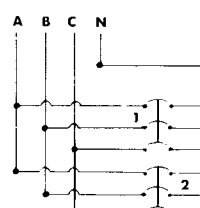
SYSTEM NO. 8
Mains—4-Wire, 3-Phase
Branches—3-Wire, 1-Phase
Breakers—2-Pole
Solid Neutral



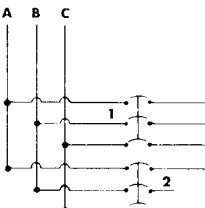
SYSTEM NO. 9
Mains—3-Wire, 3-Phase
Branches—2-Wire, 1-Phase
Breakers—2-Pole



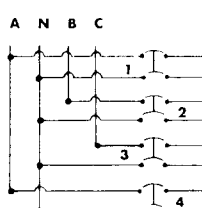
SYSTEM NO. 11
Mains—4-Wire, 3-Phase
Branches—4-Wire, 3-Phase
Breakers—3-Pole
Solid Neutral



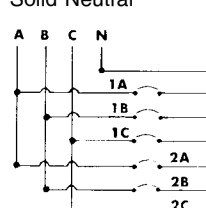
SYSTEM NO. 12
Mains—3-Wire, 3-Phase
Branches—3-Wire, 3-Phase
Breakers—3-Pole



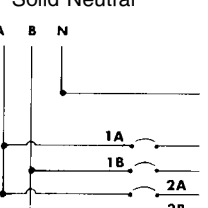
SYSTEM NO. 13
Mains—4 Wire, 3-Phase
Branches—2-Wire, 1-Phase
Breakers—2-Pole



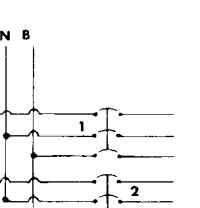
SYSTEM NO. 15
Mains—4-Wire, 3-Phase
Branches—2-Wire, 1-Phase
Breakers—Single-Pole
Solid Neutral



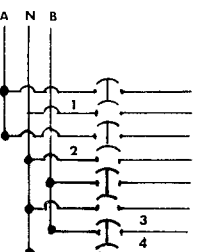
SYSTEM NO. 16
Mains—3-Wire
Branches—2-Wire
Breakers—Single-Pole
Solid Neutral



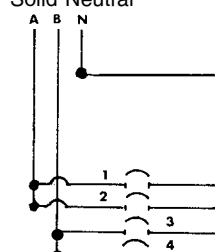
SYSTEM NO. 17
Mains—3-Wire
Branches—3-Wire
Breakers—3-Pole



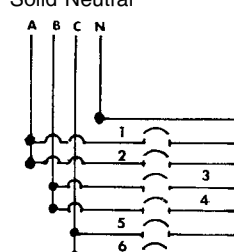
SYSTEM NO. 22
Mains—3-Wire
Branches—2-Wire
Breakers—2-Pole



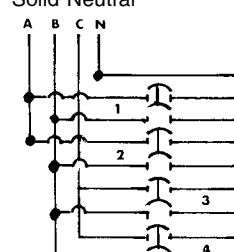
SYSTEM NO. 24
Mains—3 Wire
Branches—2-Wire
Breakers—Single-Pole
Solid Neutral



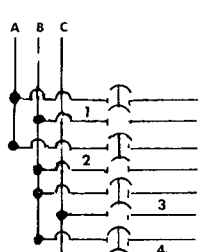
SYSTEM NO. 25
Mains—4-Wire, 3-Phase
Branches—2-Wire, 1-Phase
Breakers—Single-Pole
Solid Neutral



SYSTEM NO. 28
Mains—4-Wire, 3-Phase
Branches—3-Wire, 1-Phase
Breakers—2-Pole
Solid Neutral



SYSTEM NO. 29
Mains—3-Wire, 3-Phase
Branches—2-Wire, 1-Phase
Breakers—2-Pole





ALPN, APPN and AGPN Series: Explosionproof, Dust-Ignitionproof, Watertight Non-Factory Sealed.

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, and similar electrical equipment.

Features

- Breaker operators included as standard.
- O-ring gasket insures watertight integrity.
- Stainless steel hinges are standard.
- Copper bus bars are standard.
- Quad-Lead stainless steel cover bolts are standard.
- Permits selection of 1,2 or 3 pole breakers.
- Precision machined flame path between body and cover.
- Slotted mounting feet.
- Breaker operators can be padlocked in the "On" or "Off" position.
- All panelboards are supplied with Cutler-Hammer† interiors.
- Chassis assemblies with mains at top (bottom optional).
- For standard outlets, see outline dimensions. For custom outlets, consult factory.
- Provisions for 12, 18, 24, 30, 36 and 42 circuit single pole chassis.
- 100 Amp or 225A 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:* Copper-free aluminum.
- *Cover bolts:* Quad-Lead stainless steel.
- *Breaker Operators:* copper-free aluminum.
- *Hinges:* stainless steel.
- *O-Ring:* Neoprene



Standard Finishes

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

Compliances

- UL Standard 67,877,1203.
- CSA Certified - Standard C22.2, Nos 29,30.
- NEMA 4,4X,7BCD,9EFG

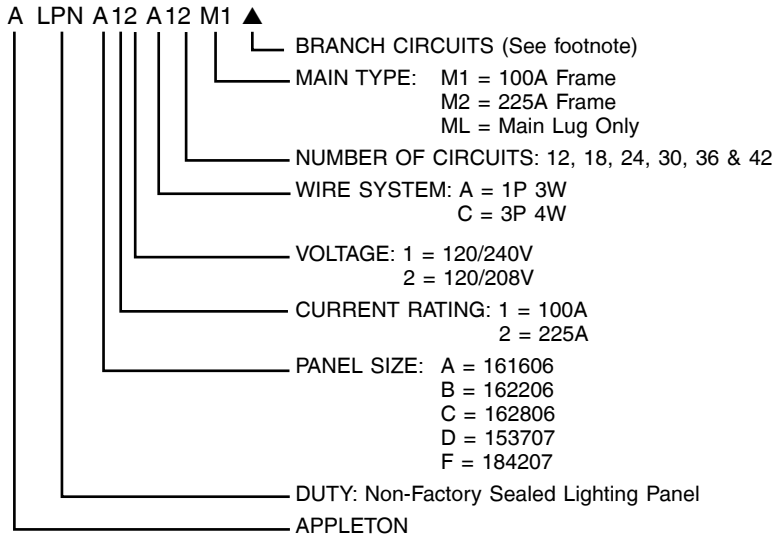
† Cutler-Hammer is a trademark of the Eaton Corporation.

P-10

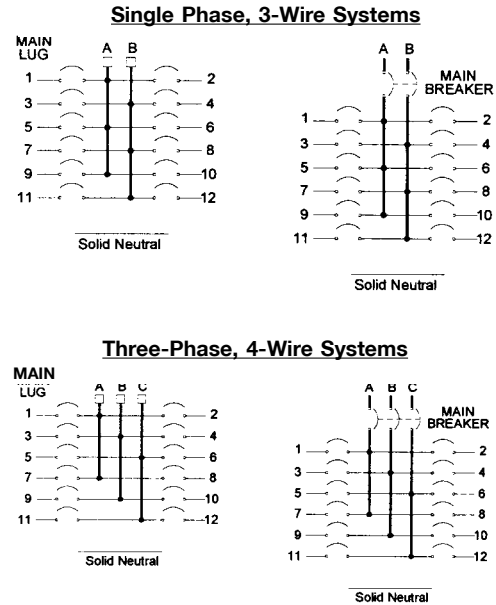
Class I, Div. 1 and 2
Groups B,C,D
Class II, Div. 1 and 2
Groups E,F,G
Class III
NEMA 4,4X,7BCD,9EFG

ALPN Series Lighting Distribution Panelboards: Explosionproof, Dust-Ignitionproof, Watertight Non-Factory Sealed.

SAMPLE CAT. NO.



Typical Panelboard Wiring Diagram



	No. of Circuits	120/240V 1 Phase 3 Wire BAB Type	120/208V 3 Phase 4 Wire BAB Type	Panel Size	Approx. Weight (lbs)
100 Amp Main Lug Only	12	ALPNA11A12ML▲	ALPNA12C12ML▲	A	135
	18	ALPNB11A18ML▲	ALPNB12C18ML▲	B	165
	24	ALPNC11A24ML▲	ALPNC12C24ML▲	C	210
	30	ALPNC11A30ML▲	ALPNC12C30ML▲	C	215
225 Amp Main Lug Only	18	ALPNC21A18ML▲	ALPNC22C18ML▲	C	180
	24	ALPNC21A24ML▲	ALPNC22C24ML▲	C	230
	30	ALPNC21A30ML▲	ALPNC22C30ML▲	C	235
	36	ALPND21A36ML▲	ALPND22C36ML▲	D	290
Main Breaker 100AF	42	ALPND21A42ML▲	ALPND22C42ML▲	D	295
	12	ALPNC11A12M1▲	ALPNC12C12M1▲	C	165
	18	ALPNC11A18M1▲	ALPNC12C18M1▲	C	180
	24	ALPND11A24M1▲	ALPND12C24M1▲	D	210
Main Breaker 225AF	30	ALPND11A30M1▲	ALPND12C30M1▲	D	315
	18	ALPNC21A18M2▲	ALPNC22C18M2▲	C	185
	24	ALPND21A24M2▲	ALPND22C24M2▲	D	295
	30	ALPND21A30M2▲	ALPND22C30M2▲	D	300
	36	ALPND21A36M2▲	ALPND22C36M2▲	D	305
	42	ALPNF21A42M2▲	ALPNF22C42M2▲	F	345

Factory Installed Options

Description	Suffix
Breather, NEMA 4X, 7 & 9	BR
Drain, NEMA 4X, 7 & 9	DN
5ma Ground Fault Interrupter	GFI*
30ma Ground Fault Interrupter	EPD*
GFI Indicating Light	L5
Phenolic Nameplate (Specify Legend)	NP

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

Note: For Back Fed main, replace ML, M1, or M2 in part number with **BF**. For 400A Main Lug, consult factory. Standard interrupting capacity is 10,000 AIC. For higher interrupt ratings, consult factory.

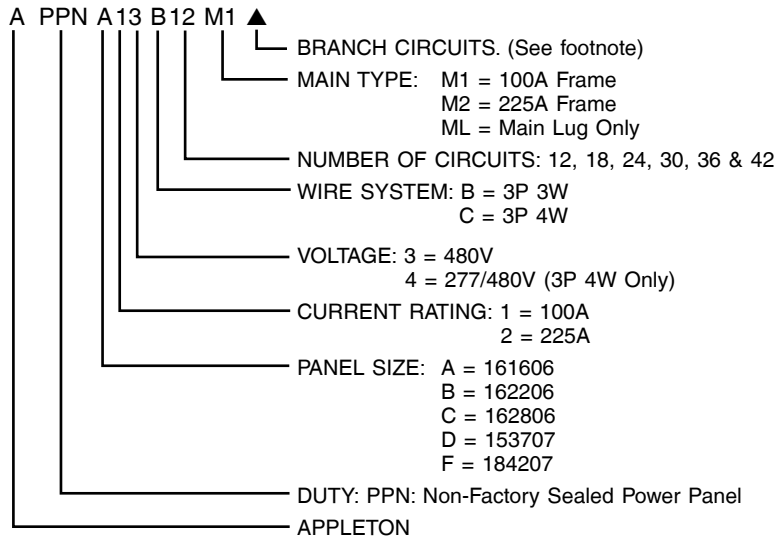
▲ Select branch breakers as desired in panel. First and second digits are the quantity of breakers, third and fourth digits are ampere rating, the fifth digit is number of poles.
Example: An 18 circuit 120/240V 1 phase 3 wire 100A MLO panel with 12 single pole 20 amp and 3 two pole 30 amp branch breakers should read ALPNB11A18ML-12201-03302.



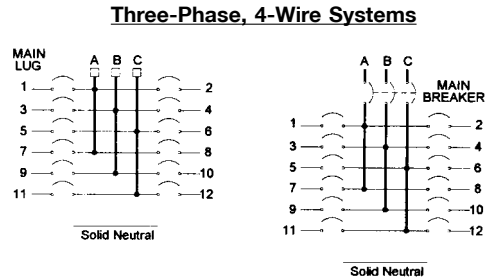
**Class I, Div. 1 and 2
Groups B,C,D
Class II, Div. 1 and 2
Groups E,F,G
Class III
NEMA 4,4X,7BCD,9EFG**

APPN Series Power Distribution Panelboards: Explosionproof, Dust-Ignitionproof, Watertight Non-Factory Sealed.

SAMPLE CAT. NO.



Typical Panelboard Wiring Diagram



	No. of Circuits	277/480V 3 Phase 4 Wire GHB Type	Panel Size	Approx. Weight (lbs)
100 Amp Main Lug Only	12	APPNA14C12ML▲	A	135
	18	APPNB14C18ML▲	B	165
	24	APPNC14C24ML▲	C	210
	30	APPNC14C30ML▲	C	215
225 Amp Main Lug Only	18	APPNC24C18ML▲	C	180
	24	APPNC24C24ML▲	C	230
	30	APPNC24C30ML▲	C	235
	36	APPND24C36ML▲	D	290
	42	APPND24C42ML▲	D	295
Main Breaker 100AF	12	APPNC14C12M1▲	C	165
	18	APPNC14C18M1▲	C	180
	24	APPND14C24M1▲	D	210
	30	APPND14C30M1▲	D	315
Main Breaker 225AF	18	APPNC24C18M2▲	C	185
	24	APPND24C24M2▲	D	295
	30	APPND24C30M2▲	D	300
	36	APPND24C36M2▲	D	305
	42	APPNF24C42M2▲	F	345

Factory Installed Options

Description	Suffix
Breather, NEMA 4X, 7 & 9	BR
Drain, NEMA 4X, 7 & 9	DN
Phenolic Nameplate (Specify Legend)	NP

Note: For Back Fed main, replace ML, M1, or M2 in part number with **BF**. For 400A Main Lug, consult factory. Standard interrupting capacity is 14,000 AIC. For higher interrupt ratings, consult factory.

▲ 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 277/480V 1 phase 3 wire 100A MLO panel with 12 single pole 20 amp and 3 two pole 30 amp branch breakers should read APPNB14C18ML-12201-03302.

P-12

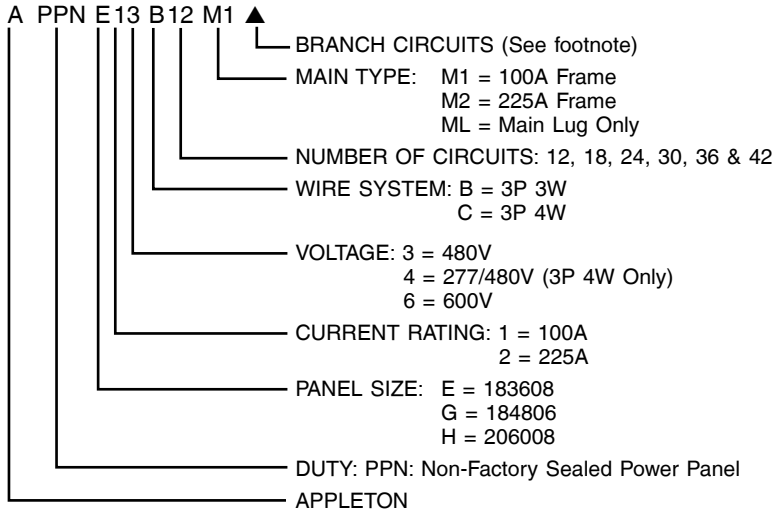
Class I, Div. 1 and 2
Groups B,C,D
Class II, Div. 1 and 2
Groups E,F,G
Class III

NEMA 4,4X,7BCD,9EFG

APPN Series Power Distribution Panelboards: Explosionproof, Dust-Ignitionproof, Watertight

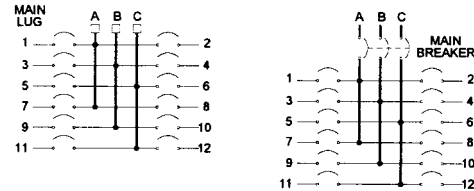
Non-Factory Sealed.

SAMPLE CAT. NO.

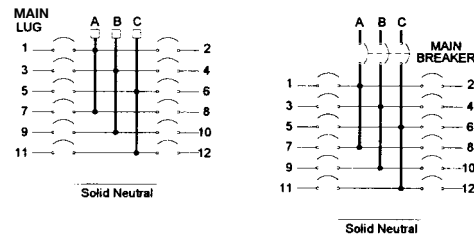


Typical Panelboard Wiring Diagram

Three Phase, 3-Wire Systems



Three-Phase, 4-Wire Systems



	480V No. of 3 Phase 3 Wire Circuits EHD Type	277/480V 3 Phase 4 Wire EHD Type	600V 3 Phase 4 Wire FDB Type	Approx Panel Weight Size (lbs)
100 Amp Main Lug Only	12 APPNE13B12ML▲	APPNE14C12ML▲	APPNE16C12ML▲	E 280
	18 APPNE13B18ML▲	APPNE14C18ML▲	APPNE16C18ML▲	E 285
	24 APPNE13B24ML▲	APPNE14C24ML▲	APPNE16C24ML▲	E 290
Main Breaker 100AF	30 APPNG13B30ML▲	APPNG14C30ML▲	APPNG16C30ML▲	G 385
	18 APPNE23B18ML▲	APPNE24C18ML▲	APPNE26C18ML▲	E 290
	24 APPNG23B24ML▲	APPNG24C24ML▲	APPNG26C24ML▲	G 390
225 Amp Main Lug Only	30 APPNG23B30ML▲	APPNG24C30ML▲	APPNG26C30ML▲	G 395
	36 APPNG23B36ML▲	APPNG24C36ML▲	APPNG26C36ML▲	G 400
	42 APPNH23B42ML▲	APPNH24C42ML▲	APPNH26C42ML▲	H 545
Main Breaker 225AF	12 APPNE13B12M1▲	APPNE14C12M1▲	APPNE16C12M1▲	E 285
	18 APPNG13B18M1▲	APPNG14C18M1▲	APPNG16C18M1▲	G 390
	24 APPNG13B24M1▲	APPNG14C24M1▲	APPNG16C24M1▲	G 395
Main Breaker 400AF	30 APPNG13B30M1▲	APPNG14C30M1▲	APPNG16C30M1▲	G 400
	18 APPNG23B18M2▲	APPNG24C18M2▲	APPNG26C18M2▲	G 395
	24 APPNG23B24M2▲	APPNG24C24M2▲	APPNG26C24M2▲	G 400
Main Breaker 400AF	30 APPNH23B30M2▲	APPNH24C30M2▲	APPNH26C30M2▲	H 550
	36 APPNH23B36M2▲	APPNH24C36M2▲	APPNH26C36M2▲	H 555
	42 APPNH23B42M2▲	APPNH24C42M2▲	APPNH26C42M2▲	H 560

Factory Installed Options

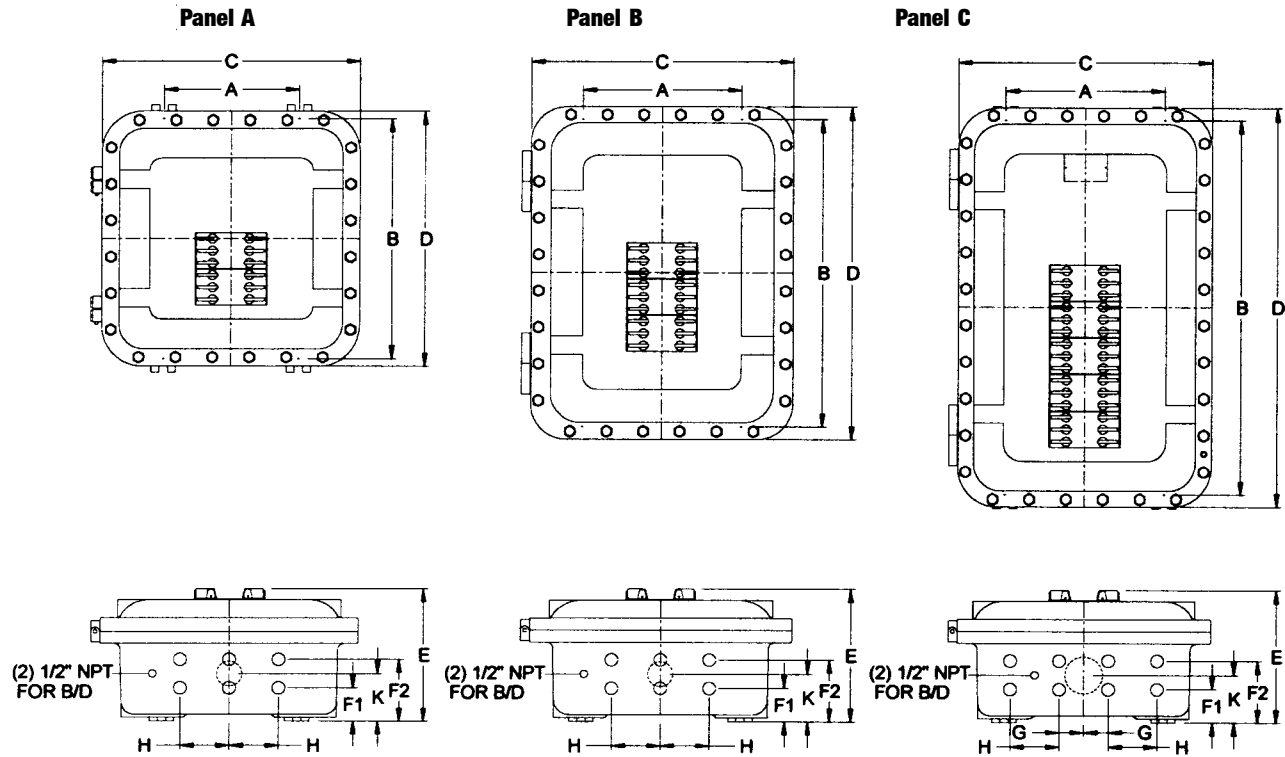
Description	Suffix
Breather, NEMA 4X, 7 & 9	BR
Drain, NEMA 4X, 7 & 9	DN
Phenolic Nameplate (Specify Legend)	NP

Note: For Back Fed main, replace ML, M1, or M2 in part number with **BF**. For 400A Main Lug, consult factory. Standard interrupting capacity is 14,000 AIC. For higher interrupt ratings, consult factory.

▲ 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 277/480V 3 phase 4 wire 100A MLO panel with 12 single pole 20 amp and 3 two pole 30 amp branch breakers should read APPNE14C18ML-12201-03302.

ALPN, APPN Main Lug Panelboard Dimensional Data and Mounting Hardware

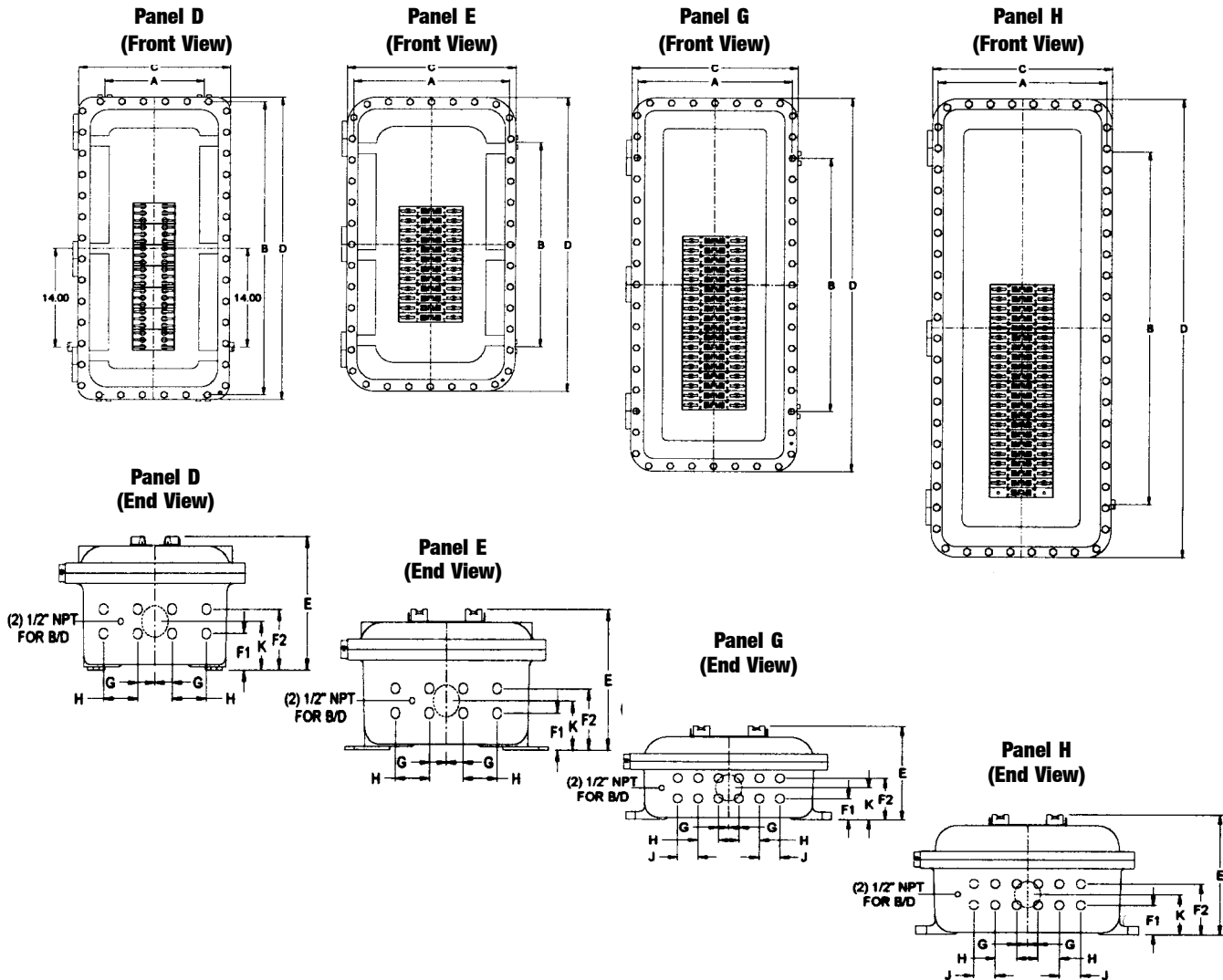
P



Panel Size	Mounting Dimensions		C	D	E	F1	F2	G	H	K	Standard Top	Outlets Bottom	Mounting Hdw. Set
	A	B											
A	11.00	19.75	21.00	21.00	11.00	2.75	5.13	—	4.00	3.94	(1) 2"	(6) 1"	AMH8
B	13.00	25.25	21.44	27.31	11.00	2.75	5.13	—	4.00	3.94	(1) 2"	(6) 1"	AMH8
C	13.00	30.75	20.75	32.75	11.00	2.75	5.13	2.00	4.00	3.94	(1) 3"	(8) 1"	AMH8

All dimensions are in inches. All outlets are NPT.

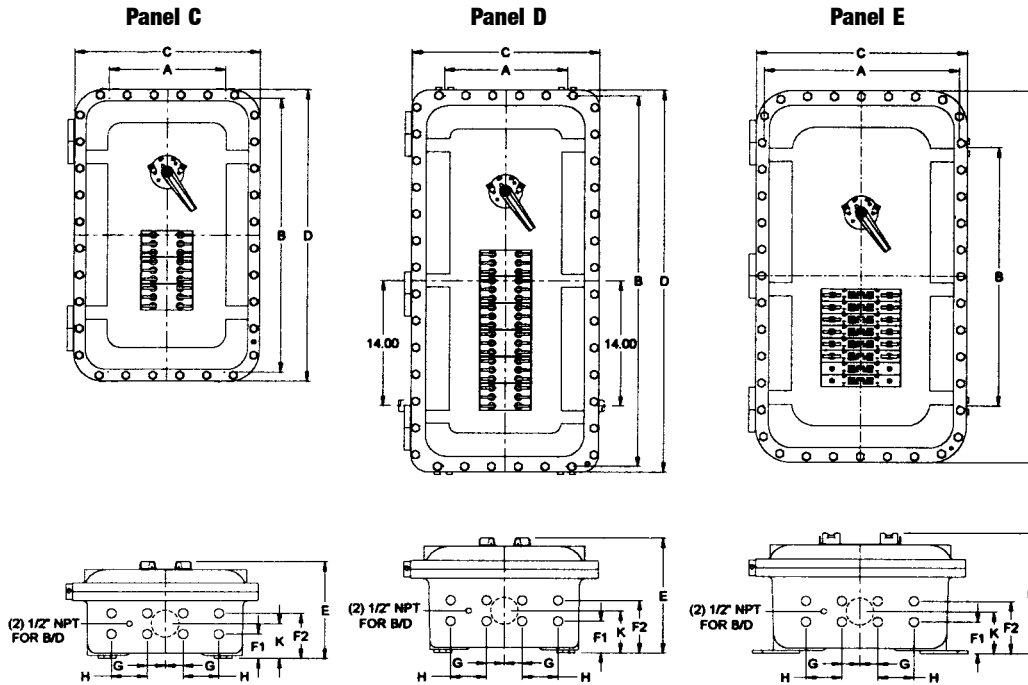
ALPN, APPN Main Lug Panelboard Dimensional Data and Mounting Hardware



Panel Size	Mounting Dimensions		C	D	E	F1	F2	G	J	H	K	Standard Outlets		Mounting Hdw. Set
	A	B										Top	Bottom	
D	13.75	41.63	21.00	42.94	13.00	3.56	5.94	2.00	—	4.00	4.75	(1) 3"	(8) 1"	AMH8
E	21.75	29.00	23.50	41.75	13.63	3.56	5.94	2.00	—	4.00	4.75	(1) 3"	(8) 1"	AMH8
G	21.38	36.00	23.00	53.00	11.00	2.50	4.88	1.19	2.38	2.38	3.50	(1) 3"	(12) 1"	AMH6
H	23.50	50.00	25.00	65.00	14.00	3.44	5.94	1.25	2.50	2.50	4.69	(1) 3"	(12) 1"	AMH6

All dimensions are in inches. All outlets are NPT.

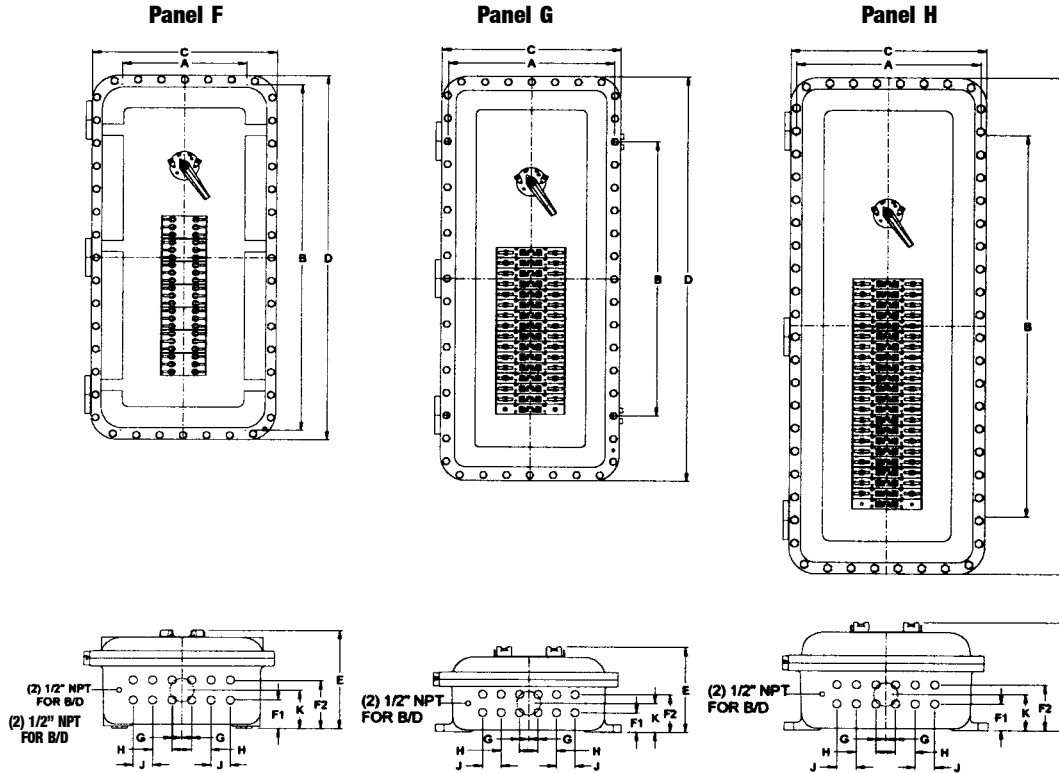
ALPN, APPN Main Breakers Panelboard Dimensional Data and Mounting Hardware



Panel Size	Mounting Dimensions		C	D	E	F1	F2	G	H	K	Standard Outlets		Mounting Hdw. Set
	A	B									Top	Bottom	
C	13.00	30.75	20.75	32.75	11.00	2.75	5.13	2.00	4.00	3.94	(1) 3"	(8) 1"	AMH8
D	13.75	41.63	21.00	42.94	13.00	3.56	5.94	2.00	4.00	4.75	(1) 3"	(8) 1"	AMH8
E	21.75	29.00	23.50	41.75	13.63	3.56	5.94	2.00	4.00	4.75	(1) 3"	(8) 1"	AMH8

All dimensions are in inches. All outlets are NPT.

ALPN, APPN Main Breakers Panelboard Dimensional Data and Mounting Hardware



Panel Size	Mounting Dimensions											Standard Outlets		Mounting Hdw. Set
	A	B	C	D	E	F1	F2	G	J	H	K	Top	Bottom	
F	16.00	45.38	23.75	47.75	12.81	3.69	6.31	1.25	2.50	2.50	5.00	(1) 3"	(12) 1"	AMH8
G	21.38	36.00	23.00	53.00	11.00	2.50	4.88	1.19	2.38	2.38	3.50	(1) 3"	(12) 1"	AMH6
H	23.50	50.00	25.00	65.00	14.00	3.44	5.94	1.25	2.50	2.50	4.69	(1) 3"	(12) 1"	AMH6

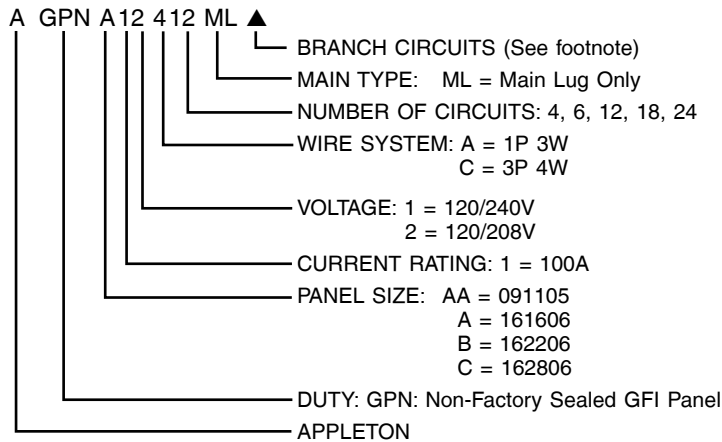
All dimensions are in inches. All outlets are NPT.



**Class I, Div. 1 and 2
Groups B,C,D
Class II, Div. 1 and 2
Groups E,F,G
Class III
NEMA 4,4X,7BCD,9EFG**

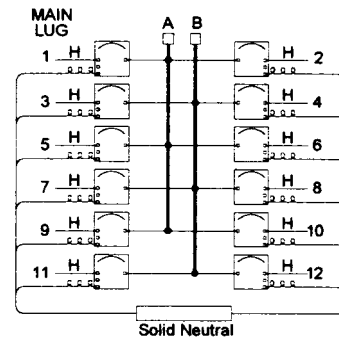
AGPN Series Ground Fault Interrupting Distribution Panelboards: Explosionproof, Dust-Ignitionproof, Watertight Non-Factory Sealed.

SAMPLE CAT. NO.

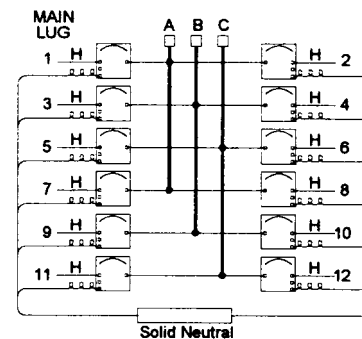


Typical Panelboard Wiring Diagram

Single Phase, 3-Wire Systems



Three-Phase, 4-Wire Systems



	No. of Circuits	120/240V		Panel Size	Approx. Weight (lbs)
		1 Phase 3 Wire	3 Phase 4 Wire		
100 Amp Main Lug Only	4	AGPNA11A04ML▲	AGPNA12C04ML▲	AA	30
	6	AGPNA11A06ML▲	AGPNA12C06ML▲	AA	35
	12	AGPNA11A12ML▲	AGPNA12C12ML▲	A	135
	18	AGPNB11A18ML▲	AGPNB12C18ML▲	B	165
	24	AGPNC11A24ML▲	AGPNC12C24ML▲	C	210

Note: For Back Fed main, replace last ML in part number with **BF**. For 100A Main Breaker, consult factory. Standard interrupting capacity is 10,000 AIC. For higher interrupt ratings, consult factory.

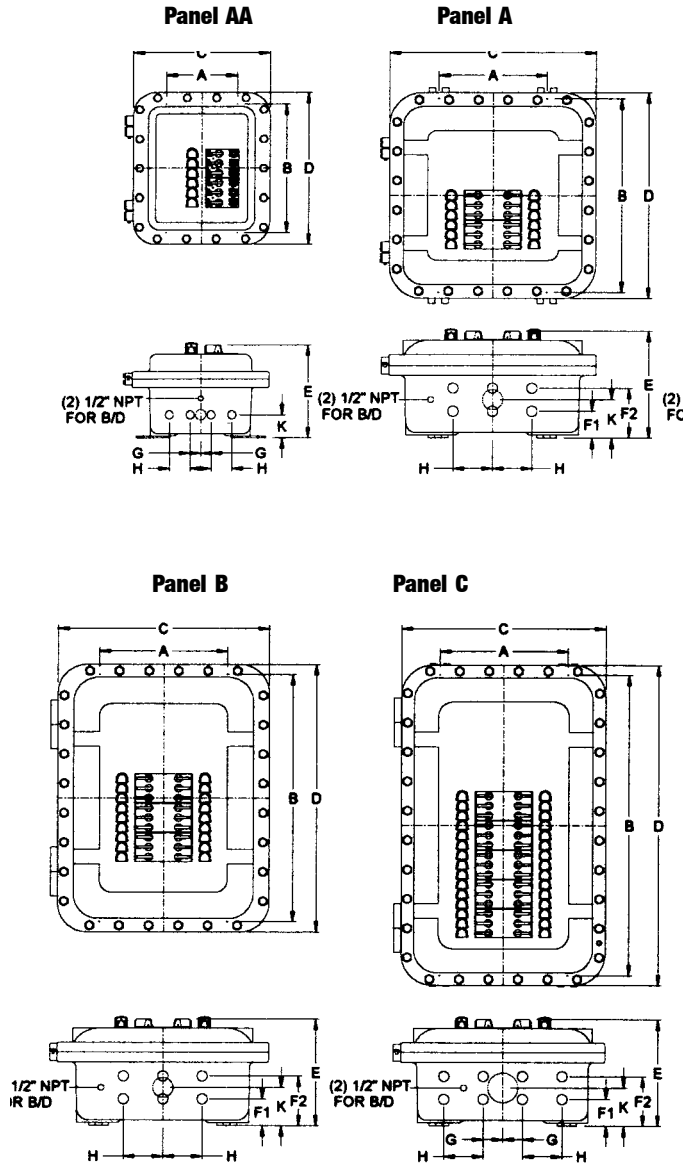
▲ Select branch breakers as desired in panel. First and second digits are the quantity of breakers, third and fourth digits are ampere rating, the fifth digit is number of poles. Example: An 18 circuit 120/240V 1 phase 3 wire 100A MLO panel with 12 single pole 20 amp 30 ma GFI and 3 two pole 30 amp 5 ma GFI branch breakers should read AGPNB11A18ML-12201EPD-03302GFI.

Factory Installed Options

Description	Suffix
Breather, NEMA 4X, 7 & 9	BR
Drain, NEMA 4X, 7 & 9	DN
5ma Ground Fault Interrupter	GFI*
30ma Ground Fault Interrupter	EPD*
GFI Indicating Light	L5
Phenolic Nameplate (Specify Legend)	NP

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

AGPN Series GFI Panelboard Dimensional Data and Mounting Hardware



Panel Size	Mounting Dimensions		C	D	E	F1	F2	G	H	K	Standard Outlets		Mounting Hdw. Set
	A	B									Top	Bottom	
AA	7.25	13.13	13.88	15.50	9.56	2.38	—	1.06	2.13	2.38	(1) 1"	(4) 3/4"	AMH2
A	11.00	19.75	21.00	21.00	11.00	2.75	5.13	—	4.00	3.94	(1) 2"	(6) 1"	AMH8
B	13.00	25.25	21.44	27.31	11.00	2.75	5.13	—	4.00	3.94	(1) 2"	(6) 1"	AMH8
C	13.00	30.75	20.75	32.75	11.00	2.75	5.13	2.00	4.00	3.94	(1) 3"	(8) 1"	AMH8

All dimensions are in inches. All outlets are NPT.

**Class I, Div. 1 and 2
Groups B*, C*, D
Class II, Div. 1 and 2
Groups E, F, G
Class III
NEMA 4, 4X, 7BCD, 9EFG**

APPF 480 Volt Factory Sealed Power Distribution Panelboards: Explosionproof, Dust-Ignitionproof, Watertight

120/208 and 120/240 Volts.

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, and similar electrical equipment.

Features

- Breaker operators included as standard.
- O-ring gasket insures watertight integrity.
- Stainless steel hinges are standard.
- Copper bus bars are standard.
- Quad-Lead stainless steel cover bolts are standard.
- Factory-sealed, no external seals are required for most branch circuits. All conduits must be sealed adjacent to enclosure for Class I, Div. 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† interiors.
- Chassis assembles with mains at top (bottom optional).
- Provisions for 12, 18, 24, 30, 36 and 42 circuit single pole chassis.
- 100 Amp or 225A 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:* copper-free aluminum.
- *Cover bolts:* Quad-Lead stainless steel.
- *Breaker Operators:* copper-free aluminum.
- *Hinges:* stainless steel.
- *O-Ring:* neoprene.

Standard Finish:

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

Compliances

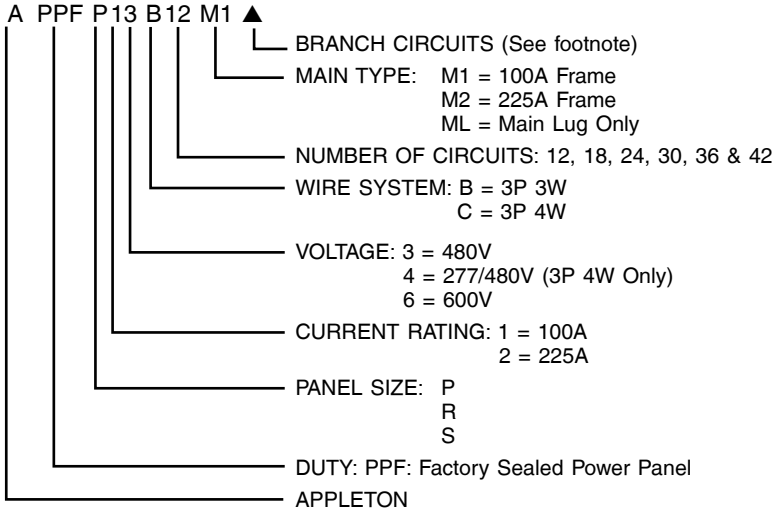
- cCSAus Approval Pending
- Zone 1 and 2 Exde IIB T6
- AExde IIB T6
- Enclosure: Exe CSA Approved
- Breaker: Passed all Certification Test

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Class I, Div. 1 and 2
Groups B*,C*,D
Class I, Zone 1 and 2
Groups IIA, IIB*+H2*
Class II, Div. 1 and 2
Groups E,F,G
Class III
NEMA 4,4X,7B*C*D,9EFG

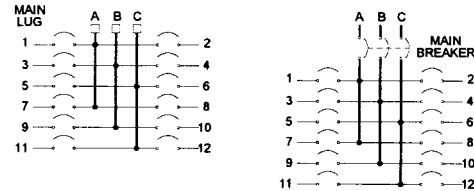
APPF 480, 600V Volt Factory Sealed Power Distribution Panelboards: Explosionproof, Dust-Ignitionproof, Watertight

SAMPLE CAT. NO.

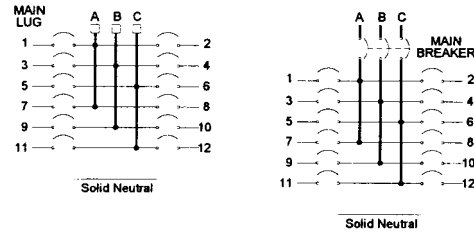


Typical Panelboard Wiring Diagram

Three Phase, 3-Wire Systems



Three-Phase, 4-Wire Systems



	No. of Circuits	480V 3 Phase 3 Wire EHD Type	277/480V 3 Phase 4 Wire EHD Type	600V 3 Phase 4 Wire FDB Type
100 Amp Main Lug Only	12	APPPF13B12ML▲	APPPF14C12ML▲	APPPF16C12ML▲
	18	APPPF13B18ML▲	APPPF14C18ML▲	APPPF16C18ML▲
	24	APPPF13B24ML▲	APPPF14C24ML▲	APPPF16C24ML▲
	30	APPPF13B30ML▲	APPPF14C30ML▲	APPPF16C30ML▲
225 Amp Main Lug Only	18	APPPF23B18ML▲	APPPF24C18ML▲	APPPF26C18ML▲
	24	APPPF23B24ML▲	APPPF24C24ML▲	APPPF26C24ML▲
	30	APPPF23B30ML▲	APPPF24C30ML▲	APPPF26C30ML▲
	36	APPPF23B36ML▲	APPPF24C36ML▲	APPPF26C36ML▲
Main Breaker 100AF	12	APPPF13B12M1▲	APPPF14C12M1▲	APPPF16C12M1▲
	18	APPPF13B18M1▲	APPPF14C18M1▲	APPPF16C18M1▲
	24	APPPF13B24M1▲	APPPF14C24M1▲	APPPF16C24M1▲
	30	APPPF13B30M1▲	APPPF14C30M1▲	APPPF16C30M1▲
Main Breaker 225AF	18	APPPF23B18M2▲	APPPF24C18M2▲	APPPF26C18M2▲
	24	APPPF23B24M2▲	APPPF24C24M2▲	APPPF26C24M2▲
	30	APPPF23B30M2▲	APPPF24C30M2▲	APPPF26C30M2▲
	36	APPPF23B36M2▲	APPPF24C36M2▲	APPPF26C36M2▲
	42	APPPF23B42M2▲	APPPF24C42M2▲	APPPF26C42M2▲

Factory Installed Options

Description	Suffix
Breather, NEMA 4X	BR
Drain, NEMA 4X	DN
External Ground Stud	EGS
Grounding Neutral Lug	GNL
Phenolic Nameplate (Specify Legend)	NP

Note: For Back Fed main, replace ML, M1, or M2 in part number with BF. For 400A Main Lug, consult factory. Standard interrupting capacity is 14,000 AIC. For higher interrupt ratings, consult factory.

▲ 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 277/480V 3 phase 4 wire 100A MLO panel with 12 single pole 20 amp and 3 two pole 30 amp branch breakers should read APPFP14C18ML-12201-03302.

* For Class I, Div. 1, Groups B and C, all conduits must be sealed WITHIN 2" of enclosure.

**Class I, Div. 2
Zone 1 and 2 Exde IIB T6
AExde IIB T6**

ZCB Circuit Breaker Panelboards: Fiberglass Reinforced Polyester Enclosures

Applications

- Protection and control of electrical apparatus and circuits in hazardous environments, either indoor or outdoor.
- For use in areas designed for Zone 1, where flammable gases or vapors are present either continuously or intermittently.
- Ideal for wet or corrosive atmospheres.
- Petroleum, chemical, refineries and other industrial facilities.

Features

- Nonmetallic corrosion-free static resistant fiberglass reinforced polyester housing.
- Polyester housing has Exe increased safety protection.
- All hardware 316 stainless steel.
- Five sizes of enclosures to choose from.
- Enclosures can be coupled together for unlimited number of breakers.
- Protective flange at top and bottom.
- Pad lockable double bar locks.
- Operating temperature -40°C to +55°C.
- Panels can be supplied with main breakers up to 225 amps.
- Individually flameproof Exd encapsulated circuit breaker enclosures.
- Uses standard North American amperages and circuit breakers.
- Each individual breaker is pad lockable.
- One (1) and two (2) pole breakers available.
- Completely wired. Easy field termination to standard terminal blocks.
- Breaker operators accessible without entry in enclosure ensuring safe use.

Standard Materials

- *Enclosure:* Static resistant carbon filled fiberglass reinforced polyester (FRP).
- *Hardware:* Stainless steel.
- *Standard Branch Breakers:* Type Cutler Hammer, QCD.
- *Breaker Enclosures:* IXEF injection mold, sealed with epoxy.



Options

- 316 stainless steel enclosure.
- Transparent polycarbonate operator cover.
- LED indicator lights.
- NEMA 4 drain/breather.
- Thermostatically controlled heater.
- Back panel mounted breakers.

Compliances

- cCSAus Approval Certified
- Certified to applicable UL Standards
- Class I, Division 2
- Zone 1 and 2 Exde IIB T6
- AExde IIB T6
- IP66

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Class I, Div. 2
Zone 1 and 2 Exde IIB T6
AExde IIB T6

ZCB Circuit Breaker Panelboards: Fiberglass Reinforced Polyester Enclosures

Single Unit

Max. Single Pole Circuits	Panel Size	Single Phase 120/240		Three Phase 120/208	
		100 amps	225 amps	100 amps	225 amps

Main Lugs Only/Polyester (operators on door)

5	A	PZ1A11L2	PZ1A12L2	PZ1A31L2	PZ1A32L2
10	B	PZ1B11L2	PZ1B12L2	PZ1B31L2	PZ1B32L2
14	C	PZ1C11L2	PZ1C12L2	PZ1C31L2	PZ1C32L2
20	D	PZ1D11L2	PZ1D12L2	PZ1D31L2	PZ1D32L2

Main Lugs Only/Stainless Steel (operators on door)

5	A	SZ1A11L2	SZ1A12L2	SZ1A31L2	SZ1A32L2
12	C	SZ1C11L2	SZ1C12L2	SZ1C31L2	SZ1C32L2
18	D	SZ1D11L2	SZ1D12L2	SZ1D31L2	SZ1D32L2

Main Lugs Only/Polyester (operators back panel mounted)

5	A	PZ1A11B2	PZ1A12B2	PZ1A31B2	PZ1A32B2
10	B	PZ1B11B2	PZ1B12B2	PZ1B31B2	PZ1B32B2
14	C	PZ1C11B2	PZ1C12B2	PZ1C31B2	PZ1C32B2
20	D	PZ1D11B2	PZ1D12B2	PZ1D31B2	PZ1D32B2

Main Lugs Only/Stainless Steel (operators back panel mounted)

5	A	SZ1A11B2	SZ1A12B2	SZ1A31B2	SZ1A32B2
12	C	SZ1C11B2	SZ1C12B2	SZ1C31B2	SZ1C32B2
18	D	SZ1D11B2	SZ1D12B2	SZ1D31B2	SZ1D32B2

Dimensions (In millimeters – Single Units Only)

Size	Width	Height	Depth
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Polyester

A	400	300	200
B	500	400	200
C	600	400	250
D	600	800	300

316 Stainless Steel

A	370	370	300
B	N/A	N/A	N/A
C	560	560	300
D	750	560	300

Double Unit

Max. Single Pole Circuits	Panel Size	Single Phase 120/240		Three Phase 120/208	
		100 amps	225 amps	100 amps	225 amps

Main Lugs Only/Polyester (operators on door)

10	A	PZ2A11L2	PZ2A12L2	PZ2A31L2	PZ2A32L2
24	B	PZ2B11L2	PZ2B12L2	PZ2B31L2	PZ2B32L2
30	C	PZ2C11L2	PZ2C12L2	PZ2C31L2	PZ2C32L2
42	D	PZ2D11L2	PZ2D12L2	PZ2D31L2	PZ2D32L2

Main Lugs Only/Stainless Steel (operators on door)

10	A	SZ2A11L2	SZ2A12L2	SZ2A31L2	SZ2A32L2
26	C	SZ2C11L2	SZ2C12L2	SZ2C31L2	SZ2C32L2
42	D	SZ2D11L2	SZ2D12L2	SZ2D31L2	SZ2D32L2

Main Lugs Only/Polyester (operators back panel mounted)

10	A	PZ2A11B2	PZ2A12B2	PZ2A31B2	PZ2A32B2
24	B	PZ2B11B2	PZ2B12B2	PZ2B31B2	PZ2B32B2
30	C	PZ2C11B2	PZ2C12B2	PZ2C31B2	PZ2C32B2
42	D	PZ2D11B2	PZ2D12B2	PZ2D31B2	PZ2D32B2

Main Lugs Only/Stainless Steel (operators back panel mounted)

10	A	SZ2A11B2	SZ2A12B2	SZ2A31B2	SZ2A32B2
26	C	SZ2C11B2	SZ2C12B2	SZ2C31B2	SZ2C32B2
42	D	SZ2D11B2	SZ2D12B2	SZ2D31B2	SZ2D32B2

Breaker Schedule and Options

Complete Catalog No. xxxxxxxx - xxxx - xxxx - xx

Step 1. 1 2 2 3

Choose basic catalog number from table on P-22.

Step 2. Breaker Schedule and Type

First digit is quantity of breakers, second and third is ampere rating and fourth is number of poles.

Example: 1152 = One (1) 15 ampere 2 pole breaker

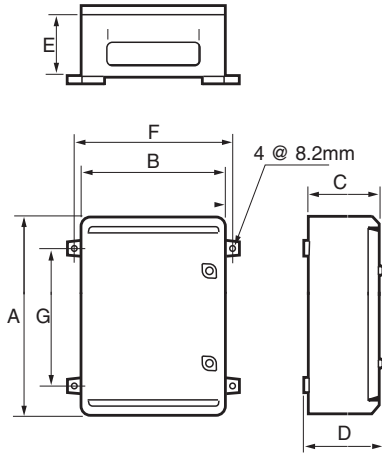
NOTE: Only 1 and 2 pole circuit breakers are available; 40 Amp trip maximum.

Step 3. Options

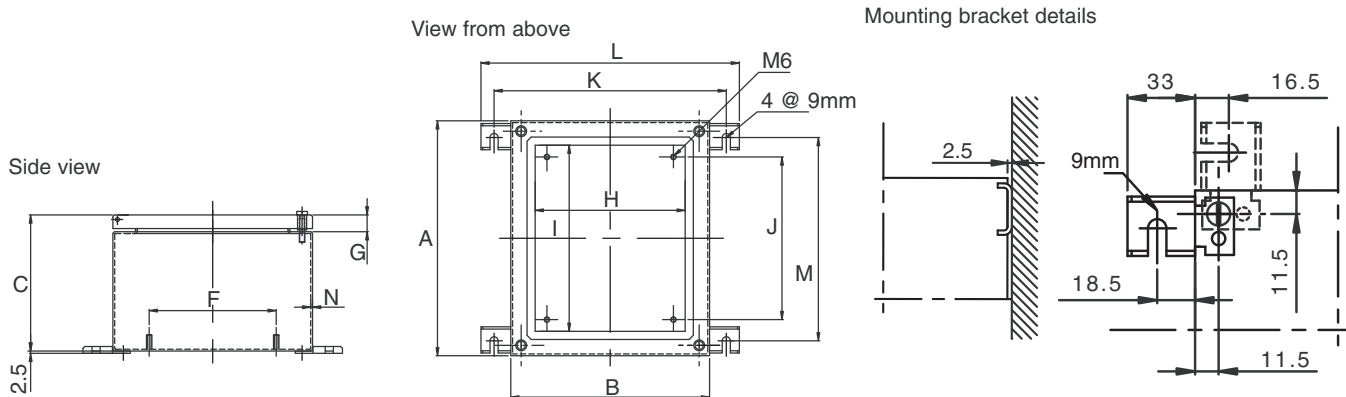
- G = Grounded neutral
- H = Heater with thermostat
- L = LED indicator lights
- C = Transparent operator cover
- R = Right hand hinge
- N = Lamicaid legend plate
- S = Stainless steel legend plate
- F = GFI relay

**Class I, Div. 2
Zone 1 and 2 Exde IIB T6
AExde IIB T6**

ZCB Circuit Breaker Panelboards: Dimensions



Panel Size	Polyester Panel Dimensions (mm)						
	A	B	C	D	E	F	G
A	405	305	200	215	180	326	336
B	500	400	200	215	180	425	465
C	600	400	250	265	230	425	566
D	828	618	300	315	280	658	768



Panel Size	Stainless Steel Panel Dimensions (mm)											
	A	B	C	F	G	H	I	J	K	L	M	N
A	370	370	300	290	18.5	316	316	290	407	436	335	2.0
C	560	560	300	480	18.5	506	506	480	597	626	525	2.0
D	750	560	300	480	18.5	506	696	670	597	626	715	2.0