

ALPN, AGPN and APPN Series Distribution Panelboards

Explosionproof, Dust-Ignitionproof, Watertight, Non-Factory Sealed

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 +H₂

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.
- 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® standard Quicklag® breakers.
- Chassis assemblies with mains at top (bottom optional).
- For standard outlets, see outline dimensions. For custom outlets, contact your local representative.
- 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®, captive, stainless steel
- Breaker operators: copperfree (4/10 of 1% max.) aluminum
- Hinges: stainless steel
- Bus bars: copper
- O-ring: neoprene

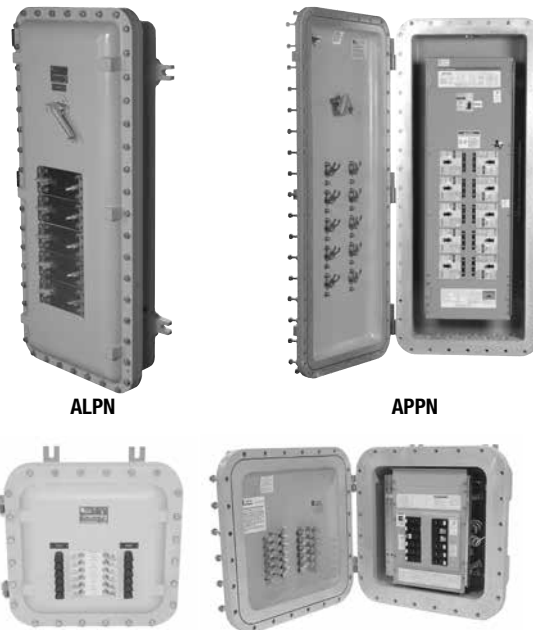
Standard Finishes

- 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, 7 and 9, add suffix —**BR**.
 - Drain, NEMA 4X, 7 and 9, add suffix —**DN**.
 - Phenolic nameplate (specify legend), add suffix —**NP**.
 - For +50 °C (+122 °F) breaker rating, add suffix —**V**.
- Main Breaker Options ALPN and APPN Only
 - Auxiliary switch (1A or 1B), add suffix —**AS1**.
 - Auxiliary switch (2A or 2B), add suffix —**AS2**.
 - Main breaker located at bottom, add suffix —**LB**.
 - Shunt trip (specify voltage), add suffix —**ST**.
 - Under voltage release (specify voltage), add suffix —**UV**.



AGPN shown with MB and INV options

- Branch Breaker Option ALPN and AGPN 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 APPN 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**.

NEC Certifications and Compliances

- UL Standard: UL 1203
- UL Classified: E84577

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

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

ALPN Series Lighting Distribution Panelboards

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Class I, Zone 1, Group IIB +H₂

NEMA 4, 4X, 7BCD, 9EFG

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 120/240 V 1-phase 3-wire 100 Amp MLO panel with 12 1-pole 20 Amp and 3 2-pole 30 Amp branch breakers should read ALPNB11A18ML100-10501GFI.

Catalog Numbering Guide

ALPN	B	1	1	A	18	MB	100	10	50	1	GFI		▲
Duty: Appleton Non-Factory Sealed Lighting Panel			Voltage: 1 - 120/240 Vac 2 - 120/208 Vac 5 - 240 Vac 7 - 24 Vdc			Main Type: MB - Main Breaker ML - Main Lug Only			Ampere Rating ①: 10 - 10AT 15 - 15AT 20 - 20AT 25 - 25AT 30 - 30AT 35 - 35AT 40 - 40AT 45 - 45AT 50 - 50AT 55 - 55AT 60 - 60AT 70 - 70AT 80 - 80AT (not for 1-Pole) 90 - 90AT (not for 1-Pole) 100 - 100AT			Additional Branch Breakers: Repeat Step ①	
Panel Size: A - 12 Circuit, 100 Amp Main Lug Only B - 18 Circuit, 100 Amp Main Lug Only C - 30 Circuit, 100 or 225 Amp Main Lug Only or 18 Circuit with Main Breaker D - 42 Circuit, 225 Amp Main Lug Only or 36 Circuit with Main Breaker F - 42 Circuit with Main Breaker			Wire System: A - 1P, 3W B - 3P, 3W for 240 Vac C - 3P, 4W D - 2P, 2W for 24 Vdc			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 175 - 175AT 200 - 200AT 225 - 225AT			No. of Poles ①: <i>(include only if different from wiring system)</i>			Suffix for Other Options/ Features: Must be listed in alphanumeric sequence <i>(See Options)</i>	
		Current Rating: 1 - 100 Amp 2 - 225 Amp			Number of Circuits: 12 18 24 30 36 42		Quantity of Branch Breakers ①: 1 thru 42			Breaker Type ①: Normal Duty (Leave Blank) EPD GFI HID			

▲ To complete the catalog number please add the appropriate suffix for other options/features. These suffixes can be found under Options.

Visit our website at www.appleton.emerson.com or contact us at (800) 621-1506.

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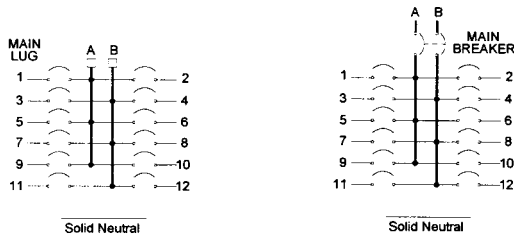
DISTRIBUTION EQUIPMENT: NEC/CEC HAZARDOUS LOCATION PANELBOARDS

	Number of Circuits	120/240V 1-Phase 3-Wire BAB Type	120/208V 3-Phase 4-Wire BAB Type	240V 3-Phase 3-Wire Delta BAB Type	Panel Size	Approximate Weight kgs (lbs)
100 Amp Main Lug Only	12	ALPNA11A12ML □	ALPNA12C12ML □	ALPNA15B12ML □	A	61.23 (135)
	18	ALPNB11A18ML □	ALPNB12C18ML □	ALPNB15B18ML □	B	74.84 (165)
	24	ALPNC11A24ML □	ALPNC12C24ML □	ALPNC15B24ML □	C	95.25 (210)
	30	ALPNC11A30ML □	ALPNC12C30ML □	ALPNC15B30ML □	C	97.52 (215)
225 Amp Main Lug Only	18	ALPNC21A18ML □	ALPNC22C18ML □	ALPNC25B18ML □	C	81.65 (180)
	24	ALPNC21A24ML □	ALPNC22C24ML □	ALPNC25B24ML □	C	104.33 (230)
	30	ALPNC21A30ML □	ALPNC22C30ML □	ALPNC25B30ML □	C	106.59 (235)
	36	ALPND21A36ML □	ALPND22C36ML □	ALPND25B36ML □	D	131.54 (290)
	42	ALPND21A42ML □	ALPND22C42ML □	ALPND25B42ML □	D	133.81 (295)
Main Breaker 100 Amp F	12	ALPNC11A12MB100 □	ALPNC12C12MB100 □	ALPNC15B12MB100 □	C	74.84 (165)
	18	ALPNC11A18MB100 □	ALPNC12C18MB100 □	ALPNC15B18MB100 □	C	81.65 (180)
	24	ALPND11A24MB100 □	ALPND12C24MB100 □	ALPND15B24MB100 □	D	95.25 (210)
	30	ALPND11A30MB100 □	ALPND12C30MB100 □	ALPND15B30MB100 □	D	142.88 (315)
Main Breaker 225 Amp F	18	ALPNC21A18MB225 □	ALPNC22C18MB225 □	ALPNC25B18MB225 □	C	83.91 (185)
	24	ALPND21A24MB225 □	ALPND22C24MB225 □	ALPND25B24MB225 □	D	133.81 (295)
	30	ALPND21A30MB225 □	ALPND22C30MB225 □	ALPND25B30MB225 □	D	136.08 (300)
	36	ALPND21A36MB225 □	ALPND22C36MB225 □	ALPND25B36MB225 □	D	138.35 (305)
	42	ALPNF21A42MB225 □	ALPNF22C42MB225 □	ALPNF25B42MB225 □	F	156.49 (345)

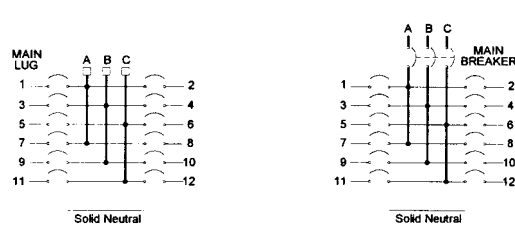
Note: For Back Fed main, replace **ML**, **MB100**, or **MB225** in part number with **BF**. For 400 Amp Main Lug, contact your local representative. Standard interrupting capacity is 10,000 AIC. For higher interrupt ratings, contact your local representative.

Typical Panelboard Wiring Diagram

1-Phase, 3-Wire Systems



3-Phase, 4-Wire Systems



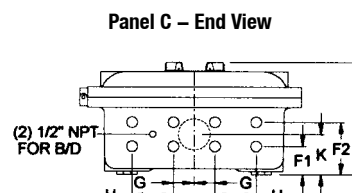
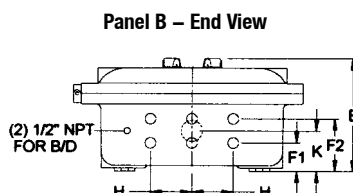
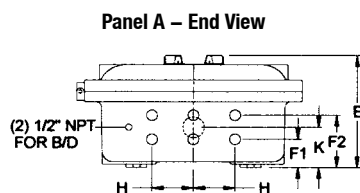
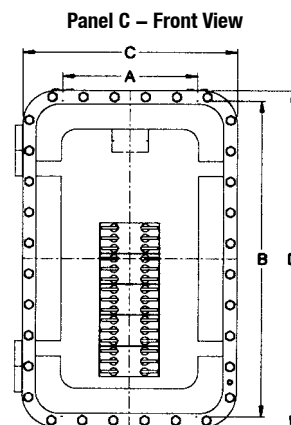
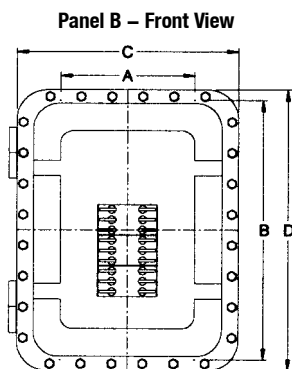
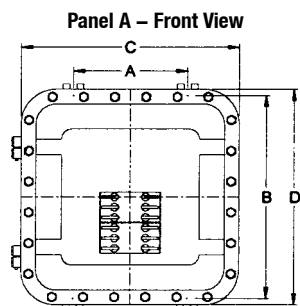
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ALPN, APPN Main Lug Panelboard and Mounting Hardware



Panel Size	Mounting Dimensions in Millimeters (Inches)										Standard Top	Outlets Bottom	Mounting Hdw. Set
	A	B	C	D	E	F1	F2	G	H	K			
A	279.4 (11.00)	501.6 (19.75)	533.4 (21.00)	533.4 (21.00)	279.4 (11.00)	69.8 (2.75)	130.3 (5.13)	—	101.6 (4.00)	100.0 (3.94)	1 - 50.8 (2.00)	6 - 25.4 (1.00)	AMH8
B	330.2 (13.00)	641.3 (25.25)	544.5 (21.44)	693.6 (27.31)	279.4 (11.00)	69.8 (2.75)	130.3 (5.13)	—	101.6 (4.00)	100.0 (3.94)	1 - 50.8 (2.00)	6 - 25.4 (1.00)	AMH8
C	330.2 (13.00)	781.0 (30.75)	527.0 (20.75)	931.8 (32.75)	279.4 (11.00)	69.8 (2.75)	130.3 (5.13)	50.8 (2.00)	101.6 (4.00)	100.0 (3.94)	1 - 50.8 (2.00)	8 - 25.4 (1.00)	AMH8

Note: All outlets are NPT.

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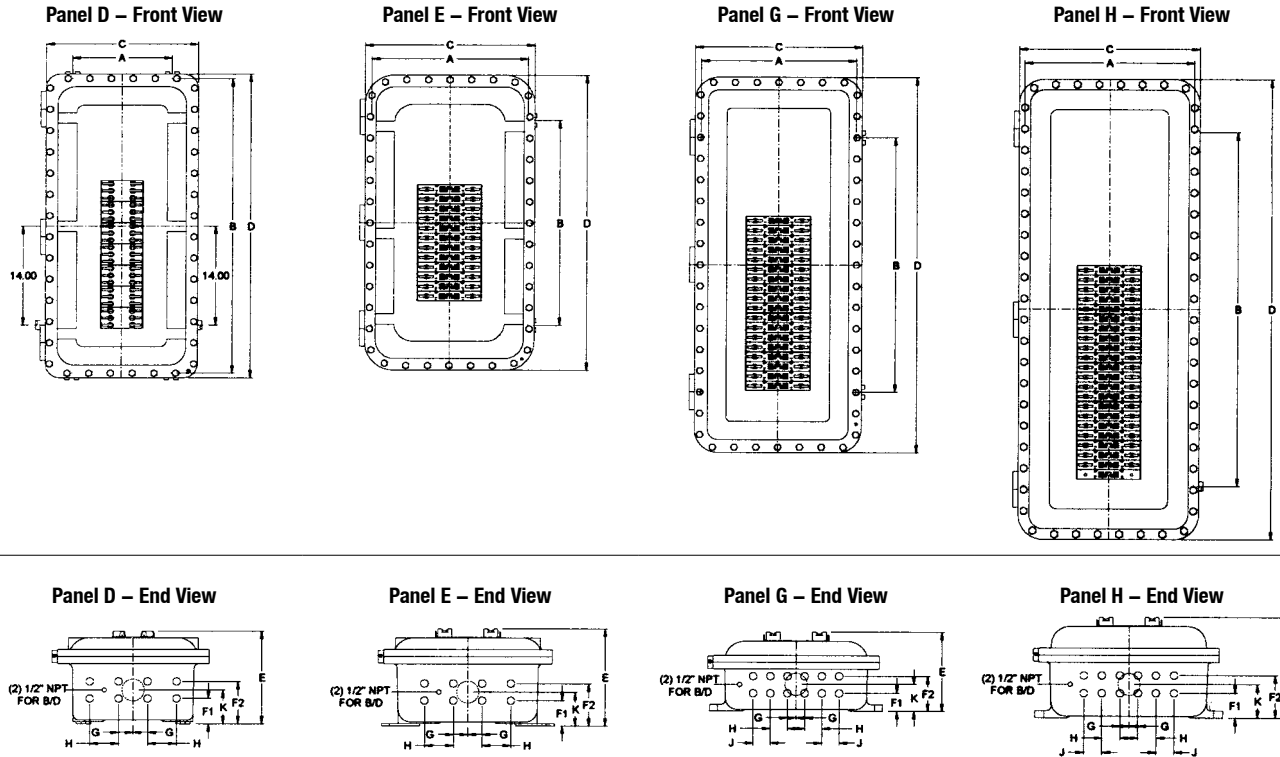
Class II, Division 1 and 2, Groups E, F, G

Class III

Class I, Zone 1, Group IIB +H₂

NEMA 4, 4X, 7BCD, 9EFG

ALPN, APPN Main Lug Panelboard and Mounting Hardware



Panel Size	Mounting Dimensions in Millimeters (Inches)											Standard Top	Outlets Bottom	Mounting Hdw. Set
	A	B	C	D	E	F1	F2	G	H	J	K			
D	349.2 (13.75)	1057.4 (41.63)	533.4 (21.00)	1090.6 (42.94)	330.2 (13.00)	90.4 (3.56)	150.8 (5.94)	50.8 (2.00)	—	101.6 (4.00)	120.6 (4.75)	1 - 76.2 (3.00)	8 - 25.4 (1.00)	AMH8
E	552.45 (21.75)	736.6 (29.00)	596.9 (23.50)	1060.4 (41.75)	346.2 (13.63)	90.4 (3.56)	150.8 (5.94)	50.8 (2.00)	—	101.6 (4.00)	120.6 (4.75)	1 - 76.2 (3.00)	8 - 25.4 (1.00)	AMH8
G	543.0 (21.38)	914.4 (36.00)	584.2 (23.00)	1346.3 (53.00)	279.4 (11.00)	63.5 (2.50)	123.9 (4.88)	30.2 (1.19)	60.4 (2.38)	60.4 (2.38)	88.9 (3.50)	1 - 76.2 (3.00)	12 - 25.4 (1.00)	AMH6
H	596.9 (23.50)	1270.0 (50.00)	635.0 (25.00)	1651.0 (65.00)	355.6 (14.00)	87.3 (3.44)	150.8 (5.94)	31.7 (1.25)	63.5 (2.50)	63.5 (2.50)	119.1 (4.69)	1 - 76.2 (3.00)	12 - 25.4 (1.00)	AMH6

Note: All outlets are NPT.

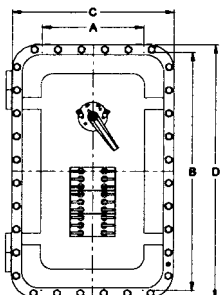
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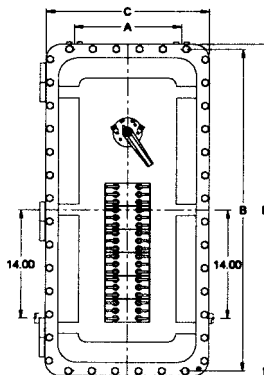
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ALPN, APPN Main Breaker Panelboard and Mounting Hardware

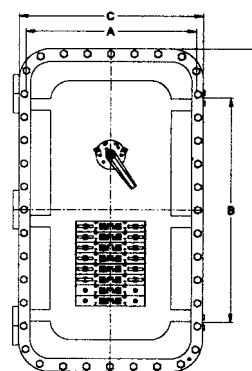
Panel C – Front View



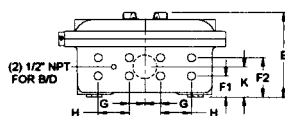
Panel D – Front View



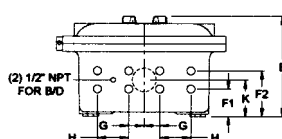
Panel E – Front View



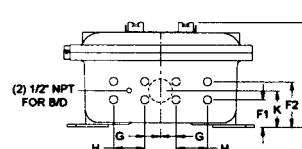
Panel C – End View



Panel D – End View



Panel E – End View



Panel Size	Mounting Dimensions in Millimeters (Inches)										Standard Top	Outlets Bottom	Mounting Hdw. Set
	A	B	C	D	E	F1	F2	G	H	K			
C	349.2 (13.75)	781.0 (30.75)	527.0 (20.75)	931.8 (32.75)	279.4 (11.00)	69.8 (2.75)	130.3 (5.13)	50.8 (2.00)	101.6 (4.00)	100.0 (3.94)	1 - 76.2 (3.00)	8 - 25.4 (1.00)	AMH8
D	349.2 (13.75)	1057.4 (41.63)	533.4 (21.00)	1090.6 (42.94)	330.2 (13.00)	90.4 (3.56)	150.8 (5.94)	50.8 (2.00)	101.6 (4.00)	120.6 (4.75)	1 - 76.2 (3.00)	8 - 25.4 (1.00)	AMH8
E	552.45 (21.75)	736.6 (29.00)	596.9 (23.50)	1060.4 (41.75)	346.2 (13.63)	90.4 (3.56)	150.8 (5.94)	50.8 (2.00)	101.6 (4.00)	120.6 (4.75)	1 - 76.2 (3.00)	8 - 25.4 (1.00)	AMH8

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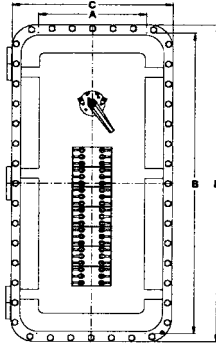
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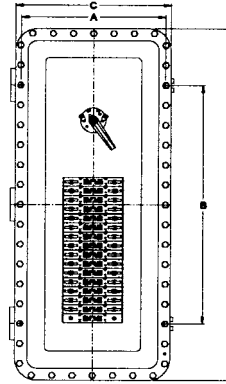
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ALPN, APPN Main Breaker Panelboard and Mounting Hardware

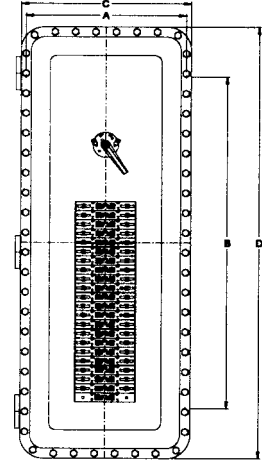
Panel F – Front View



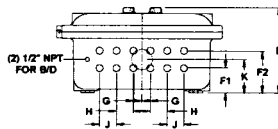
Panel G – Front View



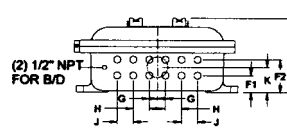
Panel H – Front View



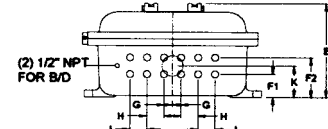
Panel F – End View



Panel G – End View



Panel H – End View



Panel Size	Mounting Dimensions in Millimeters (Inches)											Standard Top	Outlets Bottom	Mounting Hdw. Set
	A	B	C	D	E	F1	F2	G	H	J	K			
F	406.4 (16.00)	1152.6 (45.38)	603.2 (23.75)	1212.8 (47.75)	325.3 (12.81)	93.7 (3.69)	160.2 (6.31)	31.7 (1.25)	63.5 (2.50)	63.5 (2.50)	127.0 (5.00)	1 - 76.2 (3.00)	12 - 25.4 (1.00)	AMH8
G	543.0 (21.38)	914.4 (36.00)	584.2 (23.00)	1346.2 (53.00)	279.4 (11.00)	63.5 (2.50)	123.9 (4.88)	30.2 (1.19)	60.4 (2.38)	60.4 (2.38)	88.9 (3.50)	1 - 76.2 (3.00)	12 - 25.4 (1.00)	AMH6
H	596.9 (23.50)	1270.0 (50.00)	635.0 (25.00)	1651.0 (65.00)	355.6 (14.00)	87.3 (3.44)	150.8 (5.94)	31.7 (1.25)	63.5 (2.50)	63.5 (2.50)	119.1 (4.69)	1 - 76.2 (3.00)	12 - 25.4 (1.00)	AMH6

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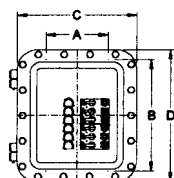
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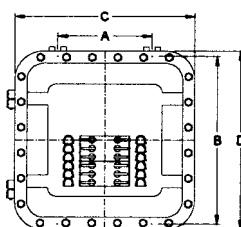
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AGPN Series Ground Fault Interrupting Distribution Panelboard and Mounting Hardware

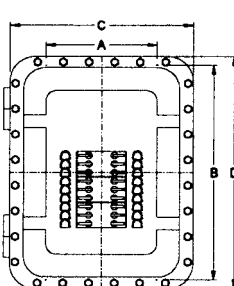
Panel AA – Front View



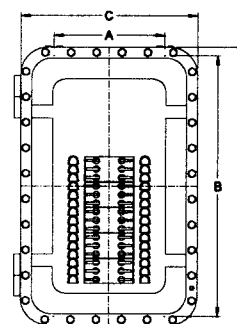
Panel A – Front View



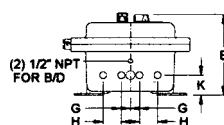
Panel B – Front View



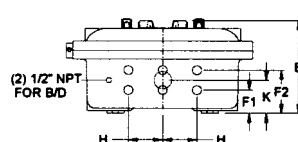
Panel C – Front View



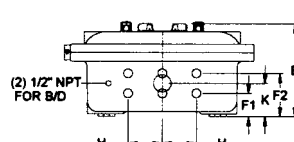
Panel AA – End View



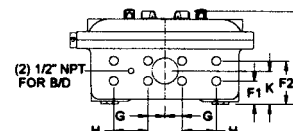
Panel A – End View



Panel B – End View



Panel C – End View



Panel Size	Mounting Dimensions in Millimeters (Inches)										Standard Top	Outlets Bottom	Mounting Hdw. Set
	A	B	C	D	E	F1	F2	G	H	K			
AA	184.1 (7.25)	333.5 (13.13)	352.5 (13.88)	393.7 (15.50)	242.8 (9.56)	60.4 (2.38)	—	26.9 (1.06)	54.1 (2.13)	60.4 (2.38)	1 - 25.4 (1.00)	4 - 19.0 (0.75)	AMH2
A	279.4 (11.00)	501.6 (19.75)	533.4 (21.00)	533.4 (21.00)	279.4 (11.00)	69.8 (2.75)	130.3 (5.13)	—	101.6 (4.00)	100.0 (3.94)	1 - 50.8 (2.00)	6 - 25.4 (1.00)	AMH8
B	330.2 (13.00)	641.3 (25.25)	544.5 (21.44)	693.6 (27.31)	279.4 (11.00)	69.8 (2.75)	130.3 (5.13)	—	101.6 (4.00)	100.0 (3.94)	1 - 50.8 (2.00)	6 - 25.4 (1.00)	AMH8
C	330.2 (13.00)	781.0 (30.75)	527.0 (20.75)	831.8 (32.75)	279.4 (11.00)	69.8 (2.75)	130.3 (5.13)	50.8 (2.00)	101.6 (4.00)	100.0 (3.94)	1 - 50.8 (2.00)	8 - 25.4 (1.00)	AMH8

Note: All outlets are NPT.