

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

DISTRIBUTION EQUIPMENT: NEC/CEC HAZARDOUS LOCATION PANELBOARDS

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**.



ALPN

APPN



AGPN shown with MB and INV options

- Branch Breaker Option ALPN and AGPN Only
 - Equipment Protection Devices (1- or 2-Pole -30 mA sensitivity) ⊕ add suffix —**EPD**.
 - Ground Fault Interrupter (1- or 2-Pole -5 mA sensitivity), ⊕ 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

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

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

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GHB Cutler-Hammer[®] Circuit Breakers

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Select GHB[®] 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 4-wire 100 A MLO panel with 12 1-pole 20 Amp and 3 2-pole 30 Amp branch breakers should read APPNB14C18ML100-12201EPD-03302.

Catalog Numbering Guide

<p>APPN</p> <p>Duty: Appleton Non-Factory Sealed Power Panel</p>	<p>B</p> <p>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</p>	<p>1</p> <p>Current Rating: 1 - 100 Amp 2 - 225 Amp</p>	<p>4</p> <p>Voltage: 4 - 277/480 (3P 4W Only) 7 - 24 Vdc 8 - 125/250 Vdc</p>	<p>C</p> <p>Wire System: C - 3P, 4W D - 2P, 2W for 24 Vdc</p>	<p>18</p> <p>Number of Circuits: 12 18 24 30 36 42</p>	<p>ML</p> <p>Main Type: MB - Main Breaker ML - Main Lug Only</p>	<p>100</p> <p>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</p>	<p>12</p> <p>Quantity of Branch Breakers ①: 1 thru 42</p>	<p>20</p> <p>Ampere Rating ①: 15 - 15AT 20 - 20AT 25 - 25AT 30 - 30AT 35 - 35AT 40 - 40AT 45 - 45AT 50 - 50AT 55 - 55AT 60 - 60AT 70 - 70AT 80 - 80AT 90 - 90AT 100 - 100AT</p>	<p>1</p> <p>No. of Poles ②: (include only if different from wiring system)</p>	<p>EPD</p> <p>Breaker Type ①: Normal Duty (Leave Blank) EPD ①</p>	<p>—</p> <p>Additional Branch Breakers: Repeat Step ①</p>	<p>▲</p> <p>Suffix for Other Options/ Features: Must be listed in alphanumeric sequence (See Options)</p>
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① EPD Single Phase (requires 2-Poles) 277 Vac, 30 mA.

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

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GHB Cutler-Hammer [†] Circuit Breakers

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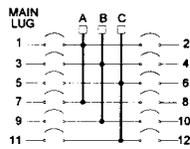
NEMA 4, 4X, 7BCD, 9EFG

	Number of Circuits	277/480 V 3-Phase 4-Wire GHB Type	Panel Size	Approximate Weight kgs (lbs)
100 Amp Main Lug Only	12	APPNA14C12ML [‡]	A	61.23 (135)
	18	APPNB14C18ML [‡]	B	74.84 (165)
	24	APPNC14C24ML [‡]	C	95.25 (210)
	30	APPNC14C30ML [‡]	C	97.52 (215)
225 Amp Main Lug Only	18	APPNC24C18ML [‡]	C	81.65 (180)
	24	APPNC24C24ML [‡]	C	104.33 (230)
	30	APPNC24C30ML [‡]	C	106.59 (235)
	36	APPND24C36ML [‡]	D	131.54 (290)
	42	APPND24C42ML [‡]	D	133.81 (295)
Main Breaker 100 Amp F	12	APPNC14C12MB100 [‡]	C	74.84 (165)
	18	APPNC14C18MB100 [‡]	C	81.65 (180)
	24	APPND14C24MB100 [‡]	D	95.25 (210)
	30	APPND14C30MB100 [‡]	D	142.88 (315)
Main Breaker 225 Amp F	18	APPNC24C18MB225 [‡]	C	83.91 (185)
	24	APPND24C24MB225 [‡]	D	133.81 (295)
	30	APPND24C30MB225 [‡]	D	136.08 (300)
	36	APPND24C36MB225 [‡]	D	138.35 (305)
	42	APPNF24C42MB225 [‡]	F	156.49 (345)

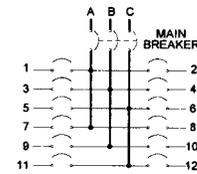
Note: For Back Fed main, replace **ML**, **MB100**, or **MB225** in part number with **BF**. For 400 Amp Main Lug, contact your local representative. Standard interrupting capacity is 14,000 AIC. For higher interrupt ratings, contact your local representative.

Typical Panelboard Wiring Diagram

3-Phase, 4-Wire Systems



Solid Neutral



Solid Neutral

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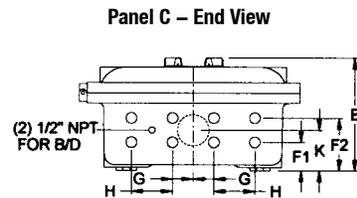
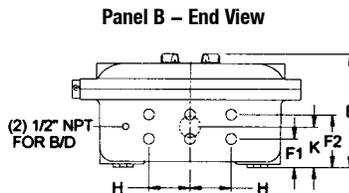
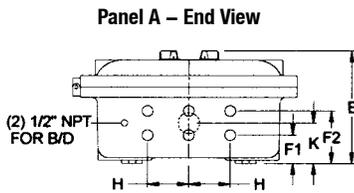
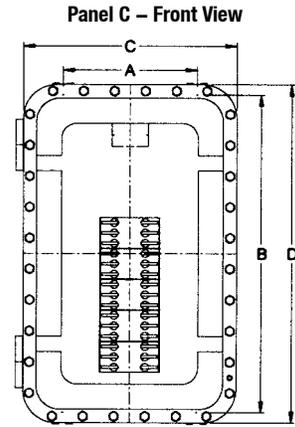
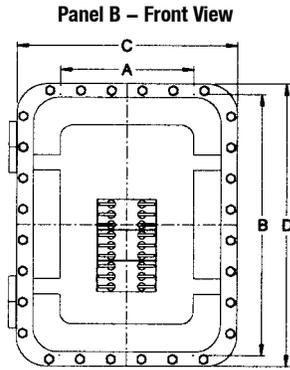
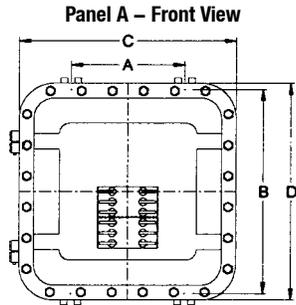
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ALPN, APPN Main Lug Panelboard and Mounting Hardware



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.