

# Lighting and Power Distribution Panelboards

The design offers sufficient gutter space on sides to allow through wiring and easy lug connection. All enclosures are furnished with hinges, stainless steel quad lead cover bolts and are provided with Nema 4 gasketing. All covers are removable for clear access to breakers and gutter space. The compact design of rectangular housings permits close grouping on switch racks and other structures. No additional space is required for cover removal except from the front.

## STANDARD FEATURES

### ENCLOSURE

- Copper-free cast aluminum alloy
- Housings are Adalet XCE series and have precision ground cover and body joints.

### MECHANICAL

- Front mounted power panel and lighting panel branch breaker handles can be padlocked either in "off" or "on" position
- All breaker handles are spring loaded allowing closing of the cover with breaker toggle in any position
- Operating handle shafts have "V" ring gaskets for watertight application

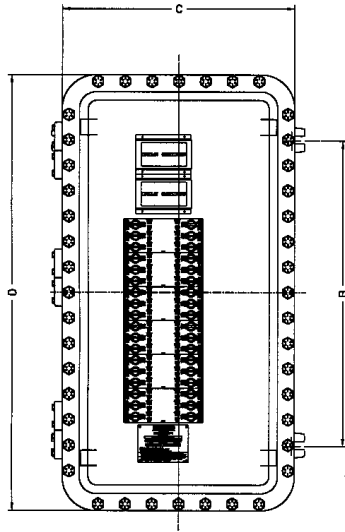
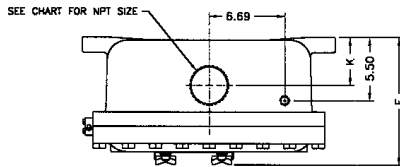
### ELECTRICAL

- In general, Adalet lighting and power distribution panels are designed with Cutler Hammer chassis copper buss with ground and isolated neutral bars.
- All branch breakers and operating handles are "optional adders".

## CERTIFICATIONS

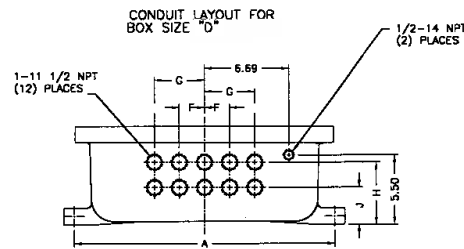
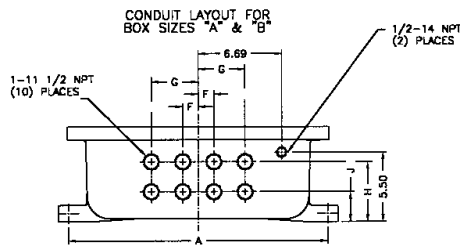
Class I, Div.1, Groups B, C, D  
 Class II, Div. 2 Groups F & G  
 Class III  
 NEMA Type 4, 7, 9 w/SS cover bolts)(w/N4 suffix)  
 UL1203  
 CSA C22.2 No. 25 & 30  
 UL 50





### CONDUIT ENTRIES

Box Size	Conduit Entries (NPT)			
	1/2"	1"	2"	3"
A	Top	(1)	—	(1)
	Side	—	(2)	—
	Bottom	(1)	(8)	—
B	Top	(1)	—	(1)
	Side	—	(2)	—
	Bottom	(1)	(8)	—
D	Top	(1)	—	(1)
	Side	—	(2)	—
	Bottom	(1)	(10)	—



### NOMINAL DIMENSIONS

Box Size	Box Inside Dimensions			Mtg. Width (A)	Mtg. Height (B)	Overall Cover (C)	Overall Hole (D)	Overall Each (E)	Mtg. Bolt Size
	W	L	D						
A	16	16	6	19 3/4	11	20 7/8	20 7/8	11	5/8
B	16	24	6	19 3/4	18 3/8	20 7/8	28 7/8	11 1/2	5/8
D	16	34	6	19 3/4	27	20 1/2	38 1/2	10 3/4	5/8

### NOMINAL DIMENSIONS

Box Size	F	G	H	J	K	L	M	N	Weight (lbs.)
A	1 1/4	3 3/4	4 3/4	2 3/8	3 3/8	1	3 1/2	2 1/2	160
B	1 1/4	3 3/4	4 3/4	2 3/8	3 3/8	3	5	2 1/2	220
D	2	4	4 15/16	2 15/16	4 3/8	8	11	2 1/2	285

# Lighting Panelboards

## STANDARD FEATURES

- Explosionproof circuit breaker lighting panelboards use cast aluminum alloy housings with hinged cover
- External operating handles can be padlocked in “on” or “off” position
- Incorporates Cutler-Hammer bolt-on breakers @ 240 volt max.
- Top feed standard

## HOW TO ORDER

1. Specify catalog number and voltage.
2. Number of operator handles, single pole, two pole and three pole as required.
3. Circuit breakers, number of poles and ampere rating.
4. Unused spaces will be plugged. Top feed standard.

### BACK FED MAIN BREAKER PANELBOARDS

120/240 Volt, 1 phase 3 wire, solid neutral, Chassis without branch breakers or operating handles, 10,000 Ampere interrupting capacity (sym.).

BACK FED MAIN BREAKER PANELBOARDS			
Number of Available Poles	Catalog Number	Main Breaker Included	Box Size
10	XPB1-121 B1	100 Amp	A
22	XPB1-241 B1	100 Amp	B

### BACK FED MAIN BREAKER PANELBOARDS

120/208 Volt, 3 phase 4 wire, solid neutral, Chassis without branch breakers or operating handles, 10,000 Ampere interrupting capacity (sym.).

BACK FED MAIN BREAKER PANELBOARDS			
Number of Available Poles	Catalog Number	Main Breaker Included	Box Size
9	XPB1-123 B1	100 Amp	A
21	XPB1-243 B1	100 Amp	B

### MAIN LUG ONLY PANELBOARDS

1 Phase 3 wire 120/240 volt top feed main lug only, Chassis without branch breakers or operating handles, 10,000 Ampere interrupting capacity (sym).

MAIN LUG ONLY PANELBOARDS			
Number of Poles	Catalog Number	Main Lug Amperes	Box Size
12	XPB1-121L1	100	A
24	XPB1-241L1	100	B
24	XPB1-241L2	225	B
30	XPB1-301L2	225	D
36	XPB1-361L2	225	D

### MAIN LUG ONLY PANELBOARDS

3 Phase 4 wire 120/208 volt top feed main lug only, Chassis without branch breakers or operating handles, 10,000 Ampere interrupting capacity (sym).

MAIN LUG ONLY PANELBOARDS			
Number of Poles	Catalog Number	Main Lug Amperes	Box Size
12	XPB1-123L1	100	A
24	XPB1-243L1	100	B
24	XPB1-243L2	225	B
30	XPB1-303L2	225	D
36	XPB1-363L2	225	D

# Lighting Panelboards Modifications and Options

## CIRCUIT BREAKER OPERATOR HANDLES

- Installed in XPB1 panel boards

Catalog #	Operator Description	Weight (lbs.)
XPB1-H1	For single pole BAB breakers	¼ lb.
XPB1-H2	For two pole BAB breakers	¼ lb.
XPB1-H3	For three pole BAB breakers	¼ lb.
XPB1-GL	For single pole GFI breaker left	¼ lb.
XPB1-GR	For single pole GFI breaker right	¼ lb.
XPB1-GR2	For two pole GFI breaker right	¼ lb.
XPB1-GL2	For two pole GFI breaker left	¼ lb.

### Optional Features - Modifications:

Suffix Letter	Description
E	Breather Drain (not type 4)
EE	Breather and drain (not type 4)
L1	Epoxy Coating Outside
L2	Epoxy Coating Inside/Outside

## BRANCH CIRCUIT BREAKERS

- Installed in XPB1 panel boards
- Bolt-on thermal magnetic breakers 120/240 volt 10,000 ampere I.C.

Catalog #	Operator Description
XPB1-1*	1 pole breaker (available in 10-70 amp)
XPB1-2*	2 pole breaker (available in 10-100 amp)
XPB1-3*	3 pole breaker (available in 10-100 amp)

\*Add ampere rating of the branch breaker when ordering.

## GROUND FAULT CIRCUIT PROTECTORS

- 120/240 Volt 10,000 Ampere I.C. Std., 22,000 Ampere I.C. Optional
- Available with special application Bell Alarm or Auxiliary Switch.

Catalog #	Operator Description
XPB1-1GFCl*	1 pole GFCI Breaker 5 MA Sensitivity
XPB1-2GFCl*	2 pole GFCI Breaker 5 MA Sensitivity
XPB1-1GFEPD*	1 pole GFCI Breaker 30 MA Sensitivity
XPB1-2GFEPD*	2 pole GFCI Breaker 30 MA Sensitivity

\*Add ampere rating of the branch breaker when ordering

## BOLT-ON SWITCHING NEUTRAL BREAKERS

- 120/240 Volt 10,000 Ampere I.C.

Catalog #	Operator Description
XPB1-N1*	1 pole switching to neutral. Requires two spaces (available in 15-30 amp)
XPB1-N2*	2 pole switching to neutral. Requires three spaces (available in 15-30 amp)

\*Add ampere rating of the branch breaker when ordering

## Power Distribution Panelboards

### STANDARD FEATURES

- Explosionproof circuit breaker power panelboards use cast aluminum alloy housings with hinged cover
- External operating handles can be padlocked in “on” or “off” positions
- Incorporates Cutler-Hammer bolt-on breakers @ 480 volt max.
- Top feed standard

### CERTIFICATIONS

Class I, Groups B, C, D  
 Class II, Groups F & G  
 Class III  
 NEMA Type 4, 7, 9  
 UL1203  
 CSA C22.2 No. 25 & 30  
 UL 50



### BACK FED MAIN BREAKER PANELBOARDS

277/480 Volt, 3 phase 4 wire, solid neutral, Chassis without branch breakers or operating handles, 10,000 Ampere interrupting capacity (sym.).

#### BACK FED MAIN BREAKER PANELBOARDS

Number of Available Poles	Catalog Number	Main Breaker Included	Box Size
9	XPB2-123B1	100 Amp	A
21	XPB2-243B1	100 Amp	B

### HOW TO ORDER

1. Specify catalog number and voltage.
2. Number of operator handles, single pole, two pole and three pole as required.
3. Circuit breakers, number of poles and ampere rating.
4. Unused spaces will be plugged. Top feed standard.

### MAIN LUG ONLY PANELBOARDS

277/480 Volt, 3 phase 4 wire, Chassis without branch breakers or operating handles, 10,000 Amperes interrupting capacity (sym).

#### MAIN LUG ONLY PANELBOARDS

Number of Poles	Catalog Number	Main Lug Amperes	Box Size
12	XPB2-123L1	100	A
24	XPB2-243L1	100	B
24	XPB2-243L2	225	B
30	XPB2-303L2	225	D
36	XPB2-363L2	225	D

### HOW TO ORDER

1. Specify catalog number, operator handles and circuit breakers as separate items.
2. Single pole breakers use 1 handle space, 1 handle. 2 pole, 2 spaces, 1 handle. 3 pole, 3 spaces, 1 handle.
3. 100 ampere main lugs conductor size #12 -1/0 CU/AL. 225 ampere main lugs conductor size #6-300 MCM CU/AL.
4. Unused spaces will be plugged. Top feed standard.

# Power Distribution Panelboards Modifications and Options

## CIRCUIT BREAKER OPERATOR HANDLES

- Installed in XPB2 panelboards

Catalog #	Operator Description	Weight (lbs.)
XPB2-H1	For 1, 2 or 3-pole GHB breaker	¼ lb.

## BRANCH CIRCUIT BREAKERS

- Installed in XPB2 panel boards
- Bolt-on thermal magnetic breakers

Catalog #	Operator Description
XPB2-1*	1 pole GHB breaker (available in 15-100 amp) 277 volt A.C.
XPB2-2*	2 pole GHB breaker (available in 15-100 amp) 480 volt A.C.
XPB2-3*	3 pole GHB breaker (available in 15-100 amp) 480 volt A.C.

\*Add ampere rating of the branch breaker when ordering.

### Optional Features - Modifications:

Suffix Letter	Description
E	Breather Drain (not type 4)
EE	Breather and drain (not type 4)
L1	Epoxy Coating Outside
L2	Epoxy Coating Inside/Outside