

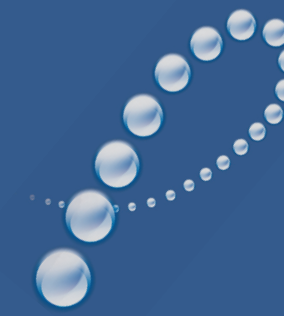
**EATON**

**Cutler-Hammer**

**Mini-Power Centres  
Dry-Type Transformers**

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Printed in Canada  
B-36F.02.S.K  
March 2008 SG

**EATON** | **Cutler-Hammer**



# Mini-Power Centres

## Dry-Type Transformers



**Significant Savings in Cost and Space ... Plus Quicker Installation**

*Three Individual Components Combined Into a Single Unit*

Contemporary electrical distribution systems are required to do more in less space, while at the same time being cost-effective.

Eaton provides a solution to these requirements with the proven Mini-Power Centre. It occupies considerably less space and can save up to 31 percent of the installation costs normally required when individual components are used.

The solution is possible because a Mini-Power Centre combines three individual components into one NEMA Type 3R enclosure: a main breaker, an encapsulated Type EP or EPT Dry-Type Transformer, and a secondary distribution loadcenter with main breaker. Interconnecting wiring is completed at the factory.

### Available in two designs:

- Original model with aluminum-wound transformer and aluminum chassis for plug-on breakers.
- New model with copper-wound transformer and copper chassis for bolt-on breakers.

A Mini-Power Centre is delivered ready for installation. It's suitable for use as service entrance equipment, too.

### Ratings

- Single-Phase: 3, 5, 7.5, 10, 15, and 25 kVA.
- Three-Phase: 15, 22.5, and 30 kVA.

### A Wide Variety of Proven Applications

- Mini-Power Centres are used wherever there is a 480V or 600V distribution system and loads requiring 208Y/120V, three-phase or 120/240V, single-phase. Typical installations include:
- Industrial plant assembly lines.
  - Plant expansions.
  - Test equipment.
  - Temporary power at construction sites.
  - Sewage disposal plants.
  - Warehouses.
  - Car washes.
  - Parking lots.
  - Commercial buildings.

### Easy to Install

- A variety of concentric knockouts on the sides and bottom.
- Wiring compartment includes ample space for conduit entry.
- Maximum wiring gutter space is provided for ease of wiring in compliance with NEC/CEC requirements.
- Simplified design includes two keyholes for easy mounting and leveling.

### Compare the Installation Cost Savings – 31 Percent Less

Because we knew that putting three components in one enclosure dramatically cuts installation time, we asked an electrical contractor to estimate the job two ways:

- Using a separate breaker, transformer, and loadcenter, including the connecting cable and hardware.
- Using a Mini-Power Centre.

### Here are the Estimates:

Installation	15 kVA		25 kVA	
	Three-Component System	Mini-Power Centre	Three-Component System	Mini-Power Centre
Switch and Fuse Layout	4	0	4	0
Switch and Fuse Mount	1	0	1	0
Transformer Layout, Remove Knockout, etc.	16	16	24	24
Transformer Fastened to Wall	4	0	4	0
Loadcenter Layout, Mount and Connect Source	4	4	6	4
<b>Total Hours</b>	<b>29</b>	<b>20</b>	<b>39</b>	<b>28</b>

**% Time Saved with Cutler-Hammer Mini-Power Centre**

**31% Savings**

**28% Savings**

Time estimates are typical and will vary by geographical area.

## Mini-Power Centre Components- Aluminum

### Circuit Breakers

- Primary and secondary main breakers are Cutler-Hammer Type EHD or FDB. (See table below.)
- Feeder circuits can be easily added to Cutler-Hammer Type BR Breakers 10 kAIC. (Feeder breakers not included.)
- For higher interrupting capacity, 18, 25, 35kAIC primary main breakers are available through special order <sup>①</sup>

### Safety

- All live parts are enclosed for personnel safety and equipment protection.
- Hinged cover prevents removal and can be padlocked.
- Grounding terminal provided on the enclosure.

### Loadcentre

- Space for up to 24 feeder breakers.
- Standard aluminum chassis.
- Standard ground bar is provided for grounding of individual secondary circuits.
- Neutral bar grounded to the enclosure.
- Main breaker barrier in compliance with CSA. For Service Entrance rating.

### Enclosures

- Standard NEMA Type 3R indoor/outdoor heavy gauge steel enclosure with a rugged baked-polymer polyester powder coating.
- Optional NEMA Type 3R, 316 grade stainless steel.

### Transformer

- Electrical grade aluminum windings standard.
- 185°C insulation system.
- 115°C winding temperature rise.
- Resin-encapsulated, core-coil assembly.
- Cores are grounded with a copper lead.

### Standards

- Meets applicable ANSI, NEMA, IEEE, CEC and UL standards.
- UL listed, CSA certified. Suitable for Service Entrance Equipment.
- Manufactured and assembled in ISO 9002 certified facilities.

<sup>①</sup> For higher interrupting capacity primary main breaker order as follows (factory installed)  
 18kAIC FD Main Breaker add Suffix "D" to cat. #  
 25kAIC HFD Main Breaker add Suffix "H" to cat. #  
 35kAIC FDC Main Breaker and Suffix add "C" to cat. #

## Catalogue Number Information

### Mini-Power Centres - Aluminum Chassis: Plug-on Breakers

kVA	Catalogue Number	Full Capacity Taps FCBN	Dimensions <sup>①</sup> – Inches (mm)			Weight Lbs. (kg)	Frame	Main Circuit Breaker <sup>②</sup>		Feeder Breakers <sup>③④</sup> Max. Number			Max. Amp
			Height	Width	Depth			Primary	Secondary	1-Pole	2-Pole	3-Pole	
<b>Single-Phase</b>													
<b>480 Volts to 120/240 Volts</b>													
3	P48G11S03P	2-5%	27.5 (698)	11.9 (301)	8.9 (225)	105 (47)	283	EHD2015	BR215	8	4	N/A	12
5	P48G11S05P	2-5%	29.5 (749)	11.9 (301)	8.9 (225)	105 (47)	284	EHD2020	BR225	12	6	N/A	20
7.5	P48G11S07P	2-5%	29.5 (749)	11.9 (301)	8.9 (225)	125 (56)	284	EHD2030	BR230	12	6	N/A	30
10	P48G11S10P	2-5%	32.5 (825)	13.1 (331)	11.6 (295)	177 (80)	285	EHD2040	BR250	12	6	N/A	40
15	P48G11S15P	2-5%	37.5 (952)	13.1 (331)	11.6 (295)	212 (96)	286	EHD2060	BR270	20	10	N/A	60
25	P48G11S25P	2-5%	43.4 (1102)	15.9 (403)	14.5 (368)	373 (169)	287	EHD2100	BR2125	26	13	N/A	100
<b>600 Volts to 120/240 Volts</b>													
5	P60G11S05P	2-5%	29.5 (749)	11.9 (301)	8.9 (225)	105 (47)	284	FDB2015	BR225	12	6	N/A	20
7.5	P60G11S07P	2-5%	29.5 (749)	11.9 (301)	8.9 (225)	125 (56)	284	FDB2030	BR230	12	6	N/A	30
10	P60G11S10P	2-5%	32.5 (825)	13.1 (331)	11.6 (295)	177 (80)	285	FDB2040	BR250	12	6	N/A	40
15	P60G11S15P	2-5%	37.5 (952)	13.1 (331)	11.6 (295)	212 (96)	286	FDB2060	BR270	20	10	N/A	60
25	P60G11S25P	2-5%	43.4 (1102)	15.9 (403)	14.5 (368)	373 (169)	287	FDB2100	BR2125	26	13	N/A	100
<b>Three-Phase</b>													
<b>480 Volts to 208Y/120 Volts</b>													
15	P48G28T15P	2-5%	36.1 (916)	28.8 (730)	9.4 (238)	320 (145)	289	EHD3040	BR350	18	9	6	40
22.5	P48G28T21P	2-5%	40.9 (1038)	29.9 (759)	13.6 (346)	565 (256)	290	EHD3070	BR370	18	9	6	60
30	P48G28T30P	2-5%	41.9 (1063)	29.9 (759)	13.6 (346)	635 (288)	291	EHD3090	BR3100	24	12	8	80
<b>600 Volts to 208Y/120 Volts</b>													
15	P60G28T15P	2-5%	36.1 (916)	28.8 (730)	9.4 (238)	320 (145)	289	FDB3030	BR350	18	9	6	40
22.5	P60G28T21P	2-5%	40.9 (1038)	29.9 (759)	13.6 (346)	565 (256)	290	FDB3050	BR370	18	9	6	60
30	P60G28T30P	2-5%	41.9 (1063)	29.9 (759)	13.6 (346)	635 (288)	291	FDB3070	BR3100	24	12	8	80

<sup>①</sup> Not for construction purposes.

<sup>②</sup> Main breakers fixed only. No substitutes.

<sup>③</sup> Combinations can be selected.

<sup>④</sup> Feeder breakers not included. Use Cutler-Hammer Type BR.



## Mini-Power Centre Components - Copper

### Circuit Breakers

- Primary and secondary main breakers are Cutler-Hammer Type EHD or FDB. (See table below.)
- Feeder circuits can be easily added using Cutler-Hammer Type BAB Breakers 10 kAIC. (Feeder breakers not included.)

### Safety

- All live parts are enclosed for personnel safety and equipment protection.
- Hinged cover prevents removal and can be padlocked.
- Grounding terminal provided on the enclosure.

### Loadcentre

- Space for up to 24 feeder breakers.
- Premium copper chassis.
- Standard ground bar is provided for grounding of individual secondary circuits.
- Neutral bar grounded to the enclosure.
- Main breaker barrier in compliance with CSA. For Service Entrance rating.

### Enclosures

- Standard NEMA Type 3R indoor/outdoor heavy gauge steel enclosure with a rugged baked-polymer polyester powder coating.
- Optional NEMA Type 3R, 316 grade stainless steel.

### Transformer

- Electrical grade copper windings standard
- 185°C insulation system.
- 115°C winding temperature rise.
- Sand and resin-encapsulated, core-coil assembly.
- Cores are grounded with a copper lead.

### Standards

- Meets applicable ANSI, NEMA, IEEE and UL standards.
- UL listed, CSA certified. Suitable for Service Entrance Equipment.

## Catalogue Number Information

### All Copper Mini-Power Centres - Bolt-on Breakers

kVA	Catalogue Number	Full Capacity Taps FCBN	Dimensions <sup>①</sup> – Inches (mm)			Weight Lbs. (kg)	Frame	Main Circuit Breaker <sup>②</sup>		Feeder Breakers <sup>③④</sup> Max. Number			Max. Amp
			Height	Width	Depth			Primary	Secondary	1-Pole	2-Pole	3-Pole	
<b>Single-Phase</b>													
<b>480 Volts to 120/240 Volts</b>													
3	P48G11S03CUB	2-5%	33.2 (845)	12.6 (319)	9.7 (245)	105 (47)	306	EHD2015L	BAB215	12	6	N/A	12
5	P48G11S05CUB	2-5%	36.1 (918)	12.6 (319)	9.7 (245)	110 (50)	307	EHD2020L	BAB225	18	9	N/A	20
7.5	P48G11S07CUB	2-5%	36.1 (918)	12.6 (319)	9.7 (245)	110 (50)	307	EHD2030L	BAB230	18	9	N/A	30
10	P48G11S10CUB	2-5%	40.9 (1038)	13.5 (342)	11.8 (300)	180 (82)	308	EHD2040L	BAB250	18	9	N/A	40
15	P48G11S15CUB	2-5%	43.9 (1115)	15 (380)	11.8 (300)	215 (98)	309	EHD2060L	BAB270	24	12	N/A	60
25	P48G11S25CUB	2-5%	43.4 (1102)	20.4 (518)	14.6 (370)	385 (175)	310	EHD2100L	BAB2125	30	15	N/A	100
<b>600 Volts to 120/240 Volts</b>													
3	P60G11S03CUB	2-5%	33.2 (845)	12.6 (319)	9.7 (245)	105 (47)	306	FDB2015L	BAB2015	12	6	N/A	12
5	P60G11S05CUB	2-5%	36.1 (918)	12.6 (319)	9.7 (245)	110 (50)	307	FDB2020L	BAB225	18	9	N/A	20
7.5	P60G11S07CUB	2-5%	36.1 (918)	12.6 (319)	9.7 (245)	110 (50)	307	FDB2030L	BAB230	18	9	N/A	30
10	P60G11S10CUB	2-5%	40.9 (1038)	13.5 (342)	11.8 (300)	180 (82)	308	FDB2040L	BAB250	18	9	N/A	40
15	P60G11S15CUB	2-5%	43.9 (1115)	15 (380)	11.8 (300)	215 (98)	309	FDB2060L	BAB270	24	12	N/A	60
25	P60G11S25CUB	2-5%	43.4 (1102)	20.4 (518)	14.6 (370)	385 (175)	310	FDB2100L	BAB2125	30	15	N/A	100
<b>Three-Phase</b>													
<b>480 Volts to 208Y/120 Volts</b>													
15	P48G28T15CUB	2-5%	36.1 (916)	28.7 (730)	9.4 (238)	320 (148)	289A	EHD3040L	BAB350H	18	9	6	40
22.5	P48G28T21CUB	2-5%	40.9 (1038)	29.9 (759)	13.6 (346)	565 (257)	290A	EHD3070L	BAB370H	18	9	6	60
30	P48G28T30CUB	2-5%	41.9 (1063)	29.9 (759)	13.6 (346)	635 (288)	291A	EHD3090L	BAB3100H	24	12	8	80
<b>600 Volts to 208Y/120 Volts</b>													
15	P60G28T15CUB	2-5%	36.1 (916)	28.7 (730)	9.4 (238)	320 (148)	289A	FDB3030	BAB350H	18	9	6	40
22.5	P60G28T21CUB	2-5%	40.9 (1038)	29.9 (759)	13.6 (346)	565 (257)	290A	FDB3050	BAB370H	18	9	6	60
30	P60G28T30CUB	2-5%	41.9 (1063)	29.9 (759)	13.6 (346)	635 (288)	291A	FDB3070	BAB3100H	24	12	8	80

<sup>①</sup> Not for construction purposes.

<sup>②</sup> Main breakers fixed only. No substitutes.

<sup>③</sup> Combinations can be selected.

<sup>④</sup> Feeder breakers not included. Use Cutler-Hammer Type BAB.

**Contact Eaton Sales or Customer Support for price and delivery at 1-800-268-3578.**