Dry-type transformers
Mini–power centers

Less is more. . .

Powering Business Worldwide

Exclusive 3-in-1 design

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 center. 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 center combines three individual components into one NEMA® Type 3R enclosure: a main breaker, an encapsulated single-phase or three-phase dry-type transformer, and a secondary distribution loadcenter with main breaker. Interconnecting wiring is completed at the factory.

A mini–power center is delivered ready for installation. It's also suitable for use as service entrance equipment.

Ratings

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

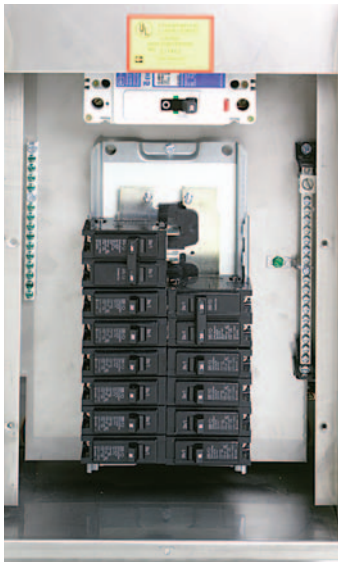
A wide variety of proven applications

Mini–power centers 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
- Irrigation systems

Easy to install

- A variety of concentric knock-outs 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® requirements
- Simplified design includes two keyholes for easy mounting and leveling






Mini–power center components

Circuit breakers

- Primary and secondary main breakers are Eaton's Type EHD or FDB (see catalog number information on pages 4 and 5)
- Aluminum chassis mini–power centers are available with optional primary main circuit breakers having greater AIC ratings (see table below right)
- Feeder circuits can be easily added
- For aluminum chassis loadcenters, Eaton's Type BR plug-in feeder breakers (10 kAIC) are used
- For copper chassis loadcenters, Eaton's Type BAB bolt-on feeder breakers (10 kAIC) are used
- Feeder breakers are not included and are purchased separately

Loadcenter

- Aluminum chassis standard for plug-in Type BR feeder breakers
- Copper chassis available for bolt-on Type BAB feeder breakers
- Space for up to 24 feeder breakers
- Ground bar is provided as standard for grounding of individual secondary circuits
- Neutral bar is grounded to the enclosure

Transformer

- Electrical grade aluminum windings are standard with plug-in loadcenter chassis
- Electrical grade copper windings are standard with bolt-on loadcenter chassis; plug-in chassis are optional with copper windings
- 185°C insulation system
- 115°C winding temperature rise
- Sand and resin encapsulated core-coil assembly
- Cores are grounded with a copper lead

Safety

- All live parts are enclosed for personnel safety and equipment protection
- Padlockable hinged front cover prevents removal of breakers
- Grounding terminal provided on the enclosure
- Provision to add padlock kit #PLK1 to lock primary main breaker ON/OFF

Enclosures

- Standard NEMA 3R indoor/outdoor heavy-gauge steel enclosure with a rugged baked-polymer polyester powder coat
- ANSI 61 gray color
- Optional NEMA 3R, grade 316 stainless steel

Standards

- UL® listed and CSA® certified
- UL listed as service entrance equipment
- Meets applicable ANSI, NEMA, IEEE® and UL standards

Compare the space savings… 30 inches instead of 72 inches! Specify the mini–power center

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 center

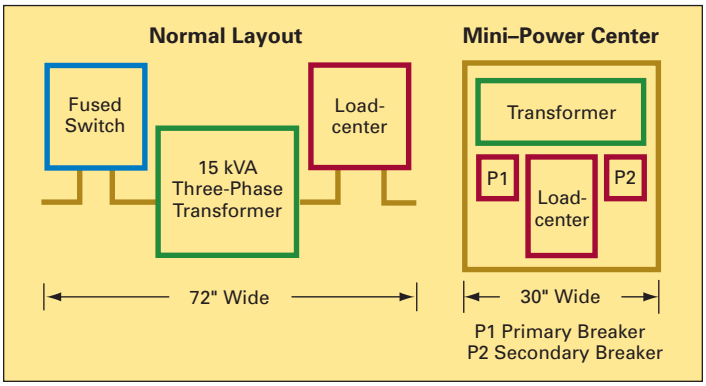
Here are the estimates:

Installation	15 kVA		25 kVA	
	Three-Component System	Mini–Power Center	Three-Component System	Mini–Power Center
	Hours [1]			
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
Total hours	29	20	39	28
% time saved with Eaton's mini–power center	31% savings		28% savings	

[1] Time estimates are typical and will vary by geographical area.

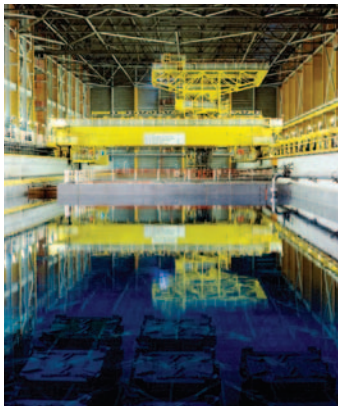
Optional primary main circuit breakers for plug-in chassis

Primary Main Breaker	480V kAIC	600V kAIC
EHD/FDB	14/14	–/14
FD	25	18
HFD	65	25
FDC	100	35



Product selection

Mini–power centers, and other dry-type transformers, are stocked by Eaton distributors. They are supported by regional distribution centers that maintain extensive inventories of virtually every dry-type transformer. For the distributor nearest you, call toll free 1-800-525-2000.



Catalog number information

Plug-In Mini–Power Center (Aluminum-Wound Transformer and Loadcenter Chassis Standard)

			Dimensions in Inches (mm) [1]			Weight		Main Circuit Breaker [2]		Feeder Breakers Max. Number [4][5]		
kVA	Style Number	Full Capacity Taps FCBN	Height	Width	Depth	Lbs (kg)	Frame	Primary [3]	Secondary	Single-Pole	Two-Pole	Max. Amp
Single-Phase												
480V to 120/240V												
3	**P48G11S03P**	2 at –5%	27.50 (698.5)	11.90 (302.3)	8.90 (226.1)	105 (47)	283	EHD2015	BR215	8	4	12
5	**P48G11S05P**	2 at –5%	29.50 (749.3)	11.90 (302.3)	8.90 (226.1)	105 (47)	284	EHD2020	BR225	12	6	20
7.5	**P48G11S07P**	2 at –5%	29.50 (749.3)	11.90 (302.3)	8.90 (226.1)	125 (56)	284	EHD2030	BR230	12	6	30
10	**P48G11S10P**	2 at –5%	32.50 (825.5)	13.10 (332.7)	11.60 (294.6)	177 (80)	285	EHD2040	BR250	12	6	40
15	**P48G11S15P**	2 at –5%	37.50 (952.5)	13.10 (332.7)	11.60 (294.6)	212 (96)	286	EHD2060	BR270	20	10	60
25	**P48G11S25P**	2 at –5%	43.40 (1102.4)	15.90 (403.9)	14.50 (368.3)	373 (169)	287	EHD2100	BR2125	26	13	100
600V to 120/240V												
5	**P60G11S05P**	2 at –5%	29.50 (749.5)	11.90 (302.3)	8.90 (226.1)	105 (47)	284	FDB2015	BR225	12	6	20
7.5	**P60G11S07P**	2 at –5%	29.50 (749.5)	11.90 (302.3)	8.90 (226.1)	125 (56)	284	FDB2030	BR230	12	6	30
10	**P60G11S10P**	2 at –5%	32.50 (825.5)	13.10 (332.7)	11.60 (294.6)	177 (80)	285	FDB2040	BR250	12	6	40
15	**P60G11S15P**	2 at –5%	37.50 (952.5)	13.10 (332.7)	11.60 (294.6)	212 (96)	286	FDB2060	BR270	20	10	60
25	**P60G11S25P**	2 at –5%	43.40 (1102.4)	15.90 (403.9)	14.50 (368.3)	373 (169)	287	FDB2100	BR2125	26	13	100
Three-Phase												
480V to 208Y/120V												
15	**P48G28T15P**	2 at –5%	36.10 (916.9)	28.80 (731.5)	9.40 (238.8)	320 (145)	289	EHD3040	EHD3050	18	9	40
22.5	**P48G28T21P**	2 at –5%	40.90 (1038.9)	29.90 (759.5)	13.60 (345.4)	565 (256)	290	EHD3070	EHD3070	18	9	60
30	**P48G28T30P**	2 at –5%	41.90 (1064.3)	29.90 (759.5)	13.60 (345.4)	635 (288)	291	EHD3090	EHD3100	24	12	80
600V to 208Y/120V												
15	**P60G28T15P**	2 at –5%	36.10 (916.9)	28.80 (731.5)	9.40 (238.8)	320 (145)	289	FDB3030	EHD3050	18	9	40
22.5	**P60G28T21P**	2 at –5%	40.90 (1038.9)	29.90 (759.5)	13.60 (345.4)	565 (256)	290	FDB3050	EHD3070	18	9	60
30	**P60G28T30P**	2 at –5%	41.90 (1064.3)	29.90 (759.5)	13.60 (345.4)	635 (288)	291	FDB3070	EHD3100	24	12	80

[1] Not for construction purposes.

[2] Secondary main breakers fixed only. No substitutes for ampere rating.

[3] Optional AIC rated main breakers available. See table on page 3.

[4] Combinations can be selected.

[5] Feeder breakers not included. Use Eaton's Type BR family.




Catalog number information

Bolt-On Mini–Power Center (Copper-Wound Transformer and Loadcenter Chassis Standard)

kVA	Style Number	Full Capacity Taps FCBN	Dimensions in Inches (mm) 1 Height	Width	Depth	Weight Lbs (kg)	Frame	Main Circuit Breaker 2 Primary 3	Secondary	Feeder Breakers Max. Number 4 5 Single-Pole	Two-Pole	Three-Pole	Max. Amp
Single-Phase													
480V to 120/240V													
3	**P48G11S03CUB**	2 at –5%	33.25 (844.6)	12.56 (319.0)	9.66 (245.4)	105 (47)	306	EHD2015	BAB2015	12	6	—	12
5	**P48G11S05CUB**	2 at –5%	36.14 (918.0)	12.56 (319.0)	9.66 (245.4)	110 (50)	307	EHD2020	BAB2025	18	9	—	20
7.5	**P48G11S07CUB**	2 at –5%	36.14 (918.0)	12.56 (319.0)	9.66 (245.4)	110 (50)	307	EHD2030	BAB2030	18	9	—	30
10	**P48G11S10CUB**	2 at –5%	40.85 (1037.6)	13.47 (342.1)	11.82 (300.2)	180 (82)	308	EHD2040	BAB2050	18	9	—	40
15	**P48G11S15CUB**	2 at –5%	43.91 (1115.3)	14.97 (380.2)	11.82 (300.2)	215 (98)	309	EHD2060	BAB2070	24	12	—	60
25	**P48G11S25CUB**	2 at –5%	43.37 (1101.6)	20.41 (518.4)	14.58 (370.3)	385 (175)	310	EHD2100 5	BAB212	30	15	—	100
600V to 120/240V													
3	**P60G11S03CUB**	2 at –5%	33.25 (844.6)	12.56 (319.0)	9.66 (245.4)	105 (47)	306	FDB2015	BAB2015	12	6	—	12
5	**P60G11S05CUB**	2 at –5%	36.14 (918.0)	12.56 (319.0)	9.66 (245.4)	110 (50)	307	FDB2020	BAB2025	18	9	—	20
7.5	**P60G11S07CUB**	2 at –5%	36.14 (918.0)	12.56 (319.0)	9.66 (245.4)	110 (50)	307	FDB2030	BAB2030	18	9	—	30
10	**P60G11S10CUB**	2 at –5%	40.85 (1037.6)	13.47 (342.1)	11.82 (300.2)	180 (82)	308	FDB2040	BAB2050	18	9	—	60
15	**P60G11S15CUB**	2 at –5%	43.91 (1115.3)	14.97 (380.2)	11.82 (300.2)	215 (98)	309	FDB2060	BAB2070	24	12	—	60
25	**P60G11S25CUB**	2 at –5%	43.37 (1101.6)	20.41 (518.4)	14.58 (370.3)	373 (169)	310	FDB2100	BAB2125	30	15	—	100
Three-Phase													
480V to 208Y/120V													
15	**P48G28T15CUB**	2 at –5%	36.12 (917.4)	28.75 (730.3)	9.38 (238.3)	320 (145)	289A	EHD3040	BAB3050H	18	9	6	40
22.5	**P48G28T21CUB**	2 at –5%	40.88 (1038.4)	29.88 (759.0)	13.63 (346.2)	565 (257)	290A	EHD3070	BAB3070H	18	9	6	60
30	**P48G28T30CUB**	2 at –5%	41.88 (1063.8)	29.88 (759.0)	13.63 (346.2)	635 (288)	291A	EHD3090	BAB3100H	24	12	8	80
600V to 208Y/120V													
15	**P60G28T15CUB**	2 at –5%	36.12 (917.4)	28.75 (730.3)	9.38 (238.3)	320 (145)	289A	FDB3030	BAB3050H	18	9	6	40
22.5	**P60G28T21CUB**	2 at –5%	40.88 (1038.4)	29.88 (759.0)	13.63 (346.2)	565 (257)	290A	FDB3050	BAB3070H	18	9	6	60
30	**P60G28T30CUB**	2 at –5%	41.88 (1063.8)	29.88 (759.0)	13.63 (346.2)	635 (288)	291A	FDB3070	BAB3100H	24	12	8	80

1 Not for construction purposes.

2 Main breakers fixed only. No substitutes for ampere rating.

3 Optional AIC rated main breakers available. See table on page 3.

4 Combinations can be selected.

5 Feeder breakers not included. Use Eaton's Type BAB family.

Eaton is dedicated to ensuring that reliable, efficient and safe power is available when it's needed most. With unparalleled knowledge of electrical power management across industries, experts at Eaton deliver customized, integrated solutions to solve our customers' most critical challenges.

Our focus is on delivering the right solution for the application. But, decision makers demand more than just innovative products. They turn to Eaton for an unwavering commitment to personal support that makes customer success a top priority. For more information, **visit www.eaton.com/electrical.**

Eaton Corporation
Electrical Sector
1111 Superior Ave.
Cleveland, OH 44114
United States
877-ETN-CARE (877-386-2273)
Eaton.com

Printed in USA
Publication No. BR00904003E / Z11729
November 2011