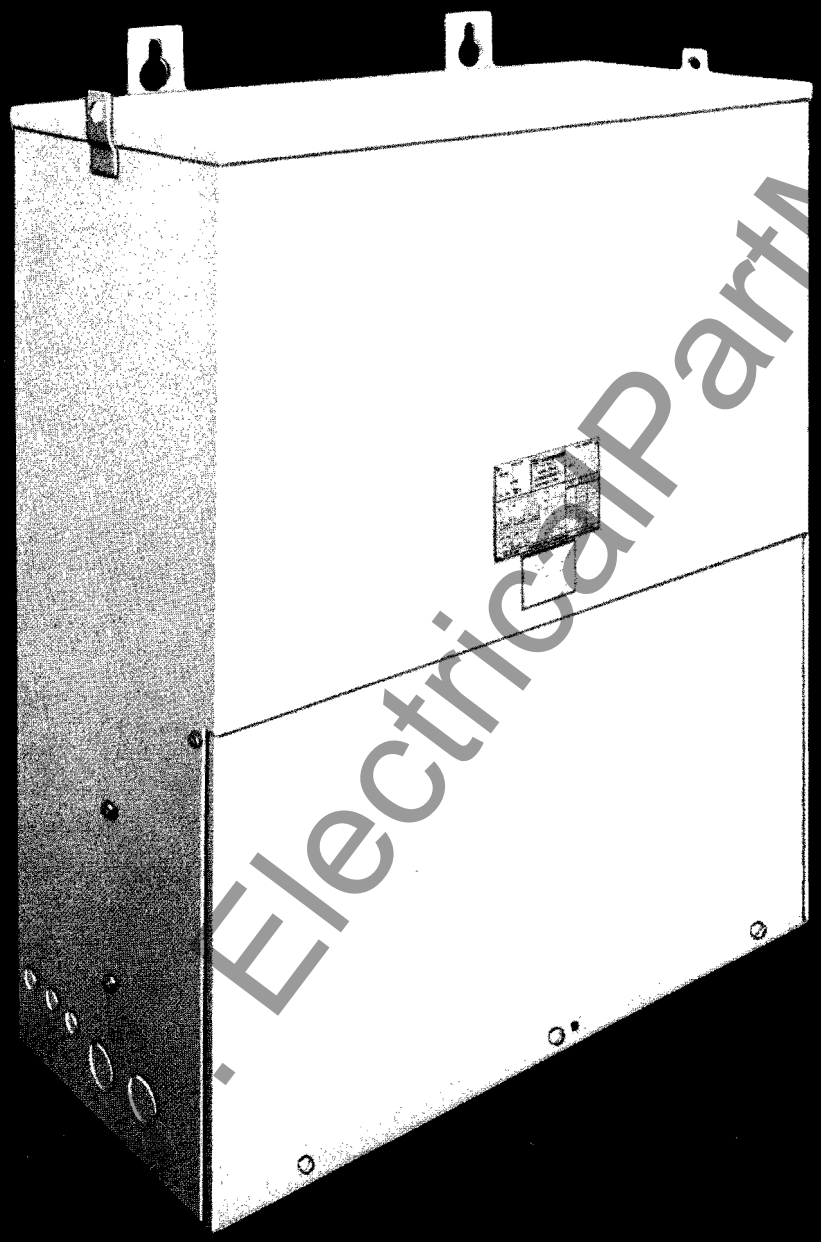
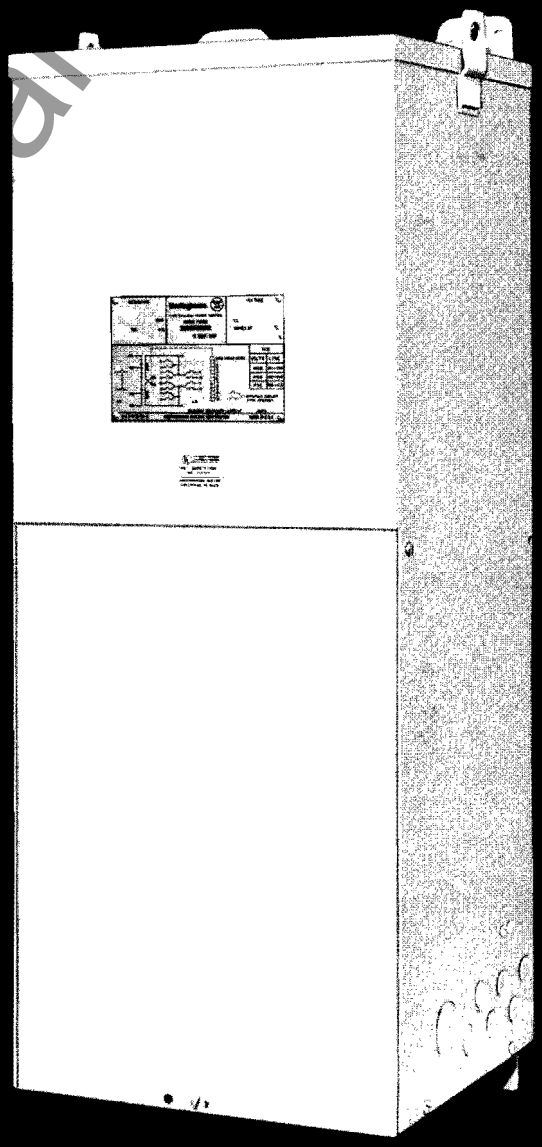
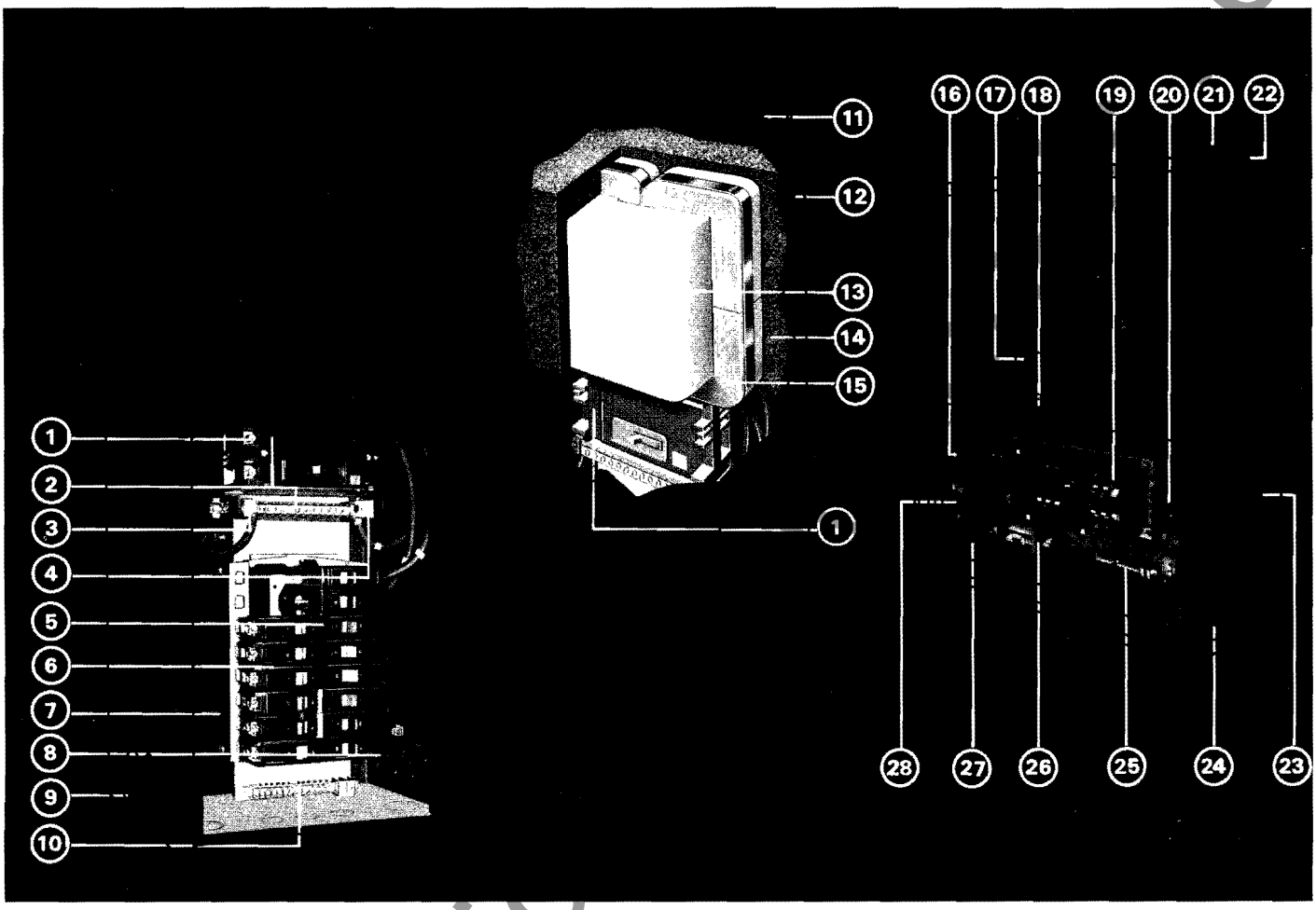
Indoor-Outdoor Mini-Power Centers UL Listed







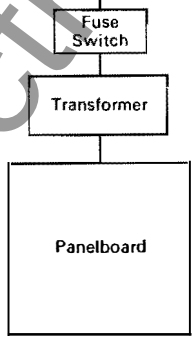
Description
The Westinghouse Mini-Power Center combines an EP or EPT dry-type transformer with primary and secondary breakers in a single panelboard-type unit.

Listed by Underwriters' Laboratories, the Mini-Power Center employs a 115°C Rise insulation system.

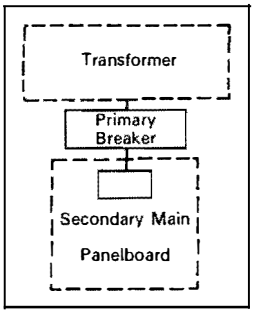
The Mini-Power Center is available in ratings of 5, 10, 15 and 25 Kva, single phase, and 15, 22½ and 30 Kva three phase offering a full range of units to meet your exact needs. By combining various transformer and breaker combinations, the electrical system designer can tailor the unit to his application.

Single unit installation
The Mini-Power Center replaces three components—transformer, primary breaker, and panelboard—by combining them in a single installation. **Saves you up to 31%** of installation costs. Saves on layout, the time and expense of interconnecting conduit and cable, fittings, mounting hardware, wiring and mounting time.

Normal Layout



Mini-Power Center



Features
(1) **Primary Breaker:** Each Mini-Power Center transformer is protected against overloads and short circuit currents by an EHB breaker. In addition, the breaker may also serve as a disconnect for the entire unit.

(2) **Neutral Bar:** Contains large individual lugs to permit rapid wiring.

(3) **Service Ground Connector:** Neutral terminal for the secondary grounding conductor.

(4) **Lay-in Lug:** Position on neutral bar to which transformer X2 X3 leads are connected.

(5) **Secondary Main Breaker:** Type BR, 2 pole breaker factory prewired. Provides protection for panelboard section.

(6) **Secondary Breakers:** (Not Supplied) For 1 pole, select Westinghouse Quicklag P, 1 pole or Bryant BR, 1 pole. For 2 pole, Westinghouse Quicklag P, 2 pole or Bryant BR, 2 pole.

(7) **Gutter Space:** Wide and deep gutter space speeds wiring.

(8) **Equipment Ground Terminal:** Terminal attaches to the enclosure to permit the entire Mini-Power Center to be grounded.

(9) **Knockouts:** Easy access knockouts.

(10) **Grounding Bar:** Provides the means for terminating an equipment grounding conductor in each of the secondary circuits.

(11) **Mounting Brackets:** Can be mounted in any position.

(12) **Steel Case:** Meets NEMA 3R enclosure and UL standard 891.

(13) **Coil:** Interleaved primary and secondary coils.

(14) **Embedding Compound:** Epoxy resin and sand encapsulation.

(15) **Hypersil Core:** Hypersil type C core.

(16) **Secondary Main Breaker:** Three phase, three pole thermal-magnetic breaker provides protection for the transformer and serves as a disconnect for the panelboard section; (Breaker location differs on 15 Kva and 22½ Kva models).

(17) **Diagrammatic Nameplate:** Depicts transformer connections.

(18) **Underwriters' Label.**

(19) **Secondary Feeder Breakers:** (Not included.) Provisions for single phase Westinghouse Quicklag P, 1 pole or Bryant BR, 1 pole and for three phase Westinghouse Quicklag P, 3 pole or Bryant BR and QP, 3 pole.

(20) **Primary Main Breaker:** An EHB, 3 pole breaker provides source protection against overloads and short circuit currents. In addition, the breaker may also serve as a disconnect for the entire Mini-Power Center.

(21) **Mounting Brackets:** For surface mounting in a conventional wall mounting position (terminal compartment on the bottom).

(22) **Lifting Lugs:** Located for ease of handling and positioning of the transformer when mounting.

(23) **Steel Case:** Meets NEMA 3R enclosure requirements and UL standard 891. Finish coat—light grey ASA 61A.

(24) **Knockouts:** Available on both sides and bottom of the enclosure and sized to be compatible with the rating.

(25) **Grounding Bar:** Provides the means for terminating an equipment grounding conductor in each of the secondary circuits.

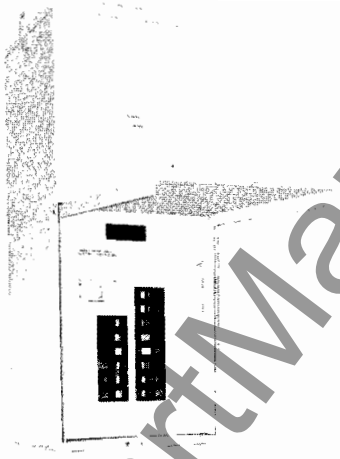
(26) **Neutral Bar:** Contains large individual lugs to permit rapid wiring.

(27) **Gutter Space:** Ample wiring space for ease of connection.

(28) **Equipment Ground Terminal:** Terminal for grounding the entire Mini-Power Center.

Safe, Reliable Transformer
The transformer in the Mini-Power Center features core and coils completely sealed against the environment, allowing wide latitude in locating the unit. Heat is removed by conduction, eliminating the need for airflow considerations.

An epoxy resin-and-sand insulation, baked and hardened into a protective shield around the core and coil, seals the transformer from moisture, dust, explosive or corrosive fumes. Operation is extra-reliable, for continuous service, and extremely quiet. Below NEMA-ANSI sound levels.



Run 120-volt branch circuits right where you need them
The Mini-Power Center can take up to 20-120 volt circuits or 10-240 volt circuits. (25 Kva only.)

Mount it anywhere
Smaller than three-component assemblies, the Mini-Power Center can be surface-mounted in any position in a wide variety of locations—**saves space, too.** And the potted transformer inside lets you put the unit in virtually any atmospheric or temperature environment.

Where to Use the Mini-Power Center
The Westinghouse single phase Mini-Power Center is designed for use wherever 120 or 240 volt branch circuits are taken from a 480 volt line. Some typical examples, where the Mini-Power Center is currently in use:

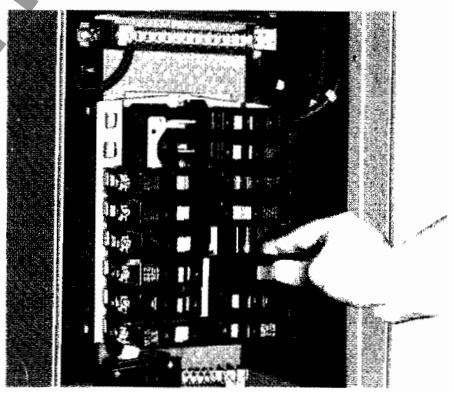
- Warehouses
- Workbenches
- Test benches
- Small machines, small motors
- Car washes
- Professional buildings
- Assembly lines, to power soldering guns
- Portable emergency power center for temporary jobs
- Sewage disposal plants
- Parking lots

In addition, the unit is ideal for location where circuit requirements may change or expand—in factories, workshops, warehouses, businesses and doctors' offices, professional buildings.

The Mini-Power Center allows designers of industrial distribution systems a new flexibility. Tap in 120 volt circuits from a 480 volt bus . . . right at the station where they're needed. Ends the "spider web" of long lines in your plant—and eliminates the attendant line losses.

Plug-In Breakers
For locations where branch-circuit needs change, Mini-Power Centers give the advantage of plug-in secondary breakers.

The breaker section accommodates snap in / snap out one-inch breakers. After installation, circuits can be added on or changed by simply taking off a line and snapping in the appropriate breaker.



Standard breakers have an interrupting capacity of 10,000 amps.

Mini-Power Centers are shipped with primary and secondary main breaker allowing the user or his local distributor to add the secondary breaker combination suited to the application.

Special Design Features:

- UL listed.
- Primary Main Breaker.
- Secondary Main Breaker.
- All live parts enclosed for personnel safety and equipment protection.
- Indoor-outdoor.
- Cover is hinged to prevent removal and can be padlocked.
- Cores are positively grounded. A copper lead is secured to the core and is attached to a terminal on the case.
- A ground bar is supplied to permit grounding of individual secondary circuits.
- Neutral bar is grounded to case.
- A grounding terminal is provided on the case for easy grounding of the entire Mini-Power Center.
- For ease of installation, circuits can be added on or changed by simply taking off a line and snapping in the appropriate breaker.

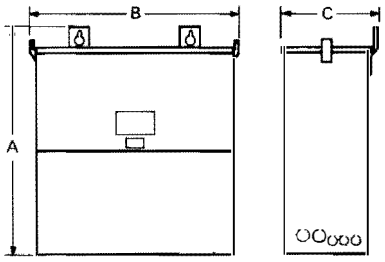
Additional Information
For further information, contact your local Westinghouse distributor or the Dry Type Distribution Transformer Division. Standard discounts, terms and conditions of sale are contained in Selling Policy 46-700 and Price List 46-720.

Single Phase, 60 Hertz, 480 Volts Primary with two 5% FCBN Taps to 120/240 Volts Secondary①

Kva	Catalog Number	Frame Number	Approximate Dimension in Inches A	B	C	Net Wt. Lbs.	Number of Circuits② 120 Volt	240 Volt	Primary Main Breaker Catalog Number	Primary Main Breaker Rating	Secondary Main Breaker Catalog Number	Secondary Main Breaker Rating	Maximum Rating of Secondary Breakers
5	P48G11S05M	224	22½	9⅝	8⅞	95	4	2	EHB 2020	20A	BR 225	25A	20 Amps
10	P48G11S10M	225	34	12⅜	11⅞	167	8	4	EHB 2040	40A	BR 250	50A	40 Amps
15	P48G11S15M	226	34	12⅜	11⅞	202	12	6	EHB 2060	60A	BR 270	70A	60 Amps
25	P48G11S25M	227	41½	15⅝	14⅝	358	20	10	EHB 2100	100A	BR 2125	125A	100 Amps

① For detailed dimensions, by frame number, refer to Technical Certification Section 46-870, page 37. ② Combinations can be selected.

3 Phase Mini-Power Center③



Primary and Secondary Main Breakers

Kva	Primary Main Breaker Catalog Number	Primary Main Breaker Rating	Secondary Main Breaker Catalog Number	Secondary Main Breaker Rating	Maximum Rating of Secondary Feeder Breakers④
15	EHB 3040	40 Amps	BR 350	50 Amps	40 Amps
22½	EHB 3070	70 Amps	QP 3070	70 Amps	60 Amps
30	EHB 3090	90 Amps	EHB 3100	100 Amps	80 Amps

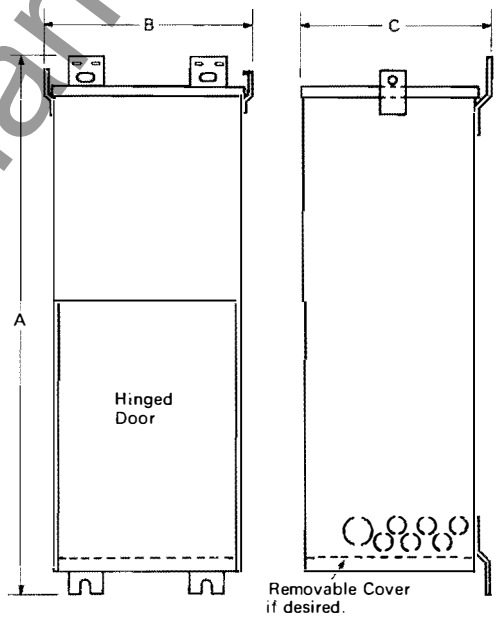
④ Plug-in type breaker not supplied by Greenville Transformer Division—Refer to Westinghouse distributor.

Three Phase, 60 Hertz, 480 Volts Delta Primary with two 5% FCBN Taps to 208WYE/120 Volts Secondary

Kva	Catalog Number	Frame Number	Approximate Dimension in Inches A	B	C	Maximum Number of Circuits② Available at: 120 Volts Single phase 1 Pole	208 Volts Three phase 3 Pole	Weight Lbs.
15	P48G28T15M	229	31 1/16	25¾	9⅜	12	4	310
22½	P48G28T21M	230	35 13/16	29 13/16	13⅜	18	6	555
30	P48G28T30M	233	36 13/16	29 13/16	13⅜	24	8	625

② Combinations can be selected. ③ For detailed dimensions refer to TCS 46-770, page 24.

Dimensions in Inches



Here's how the Westinghouse Mini-Power Center can save you up to 31% of installation costs.

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:

- First, using separate breaker, transformer and panelboard, including connecting cable and hardware.
- Second, using the Westinghouse Mini-Power Center.

Here are his estimates:

	15 kva Installation		25 kva Installation	
	3-component system	Mini-Power Center	3-component system	Mini-Power Center
Switch & Fuse Layout	4 hours		4 hours	
Switch & Fuse Mount	1		1	
Transformer Layout, Remove Knockout etc.	16	16	24	24
Transformer Fasten to Wall	4		4	
Panelboard-Layout, Mount and Connect Source	4	4	6	4
Total Hours	29	20	39	28
Hours saved by Westinghouse Mini-Power Center		**31%**		**28%**

Proof that you get big savings in installation costs with the Westinghouse Mini-Power Center. (Time estimates are typical only, and will vary by geographic area.)

Take advantage of these savings by having your architects, design engineers and buyers insert in the specifications—Westinghouse Electric Corporation Mini-Power Center with the appropriate catalog number.

Accessories

1) Secondary breakers
For 120 volt line to neutral circuits
Westinghouse Quicklag P, 1 pole or
Bryant BR, 1 pole.

2) For 240 volt line to line circuits
Westinghouse Quicklag P, 2 pole or
Bryant BR, 2 pole.

3) For 208 volt line to line 3 phase circuits
Westinghouse Quicklag P, 3 pole or
Bryant BR and QP, 3 pole.

4) Plugs for secondary breaker knockouts
Plastic Plugs FP-1.

Printed in U.S.A.