


BENJAMIN - Breaker Control Panelboard

CONFIGURATION AND PRICING GUIDE

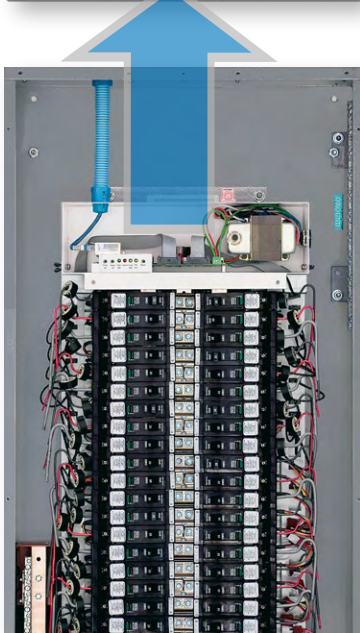
Product Highlights

- Remotely operate circuit breakers via manual or automated control schemes.
- Integrates easily into any Modbus Serial, DMX-512, or RDM-DMX control system (optional network protocols available).
- Sequential operation of the circuit breakers prevents in-rush current impacts from LED driver loads.
- 20" width standard for all panel sizes.
- Utilizes Eaton's Cutler-Hammer innovative solenoid operated remote controlled circuit breakers and Eaton's overcurrent protection circuit breakers. Remote controlled breakers are rated for 200,000 on/off/on operations.
- Breaker control system is capable of controlling up to 96 circuit breakers in a single stand alone panel.
- Breaker Control Panels come from our factory fully assembled and tested. Installation takes no more time than a standard panelboard.
- Network control via a license free web based graphical interface that uses standard web browsers such as Internet Explorer or Firefox. Provides multi-user access to breaker operation, status, setup, and optional metering data.
- OPTIONAL - Circuit level power metering is available for all branch circuits and mains.
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42 circuit Breaker Control Panelboard (BCP)
(shown with matte black finish)

web-based power metering interface (PMI)



Breaker Control Panelboard (BCP) shown
with optional power metering system



Since 1911

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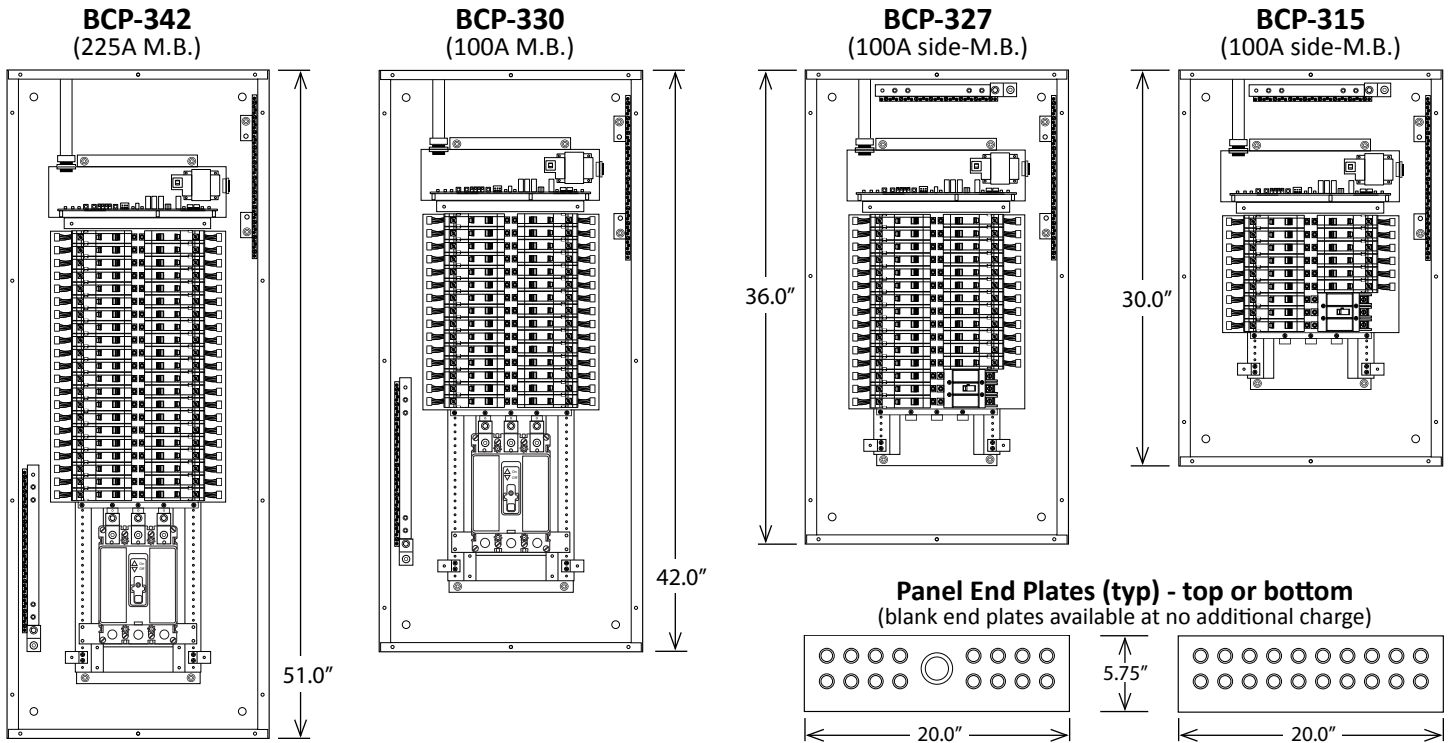
Manufacturers of Quality Electrical Power Distribution Equipment

For additional information visit us at: www.benjaminlectric.com or call 1-888-749-7731

Benjamin BCP - Configurations

(all standard panels include a master controller, serial communications*, and main breaker)

To develop a panel price select a base panel configuration, add branch circuit breakers, and any options (such as circuit metering). For single-phase panels substitute the first numerical digit in the part number with a 1, i.e. BCP-142.



Benjamin BCP - Base Panel Pricing

Model	Panel Description	List Price
BCP-315	3 ϕ , 4 wire, 208Y/120VAC, 65kAIC, 100A side-Main, Holds up to 15 breakers (30" height) <i>optional side-Main breakers: 60A, 70A, 80A, 90A available at no additional cost</i>	\$3,275
BCP-327	3 ϕ , 4 wire, 208Y/120VAC, 65kAIC, 100A side-Main, Holds up to 27 breakers (36" height) <i>optional side-Main breakers: 60A, 70A, 80A, 90A available at no additional cost</i>	\$3,935
BCP-330	3 ϕ , 4 wire, 208Y/120VAC, 65kAIC, 100A Main breaker, Holds up to 30 breakers (42" height) <i>optional Main breakers: 60A, 70A, 80A, 90A, 125A, 150A, 175A, 200A available at no additional cost</i>	\$4,190
BCP-342	3 ϕ , 4 wire, 208Y/120VAC, 65kAIC, 225A Main breaker, Holds up to 42 breakers (51" height) <i>optional Main breakers: 100A, 125A, 150A, 175A, 200A available at no additional cost</i>	\$4,843

For Main Lug Only panels add suffix MLO (example: BCP-342-MLO) and deduct:

-\$200

When specifying a single-phase panel, (i.e. BCP-142) the voltage becomes 120/240V with no change in pricing. For 480Y/277V rated panels, please contact us for pricing.

Panels require an external 120V, 208V, or 240V power source for the panel electronics. An internal circuit breaker can be used to power the electronics, relinquishing a breaker position (when ordering, specify position of 15 amp breaker).

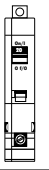
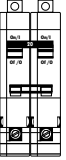
All prices include fully assembled panels ready to ship and place into operation. See next page for available breakers.

Panel sizes are available with up to 96 controlled circuit breakers, contact us for pricing and options.


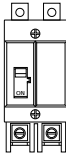
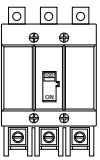
*Standard serial communications include: Modbus/RTU, Modbus/ASCII, RDM-DMX, and DMX-512.

Benjamin BCP - Breaker Pricing

Remote Controllable Branch Breakers

	Model	Description	List Price
	RCB-15	Bolt-on Remote Controllable Breaker, Eaton type GHQ, 15 Amp, Single Pole	\$126
	RCB-20	Bolt-on Remote Controllable Breaker, Eaton type GHQ, 20 Amp, Single Pole	\$126
	RCB-30	Bolt-on Remote Controllable Breaker, Eaton type GHQ, 30 Amp, Single Pole	\$126
	RCB-215	Bolt-on Remote Controllable Breaker, Eaton type GHQ, 15 Amp, Two Pole	\$353
	RCB-220	Bolt-on Remote Controllable Breaker, Eaton type GHQ, 20 Amp, Two Pole	\$353
	RCB-230	Bolt-on Remote Controllable Breaker, Eaton type GHQ, 30 Amp, Two Pole	\$353

Non-Remote Controllable Branch Breakers

	Model	Description	List Price
	NCB-15	Bolt-on Breaker, Eaton type GHB, 15 Amp, Single Pole	\$58
	NCB-20	Bolt-on Breaker, Eaton type GHB, 20 Amp, Single Pole	\$58
	NCB-30	Bolt-on Breaker, Eaton type GHB, 30 Amp, Single Pole	\$58
	NCB-215	Bolt-on Breaker, Eaton type GHB, 15 Amp, Two Pole	\$130
	NCB-220	Bolt-on Breaker, Eaton type GHB, 20 Amp, Two Pole	\$130
	NCB-230	Bolt-on Breaker, Eaton type GHB, 30 Amp, Two Pole	\$130
	NCB-315	Bolt-on Breaker, Eaton type GHB 15 Amp, Three Pole	\$226
	NCB-320	Bolt-on Breaker, Eaton type GHB, 20 Amp, Three Pole	\$226
	NCB-330	Bolt-on Breaker, Eaton type GHB, 30 Amp, Three Pole	\$226

High Current Control

Model	Description	List Price
HCC-180	Remote Contactor for panels. For loads up to 80A inductive, 105A resistive (UL Rated). Includes 1 contactor in an 12x12x8 enclosure. Requires a RCB-XX breaker for control.	\$680
HCC-280	Remote Contactor for panels. For loads up to 80A inductive, 105A resistive (UL Rated). Includes 2 contactors in an 12x12x8 enclosure. Requires 2 RCB-XX breakers for control.	\$975
HCC-380	Remote Contactor for panels. For loads up to 80A inductive, 105A resistive (UL Rated). Includes 3 contactors in an 12x12x18 enclosure. Requires 3 RCB-XX breakers for control.	\$1,270
HCC-480	Remote Contactor for panels. For loads up to 80A inductive, 105A resistive (UL Rated). Includes 4 contactors in an 12x12x18 enclosure. Requires 4 RCB-XX breakers for control.	\$1,565

For larger loads, please contact us for pricing.

TCP/IP Network Controller (option)

Model	Description	List Price
BCP-NC	Provides network access using Modbus TCP/IP or BACnet/IP for third party control systems. Also provides browser based access to the breaker control system and metering data.	\$595

Benjamin BCP - Metering System Pricing

factory assembled branch and mains metering

Model	Description	List Price
BMM-315	Current, Power, and Energy Metering for 15 branch circuits and mains (adder to BCP base panel)	\$1,635
BMM-327	Current, Power, and Energy Metering for 27 branch circuits and mains (adder to BCP base panel)	\$2,087
BMM-330	Current, Power, and Energy Metering for 30 branch circuits and mains (adder to BCP base panel)	\$2,087
BMM-342	Current, Power, and Energy Metering for 42 branch circuits and mains (adder to BCP base panel)	\$2,544

The above prices include the BCP-NC option, which provides network web-based access to the metering data.

Benjamin BCP - Specifications

Voltage Ratings	120/240V 1Ø 3W	208Y/120V 3Ø 4W	480Y/277V 3Ø 4W
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AIC Ratings	65kAIC@240V Fully Rated to 100kAIC Series Rated
	14kAIC@480Y/277V Fully Rated to 65kAIC Series Rated

Branch Circuit Breaker Options	1 Pole	15A, 20A, 30A Controlled, 15A to 100A non-controlled
	2 Pole	15A, 20A, 30A Controlled, 15A to 100A non-controlled
	3 Pole	15A to 100A non-controlled

Mains Configurations	Main Lugs Only:	100A, 225A, 400A, and 600A Rated
	Main Breaker:	60 Amps to 600 Amps

Power Measurement	Mains Current Accuracy:	1% of reading from 1% to 100% of nominal rated current
	Mains Voltage Accuracy:	0.5% of reading from 90 to 600 VAC Line to Neutral
	Mains Power Data:	Voltage, Current, Watts, PF, VA, VAR, HZ, WHrs, VAHrs, VARHrs
	Branch Current Accuracy:	1% of reading from 0.15 Amps to 100 Amps
	Branch Circuit Data:	Current, Watts, PF, VA, VAR, WattHrs, VAHrs, VARHrs
	Data Update Rate:	1 second for all real-time values



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