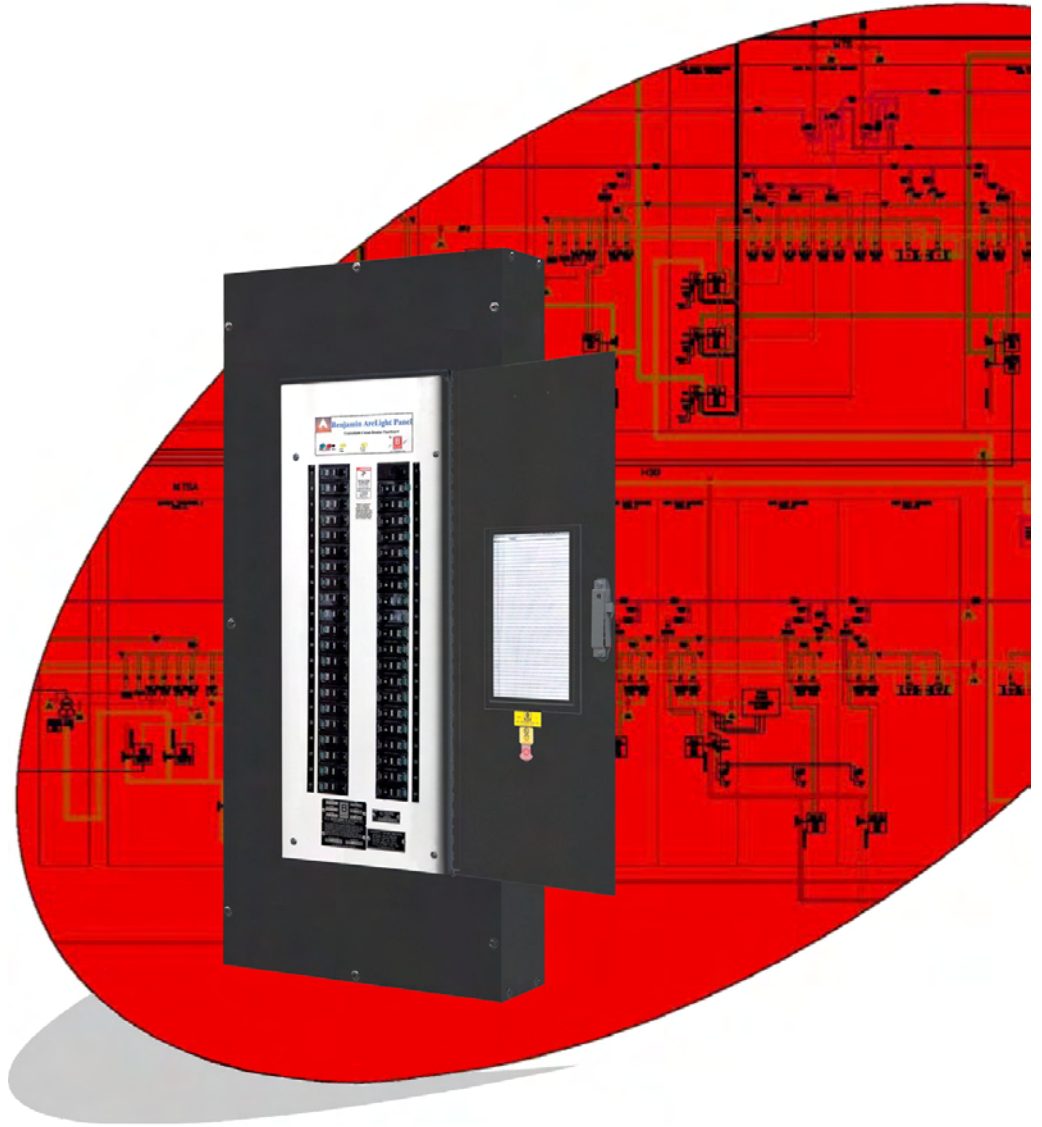


BREAKER CONTROL PANELBOARD

Remote On-Off Control of Branch Circuits
using DMX, RDM, or ACN

CONFIGURATION GUIDE

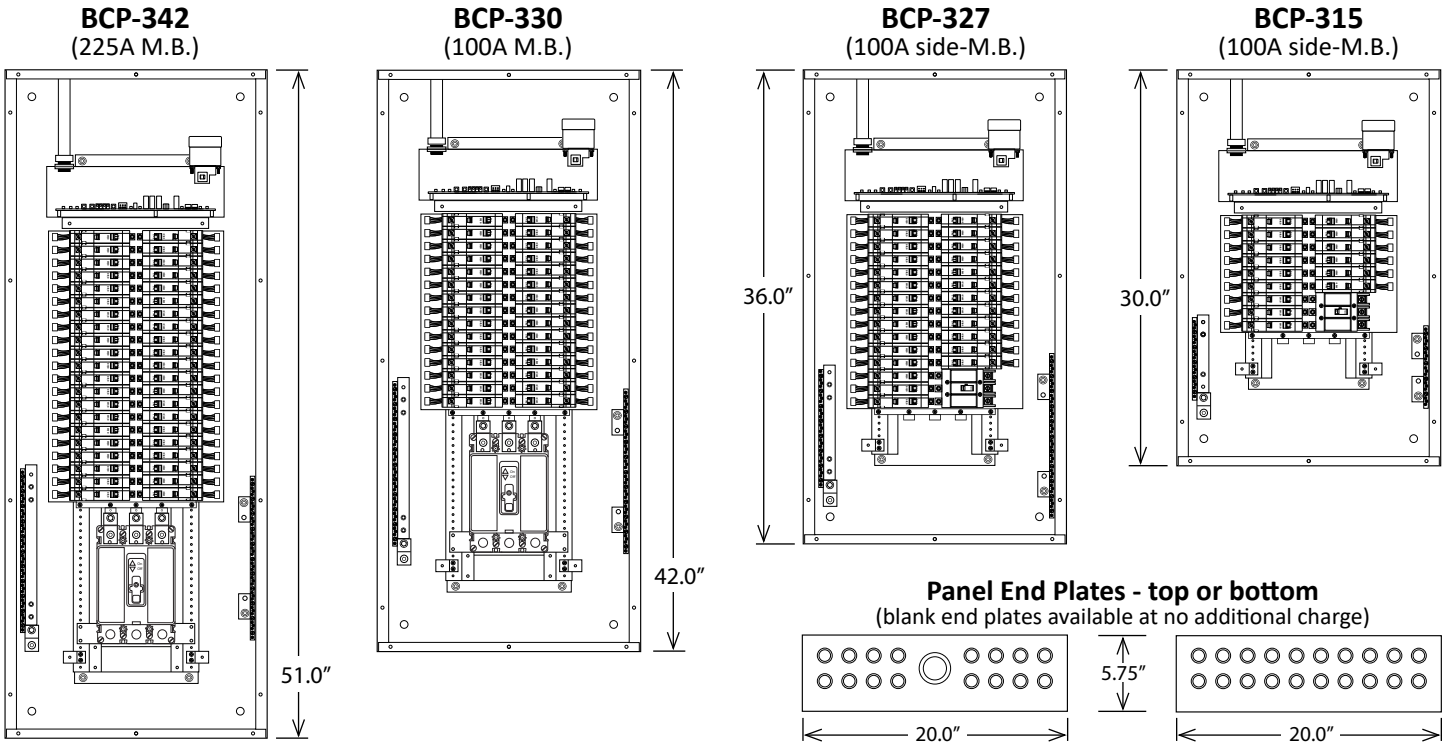


SMART POWER
by Benjamin Electric Company
Manufacturer of Smart Power Distribution

Breaker Control Panelboard - Configurations

All standard panels include a master controller, serial communications*, and main breaker.

To develop a complete panel assembly select a base panel configuration, add branch circuit breakers, and any options (such as circuit metering).



Base Panels

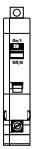

Model	Panel Description
BCP-315	Capacity up to 15 breakers (30" height), 3Ø, 4 wire, 208Y/120VAC, 65kAIC, 100A side-Main Breaker <i>optional amperages for side-Main breakers: 60A, 70A, 80A, 90A</i>
BCP-327	Capacity up to 27 breakers (36" height), 3Ø, 4 wire, 208Y/120VAC, 65kAIC, 100A side-Main Breaker <i>optional amperages for side-Main breakers: 60A, 70A, 80A, 90A</i>
BCP-330	Capacity up to 30 breakers (42" height), 3Ø, 4 wire, 208Y/120VAC, 65kAIC, 100A Main breaker <i>optional amperages for Main breakers: 60A, 70A, 80A, 90A, 125A, 150A, 175A, 200A</i>
BCP-342	Capacity up to 42 breakers (51" height), 3Ø, 4 wire, 208Y/120VAC, 65kAIC, 225A Main breaker <i>optional amperages for Main breakers: 100A, 125A, 150A, 175A, 200A</i>
BCP-348 (not shown)	Capacity up to 48 breakers (54" height), 3Ø, 4 wire, 208Y/120VAC, 65kAIC, 225A Main breaker <i>optional Main breakers: 100A, 125A, 150A, 175A, 200A available at no additional cost</i>

- For Main Lug Only panels add suffix MLO (example: BCP-342-MLO).
- For single-phase panels (120/240V) substitute the first numerical digit in the part number with the number 1, i.e. BCP-142.
- For 480Y/277V panels substitute the first numerical digit in the part number with the number 4, i.e. BCP-442.
- All panels are factory tested and ship fully assembled.
- Panel sizes are available with up to 96 controlled circuit breakers, contact us for options.


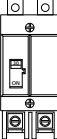
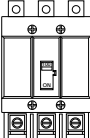
* Standard serial communications include: DMX-512, RDM, Modbus/RTU, and Modbus/ASCII.

Branch Breakers

Remote Switchable Branch Breakers

	Model	Description
	RCB-15	Bolt-on Remote Switchable Branch Breaker, Eaton type GHQ, 15 Amp, Single Pole
	RCB-20	Bolt-on Remote Switchable Branch Breaker, Eaton type GHQ, 20 Amp, Single Pole
	RCB-30	Bolt-on Remote Switchable Branch Breaker, Eaton type GHQ, 30 Amp, Single Pole
	RCB-215	Bolt-on Remote Switchable Branch Breaker, Eaton type GHQ, 15 Amp, Two Pole
	RCB-220	Bolt-on Remote Switchable Branch Breaker, Eaton type GHQ, 20 Amp, Two Pole
	RCB-230	Bolt-on Remote Switchable Branch Breaker, Eaton type GHQ, 30 Amp, Two Pole

Standard Branch Breakers

	Model	Description
	NCB-15	Bolt-on Branch Breaker, Eaton type GHB, 15 Amp, Single Pole
	NCB-20	Bolt-on Branch Breaker, Eaton type GHB, 20 Amp, Single Pole
	NCB-30	Bolt-on Branch Breaker, Eaton type GHB, 30 Amp, Single Pole
	NCB-215	Bolt-on Branch Breaker, Eaton type GHB, 15 Amp, Two Pole
	NCB-220	Bolt-on Branch Breaker, Eaton type GHB, 20 Amp, Two Pole
	NCB-230	Bolt-on Branch Breaker, Eaton type GHB, 30 Amp, Two Pole
	NCB-315	Bolt-on Branch Breaker, Eaton type GHB 15 Amp, Three Pole
	NCB-320	Bolt-on Branch Breaker, Eaton type GHB, 20 Amp, Three Pole
	NCB-330	Bolt-on Branch Breaker, Eaton type GHB, 30 Amp, Three Pole

– For higher amperages please contact us.

Network Connectivity (option)

Model	Description
BCP-ACN	Provides ACN connectivity using standard Ethernet cabling.
BCP-NC	Provides network connectivity 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.

Metering System (option)

factory assembled branch and mains metering

Model	Description
BMM-315	Current, Power, and Energy Metering for 15 branch circuits and feeder main.
BMM-327	Current, Power, and Energy Metering for 27 branch circuits and feeder main.
BMM-330	Current, Power, and Energy Metering for 30 branch circuits and feeder main.
BMM-342	Current, Power, and Energy Metering for 42 branch circuits and feeder main.
BMM-348	Current, Power, and Energy Metering for 48 branch circuits and feeder main.

– All metering systems include the BCP-NC option, which provides Ethernet connectivity and Browser access to the metering data.

Specifications

Voltage Ratings	120/240V 1Ø 3W	208Y/120V 3Ø 4W	480Y/277V 3Ø 4W
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	



SMART POWER

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