

PowerLogic™ BCPM

Features and Specifications

Electrical characteristics		
Accuracy	Voltage	1% of reading from 90 – 277 V ⁽¹⁾
	Branch current	2% of reading from 0.25 A – 2 A 1% of reading from 2 A – 100 A
	Branch power	3% of reading from 1 A – 100 A ^{(1) (2)}
Data update rate		1.2 seconds
Input voltage	Measured voltage	150 – 480 V ac L-L ⁽¹⁾ 90 – 277 V ac L-N ⁽¹⁾
Power supply		90 – 277 V ac (50/60 Hz)
Environmental conditions		
Operating temperature		0 to 60° C
Storage temperature		-40° C to 70° C
Installation category		CAT III
Safety		
Europe		IEC 61010
U.S. and Canada		UL 508 Open type device
Communication		
RS 485		Baud rate: DIP switch selectable 4800, 9600, 19200, 38400, DIP switch selectable 2-wire or 4-wire RS-485
Protocol		Modbus™ RTU

⁽¹⁾ Feature sets A and B only

⁽²⁾ Power accuracy range: +/- 0.8 power factor to 1.0 power factor

The PowerLogic BCPM uses .333 VAC output split core CTs for the auxiliary inputs. These CTs are ordered separately from the BCPM.

1/3 V low-voltage CT (LVCT) specifications	
Electrical characteristics	
Accuracy	1% from 10% to 100% of rated current
Frequency range	50/60 Hz
Leads	18 AWG, 600 V ac, UL 1015 twisted pair, 1.8 m standard length
Maximum voltage L-N sensed conductor	600 V ac
Environmental conditions	
Operating temperature	-15° C to 60° C
Storage temperature	-40° C to 70° C
Humidity range	0 to 95% non-condensing

Part number	Rating (A)
LVCT00102S	100 A
LVCT00202S	200 A
LVCT00302S	300 A

Part number	Rating (A)
LVCT00403S	400 A
LVCT00603S	600 A
LVCT00803S	800 A

Part number	Rating (A)
LVCT00804S	800 A
LVCT01004S	1,000 A
LVCT01204S	1,200 A

Part number	Rating (A)
LVCT01604S	1,600 A
LVCT02004S	2,000 A
LVCT02404S	2,400 A



Features and Specifications (continued)

Features	BCPMA	BCPMB	BCPMC
Circuit metering			
Current per circuit	✓	✓	✓
Present current demand	✓	✓	✓
Max current demand	✓	✓	✓
Max current	✓	✓	✓
Power per circuit	✓		
Present demand	✓		
Max demand	✓		
Energy per circuit (kWh)	✓		
Power factor	✓		
Mains metering			
Current, per phase	✓	✓	✓
Max current, per phase	✓	✓	✓
Present current demand, per phase	✓	✓	✓
Max current demand, per phase	✓	✓	✓
Energy (kWh)	✓	✓	
kW, real power per phase	✓	✓	
Total	✓	✓	
Power Factor	✓	✓	
Voltage	✓	✓	
Line to line and average L-L of 3 phases	✓	✓	
Line to neutral and average L-N of 3 phases	✓	✓	
Frequency (Phase A)	✓	✓	

Dimensional Drawings

Circuit Board and Mounting Bracket

8.3" (211 mm) x 7.9" (200 mm) overall dimensions. Mounting bracket height is 5.8" (147 mm). Board width is 7.3" (185 mm). Mounting holes are 0.2" (5 mm) diameter.

Adapter Board

4.6" (117 mm) width.

Current Sensors

50 amp
A=1.0"
B=0.5"
C=0.4"
D=0.9"
E=1.6"

100 amp
A=1.6"
B=0.7"
C=0.7"
D=1.6"
E=2.0"

1/3 V low-voltage CT form factor

Small form factor
100/200/300 amp
A = 3.8"
B = 1.2"
C = 1.2"
D = 1.2"
E = 3.9"
F = 4.8"

Medium form factor
400/600/800 amp
A = 4.9"
B = 2.9"
C = 2.4"
D = 1.2"
E = 5.2"
F = 5.9"

Large form factor
800/1000/1200/
1600/2000/2400 amp
A = 4.9"
B = 5.5"
C = 2.4"
D = 1.2"
E = 7.9"
F = 5.9"

Solid Core CT Strip - Current Sensor Strip

20.3" (516 mm) length. Slot: 0.25" X 0.5" (7X13 mm). Options: 3/4" (19 mm) and 1" (25 mm) height. Mounting holes are 0.4" (10 mm) diameter. Spacing between holes is 0.75" (19 mm) on center.