

# Edison Power Distribution Blocks



## Short-Circuit Current Rated Power Distribution Blocks

We offer distinctly different styles of short-circuit current rated Power Distribution Blocks and Terminal Blocks to match different application needs.

- Enclosed style or Open style
- UL1953 Listed power distribution blocks or UL1059 Recognized terminal blocks, that have different minimum spacing requirements.

The table below can assist in the selection of the correct series for your application requirements.

### Why are these important?

Assembly short-circuit current ratings (SCCRs) are now required in the 2005 NEC® and UL508A Listed industrial control panels.

Marking the SCCR on:

- Industrial Control Panels (NEC® 409.110)
- Industrial Machinery Electrical Panels (NEC® 670.3(A))
- HVAC equipment (NEC® 440.4(B))

The above sections are now required by the National Electrical Code. Power Distribution Blocks or Terminal Blocks not marked with an SCCR are typically one of the weakest links and may limit an assembly to no more than 10 kA SCCR per Table SB4.1 UL508A. The EPDB series and HPB series Power Distribution Blocks have increased spacing required where used in feeder circuits in equipment listed to UL508A. The PB series UL1059 Terminal Blocks must be evaluated for proper spacing. Also, for building wiring systems, the EPDB series and HPB series power distribution blocks can be used to meet the 2005 NEC® requirements in section 376.56(B) for power distribution blocks in wireways.

**Edison Power Distribution Blocks Selection Guide\***

Series	UL	† Enclosed	High SCCR**	Spacing*** 1" Air 2" Surface	Industrial Control Panels UL 508A Branch Circuit	Industrial Control Panels UL 508A Feeder Circuit	HVAC UL 1995	Wireways NEC® 376.56(B) (Requires UL 1953)
<b>EPDB</b>	UL 1953 Listed Power Distribution Blocks	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<b>HPB</b>	UL 1953 Listed Power Distribution Blocks	No****	Yes	Yes	Yes	Yes	Yes	Yes (with optional cover)
<b>PB</b>	UL 1059 Recognized Terminal Blocks	No****	Yes	No*****	Yes	No*****	Yes	No

† IP-20 finger-safe under specific conditions.

\*Refer to specific UL standards and NEC sections for a complete application guide.

\*\*When protected by proper fuse class with maximum ampere rating specified or smaller.

This does not apply to PB40, PB51 and PB71 series.

\*\*\*See Minimum Space Requirements for Equipment table below.

\*\*\*\*Optional covers are available. They are not IP-20 rated, but do provide additional protection against direct contact with Live Parts.

\*\*\*\*\*Exception: Yes, if single pole units installed with proper spacings.

**Minimum Space Requirements for Equipment**

UL Standard	Spacing Between Live Parts of Opposite Polarity		Spacing Between Live Parts and Grounded Parts or Enclosures, Through Air and Over Surface @ 600V
	Through Air @ 600V	Over Surface @ 600V	
508A Feeder Circuits, Table 10.2	1"	2"	1"
508A Branch Circuits, Table 10.1	3/8"	1/2"	1/2"
UL 1995 HVAC	3/8"	1/2"	1/2"

Note: Refer to specific UL standards for complete spacing details.

# PB Series Edison Open-Style Terminal Blocks

## Open-style terminal blocks for cable termination

Edison Open-style terminal blocks are a convenient way to manage your power distribution needs. They are engineered to maintain an SCCR rating of 200kA with copper conductors and an SCCR of 10 kA for aluminium conductors, making these distribution blocks the ideal solution to today's power circuit wiring needs.

## Features

- Used in UL508A panels for branch circuit applications
- Standard aluminum box connectors accommodate copper wire. PB401x, PB512x and PB712x series accommodate copper or aluminum wire.
- Tin-plated aluminum connectors suitable for copper conductors
- Available safety covers for greater protection (purchase separately)
- Suitable for both factory and field wiring

## Ratings

- Ampere ratings up to 760 Amps
- 600 VAC or VDC
- Short Circuit Current Rating (SCCR) 200kA with proper fusing
- Flammability: UL 94V0

## Agency Approvals

- UL 1059 recognized - File E62622 Guide XCFR2
- CSA Certified: Class 6228-01, File 700489
- CE

### Open Type Power Distribution Blocks Selection Table

Part Number	Amps	Description	SCCR Rating	Qty	Weight [oz]	Price
<a href="#">PB1011</a>	175 max	1 pole distribution block, 1 in/1 out	200 kA	1	2.8	\$19.00
<a href="#">PB1012</a>	175 max	2 pole distribution block, 1 in/1 out	200 kA	1	4.6	\$27.50
<a href="#">PB1013</a>	175 max	3 pole distribution block, 1 in/1 out	200 kA	1	6.8	\$33.50
<a href="#">PB1041</a>	175 max	1 pole distribution block, 1 in/4 out	200 kA	1	3.1	\$28.00
<a href="#">PB1042</a>	175 max	2 pole distribution block, 1 in/4 out	200 kA	1	5.2	\$44.00
<a href="#">PB1043</a>	175 max	3 pole distribution block, 1 in/4 out	200 kA	1	7.3	\$53.00
<a href="#">PB3061</a>	310 max	1 pole distribution block, 1 in/6 out	200 kA	1	10.9	\$77.00
<a href="#">PB3062</a>	310 max	2 pole distribution block, 1 in/6 out	200 kA	1	19.1	\$91.00
<a href="#">PB3063</a>	310 max	3 pole distribution block, 1 in/6 out	200 kA	1	25.5	\$108.00
<a href="#">PB3121</a>	310 max	1 pole distribution block, 1 in/12 out	200 kA	1	12.7	\$68.00
<a href="#">PB3122</a>	310 max	2 pole distribution block, 1 in/12 out	200 kA	1	21.6	\$112.00
<a href="#">PB3123</a>	310 max	3 pole distribution block, 1 in/12 out	200 kA	1	31.1	\$156.00
<a href="#">PB4011</a>	380 max	1 pole distribution block, 1 in/stud	10 kA	1	11.9	\$54.00
<a href="#">PB4012</a>	380 max	2 pole distribution block, 1 in/stud	10 kA	1	20.7	\$86.00
<a href="#">PB4013</a>	380 max	3 pole distribution block, 1 in/stud	10 kA	1	29.1	\$121.00
<a href="#">PB5121</a>	570 max	1 pole distribution block, 2 in/12 out	10 kA	1	13.8	\$78.00
<a href="#">PB5122</a>	570 max	2 pole distribution block, 2 in/12 out	10 kA	1	24.4	\$125.00
<a href="#">PB5123</a>	570 max	3 pole distribution block, 2 in/12 out	10 kA	1	34.7	\$179.00
<a href="#">PB7121</a>	760 max	1 pole distribution block, 2 in/12 out	10 kA	1	17.0	\$133.00
<a href="#">PB7123</a>	760 max	3 pole distribution block, 2 in/12 out	10 kA	1	44.0	\$221.00

### Safety Covers for Open Power Distribution Blocks Selection Table

Part Number	Description	Qty	Weight (oz)	Price
<a href="#">PBC21</a>	Power distribution block cover for 175A open style 1-pole blocks	1	0.3	\$4.25
<a href="#">PBC22</a>	Power distribution block cover for 175A open style 2-pole blocks	1	0.4	\$5.75
<a href="#">PBC23</a>	Power distribution block cover for 175A open style 3-pole blocks	1	0.5	\$7.00
<a href="#">PBC31</a>	Power distribution block cover for 310A, 380A, 570A open style 1-pole blocks, and <a href="#">HPB106-1</a>	1	0.9	\$10.50
<a href="#">PBC32</a>	Power distribution block cover for 310A, 380A, 570A open style 2-pole blocks, and <a href="#">HPB106-2</a>	1	1.3	\$13.50
<a href="#">PBC33</a>	Power distribution block cover for 310A, 380A, 570A open style 3-pole blocks, and <a href="#">HPB106-3</a>	1	1.6	\$15.00
<a href="#">PBC71</a>	Power distribution block cover for all 760A open style 1-pole and 3-pole blocks. 1 pole block requires 1 cover. 3-pole block requires 3 covers	1	0.9	\$15.50

### Open Style Power Distribution Block General Specifications

<b>Wire type</b>	75°C* Copper
<b>Voltage</b>	600 VAC or VDC maximum
<b>Mounting</b>	Surface mount

\*Note: Amp Rating based on NEC table 310.16 for 75°C copper wire.



# PB Series Edison Open-Style Terminal Blocks Specifications

UL Series Wire and Torque Range Specifications								
Part Number	Line				Load			
	CU Wire Range	Torque lb-in [N·m]	Trim Length in [mm]	Hex Key	CU Wire Range*	Torque lb-in [N·m]	Trim Length in [mm]	Hex Key, Slot, Stud
<a href="#">PB1011</a>	2/0 to 8 AWG 70 to 10 mm <sup>2</sup>	110 [12.4]	0.70 [17.8]	3/16"	2/0 to 8 AWG 70 to 10 mm <sup>2</sup>	110 [12.4]	0.70 [17.8]	3/16" Hex
<a href="#">PB1012</a>								
<a href="#">PB1013</a>								
<a href="#">PB1041</a>	2/0 to 8 AWG 70 to 10 mm <sup>2</sup>	120 [13.6]	0.670 [17.0]	3/16"	4 to 6 AWG, 25 to 16 mm <sup>2</sup>	35 [4.0]	0.470 [11.9] top row, 0.780 [19.8] bottom row	Slot
<a href="#">PB1042</a>					8 AWG, 10 mm <sup>2</sup>	25 [2.8]		
<a href="#">PB1043</a>					10 to 14 AWG, 6 to 2.5 mm <sup>2</sup>	20 [2.3]		
<a href="#">PB3061</a>	350 kcmil to 4 AWG 185 to 25 mm <sup>2</sup>	275 [31.1]	0.90 [22.9]	5/16"	4 to 6 AWG, 25 to 16 mm <sup>2</sup>	35 [4.0]	1.00 [25.4] top row 0.45 [11.43] bottom row	Slot
<a href="#">PB3062</a>					8 AWG, 10 mm <sup>2</sup>	25 [2.8]		
<a href="#">PB3063</a>					10 to 12 AWG, 6 to 4 mm <sup>2</sup>	20 [2.3]		
<a href="#">PB3121</a>	350 kcmil to 4 AWG 185 to 25 mm <sup>2</sup>	275 [31.1]	0.90 [22.9]	5/16"	4 to 6 AWG, 25 to 16 mm <sup>2</sup>	35 [4.0]	0.450 [11.4] top row, 0.630 [16.0] middle row, 0.920 [23.4] bottom row	Slot
<a href="#">PB3122</a>					8 AWG, 10 mm <sup>2</sup>	25 [2.8]		
<a href="#">PB3123</a>					10 to 14 AWG, 6 to 2.5 mm <sup>2</sup>	20 [2.3]		
<a href="#">PB4011</a>	500 kcmil to 6 AWG 300 to 16 mm <sup>2</sup>	500 [56.5]	—	—	—	—	—	Stud
<a href="#">PB4012</a>								
<a href="#">PB4013</a>								
<a href="#">PB5121</a>	300 kcmil to 4 AWG 185 to 25 mm <sup>2</sup>	275 [31.1]	—	—	4 to 14 AWG 25 mm <sup>2</sup> to 2.5 mm <sup>2</sup>	20 [2.3]	—	—
<a href="#">PB5122</a>								
<a href="#">PB5123</a>								
<a href="#">PB7121</a>	500 kcmil to 6 AWG 300 to 16 mm <sup>2</sup>	500 [56.5]	—	—	4 to 14 AWG 25 mm <sup>2</sup> to 2.5 mm <sup>2</sup>	35 [4.0]	—	—
<a href="#">PB7123</a>								

\* Wire Range shown is divided based on torque rating. The full range capability spans smallest to largest listed.

Short-Circuit Current Rating Data													
			Line	Load	Configuration	Conductors		Maximum Fuse Class and Amp**					
Part Number	Number of Poles	Capacity*	Wire Range	Wire Range	Openings per Pole	Line AWG or kcmil	Load AWG or kcmil	Class J (JDL)	Class T (A3T/ A6T)	Class RK1 (LENRK/ LESRK)	Class RK5 (ECNR/ ECSR)	SCCR	
<a href="#">PB1011</a>	1	175A	2/0 to 8 AWG 70 to 10 mm²	2/0 to 8 AWG 70 to 10 mm²	1/1	2/0 to 8	2/0 to 8	200	200	200	60	200 kA	
<a href="#">PB1012</a>	2												
<a href="#">PB1013</a>	3												
<a href="#">PB1041</a>	1	175A	2/0 to 8 AWG 70 to 10 mm²	4 to 14 AWG 25 to 2.5 mm²	1/4	2/0 to 8	4 to 12	200	200	200	60	200 kA	
<a href="#">PB1042</a>	2						4 to 14	175	175	100	60	100 kA	
<a href="#">PB1043</a>	3							200	200	100	60	50 kA	
<a href="#">PB3061</a>	1	310A	350 kcmil to 4 AWG 185 to 25 mm²	4 to 12 AWG 25 to 4 mm²	1/6	350 to 4	4 to 8	400	400	200	100	200 kA	
<a href="#">PB3062</a>	2						4 to 12	400	400	400	100	100 kA	
<a href="#">PB3063</a>	3							175	175	100	60	100 kA	
<a href="#">PB3121</a>	1	310A	350 kcmil to 4 AWG 185 to 25 mm²	4 to 14 AWG 25 to 2.5 mm²	1/12	350 to 4	4 to 8	400	400	200	100	200 kA	
<a href="#">PB3122</a>	2						4 to 14	175	175	100	60	100 kA	
<a href="#">PB3123</a>	3							175	175	100	60	100 kA	
<a href="#">PB4011</a>	1	380A	500 kcmil to 6 AWG 240 to 16 mm²	One 3/8" - 16 x 1 stud	One 3/8" - 16 x 1 stud	500	One 3/8" - 16 x 1 stud	***	***	***	***	10 kA	
<a href="#">PB4012</a>	2					500 to 6		***	***	***	***		
<a href="#">PB4013</a>	3							***	***	***	***		
<a href="#">PB5121</a>	1	570A	300 kcmil to 4 AWG 150 to 25 mm²	4 to 14 AWG 25 to 2.5 mm²	2/12	300	4 to 14	***	***	***	***	10 kA	
<a href="#">PB5122</a>	2					300 to 4	4 to 14	***	***	***	***		
<a href="#">PB5123</a>	3							***	***	***	***		
<a href="#">PB7121</a>	1	760A	500 kcmil to 6 AWG 240 to 16 mm²	4 to 14 AWG 25 to 2.5 mm²	2/12	500 to 6	4 to 14	***	***	***	***	10 kA	
<a href="#">PB7123</a>	3							***	***	***	***		

\*Amp ratings are based on NEC® Table 310.16 for 75°C copper wire and UL508A Table 28.1

\*\*Class G 60A or less or Class CC 30A or less fuses are suitable for all SCCR in this table.

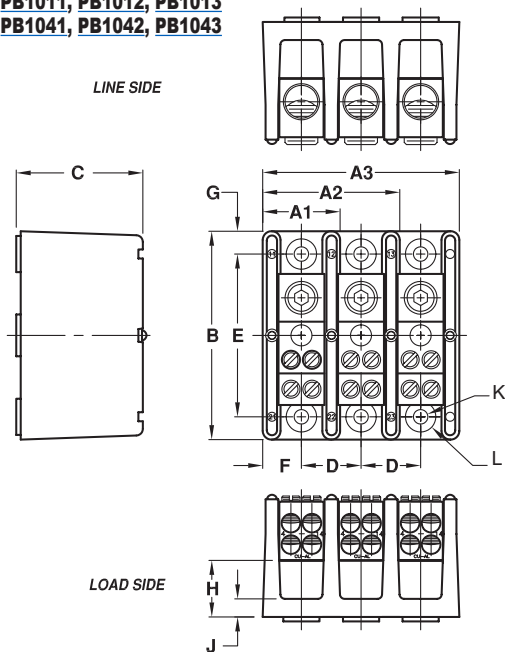
\*\*\*Not High SCCR rated. Refer to UL508A Table SB4.1.

# PB Series Edison Open-Style Terminal Blocks Dimensions

Edison Open-Style Power Distribution Blocks Dimensions													
Part Number	Width			Length	Height								
	A1	A2	A3	B	C	D	E	F	G	H	J	K	L
<a href="#">PB1011</a>	1.06 [26.92]	1.88 [47.75]	2.60 [66.04]	2.85 [72.39]	1.75 [44.45]	0.81 [20.57]	2.25 [57.15]	0.53 [13.46]	0.31 [7.87]	0.84 [21.34]	0.31 [7.87]	0.20 [5.08]	0.42 [10.67]
<a href="#">PB1012</a>													
<a href="#">PB1013</a>													
<a href="#">PB1041</a>													
<a href="#">PB1042</a>													
<a href="#">PB1043</a>	1.96 [49.78]	3.58 [90.93]	5.20 [132.08]	4.0 [101.60]	3.32 [84.33]	1.62 [41.15]	3.37 [85.60]	0.985 [25.02]	0.310 [7.87]	0.780 [19.81]	0.250 [6.35]	Slot 0.20 [5.08] (w) x 0.41 [10.41] (l)	Slot 0.42 [10.67] (w) x 0.62 [15.75] (l)
<a href="#">PB3061</a>													
<a href="#">PB3062</a>													
<a href="#">PB3063</a>													
<a href="#">PB3121</a>													
<a href="#">PB3122</a>													
<a href="#">PB3123</a>													
<a href="#">PB4011</a>													
<a href="#">PB4012</a>													
<a href="#">PB4013</a>													
<a href="#">PB5121</a>													
<a href="#">PB5122</a>													
<a href="#">PB5123</a>													

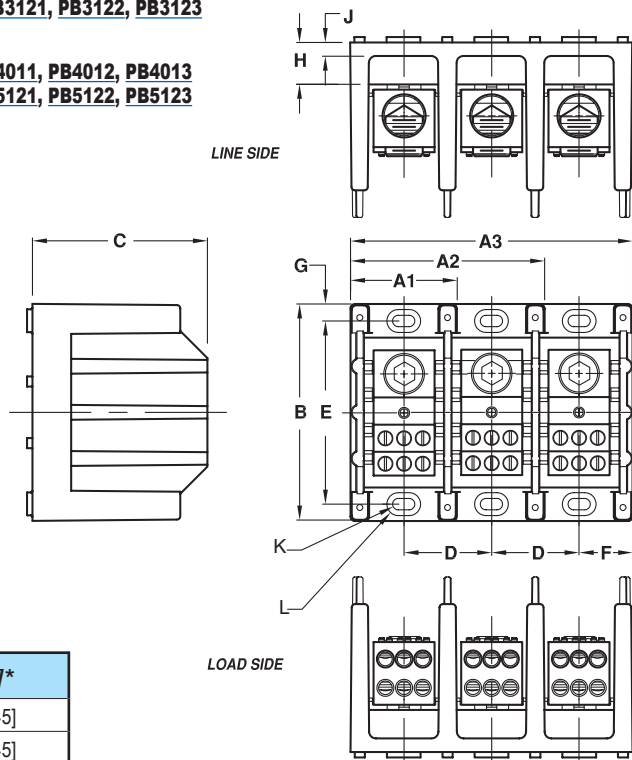
Note: Dimensions are in inches [millimeters]

[PB1011, PB1012, PB1013](#)  
[PB1041, PB1042, PB1043](#)



[PB3061, PB3062, PB3063](#)  
[PB3121, PB3122, PB3123](#)

[PB4011, PB4012, PB4013](#)  
[PB5121, PB5122, PB5123](#)



Part Number	Minimum Enclosure Size in[mm]*
<a href="#">PB1011, PB1012, PB1013</a>	16 x 16 x 6.75 [406.4 x 406.4 x 171.45]
<a href="#">PB1041, PB1042, PB1043</a>	16 x 16 x 6.75 [406.4 x 406.4 x 171.45]
<a href="#">PB3061, PB3062, PB3063</a>	24 x 20 x 6.75 [609.6 x 508 x 171.45]
<a href="#">PB3121, PB3122, PB3123</a>	24 x 20 x 6.75 [609.6 x 508 x 171.45]
<a href="#">PB4011, PB4012, PB4013</a>	N/A
<a href="#">PB5121, PB5122, PB5123</a>	N/A
<a href="#">PB7121, PB7123</a>	N/A

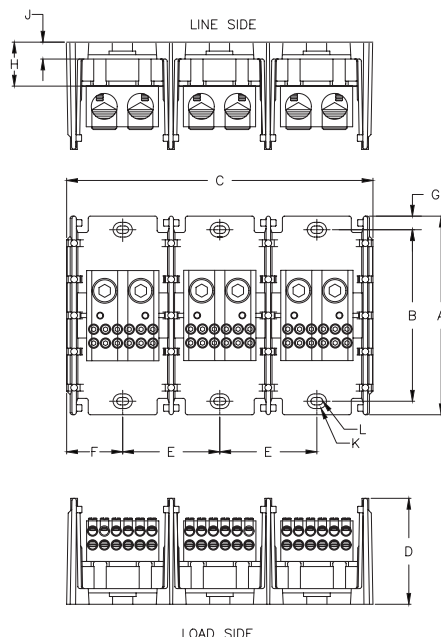
\*Note: Terminal block SCCR determined based on testing in minimum-size enclosure

# PB Series Edison Open-Style Terminal Blocks Dimensions

Edison Open-Style Power Distribution Blocks Dimensions													
Part Number	Width	Length	Height										
	A	B	C1	C2	C3	D	E	F	G	H	J	K	L
<b>PB7121</b>	5.5	4.75	3.10	5.79	8.48	2.93	2.69	1.55	0.38	1.19	0.44	Slot: 0.20 [5.08] (w) x 0.33 [8.38] (l)	Slot: 0.41 [10.41] (w) x 0.53 [13.46] (l)
<b>PB7123</b>	[139.7]	[120.7]	[78.74]	[147.1]	[215.39]	[74.42]	[68.33]	[39.37]	[9.65]	[30.23]	[11.18]		

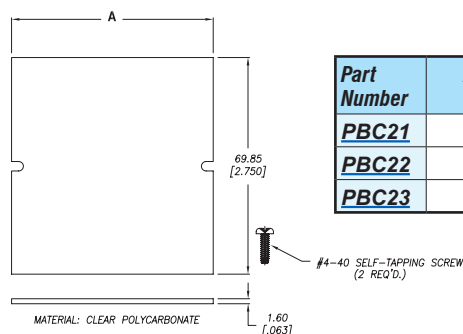
Note: Dimensions are in inches [millimeters]

**PB7121, PB7123**



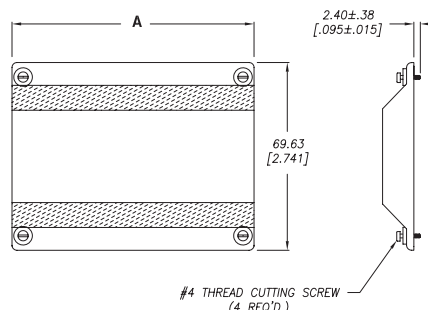
## Covers

**Optional Cover for  
PB1011, PB1012, PB1013  
PB1041, PB1042, PB1043**



Part Number	A Dimension in [mm]
<b>PBC21</b>	0.94 [23.88]
<b>PBC22</b>	1.75 [44.45]
<b>PBC23</b>	2.56 [65.02]

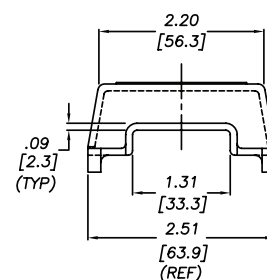
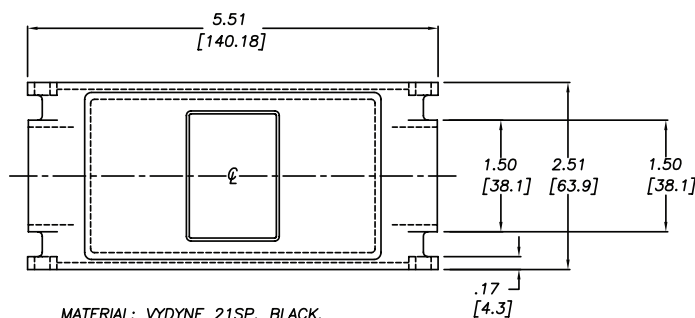
**Optional Cover for  
PB3061, PB3062, PB3063  
PB3121, PB3122, PB3123**



**PB4011, PB4012, PB4013  
PB5121, PB5122, PB5123**

Part Number	A Dimension in [mm]
<b>PBC31</b>	2.10 [53.34]
<b>PBC32</b>	3.72 [94.49]
<b>PBC33</b>	5.34 [135.64]

**PBC71  
Optional Cover for  
PB7121 and PB7123**



METRIC  $\pm .13\text{mm}$   
INCHES  $\pm .005"$



# Edison Open-Style Power Distribution Blocks Quick Reference

Edison Power Distribution Blocks Quick Reference						
Openings per pole	Type	175 amps	310 amps	380 amps	570 amps	760 amps
1 in 1 out	Open UL1059	PB101x	NO	NO	NO	NO
	Open UL1953 Listed	HPB101-x	HPB101-x	NO	NO	NO
	Finger Safe UL1953 Listed	<a href="#">EPDB101</a>	<a href="#">EPDB301</a>	NO	NO	NO
1 in 1 stud out	Open UL1059	NO	NO	PB401x	NO	NO
	Open UL1953 Listed	HPB10S-x	NO	NO	NO	NO
	Finger Safe UL1953 Listed	NO	NO	NO	NO	NO
2 in 2 out	Open UL1059	NO	NO	NO	NO	NO
	Open UL1953 Listed	NO	NO	NO	NO	NO
	Finger Safe UL1953 Listed	NO	NO	NO	NO	<a href="#">EPDB702</a>
1 in 4 out	Open UL1059	PB104x	NO	NO	NO	NO
	Open UL1953 Listed	HPB104-x	HPB104-x	NO	NO	NO
	Finger Safe UL1953 Listed	<a href="#">EPDB104</a>	NO	NO	NO	NO
1 in 6 out	Open UL1059	NO	PB306x	NO	NO	NO
	Open UL1953 Listed	HPB106-x	HPB306-x	NO	NO	NO
	Finger Safe UL1953 Listed	NO	NO	<a href="#">EPDB306</a>	NO	NO
1 in 9 out	Open UL1059	NO	NO	NO	NO	NO
	Open UL1953 Listed	NO	HPB309-x	NO	NO	NO
	Finger Safe UL1953 Listed	NO	NO	NO	NO	NO
1 in 12 out	Open UL1059	NO	PB312x	NO	NO	NO
	Open UL1953 Listed	NO	HPB312-x	NO	NO	NO
	Finger Safe UL1953 Listed	NO	NO	NO	NO	NO
2 in 12 out	Open UL1059	NO	NO	NO	PB512x	PB712x
	Open UL1953 Listed	NO	NO	NO	NO	NO
	Finger Safe UL1953 Listed	NO	NO	NO	<a href="#">EPDB512</a>	NO