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)					
EPDB	UL 1953 Listed Power Distribution Blocks	Yes	Yes	Yes	Yes	Yes	Yes	Yes					
HPB	UL 1953 Listed Power Distribution Blocks	No****	Yes	Yes	Yes	Yes	Yes	Yes (with optional cover)					
PB	UL 1059 Recognized Terminal Blocks	No****	Yes	No****	Yes	No****	Yes	No					

[†] IP-20 finger-safe under specific conditions.

^{*****}Exception: Yes, if single pole units installed with proper spacings.

Minimum	Minimum Space Requirements for Equipment											
UL Standard	Pai	etween Live ts of e Polarity	Spacing Between Live Parts and Grounded Parts or Enclosures,									
	Through Air @ 600V	Over Surface @ 600V	Through Air and 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.

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^{*}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.

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 Se	election	Table	
Part Number	Amps	Description	SCCR Rating	Qty	Weight [oz]	Price
PB1011	175 max	1 pole distribution block, 1 in/1 out	200 kA	1	2.8	\$16.00
PB1012	175 max	2 pole distribution block, 1 in/1 out	200 kA	1	4.6	\$23.00
PB1013	175 max	3 pole distribution block, 1 in/1 out	200 kA	1	6.8	\$28.00
PB1041	175 max	1 pole distribution block, 1 in/4 out	200 kA	1	3.1	\$23.50
PB1042	175 max	2 pole distribution block, 1 in/4 out	200 kA	1	5.2	\$36.50
PB1043	175 max	3 pole distribution block, 1 in/4 out	200 kA	1	7.3	\$44.00
PB3061	310 max	1 pole distribution block, 1 in/6 out	200 kA	1	10.9	\$64.00
PB3062	310 max	2 pole distribution block, 1 in/6 out	200 kA	1	19.1	\$76.00
PB3063	310 max	3 pole distribution block, 1 in/6 out	200 kA	1	25.5	\$90.00
PB3121	310 max	1 pole distribution block, 1 in/12 out	200 kA	1	12.7	\$57.00
PB3122	310 max	2 pole distribution block, 1 in/12 out	200 kA	1	21.6	\$93.00
PB3123	310 max	3 pole distribution block, 1 in/12 out	200 kA	1	31.1	\$130.00
PB4011	380 max	1 pole distribution block, 1 in/stud	10 kA	1	11.9	\$44.50
PB4012	380 max	2 pole distribution block, 1 in/stud	10 kA	1	20.7	\$72.00
PB4013	380 max	3 pole distribution block, 1 in/stud	10 kA	1	29.1	\$101.00
PB5121	570 max	1 pole distribution block, 2 in/12 out	10 kA	1	13.8	\$65.00
PB5122	570 max	2 pole distribution block, 2 in/12 out	10 kA	1	24.4	\$104.00
PB5123	570 max	3 pole distribution block, 2 in/12 out	10 kA	1	34.7	\$149.00
PB7121	760 max	1 pole distribution block, 2 in/12 out	10 kA	1	17.0	\$111.00
PB7123	760 max	3 pole distribution block, 2 in/12 out	10 kA	1	44.0	\$185.00

S	afety Covers for Open Power Distribution Blocks Selec	tion	Table	
Part Number	Description	Qty	Weight (oz)	Price
PBC21	Power distribution block cover for 175A open style 1-pole blocks	1	0.3	\$3.50
PBC22	Power distribution block cover for 175A open style 2-pole blocks	1	0.4	\$4.75
PBC23	Power distribution block cover for 175A open style 3-pole blocks	1	0.5	\$5.75
PBC31	Power distribution block cover for 310A, 380A, 570A open style 1-pole blocks, and <u>HPB106-1</u>	1	0.9	\$8.75
PBC32	Power distribution block cover for 310A, 380A, 570A open style 2-pole blocks, and <u>HPB106-2</u>	1	1.3	\$11.00
PBC33	Power distribution block cover for 310A, 380A, 570A open style 3-pole blocks, and $\underline{HPB106-3}$	1	1.6	\$12.50
<u>PBC71</u>	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	\$13.00

Open Style	Power Distribution Block General Specifications
Wire type	75°C* Copper
Voltage	600 VAC or VDC maximum
Mounting	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 Sei	ries Wire	and T	orque Range Speci	fications		
Part		Line				Load		
Number	CU Wire Range	Torque lb·in [N·m]	Trim Length Hex in [mm] Key		CU Wire Range*	Torque lb∙in [N·m]	Trim Length in [mm]	Hex Key, Slot, Stud
PB1011	0/0 / 0 4/4/0				0/04 0 0000			
PB1012	2/0 to 8 AWG 70 to 10 mm ²	110 [12.4]	0.70 [17.8]	3/16"	2/0 to 8 AWG 70 to 10 mm ²	110 [12.4]	0.70 [17.8]	3/16" Hex
PB1013	70 10 11 11111				70 10 10 11111			
PB1041	0/0 / 0 4/4/0				4 to 6 AWG, 25 to 16 mm ²	35 [4.0]	0.470 (44.0)	
PB1042	2/0 to 8 AWG 70 to 10 mm ²	120 [13.6]	0.670 [17.0]	3/16"	8 AWG, 10 mm²	25 [2.8]	0.470 [11.9] top row, 0.780 [19.8] bottom row	Slot
PB1043	70 10 10 11111				10 to 14 AWG, 6 to 2.5 mm ²	20 [2.3]	0.700 [10.0] bottom 10w	
PB3061	0501 "11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				4 to 6 AWG, 25 to 16 mm ²	35 [4.0]	4 00 705 414	
PB3062	350 kcmil to 4 AWG 185 to 25 mm ²	275 [31.1]	0.90 [22.9]	5/16"	8 AWG, 10 mm²	25 [2.8]	1.00 [25.4] top row 0.45 [11.43] bottom row	Slot
PB3063	100 to 20 11111				10 to 12 AWG, 6 to 4 mm ²	20 [2.3]	0.40 [11.40] bottom 10W	
PB3121					4 to 6 AWG, 25 to 16 mm ²	35 [4.0]	0.450 [11.4] top row,	
PB3122	350 kcmil to 4 AWG 185 to 25 mm ²	275 [31.1]	0.90 [22.9]	0.90 [22.9] 5/16" 8 AWG, 10 mm ²		25 [2.8]	0.630 [16.0] middle row,	Slot
PB3123	100 to 20 11111				10 to 14 AWG, 6 to 2.5 mm ²	20 [2.3]	0.920 [23.4] bottom row	
PB4011								
PB4012	500 kcmil to 6 AWG 300 to 16 mm ²	500 [56.5]	_	_	_	_	_	Stud
PB4013	000 to 10 11111							
PB5121								
PB5122	300 kcmil to 4 AWG 185 to 25 mm ²	275 [31.1]	_	_	4 to 14 AWG 25 mm ² to 2.5 mm ²	20 [2.3]	_	_
PB5123	100 to 20 111111				25 111117 to 2.5 1111117			
PB7121	500 kcmil to 6 AWG	בסס נבכ בי			4 to 14 AWG	25 (4.0)		
PB7123	300 to 16 mm ²	500 [56.5]		-	25 mm² to 2.5 mm²	35 [4.0]	_	_

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

				Short-Cir	cuit Curre	nt Ratin	g Data					
			Line	Load	Configuration	Cond	uctors		Maximum	Fuse Class a	nd 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
PB1011	1		0/0 / 0 414/0	0/0/- 0 414/0								
PB1012	2	175A	2/0 to 8 AWG 70 to 10 mm ²	2/0 to 8 AWG 70 to 10 mm ²	1/1	2/0 to 8	2/0 to 8	200	200	200	60	200 kA
PB1013	3		70 10 10 11111	70 10 10 11111								
PB1041	1		0/0 / 0 414/0				4 to 12	200	200	200	60	200 kA
PB1042	2	175A	2/0 to 8 AWG 70 to 10 mm ²	4 to 14 AWG 25 to 2.5 mm ²	1/4	2/0 to 8	1 += 11	175	175	100	60	100 kA
PB1043	3		70 (0 10 11111				4 to 14	200	200	100	60	50 kA
PB3061	1		350 kcmil to 4	4 to 12 AWG			4 to 8	400	400	200	100	200 kA
PB3062	2	310A	AWG	25 to 4 mm ²	1/6	350 to 4	4 10 8	400	400	400	100	100 kA
PB3063	3		185 to 25 mm ²				4 to 12	175	175	100	60	100 kA
PB3121	1		350 kcmil to 4	4 to 14 AWG 25 to 2.5 mm ²	1/12	350 to 4	4 to 8	400	400	200	100	200 kA
PB3122	2	310A	AWG				41.44	175	175	100	60	100 kA
PB3123	3		185 to 25 mm ²	25 (0 2.5 11111			4 to 14	175	175	100	60	100 kA
PB4011	1		500 kcmil to 6	One	One	500	One	***	***	***	***	
PB4012	2	380A	AWG	3/8" - 16 x 1	3/8" - 16 x 1	500 to 0	3/8" -	***	***	***	***	10 kA
PB4013	3		240 to 16 mm ²	stud	stud	500 to 6	16 x 1 stud	***	***	***	***	1
PB5121	1		300 kcmil to 4			200	41:44	***	***	***	***	
PB5122	2	570A	AWG	4 to 14 AWG 25 to 2.5 mm ²	2/12	300	4 to 14	***	***	***	***	10 kA
PB5123	3		150 to 25 mm ²	23 10 2.3 111111		300 to 4	4 to 14	***	***	***	***	1
PB7121	1		500 kcmil to 6	4 to 14 AWG				***	***	***	***	
PB7123	3	760A	AWG 240 to 16 mm ²	25 to 2.5 mm ²	2/12	500 to 6	4 to 14	***	***	***	***	10 kA

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

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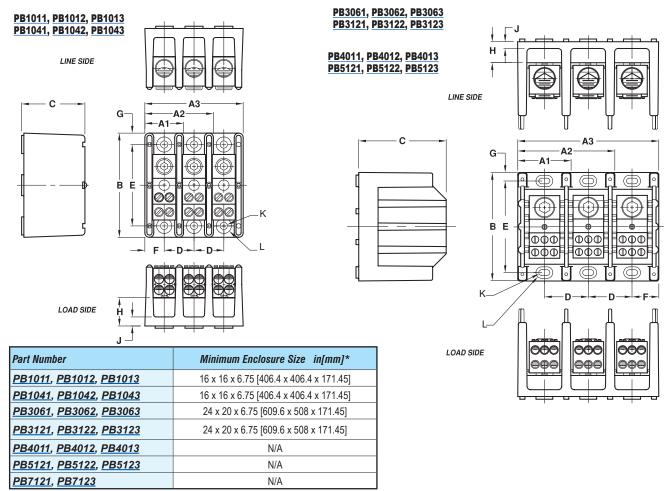
^{**}Class G 60A or less or Class CC 30A or less fuses are suitable for all SCCRs in this table.

^{***}Not High SCCR rated. Refer to UL508A Table SB4.1.

PB Series Edison Open-Style Terminal Blocks Dimensions

		Ed	ison C	pen-S	tyle P	ower	Distrib	ution	Blocks	Dime	ension	S								
Part Number		Width		Length	Height															
Part Number	A1	A2	A3	В	С	D	E	F	G	Н	J	K	L							
PB1011																				
PB1012								0.53	0.31	0.84	0.31	0.20								
PB1013	1.06	1.88	2.60	2.85	1.75	0.81	2.25						0.42							
PB1041	[26.92]	[47.75]	[66.04]	[72.39]	[44.45]	[20.57]	[57.15]	[13.46]	[7.87]	[21.34]	[7.87]	[5.08]	[10.67]							
PB1042																				
PB1043																				
PB3061																				
PB3062																				
PB3063																				
PB3121																				
PB3122												Slot	Slot							
PB3123	1.96	3.58	5.20	4.0	3.32	1.62	3.37	0.985	0.310	0.780	0.250	0.20 [5.08] (w)	0.42 [10.67] (w)							
PB4011	[49.78]	[90.93]	[132.08]	[101.60]	[84.33]	[41.15]	[85.60]	[25.02]	[7.87]	[19.81]	[6.35]	X 0 44 (40 441 (1)	X 0.00 (4.5.751.(1)							
PB4012												0.41 [10.41] (I)	0.62 [15.75] (I)							
PB4013																				
<u>PB5121</u>																				
PB5122																				
PB5123																				

Note: Dimensions are in inches [millimeters]

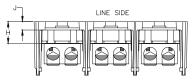


*Note: Terminal block SCCR determined based on testing in minimum-size enclosure

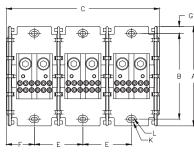
PB Series Edison Open-Style Terminal Blocks Dimensions

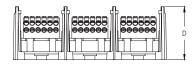
	Edison Open-Style Power Distribution Blocks Dimensions												
	Width Length Height												
Part Number	А	В	C1	C2	СЗ	D	E	F	G	Н	J	К	L
<u>PB7121</u>	5.5	4.75	3.10	5.79	8.48	2.93	2.69	1.55	0.38	1.19	0.44	Slot: 0.20 [5.08] (w)	Slot: 0.41 [10.41](w)
PB7123	[139.7]	[120.7]	[78.74]	[147.1]	[215.39]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

Note: Dimensions are in inches [millimeters]



PB7121, PB7123





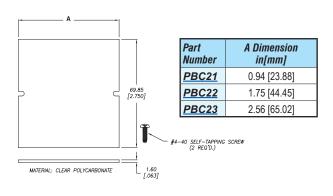
LOAD SIDE

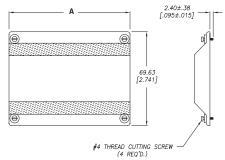
Covers

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

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

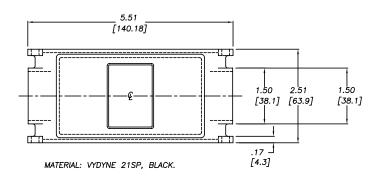
PB4011, PB4012, PB4013 PB5121, PB5122, PB5123

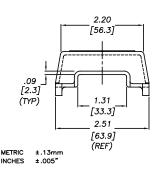




Part Number	A Dimension in[mm]
PBC31	2.10 [53.34]
PBC32	3.72 [94.49]
PBC33	5.34 [135.64]







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Edison Open-Style Power Distribution Blocks Quick Reference

	Edison Pow	er Distribution B	locks Quick	Reference		
Openings per pole	Туре	175 amps	310 amps	380 amps	570 amps	760 amps
	Open UL1059	PB101x	NO	NO	NO	NO
1 in 1 out	Open UL1953 Listed	HPB101-x	HPB101-x	NO	NO	NO
Tout	Finger Safe UL1953 Listed	EPDB101	EPDB301	NO	NO	NO
	Open UL1059	NO	NO	PB401x	NO	NO
1 in 1 stud out	Open UL1953 Listed	HPB10S-x	NO	NO	NO	NO
1 Stad Out	Finger Safe UL1953 Listed	NO	NO	NO	NO	NO
	Open UL1059	NO	NO	NO	NO	NO
2 in 2 out	Open UL1953 Listed	NO	NO	NO	NO	NO
2 Out	Finger Safe UL1953 Listed	NO	NO	NO	NO	EPDB702
	Open UL1059	PB104x	NO	NO	NO	NO
1 in 4 out	Open UL1953 Listed	HPB104-x	HPB104-x	NO	NO	NO
4 Out	Finger Safe UL1953 Listed	EPDB104	NO	NO	NO	NO
	Open UL1059	NO	PB306x	NO	NO	NO
1 in 6 out	Open UL1953 Listed	HPB106-x	HPB306-x	NO	NO	NO
o out	Finger Safe UL1953 Listed	NO	NO	EPDB306	NO	NO
	Open UL1059	NO	NO	NO	NO	NO
1 in 9 out	Open UL1953 Listed	NO	HPB309-x	NO	NO	NO
3 Out	Finger Safe UL1953 Listed	NO	NO	NO	NO	NO
	Open UL1059	NO	PB312x	NO	NO	NO
1 in 12 out	Open UL1953 Listed	NO	HPB312-x	NO	NO	NO
12 Jul	Finger Safe UL1953 Listed	NO	NO	NO	NO	NO
	Open UL1059	NO	NO	NO	PB512x	PB712x
2 in 12 out	Open UL1953 Listed	NO	NO	NO	NO	NO
12 Jul	Finger Safe UL1953 Listed	NO	NO	NO	EPDB512	NO

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