

# Power Splicer/Stud Blocks

## 600 Volts AC/DC Up to 1000 Volts AC/DC (CE)<sup>+</sup>

### Specifications:

- Connector, High Conductive Aluminum, Tin Plated, Rated for Copper and Aluminum Wire
- Stud, Brass, Tin Plated, Metric (M) Studs, Steel - intended for wires terminated with crimp lugs
- Amp Rating Based on NEC Table 310-16 Using 75°C Copper Wire
- UL Recognized File No. XCFR2.E62806
- CSA Certified File No. LR19766
- CE (does not apply to 133X559, 133X558, and 143X559)
- Flexible Stranded Wire Compliant
- RoHS Compliant
- **For detailed SCCR information with fuses and circuit breakers, please refer to datasheets on [www.marathonsp.com](http://www.marathonsp.com)**

+ Refer to [www.marathonsp.com/PDFs/1000VCERating.pdf](http://www.marathonsp.com/PDFs/1000VCERating.pdf) for details on availability of CE voltage ratings greater than 600 Volts



1433559



1453599

\*\* Openings rated for #4-14 AWG are multiple wire rated:  
(2) #10 CU Str, (2 to 4) #12 CU Str, and (2 to 4) #14 CU Str.

\*\*\* Openings rated for #2-14 AWG are multiple wire rated:  
(2) #8 CU Str, (2) #10 CU Str, (2) #12 CU Str, and (2) #14 CU Str.

Replace "X" with # of poles (0 = Adder)

Catalog #	Hinge Cover	Poles (X)	Amps	MATERIAL		LINE SIDE			LOAD SIDE		
				Insulator	Conn.	Wire Range AWG/kcmil	Openings Per Pole	Connector Configuration	Wire Range AWG/kcmil	Openings Per Pole	Connector Configuration
141X203		1/2/3/4	115	Plastic	AL	#2 - #14 AWG	1		10-32 X .60 Stud	1	
132X574	CH	0/1/2/3	175	Plastic	AL	2/0 - #14 AWG	1		1/4-20 x 1/2	1	
132X474	CH	0/1/2/3	175	Plastic	AL	2/0 - #14 AWG	1		M6 x 13	1	
142X574		1/2/3	175	Phenolic	AL	2/0 - #14 AWG	1		1/4-20 x 1/2	1	
143X590		1/2/3	175	Phenolic	AL	2/0 - #14 AWG	1		1/4-20 x 1 3/8	1	
143X559		1/2/3	310	Phenolic	AL	350 kcmil - #6 AWG	1		3/8-16 x 11/8 Stud	1	
133X559	CH	1/2/3	310	Plastic	AL	350 kcmil - #6 AWG	1		3/8-16 x 1 1/4	1	
133X558	CH	1/2/3	310	Plastic	AL	350 kcmil - #6 AWG	1		M10 x 30	1	
144X569		1/2/3	380	Phenolic	AL	500 kcmil - #4 AWG	1		1/4-20 x 1 1/16	2	
144X575		1/2/3	380	Phenolic	AL	500 kcmil - #4 AWG	1		3/8 - 16 x 1 5/16	1	
145X596		1/2/3	545	Phenolic	AL	1000 kcmil - 500 kcmil	1		3/8 - 16 x 1 3/16	2	
145X599		1/2/3	760	Phenolic	AL	500 kcmil - #4 AWG	2		3/8 - 16 x 1 5/16	2	
145X610		1/2/3	760	Phenolic	AL	500 kcmil - #4 AWG	2		1/2-13 x 1 5/16	1	

CH = Block is also available with hinge cover attached - include "CH" at end of part number when ordering (not available on Adder blocks) - See page 55 for available covers

See pages 52-54 for dimensional information

# Power Terminal Blocks

## General Information:

Barrier Style Power Terminal Blocks are available in eight sizes. They are identified by the first three digits of the catalog number. The 140, 142, 143, 144 and 145 series are manufactured with general purpose phenolic rated at 150°C. The 141, 132 and 133 series are manufactured with high impact thermoplastic rated at 125°C.

Enclosed touch proof power terminal blocks (EPB series) are available in three sizes (one listed, two recognized).

## Connector Wire Hole Size:

Conductor Opening		Diameter of Opening	
English	Metric	Inch	Metric
#10 AWG	6	.158"	4.0
#4 AWG	25	.250"	6.4
#2 AWG	35	.352**	7.9
1/0	50	.406"	10.3
2/0	70	.438**	11.1
3/0	95	.532"	13.5
250 kcmil	120	.630**	16.0
350 kcmil	185	.718"	18.2
400 kcmil	-	.769**	-
500 kcmil	240	.875"	22.2
600 kcmil	300	.938"	23.8
750 kcmil	-	1.125"	-
1000 kcmil	-	1.250"	-

\* Enclosed blocks have larger openings (see page 39)

## Ratings and Standards:

The voltage ratings of terminal blocks are based upon the minimum spacing between electrically conductive parts line to line through air and over surface and line to ground through air and over surface.

### Class A

Service equipment including deadfront switchboards, panel boards, service entrance devices.

### Class B

Commercial appliances including business equipment, electronic data processing equipment and the like.

### Class C

General industrial and machine tool controls which can be further defined as equipment falling under UL 508. Ratings based on UL 1059 may be higher in some cases depending on application.

## Spacing Requirements\*:

	Voltage	Thru Air	Over Surface
Class A	51-150	.500	.750
	151-300	.750	1.250
	301-600	1.000	2.000
Class B	51-150	.063	.063
	151-300	.094	.094
	301-600	.375	.500
Class C	51-150	.125	.250
	151-300	.250	.375
	301-600	.375	.500

\*In Inches

## Applications:

Designed for use with solar, wind, alternate energy, transportation, heating, air conditioning and refrigeration, elevator systems, material handling equipment, control panels, motor control, switchgear and any area where power needs to be distributed to more than one load.

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