

## Series A3000, LP3000 & CB3000

### Single Row Terminal Blocks

#### SPECIFICATIONS

**Rating:** A3: 30A, 600V\* #12-22 AWG  
 LP3: 30A, 150V #12-22 AWG  
 CB3: 30A, 600V #12-22 AWG

**Wire Range:** #12-22 AWG CU

**Center Spacing:** .437" or 7/16" (11.10 mm)

**Screw Size:** #6-32 zinc plated phillips screws.

**Torque Rating:** 9 in-lb.

**Base:** Standoffs standard for easy flux washing.

**Distance Between Barriers:** .32" (8.1 mm)

**Recommended PCB Hole Diameter:** .076" (1.93 mm)

**Operating Temperature:** 105°C (221°F) max., -40°C (-40°F) min.

**Molded Material:** Black, UL Rated 94V0 Thermoplastic

**Breakdown Voltage:** 3500V (A3 & LP3); 8200V (CB3)

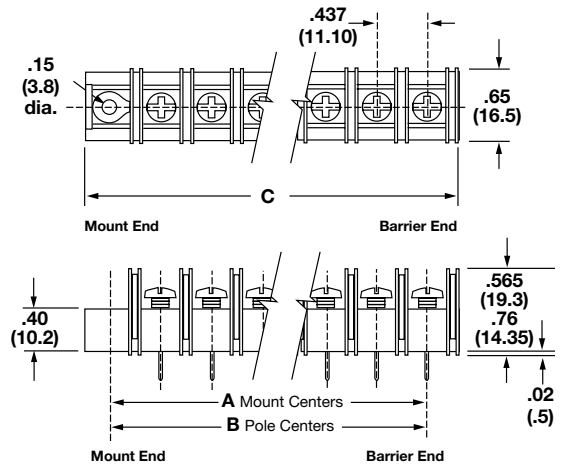
**Agency Information:** UL/CSA; IEC Compliance, CE Certified

A31940707WR

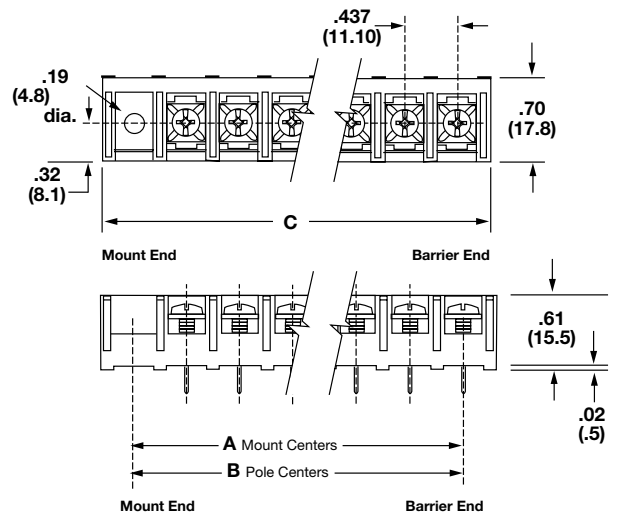
LP301105

CB31420807

#### A3000 & LP3000 Series



#### CB3000 Series



\*30A Rating achieved with a #10 copper wire crimped to a ring terminal;  
 20 Rating without ring terminal.

Poles	MOUNTING ENDS ONLY		BARRIER & MOUNTING ENDS Pole Ctrs.	BARRIER ENDS ONLY C Length
	A Mount Ctrs.	C Length		
02	1.31	1.73	.43	.98
03	1.75	2.17	.87	1.43
04	2.18	2.61	1.31	1.87
05	2.62	3.05	1.75	2.31
06	3.06	3.48	2.18	2.75
07	3.50	3.92	2.62	3.18
08	3.93	4.36	3.06	3.62
09	4.37	4.80	3.50	4.06
10	4.81	5.23	3.93	4.50
11	5.25	5.67	4.37	4.93
12	5.68	6.11	4.81	5.37
13	6.12	6.55	5.25	5.81
14	6.56	6.98	5.68	6.25
15	7.00	7.42	6.12	6.68
16	7.43	7.86	6.56	7.12
17	7.87	8.30	7.00	7.56
18	8.31	8.73	7.43	8.00
19	8.75	9.17	7.87	8.43
20	9.18	9.60	8.31	8.87
21	9.62	10.05	8.50	9.31
22	10.06	10.48	9.18	9.75
23	10.50	10.92	9.62	10.18
24	10.93	11.36	10.06	10.62
25	11.37	11.80	10.50	11.06
26	11.81	12.23	10.93	11.50
27			11.37	11.93
28			11.81	12.37

Dimensions in inches. To convert to millimeters, multiply by 25.4.

# Series A3000 & LP3000

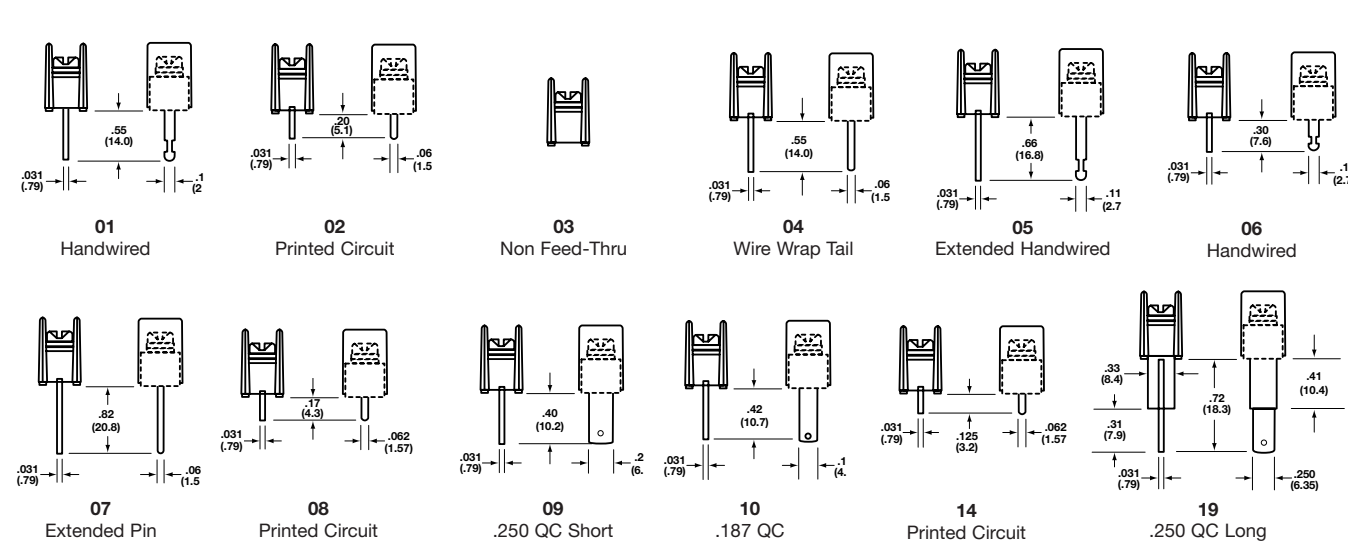
## Single Row Terminal Blocks

### Part Numbering System

Series	Terminal Style	Base/End (Views pg. 15)	Poles	Screw Options	Options
<b>A3</b>					
<b>LP3</b>					
<b>A3</b> - standard barrier <b>LP3</b> - low profile barrier	<b>01</b> - handwired <b>02</b> - printed circuit <b>03</b> - non feed-thru <b>04</b> - wire wrap tail <b>05</b> - extended handwired <b>06</b> - handwired <b>07</b> - extended pin <b>08</b> - printed circuit <b>09</b> - .250 QC short <b>10</b> - .187 QC <b>14</b> - printed circuit <b>19</b> - .250 QC long	<b>1</b> - flat base/mnt. end <b>2</b> - flat base/barrier end <b>3</b> - insulator base/mnt. end <b>4</b> - insulator base/barrier end <b>5</b> - closed base/mount end	<b>02 to 28</b> <b>02 to 26</b> on mount end base	Blank - std. screw <b>00</b> - screws shipped bulk <b>03</b> - stainless steel <b>04</b> - brass nickel plated <b>07</b> - steel SEMS zinc plated (not available with hardware options) <b>09</b> - brass SEMS nickel plated (not available with hardware options) <b>03CA</b> - stainless steel captive <b>04CA</b> - brass captive <b>07CA</b> - SEMS captive <b>09CA</b> - brass SEMS captive <b>07WR</b> - steel SEMS wire ready (A3 only)	<b>AB</b> - angle mnt. options (pg 15) <b>A1 to A9</b> - .250" QC <b>B1 to B9</b> - .187" QC <b>DR</b> - drilled right angle (pg 15) <b>J201</b> - flat slip-on jumper <b>L1 to L6</b> marking options (pg 22) <b>MP, MP8 &amp; MT</b> mounting plates (pg 15) <b>OJ3, OJ5 &amp; OJ7</b> - over barrier jumpers <b>RC</b> - retaining clips (pg 15) <b>R30 to R77</b> - right angle bends (pg 15) <b>SO</b> - stand off insulators (pg 15) <b>S1</b> - solder lug/flat <b>Covers</b> - (pg 23)

Base/End Note: 5 Style only available with 03 terminals.

### Terminal Styles



### Screw Options



## Series A3000 & LP3000

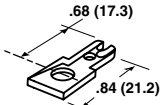
### Single Row Terminal Blocks *Continued*

#### Hardware Options

(Bulk ordering part numbers are in parentheses.)

Inches (Millimeters)

##### Solder Lugs



**S1**  
(2S1)



**J201**  
Flat slip-on

##### Jumpers



**OJ3**



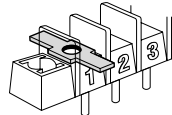
**OJ7**  
LP3 Only



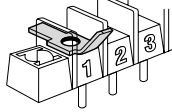
**OJ5**

##### Quick Connects

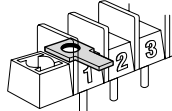
Blade Width A = .250" Blade Width B = .187"



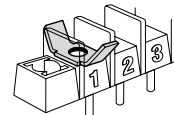
**A1 & B1**  
(2A1 & 2B1)



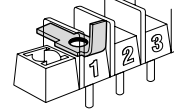
**A4 & B4**  
(2A4 & 2B4)



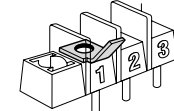
**A7 & B7**  
(2A7 & 2B7)



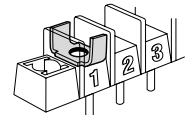
**A2 & B2**  
(2A2 & 2B2)



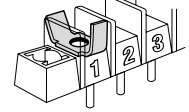
**A5 & B5**  
(2A5 & 2B5)



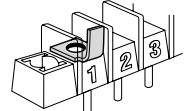
**A8 & B8**  
(2A8 & 2B8)



**A3 & B3**  
(2A3 & 2B3)

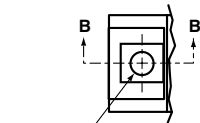


**A6 & B6**  
(2A6 & 2B6)

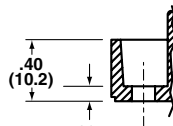


**A9 & B9**  
(2A9 & 2B9)

#### Base/End Options



.150 dia. (3.8)  
mounting holes (2)



SECTION B-B

1, 3 & 5 Mount End

## Series A3000 & LP3000

### Single Row Terminal Blocks *Continued*

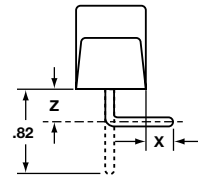
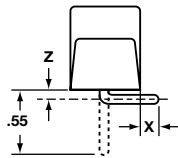
## Mounting Options

### Right Angle Bends (A3, LP3 only)

Right angle terminals are offered on the A3000 & LP3000 Series. Configurations are defined in these dimensions: X = pin extension beyond the block base; Z = length from block base to centerline of the terminal tip. Standard bends consist of the X and Z dimensions shown in the chart. Specify by adding the selected Bend Option Code to the terminal part no.

### 07 Terminal Bend Configurations

### 04 Terminal Bend Configurations

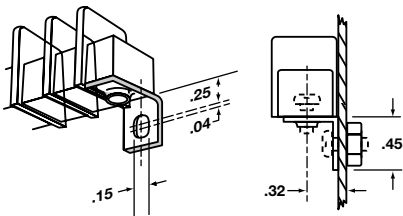


Bend Option Code	X (minimum)	Z	Available w/insulator base
R30	-.04	.28	No
R35	.01	.23	No
R36	.02	.22	No
R39	.05	.19	No
R42	.08	.16	No
R46	.12	.12	No
R48	.14	.10	No
R50	.16	.08	No

Bend Option Code	X (minimum)	Z	Available w/insulator base
R30	-.04	.55	Yes
R35	.01	.50	Yes
R36	.02	.49	Yes
R50	.16	.35	No
R53	.19	.32	No
R66	.32	.19	No
R69	.35	.16	No
R75	.41	.10	No
R77	.43	.08	No

Dimensions in inches. To convert to millimeters, multiply by 25.4.

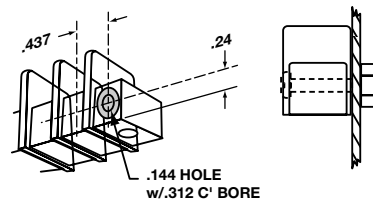
### Angle Brackets (A3, LP3 only)



#### Option AB

Angle brackets enable block to be fastened at right angles to normal mount position. Bulk part no. **2AB**.

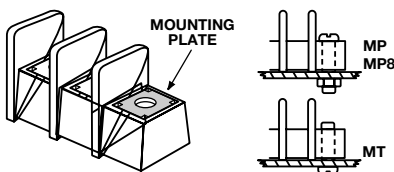
### Drilled Right Angle (A3, LP3 only)



#### Option DR

Counterbored holes across mount ends of block enable fastening with two screws at right angles to normal mount position.

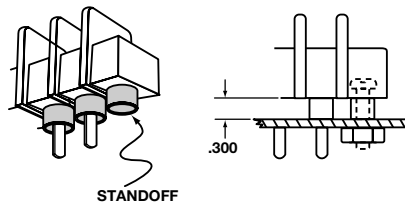
### Mounting Plates



#### Options MP, MP8 & MT

**MP** Metal inserts with .150" dia. hole accept #6 screw. **MP8** Metal inserts with .187" dia. hole accept #8-32 screw. **MT** Metal inserts with tapped hole accept #6-32 screw.

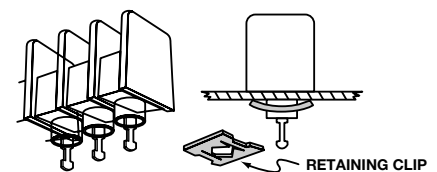
### Standoffs



#### Option SO

Standoff mounts are tubes molded to the mounting positions. Available with insulator bases only.

### Retaining Clip



#### Option RC

Use on standoff tubes. Fit panels up to .125" thick. Two clips for every five positions. Supplied unassembled. Bulk Part No. **H541**.

## Series CB3000

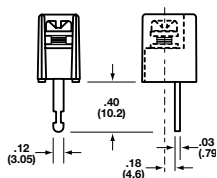
### Single Row Terminal Blocks

#### Part Numbering System

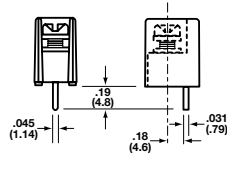
Series	Terminal Style	Base/End	Poles	Screws	Options
<b>C</b> <b>B</b> <b>3</b>					
<b>CB3</b> - closed back	<b>01</b> - handwired #6-32 screw <b>02</b> - printed circuit #6-32 screw <b>03</b> - non feed-thru #6-32 screw <b>07</b> - extended pin #6-32 screw <b>14</b> - printed circuit #6-32 screw <b>51</b> - handwired #8-32* <b>52</b> - printed circuit #8-32* <b>53</b> - non feed-thru #8-32* <b>57</b> - extended pin #8-32* <b>64</b> - printed circuit #8-32*	<b>1</b> - mount end <b>2</b> - barrier end <b>5</b> - closed base/ mount end	<b>02 to 28</b> <b>02 to 26</b> on mount end base	<b>07</b> - steel SEMS <b>09</b> - brass SEMS nickel plated <b>07CA</b> - SEMS captive	<b>AB</b> - angle mounting brackets (pg 17) <b>A7 to A9</b> - .250" QC <b>B7 to B9</b> - .187" QC <b>EB</b> - exit back terminals <b>L1 to L6</b> marking options (pg 22) <b>LT1 to LT6</b> marking options (pg 22) <b>OJ3 &amp; OJ7</b> - over barrier jumpers <b>MP, MP8, MT &amp; MT8</b> mtg. plates (pg 17) <b>S1</b> - solder lug/flat <b>Covers</b> - (pg 23)
	*Note: #8-32 screw is a special with #6-32 head.	Base/End Note: 5 Style only available with 03 terminals.			

#### Terminal Styles

Inches (Millimeters)



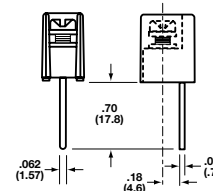
**01**  
Handwired #6-32 screw  
**51**  
#8-32 screw



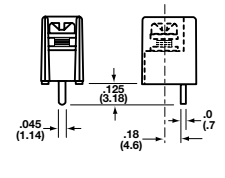
**02**  
Printed Circuit #6-32 screw  
**52**  
#8-32 screw



**03**  
Non Feed-Thru #6-32 screw  
**53**  
#8-32 screw  
Available on Mount End (5) only.



**07**  
Extended Pin #6-32 screw  
**57**  
#8-32 screw



**14**  
Printed Circuit #6-32 screw  
**64**  
#8-32 screw

#### Screw Options



**07**  
Steel SEMS  
Zinc Plated

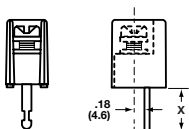


**09**  
Brass SEMS  
Nickel Plated

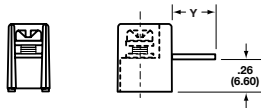
\* NOTE: Wire ready screws standard on all terminal styles.

#### CB3 Terminal Exit Options

Inches (Millimeters)



Exit Rear (std.)



**EB**  
Exit Back

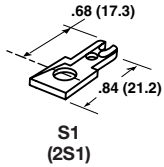
## Series CB3000

### Single Row Terminal Blocks

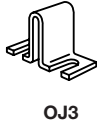
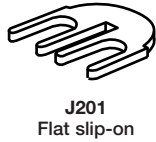
## Hardware Options (Bulk ordering part numbers are in parentheses.)

Inches (Millimeters)

#### Solder Lugs

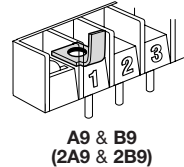
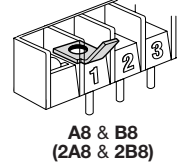
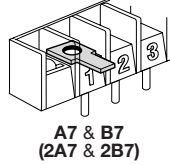


#### Jumpers



#### Quick Connects

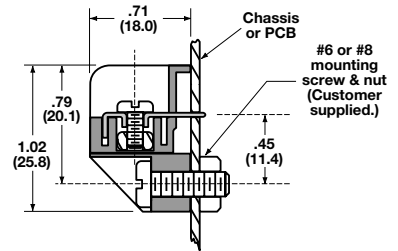
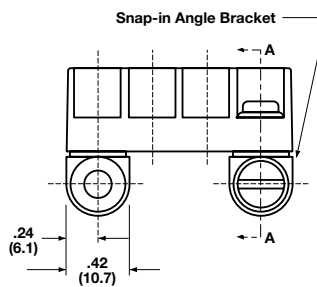
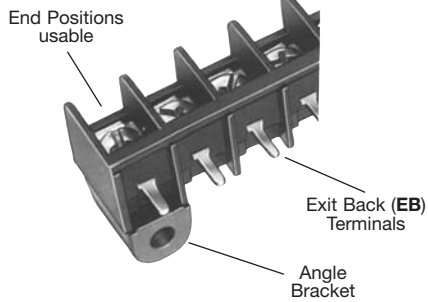
Blade Width A = .250". Blade Width B = .187".



## Mounting Options

Inches (Millimeters)

#### Right Angle Mounting Bracket

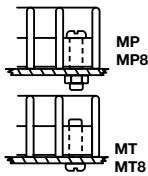
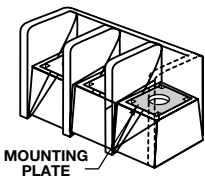


Option AB

#### Mounts blocks on PC boards at a right angle.

- Protects solder joints.
- Recommended for all EB (Exit Back) PCB terminal blocks.
- Bracket snaps securely on block (no hardware required).
- Minimum strip length (end positions are usable).
- Mount with #6-32 or #8-32 screws (not supplied).

#### Mounting Plates



#### Options MP, MP8, MT & MT8

**MP** Metal inserts with .150" dia. hole accept #6 screw.

**MP8** Metal inserts with .187" dia. hole accept #8-32 screw.

**MT** Metal inserts with tapped hole accept #6-32 screw.

**MT8** Metal inserts with tapped hole accept #8-32 screw.