

**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:** 0.437" or 7/16" (11.10mm)

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

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

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

**Distance Between Barriers:** 0.32" (8.1mm)

**Recommended PCB Hole Diameter:** 0.076" (1.93mm)

**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 File E62622, CSA 47235;

IEC Compliance, CE Certified

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

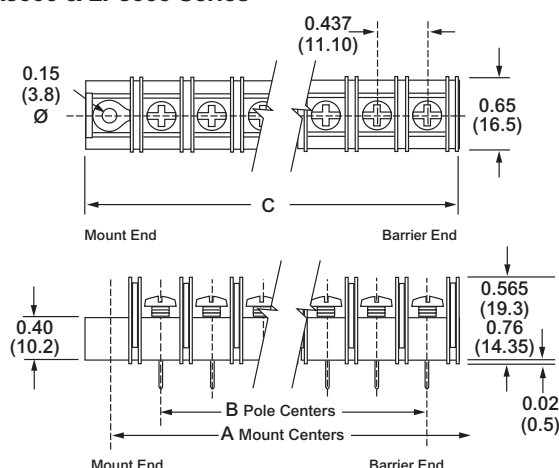
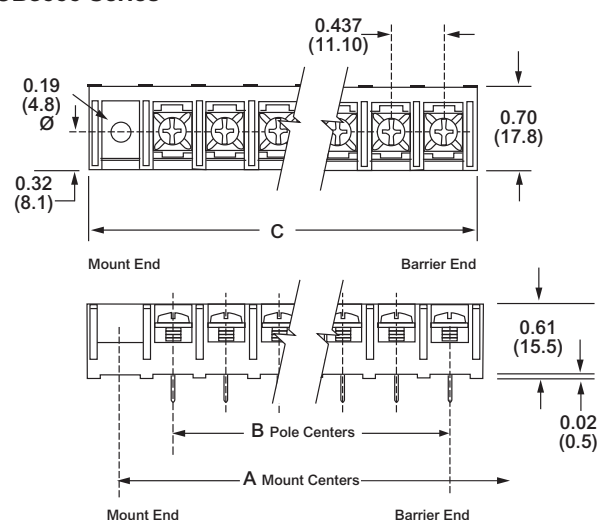
| Poles | MOUNTING ENDS ONLY |          | BARRIER & MOUNTING ENDS<br>B Pole Ctrs. | BARRIER ENDS ONLY<br>C Length |
|-------|--------------------|----------|-----------------------------------------|-------------------------------|
|       | A Mount Ctrs.      | C Length |                                         |                               |
| 02    | 1.31               | 1.73     | 0.43                                    | 0.98                          |
| 03    | 1.75               | 2.17     | 0.87                                    | 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.

A31940707WR

LP301105

CB30220807

**Dimensions - in (mm)****A3000 & LP3000 Series****CB3000 Series**

## Series A3000

## Single Row Terminal Blocks

## Part Numbering System

| Series                       | Terminal Style                                                                                                                                                                                                                                                   | Base/End<br>(Views pg. 15)                                                                                                                                                                 | Poles                                                | Screw Options                                                                                                                                                                                                                                                                                                                                                    | Options                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>A</b> <b>3</b>            |                                                                                                                                                                                                                                                                  |                                                                                                                                                                                            |                                                      |                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>A3</b> - standard barrier | <b>01</b> - handwired<br><b>02</b> - printed circuit<br><b>03</b> - non feed-thru<br><b>04</b> - wire wrap tail<br><b>05</b> - extended handwired<br><b>07</b> - extended pin<br><b>09</b> - 0.250 QC short<br><b>10</b> - 0.187 QC<br><b>19</b> - 0.250 QC long | <b>1</b> - std. base/mount end<br><b>2</b> - std. base/barrier end<br><b>3*</b> - insulator base/mount end<br><b>4*</b> - insulator base/barrier end<br><b>5**</b> - closed base/mount end | <b>02 to 28</b><br><b>02 to 26</b> on mount end base | Blank - std. screw<br><b>00</b> - screws shipped bulk<br><b>03</b> - stainless steel<br><b>04</b> - brass nickel-plated<br><b>07</b> - steel SEMS zinc-plated (not available with hardware options)<br><b>09</b> - brass SEMS nickel-plated (not available with hardware options)<br><b>07WR</b> - steel SEMS wire ready (A3 only)<br><b>CA†</b> - captive screw | <b>AB</b> - angle mnt. options (pg 20)<br><b>A1 to A9</b> - 0.250" QC<br><b>B1 to B9</b> - 0.187" QC<br><b>L1 to L6</b> marking options (pg 27)<br><b>MP, MT</b> mounting plates (pg 20)<br><b>RC</b> - retaining clips (pg 20)<br><b>R30 to R77</b> - right angle bends (pg 20)<br><b>S1</b> - solder lug/flat<br><b>J201***</b> - flat slip-on jumper<br><b>OJ3***, OJ5*** &amp; OJ7***</b> - over barrier jumpers<br><br><b>Covers</b> - (pg 28) |

\*Base/End Styles 3 and 4 not available with 02, 03, and 09 terminals.

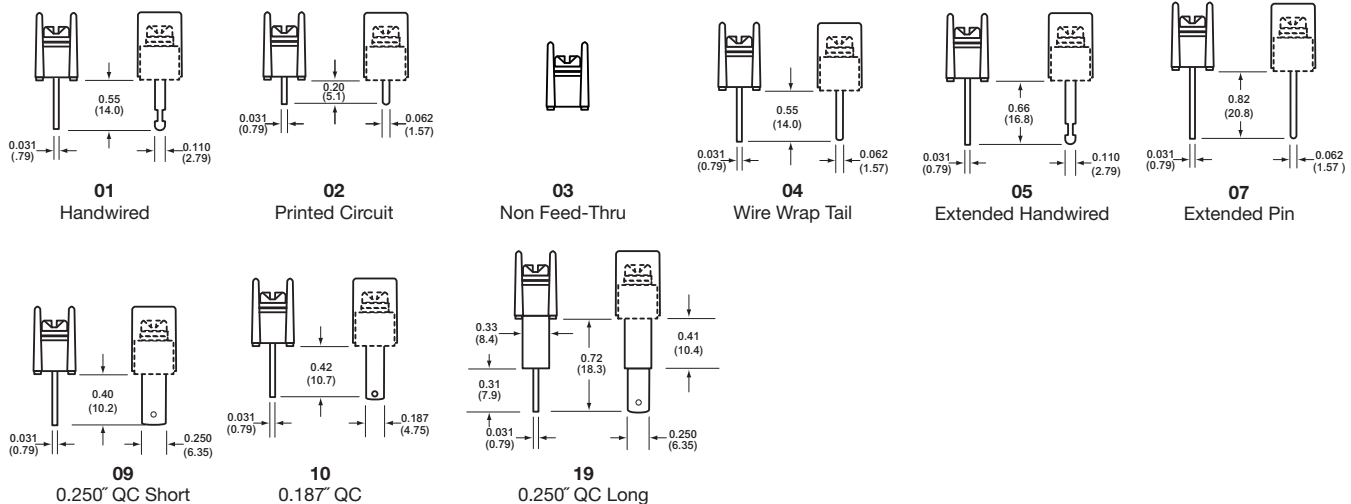
\*\*Base/End Note: 5 Style only available with 03 terminals.

\*\*\*Contact factory for configuration.

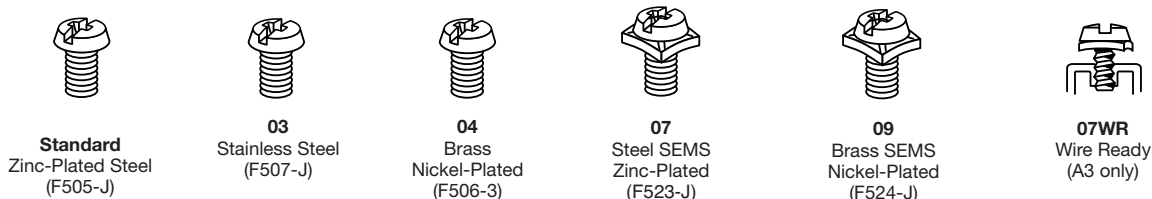
†Not compatible with 03 stainless steel screw option.

## Terminal Styles

Inches (Millimeters)



## Screw Options (Bulk ordering part numbers are in parentheses)



## Series LP3000

## Single Row Terminal Blocks

## Part Numbering System

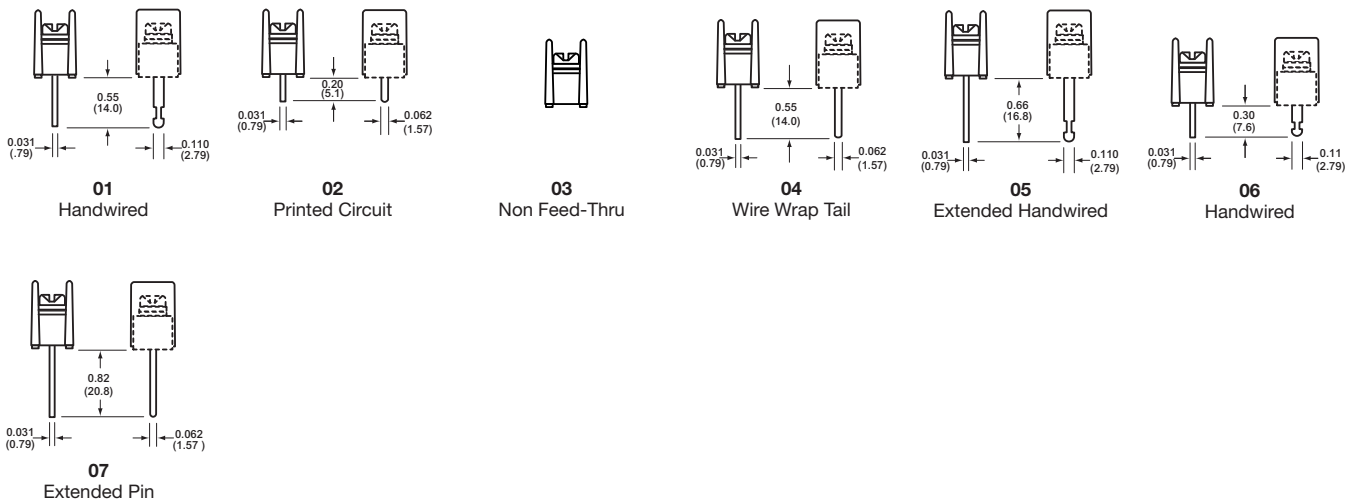
| Series                           | Terminal Style                                                                                                                                                                                         | Base/End<br>(Views pg. 15)                                                                                                                                                                 | Poles                                                | Screw Options                                                                                                                                                                                                       | Options                                                                                                                                                                                                                                                                                                                     |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>L P 3</b>                     |                                                                                                                                                                                                        |                                                                                                                                                                                            |                                                      |                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                             |
| <b>LP3</b> - low profile barrier | <b>01</b> - handwired<br><b>02</b> - printed circuit<br><b>03</b> - non feed-thru<br><b>04</b> - wire wrap tail<br><b>05</b> - extended handwired<br><b>06</b> - handwired<br><b>07</b> - extended pin | <b>1</b> - std. base/mount end<br><b>2</b> - std. base/barrier end<br><b>3*</b> - insulator base/mount end<br><b>4*</b> - insulator base/barrier end<br><b>5**</b> - closed base/mount end | <b>02 to 28</b><br><b>02 to 26</b> on mount end base | <b>00</b> - std. screw<br><b>04</b> - brass nickel-plated<br><b>07</b> - steel SEMS zinc-plated (not available with hardware options)<br><b>07WR</b> - steel SEMS wire ready (A3 only)<br><b>CA</b> - captive screw | <b>A1 to A9</b> - 0.250" QC<br><b>B1 to B9</b> - 0.187" QC<br><b>L1 to L6</b> marking options (pg 27)<br><b>MP</b> mounting plates (pg 20)<br><b>R30 to R77</b> - right angle bends (pg 20)<br><b>J201***</b> - flat slip-on jumper<br><b>OJ3***, OJ5*** &amp; OJ7***</b> - over barrier jumpers<br><b>Covers</b> - (pg 28) |

\*Base/End Style 3 and 4 only available with 01 and 05 terminals

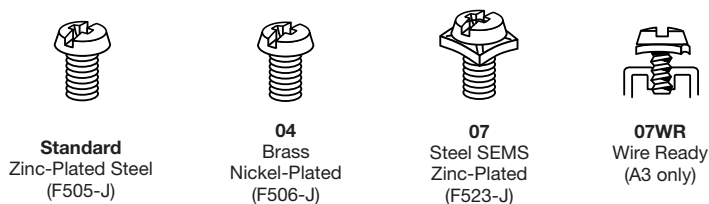
\*\*Base/End Style 5 only available with 03 terminals.

\*\*\*Contact factory for configuration.

## Terminal Styles



## Screw Options (Bulk ordering part numbers are in parentheses)

Standard  
Zinc-Plated Steel  
(F505-J)04  
Brass  
Nickel-Plated  
(F506-J)07  
Steel SEMS  
Zinc-Plated  
(F523-J)07WR  
Wire Ready  
(A3 only)

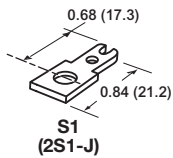
## Series A3000 & LP3000

### Single Row Terminal Blocks *Continued*

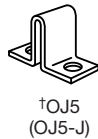
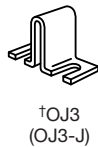
#### Hardware Options (Bulk ordering part numbers are in parentheses)

Inches (Millimeters)

##### Solder Lugs\*

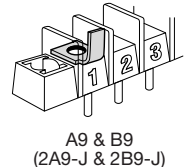
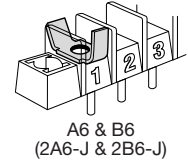
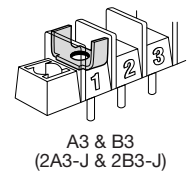
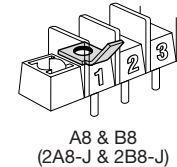
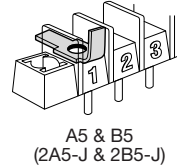
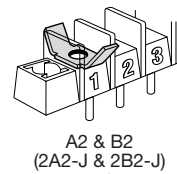
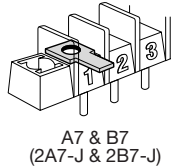
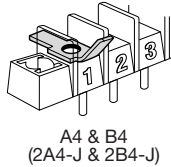
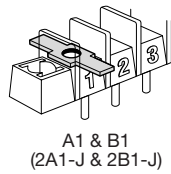


##### Jumpers



##### Quick Connects

Blade Width A = 0.250" Blade Width B = 0.187"

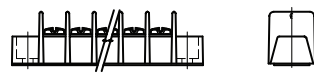
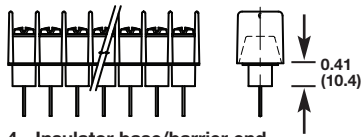
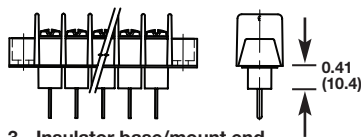
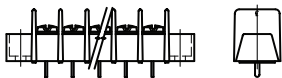


\*A3 only

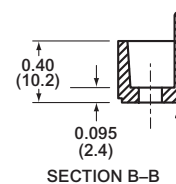
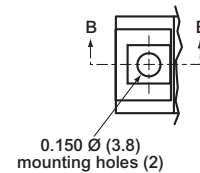
†Contact factory for pole configuration.

#### Base/End Options

Inches (Millimeters)



##### Mount End Details



1, 3 & 5 Mount End

Terminal Blocks:  
Single & Double Row

EuroMag Series

Terminal Blocks:  
Panel & Rail Mount

Power Distribution  
Blocks

Wire Management  
Products

Edge Connectors,  
One-Sided Boards

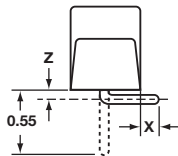
Compliance  
References

**Series A3000 & LP3000**Single Row Terminal Blocks *Continued***Mounting Options**

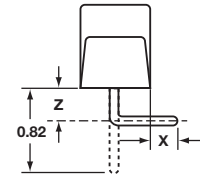
Inches (Millimeters)

**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 number.

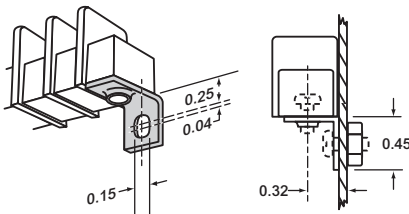
**04 Terminal Bend Configurations**

| Bend Option Code | X (minimum) | Z    | Available w/insulator base |
|------------------|-------------|------|----------------------------|
| R30              | 0.04        | 0.28 | No                         |
| R35              | 0.01        | 0.23 | No                         |
| R36              | 0.02        | 0.22 | No                         |
| R39              | 0.05        | 0.19 | No                         |
| R42              | 0.08        | 0.16 | No                         |
| R46              | 0.12        | 0.12 | No                         |
| R48              | 0.14        | 0.10 | No                         |
| R50              | 0.16        | 0.08 | No                         |

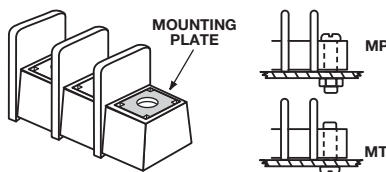
**07 Terminal Bend Configurations**

| Bend Option Code | X (minimum) | Z    | Available w/insulator base |
|------------------|-------------|------|----------------------------|
| R30              | 0.04        | 0.55 | Yes                        |
| R35              | 0.01        | 0.50 | Yes                        |
| R36              | 0.02        | 0.49 | Yes                        |
| R50              | 0.16        | 0.35 | No                         |
| R53              | 0.19        | 0.32 | No                         |
| R66              | 0.32        | 0.19 | No                         |
| R69              | 0.35        | 0.16 | No                         |
| R75              | 0.41        | 0.10 | No                         |
| R77              | 0.43        | 0.08 | No                         |

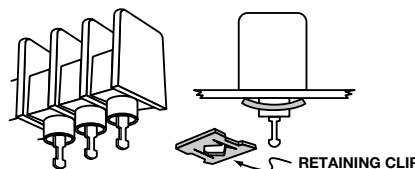
Dimensions in inches. To convert to millimeters, multiply by 25.4.

**Angle Brackets (A3 only)****Option AB**

Angle brackets enable block to be fastened at right angles to normal mount position. Bulk part number **2AB-J**.

**Mounting Plates****Options MP & MT**

**MP** Metal inserts with 0.150" dia. hole accept #6 screw. **MT** Metal inserts with tapped hole accept #6-32 screw. Bulk part numbers: **2MP-J**, **2MT-J**

**Retaining Clip****Option RC**

Use on standoff tubes. Fit panels up to 0.125" thick. Two clips for every five positions. Supplied unassembled. Bulk part number **H541-J**.

Series CB3000  
Single Row Terminal Blocks

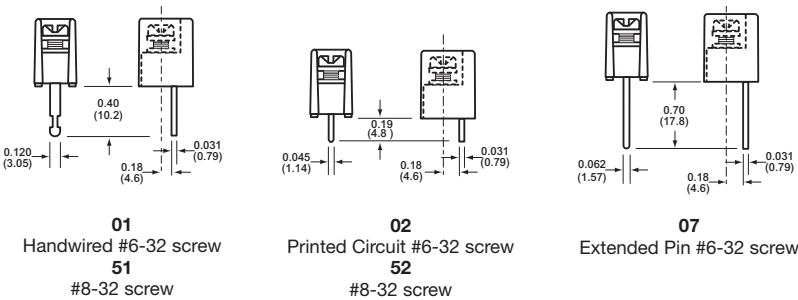
Part Numbering System

| Series                   | Terminal Style                                                                                                                                                                             | Base/End                                       | Poles                                                | Screws                                                                                                | Options                                                                                                                                                                                                                                                                                                                  |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|------------------------------------------------------|-------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div>CB3</div>           | <div><div></div><div></div></div>                                                                                                                                                          | <div></div>                                    | <div><div></div><div></div></div>                    | <div><div></div><div></div><div></div><div></div></div>                                               | <div><div></div><div></div><div></div></div>                                                                                                                                                                                                                                                                             |
| <b>CB3</b> - closed back | <b>01</b> - handwired #6-32 screw<br><b>02</b> - printed circuit #6-32 screw<br><b>07</b> - extended pin #6-32 screw<br><b>51*</b> - handwired #8-32<br><b>52*</b> - printed circuit #8-32 | <b>1</b> - mount end<br><b>2</b> - barrier end | <b>02 to 28</b><br><b>02 to 26</b> on mount end base | <b>07</b> - steel SEMS (standard)<br><b>09</b> - brass SEMS nickel-plated<br><b>CA</b> - SEMS captive | <b>AB</b> - angle mounting brackets (pg 22)<br><b>A7 to A9</b> - 0.250" QC<br><b>B7 to B9</b> - 0.187" QC<br><b>EB</b> - exit back terminals<br><b>L1 to L6</b> marking options (pg 27)<br><b>LT1 to LT6</b> marking options (pg 27)<br><b>MP</b> mtg. plates (pg 22)<br><b>OJ3** &amp; OJ7**</b> - over barrier jumpers |

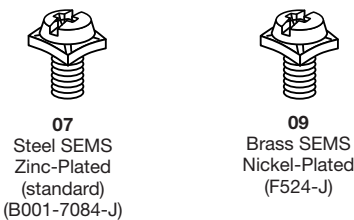
\*Note: #8-32 screw is a special with #6-32 head.  
\*\*Contact factory for configuration.

Terminal Styles

Inches (Millimeters)

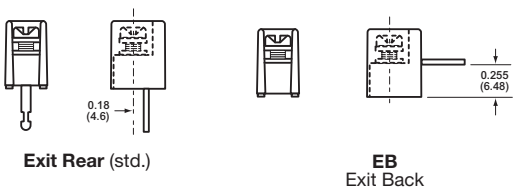


Screw Options (Bulk ordering part numbers are in parentheses)



CB3 Terminal Exit Options

Inches (Millimeters)



## Series CB3000

### Single Row Terminal Blocks *Continued*

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

Inches (Millimeters)

##### Jumpers



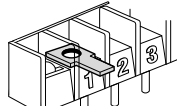
†OJ3  
(OJ3-J)



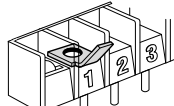
†OJ7  
(OJ7-J)

##### Quick Connects

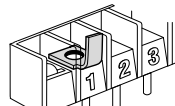
Blade Width A = 0.250". Blade Width B = 0.187".



A7 & B7  
(2A7-J & 2B7-J)



A8 & B8  
(2A8-J & 2B8-J)



A9 & B9  
(2A9-J & 2B9-J)

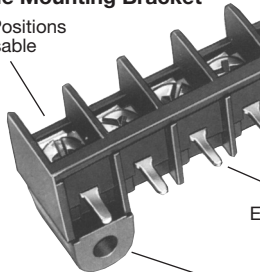
†Contact factory for pole configuration.

#### Mounting Options

Inches (Millimeters)

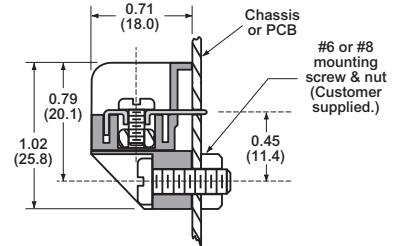
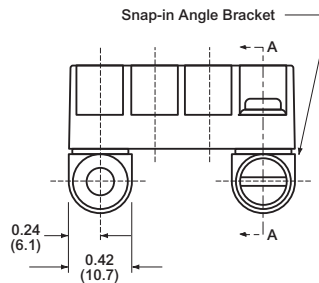
##### Right Angle Mounting Bracket

End Positions  
usable



Exit Back (EB)  
Terminals

Angle  
Bracket

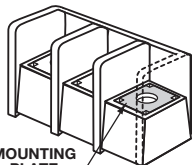


Option AB

##### 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



Option MP

MP Metal inserts with 0.150" dia. hole accept #6 screw.

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

## Eaton:

[CB30221107](#) [CB30221407](#) [CB30720407](#) [CB30220307](#) [CB30220607](#) [CB30221007](#) [CB30220209](#) [CB30220407](#)  
[CB30110907](#) [CB30220607EBAB](#) [CB30112009](#) [CB3-05-00](#) [CB30710609](#) [CB3-08](#) [CB31420307](#) [CB30220507](#)  
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