

# Terminal Blocks - Single Row

## Series A2000, LP2000 & CB2000 Single Row Terminal Blocks

### SPECIFICATIONS

Rating: A2: 30A, 300V\*

LP2: 30A, 150V\*

CB2: 30A, 300V\*

Center Spacing: 0.375" or 3/8" (9.52mm)

Wire Range: #12-22 AWG CU

Screw Size: #6-32 zinc-plated phillslot

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: 3400V (A2 & LP2); 4100V (CB2).

Agency Information: UL File E62622, CSA File 47235;

IEC Compliance; CE Certified

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



### Dimensions - in (mm)

#### A2000 & LP2000 Series



#### CB2000 Series



| Poles | MOUNTING ENDS ONLY |          | BARRIER & MOUNTING ENDS B Pole Ctrs. | BARRIER ENDS ONLY C Length |
|-------|--------------------|----------|--------------------------------------|----------------------------|
|       | A Mount Ctrs.      | C Length |                                      |                            |
| 02    | 1.13               | 1.56     | 0.38                                 | 0.81                       |
| 03    | 1.50               | 1.93     | 0.75                                 | 1.18                       |
| 04    | 1.88               | 2.30     | 1.13                                 | 1.56                       |
| 05    | 2.25               | 2.68     | 1.50                                 | 1.93                       |
| 06    | 2.63               | 3.06     | 1.88                                 | 2.31                       |
| 07    | 3.00               | 3.43     | 2.25                                 | 2.68                       |
| 08    | 3.38               | 3.81     | 2.63                                 | 3.06                       |
| 09    | 3.75               | 4.18     | 3.00                                 | 3.43                       |
| 10    | 4.13               | 4.56     | 3.38                                 | 3.81                       |
| 11    | 4.50               | 4.93     | 3.75                                 | 4.18                       |
| 12    | 4.88               | 5.31     | 4.13                                 | 4.56                       |
| 13    | 5.25               | 5.69     | 4.50                                 | 4.93                       |
| 14    | 5.63               | 6.06     | 4.88                                 | 5.31                       |
| 15    | 6.00               | 6.43     | 5.25                                 | 5.68                       |
| 16    | 6.38               | 6.81     | 5.63                                 | 6.06                       |
| 17    | 6.75               | 7.18     | 6.00                                 | 6.43                       |
| 18    | 7.13               | 7.56     | 6.38                                 | 6.81                       |
| 19    | 7.50               | 7.93     | 6.75                                 | 7.18                       |
| 20    | 7.88               | 8.31     | 7.13                                 | 7.56                       |
| 21    | 8.25               | 8.68     | 7.50                                 | 7.93                       |
| 22    | 8.63               | 9.06     | 7.88                                 | 8.31                       |
| 23    | 9.00               | 9.43     | 8.25                                 | 8.68                       |
| 24    | 9.38               | 9.81     | 8.63                                 | 9.06                       |
| 25    | 9.75               | 10.18    | 9.00                                 | 9.43                       |
| 26    | 10.13              | 10.56    | 9.38                                 | 9.81                       |
| 27    | 10.50              | 10.93    | 9.75                                 | 10.18                      |
| 28    | 10.88              | 11.31    | 10.13                                | 10.55                      |
| 29    | 11.25              | 11.68    | 10.50                                | 10.93                      |
| 30    | 11.63              | 12.05    | 10.88                                | 11.31                      |
| 31    | -                  | -        | 11.25                                | 11.68                      |
| 32    | -                  | -        | 11.63                                | 12.05                      |

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

## Series A2000 & LP2000 Single Row Terminal Blocks

### Part Numbering System

| Series   | Terminal Style   | Base/End  | Poles  | Screw Options  | Options   |
|--|--|---|--|--|---|
| <b>A</b> <b>2</b>  |  |   |  |  |   |
| <b>LP</b> <b>2</b>   |  |   |  |  |   |
| <b>A2</b> - standard barrier<br><b>LP2</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<br><b>08</b> - printed circuit<br><b>09</b> - 0.250" QC short<br><b>10</b> - 0.187" QC<br><b>14</b> - printed circuit<br><b>19</b> - 0.250" QC long | <b>0</b> - flat base/molded mount end<br><b>1</b> - flat base/mnt. end<br><b>2</b> - flat base/barrier end<br><b>3</b> - insulator base/mnt. end<br><b>4</b> - insulator base/barrier end<br><b>5</b> - closed base/mount end<br><b>6</b> - closed base/molded mount end<br><b>9</b> - insulator base/molded mount end<br><br>Base/End Note: 0, 6, 9 styles not available with covers. 5 & 6 Styles only available with 03 terminals. | <b>02 to 32</b><br><b>02 to 30</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 (not available with hardware options)<br><b>09</b> - brass SEMS nickel-plated (not available with hardware options)<br><b>CA</b> - captive screw<br><b>WR</b> - wire ready (not available on LP2 series) | <b>AB</b> - angle mnt. options (pg 9)<br><b>A1 to A9</b> - 0.250" QC<br><b>B1 to B9</b> - 0.187" QC<br><b>DR</b> - drilled right angle (pg 9)<br><b>†JA, JB &amp; JC</b> - barrier jumpers<br><b>L1 to L6</b> marking options (pg 22)<br><b>MP, MP8 &amp; MT</b> mounting plates (pg 9)<br><b>†OJ2 &amp; OJ4</b> - over barrier jumpers (not available w/covers)<br><b>RC</b> - retaining clips (pg 9)<br><b>R30 to R77</b> - right angle bends (pg 9)<br><b>SO</b> - stand off insulators (pg 9)<br><b>S1</b> - solder lug/flat<br><br><b>Covers</b> - (pg 23) |

†Contact factory for configuration..

### Terminal Styles

Inches (Millimeters)



**01**  
Handwired



**02**  
Printed Circuit



**03**  
Non Feed-Thru



**04**  
Wire Wrap Tail



**05**  
Extended Handwired



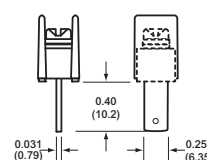
**06**  
Handwired



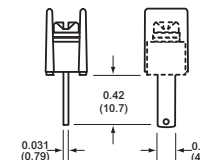
**07**  
Extended Pin



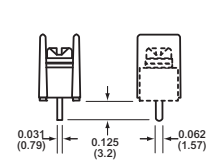
**08**  
Printed Circuit



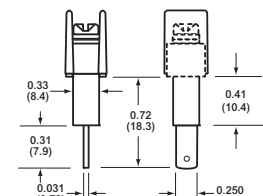
**09**  
0.250" QC short



**10**  
0.187" QC



**14**  
Printed Circuit



**19**  
√0.250" QC long

# Terminal Blocks - Single Row

## Series A2000 & LP2000 Single Row Terminal Blocks *Continued*

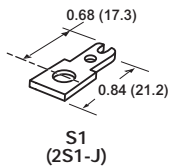
### Screw Options



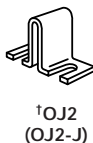
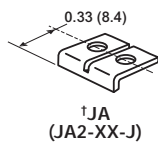
### Hardware Options (Bulk ordering part numbers are in parentheses.)

Inches (Millimeters)

#### Solder Lugs

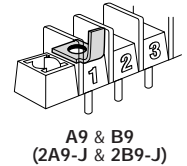
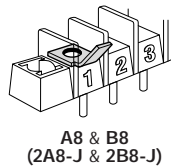
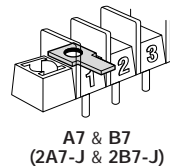
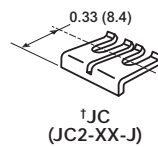
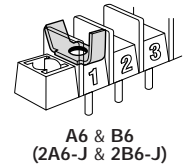
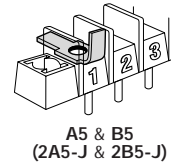
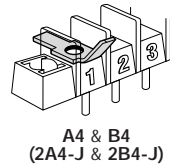
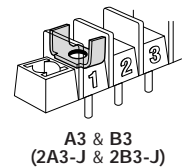
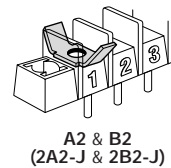
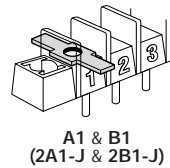


#### Jumpers



#### Quick Connects

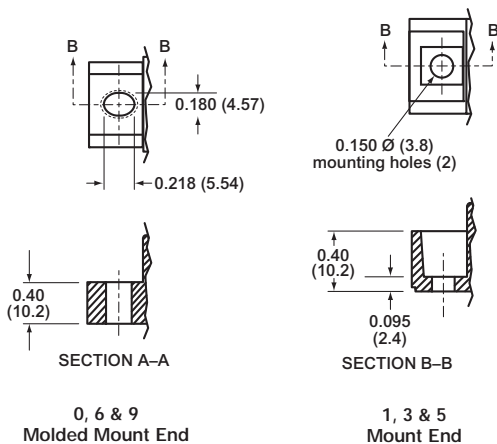
Blade Width A = 0.250" Blade Width B = 0.187"



†Contact factory for configuration.

### Base/End Options

Inches (Millimeters)



## Series A2000 & LP2000 Single Row Terminal Blocks *Continued*

### Mounting Options

#### Right Angle Bends (A2, LP2 only)

Right angle terminals are offered on the A2000 & LP2000 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                         |

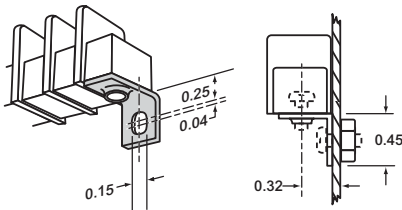
#### 07 Terminal Bend Configurations



| 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                        |
| R42              | 0.08        | 0.43 | Yes                        |
| R46              | 0.12        | 0.39 | 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.

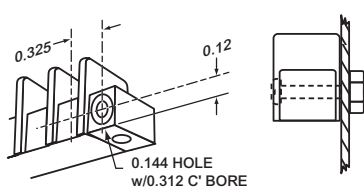
#### Angle Brackets (A2, LP2 only)



#### Option AB

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

#### Drilled Right Angle (A2, LP2 only)



#### Option DR

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

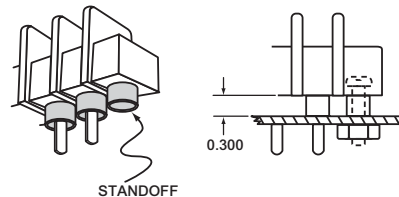
#### Mounting Plates



#### Options MP, MP8 & MT

**MP** Metal inserts with 0.150" dia. hole accept #6 screw. **MP8** Metal inserts with 0.187" 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 0.125" thick. Two clips for every five positions. Supplied unassembled. Bulk part number **H541-J**.

# Terminal Blocks - Single Row

## Series CB2000

### Single Row Terminal Blocks

#### Part Numbering System

| Series            | Terminal Style  | Base/End                                       | Poles  | Screws   | Options   |
|-------------------|---|--|--|--|---|
| <b>CB2</b>        |   |  |  |  |   |
| CB2 - closed back | <b>01</b> - handwired<br><b>02</b> - printed circuit<br><b>03</b> - non feed-thru<br><b>07</b> - extended pin<br><b>14</b> - printed circuit<br><b>22</b> - dual tail printed circuit | <b>1</b> - mount end<br><b>2</b> - barrier end | <b>02 to 32</b><br><b>02 to 30</b> on mount end base | <b>03</b> - stainless steel<br><b>04</b> - brass nickel-plated<br><b>07</b> - steel SEMS standard<br><b>09</b> - brass SEMS nickel-plated<br><b>CA</b> - captive screw<br><b>07CA</b> - SEMS captive | <b>*AB</b> - angle mounting brackets (pg 11)<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>EF</b> - exit front terminals<br><b>†JA, JB &amp; JC</b> - barrier jumpers<br><b>L1 to L6</b> marking options (pg 22)<br><b>LT1 to LT6</b> marking options (pg 22)<br><b>†OJ2 &amp; OJ4</b> - over barrier jumpers<br><b>MP, MP8, MT &amp; MT8</b> mtg. plates (pg 11)<br><b>S1</b> - solder lug/flat |

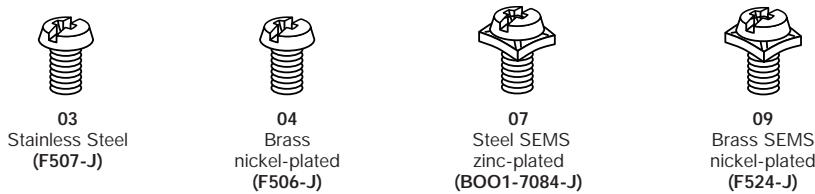
\*Only available on 3-poles and up.  
†Contact factory for configuration.

#### Terminal Styles

Inches (Millimeters)



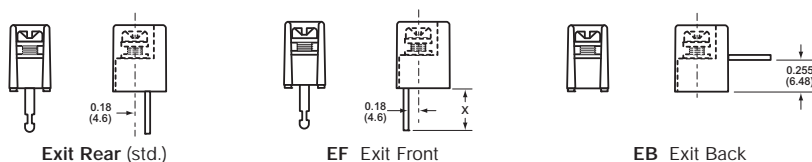
#### Screw Options (Bulk ordering part numbers are in parentheses.)



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

#### CB2 Terminal Exit Options

Inches (Millimeters)



## Series CB2000 Single Row Terminal Blocks

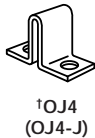
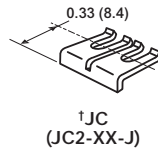
### Hardware Options (Bulk ordering part numbers are in parentheses.)

Inches (Millimeters)

#### Solder Lugs

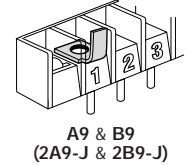
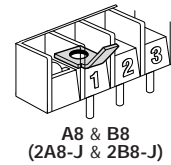
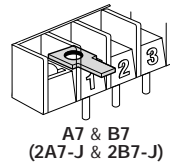


#### Jumpers



#### Quick Connects

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

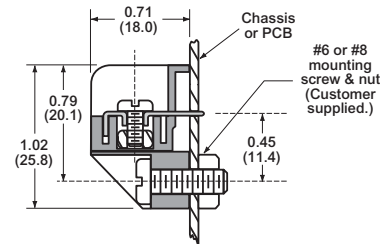
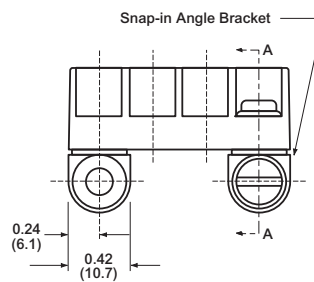
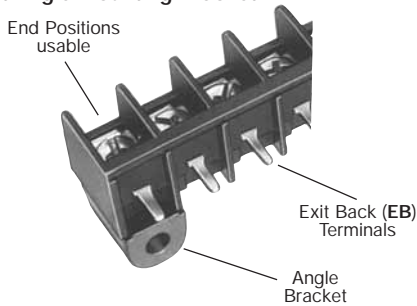


†Contact factory for configuration.

### Mounting Options

Inches (Millimeters)

#### Right Angle Mounting Bracket

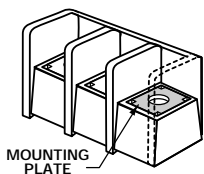


#### Option AB

#### 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 0.150" dia. hole accept #6 screw.
- MP8 Metal inserts with 0.187" 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.