

# Terminal Blocks - Single Row

## 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<br>ENDS<br>ONLY |             | BARRIER &<br>MOUNTING<br>ENDS<br>B<br>Pole Ctrs. | BARRIER<br>ENDS<br>ONLY<br>C<br>Length |
|-------|--------------------------|-------------|--------------------------------------------------|----------------------------------------|
|       | A<br>Mount Ctrs.         | C<br>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.

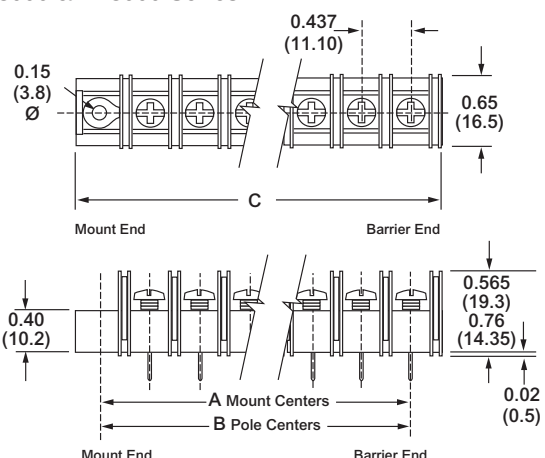
A31940707WR

LP301105

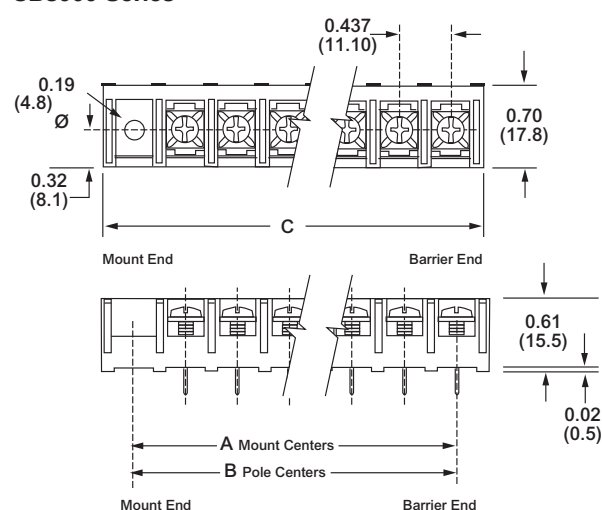
CB31420807

#### Dimensions - in (mm)

##### A3000 & LP3000 Series



##### CB3000 Series



## Series A3000 & LP3000

### Single Row Terminal Blocks

### Part Numbering System

| Series                                                           | Terminal Style                                                                                                                                                                                                                                                                                                                                          | Base/End<br>(Views pg. 15)                                                                                                                                                            | Poles                                                | Screw Options                                                                                                                                                                                                                                                                                                                                                   | Options                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>A3</b><br><b>LP3</b>                                          |                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                       |                                                      |                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>A3</b> - standard barrier<br><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<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>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 | <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 15)<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 15)<br><b>†J201</b> - flat slip-on jumper<br><b>L1 to L6</b> marking options (pg 22)<br><b>MP, MP8 &amp; MT</b> mounting plates (pg 15)<br><b>†OJ3, OJ5 &amp; OJ7</b> - over barrier jumpers<br><b>RC</b> - retaining clips (pg 15)<br><b>R30 to R77</b> - right angle bends (pg 15)<br><b>SO</b> - stand off insulators (pg 15)<br><b>S1</b> - solder lug/flat |

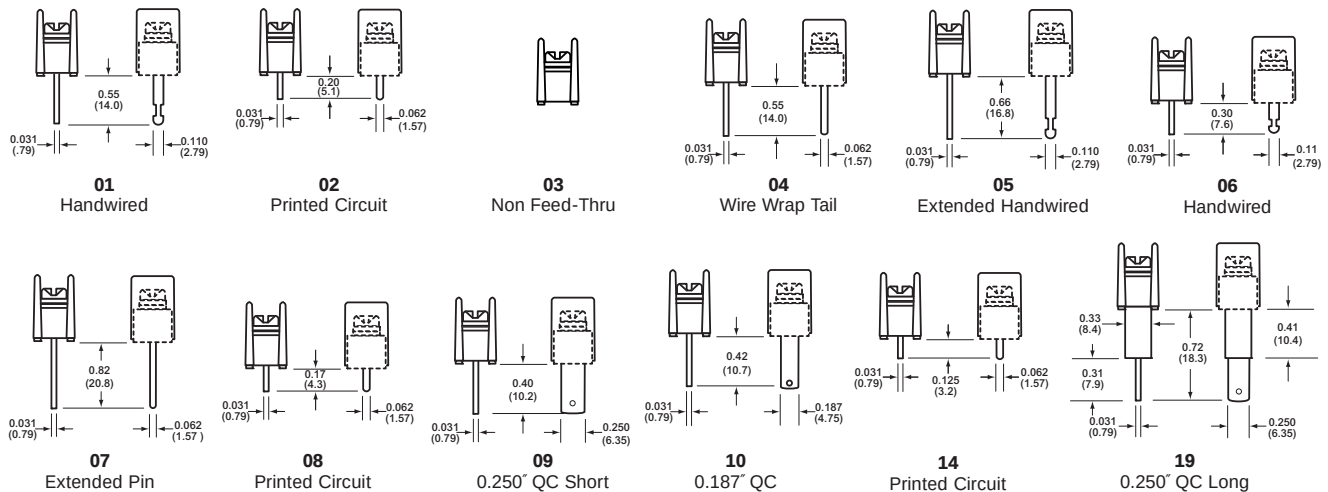
ready (A3 only)

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

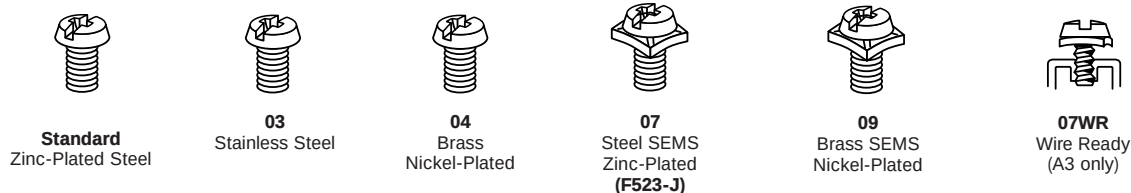
†Contact factory for configuration.

### Terminal Styles

Inches (Millimeters)



### Screw Options



# Terminal Blocks - Single Row

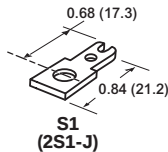
## Series A3000 & LP3000

### Single Row Terminal Blocks *Continued*

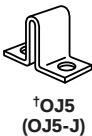
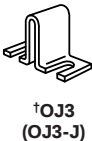
#### Hardware Options (Bulk ordering part numbers are in parentheses.)

Inches (Millimeters)

##### Solder Lugs

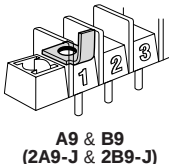
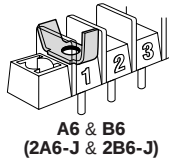
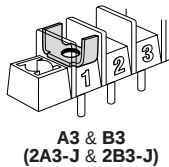
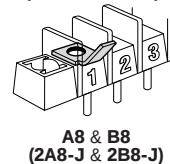
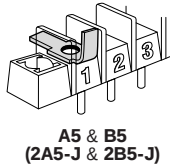
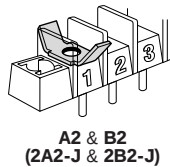
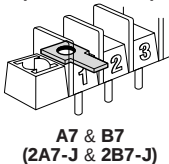
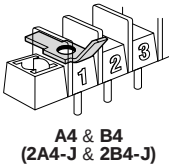
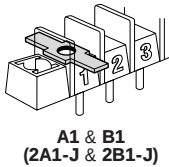


##### Jumpers



##### Quick Connects

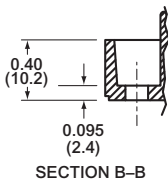
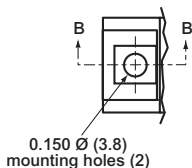
Blade Width A = 0.250" Blade Width B = 0.187"



†Contact factory for pole configuration.

#### Base/End Options

Inches (Millimeters)



1, 3 & 5 Mount End

## Series A3000 & LP3000

### Single Row Terminal Blocks *Continued*

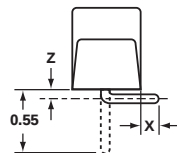
#### Mounting Options

Inches (Millimeters)

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

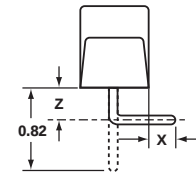
Right angle terminals are offered on the A3000 & LP3000 Series. Configurations are defined in these dimensions: X = pin extension beyond the block base; Z = length from block base to centerline of the terminal tip. Standard bends consist of the X and Z dimensions shown in the chart. Specify by adding the selected Bend Option Code to the terminal part number.

##### 04 Terminal Bend Configurations



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

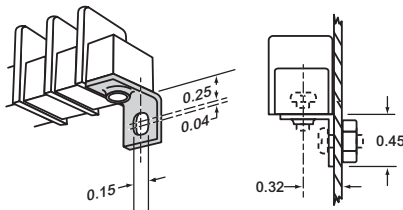
##### 07 Terminal Bend Configurations



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

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

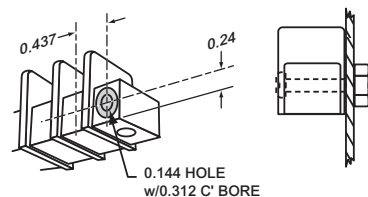
##### Angle Brackets (A3, LP3 only)



##### Option AB

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

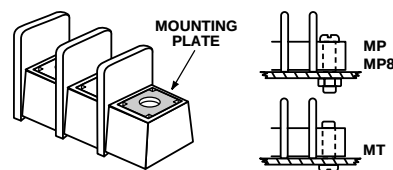
##### Drilled Right Angle (A3, LP3 only)



##### Option DR

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

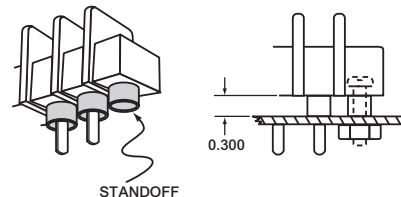
##### Mounting Plates



##### Options MP, MP8 & MT

**MP** Metal inserts with 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.

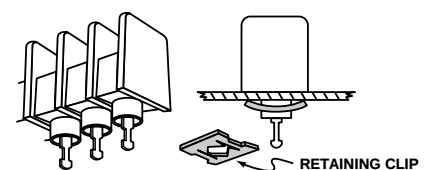
##### Standoffs



##### 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 CB3000

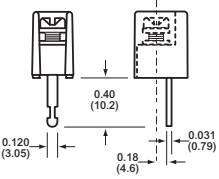
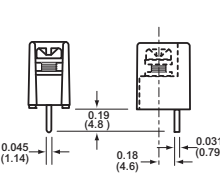
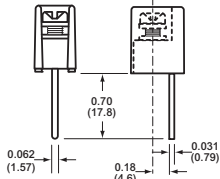
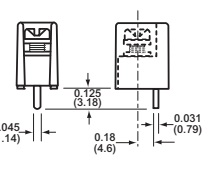
### Single Row Terminal Blocks

#### Part Numbering System

| Series                                                                            | Terminal Style                                                                                                                                                                                                                                                                                                                                                                                                                                      | Base/End                                                                           | Poles                                                                             | Screws                                                                                                | Options                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  |                                                                                                                                                                                                                                                                                                                                                                    |   |  |                     |                                                                                                                                                                                                                                                                                                                  |
| <b>CB3</b> - closed back                                                          | <b>01</b> - handwired #6-32 screw<br><b>02</b> - printed circuit #6-32 screw<br><b>03</b> - non feed-thru #6-32 screw<br><b>07</b> - extended pin #6-32 screw<br><b>14</b> - printed circuit #6-32 screw<br><b>51</b> - handwired #8-32*<br><b>52</b> - printed circuit #8-32*<br><b>53</b> - non feed-thru #8-32*<br><b>57</b> - extended pin #8-32*<br><b>64</b> - printed circuit #8-32*<br><br>*Note: #8-32 screw is a special with #6-32 head. | <b>1</b> - mount end<br><b>2</b> - 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>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 17)<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 22)<br><b>LT1 to LT6</b> marking options (pg 22)<br>† <b>OJ3 &amp; OJ7</b> - over barrier jumpers<br><b>MP, MP8, MT &amp; MT8</b> mtg. plates (pg 17)<br><b>S1</b> - solder lug/flat<br><b>Covers</b> - (pg 23) |
|                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Base/End Note: 5 Style only available with 03 terminals.                           |                                                                                   | †Contact factory for configuration.                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                     |

#### Terminal Styles

Inches (Millimeters)

|                                                                                     |                                                                                     |                                                                                                        |                                                                                      |                                                                                       |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|  |  |                     |  |  |
| <b>01</b><br>Handwired #6-32 screw<br><b>51</b><br>#8-32 screw                      | <b>02</b><br>Printed Circuit #6-32 screw<br><b>52</b><br>#8-32 screw                | <b>03</b><br>Non Feed-Thru #6-32 screw<br><b>53</b><br>#8-32 screw<br>Available on Mount End (5) only. | <b>07</b><br>Extended Pin #6-32 screw<br><b>57</b><br>#8-32 screw                    | <b>14</b><br>Printed Circuit #6-32 screw<br><b>64</b><br>#8-32 screw                  |

#### Screw Options



**07**  
Steel SEMS  
Zinc-Plated  
(standard)

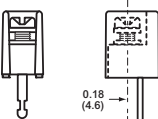
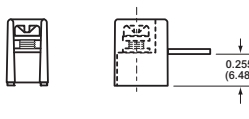


**09**  
Brass SEMS  
Nickel-Plated

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

#### CB3 Terminal Exit Options

Inches (Millimeters)

|                                                                                     |                                                                                     |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |
| <b>Exit Rear (std.)</b>                                                             | <b>EB</b><br>Exit Back                                                              |

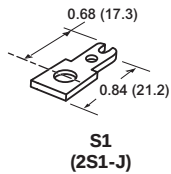
## Series CB3000

### Single Row Terminal Blocks *Continued*

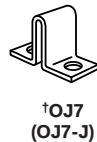
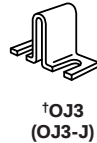
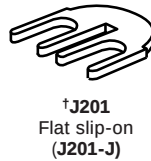
#### Hardware Options (Bulk ordering part numbers are in parentheses.)

Inches (Millimeters)

##### Solder Lugs

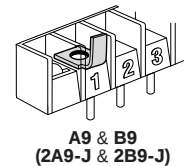
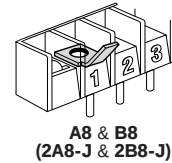
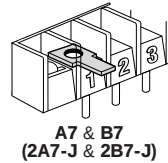


##### Jumpers



##### Quick Connects

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

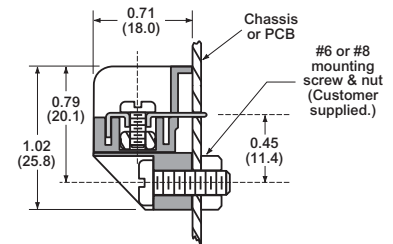
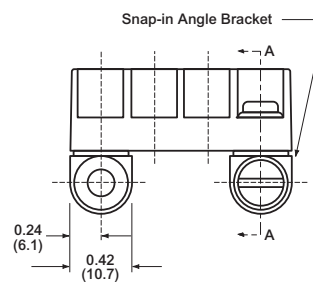
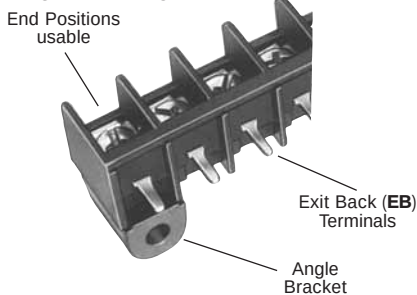


†Contact factory for pole configuration.

#### Mounting Options

Inches (Millimeters)

##### Right Angle Mounting Bracket

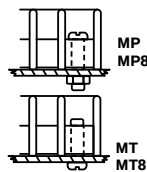
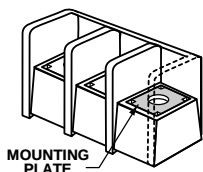


**Option AB**

##### 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.

# Terminal Blocks - Single Row

## Series A38 / B38

### Single Row Terminal Blocks

#### SPECIFICATIONS

**Rating:** A38: 30A, 600V

B38: 50A, 300V

**Center Spacing:** 0.437" (11.10mm)

**Wire Range:** A38: #10-22 AWG CU; B38: #8-16 AWG

**Screw Size:** #8-32 zinc-plated steel

**Torque Rating:** A38: 9 lb-in; B38: 15 lb-in for #8, 9 lb-in for #6

**Base:** A38 Only: Standoffs standard for easy flux washing

**Distance Between Barriers:** 0.378" (9.60mm)

**Recommended PCB Hole Diameter (A38):** 0.076" (1.93mm)

**Operating Temperature:** 221°F (105°C)

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

**Breakdown Voltage:** 5000V

**Agency Information:** UL File E62622, CSA File 47235;  
CE Certified

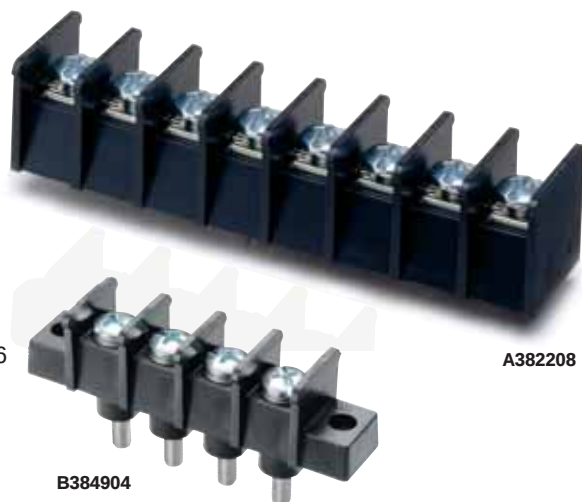


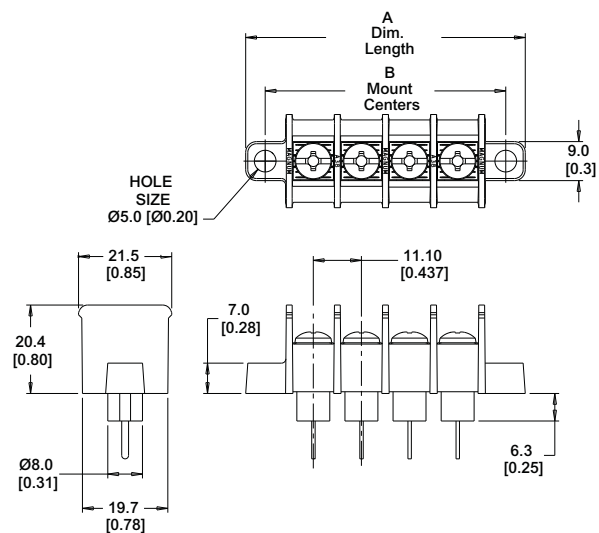
TABLE A

| Poles | MOUNTING<br>ENDS ONLY |                    | BARRIER<br>ENDS ONLY |  |
|-------|-----------------------|--------------------|----------------------|--|
|       | B<br>Mount Ctrs.      | "A"<br>Dim. Length | "A"<br>Dim. Length   |  |
| 02    | 1.31                  | 1.67               | 0.93                 |  |
| 03    | 1.75                  | 2.10               | 1.37                 |  |
| 04    | 2.19                  | 2.54               | 1.81                 |  |
| 05    | 2.62                  | 2.98               | 2.25                 |  |
| 06    | 3.06                  | 3.41               | 2.68                 |  |
| 07    | 3.50                  | 3.85               | 3.12                 |  |
| 08    | 3.93                  | 4.29               | 3.56                 |  |
| 09    | 4.37                  | 4.72               | 3.99                 |  |
| 10    | 4.81                  | 5.16               | 4.43                 |  |
| 11    | 5.24                  | 5.60               | 4.87                 |  |
| 12    | 5.68                  | 6.04               | 5.30                 |  |
| 13    | 6.12                  | 6.47               | 5.74                 |  |
| 14    | 6.56                  | 6.91               | 6.18                 |  |
| 15    | 6.99                  | 7.35               | 6.61                 |  |
| 16    | 7.43                  | 7.78               | 7.05                 |  |

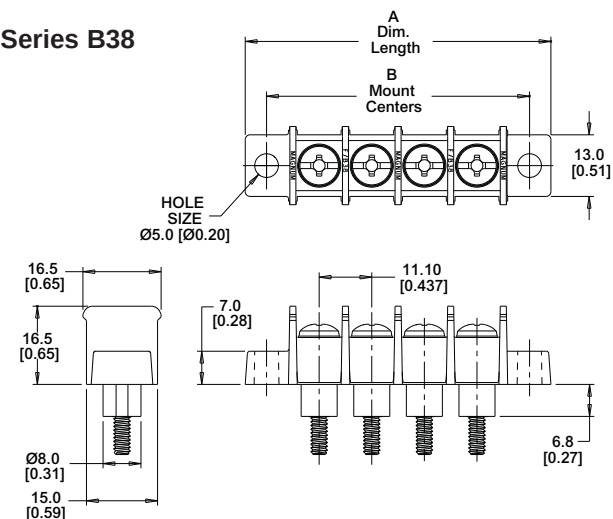
\* Dimensions in inches. To convert to millimeters, multiply by 25.4.

### Dimensions - in (mm)

#### Series A38



#### Series B38

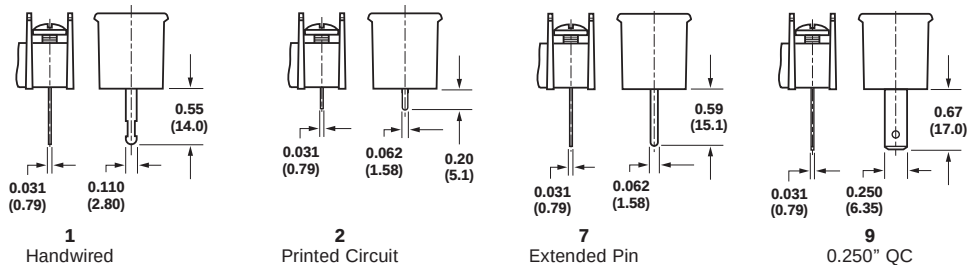


## Part Numbering System

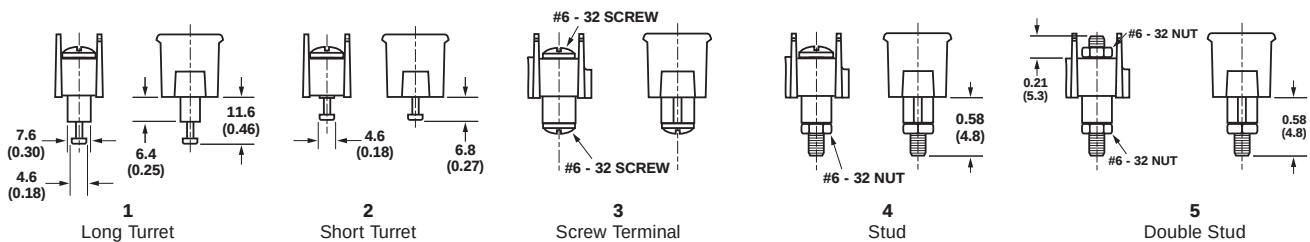
| Series     | Terminal Style                                                                                                                                                                                                                                                        | Base/End                                                                                                                                               | # of Poles                                                                        | Screw Options                                                                                                                                                                                                                                                                                   | Options                                                                                                   |
|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| <b>A3B</b> |                                                                                                                                                                                      |                                                                       |  |                                                                                                                                                                                                                |                        |
|            | <b>0</b> - 0.187" QC<br><b>1</b> - hand wired<br><b>2</b> - printed circuit<br><b>7</b> - extended wire wrap<br><b>9</b> - 0.250" QC                                                                                                                                  | <b>1</b> - flat base, mount end<br><b>2</b> - flat base, barrier end<br><b>3</b> - insulator base* mount end<br><b>4</b> - insulator base* barrier end | <b>02 to 16</b>                                                                   | Blank - standard screw (steel zinc-plated, philslot BHMS)<br><b>04</b> - brass, nickel-plated, philslot BHMS<br><b>07</b> - steel, SEMS zinc-plated philslot screw<br><b>92</b> - steel, zinc-plated slotted BHMS<br><b>94</b> - brass, nickel-plated slotted BHMS (Binding Hard Machine Screw) | <b>L1 to L6</b> marking options (pg 22)<br><b>RC</b> - retaining clips (pg 15)<br><b>Covers</b> - (pg 23) |
|            |                                                                                                                                                                                                                                                                       | *N/A on 2 terminal style.                                                                                                                              |                                                                                   |                                                                                                                                                                                                                                                                                                 |                                                                                                           |
| <b>B3B</b> |                                                                                                                                                                                      |                                                                       |  |                                                                                                                                                                                                                |                        |
|            | <b>1</b> - long turret<br><b>2</b> - short turret<br><b>3</b> - screw terminal #6-32 screw top & bottom)<br><b>4</b> - stud (#8-32 screw top, #6-32 stud bottom)<br><b>†5</b> - double stud (#6-32 stud top & bottom)<br><b>†C360</b> Copper alloy (bright tin plate) | <b>0</b> - flat base, mount ends<br><b>4</b> - insulator base, barrier ends<br><b>9</b> - insulator base mount ends                                    | <b>02 to 16</b>                                                                   | Blank - standard screw steel zinc-plated philslot BHMS)<br><b>04</b> - brass, nickel-plated, philslot BHMS #8-32<br><b>*34</b> - #6-32 nickel-plated brass philslot BHMS<br><br>*Note: 34 screws only<br>*available with 3 terminal style.                                                      | <b>L1 to L6</b> marking options (pg 23)<br><b>RC</b> - retaining clips (pg 16)                            |

## A38 Terminal Styles Wire ready screws standard

Inches (Millimeters)



## B38 Terminal Styles



## Screw Options

