

## Single Row Terminal Blocks

# A3, LP3 & CB3

### Dimensions Inches (Millimeters)

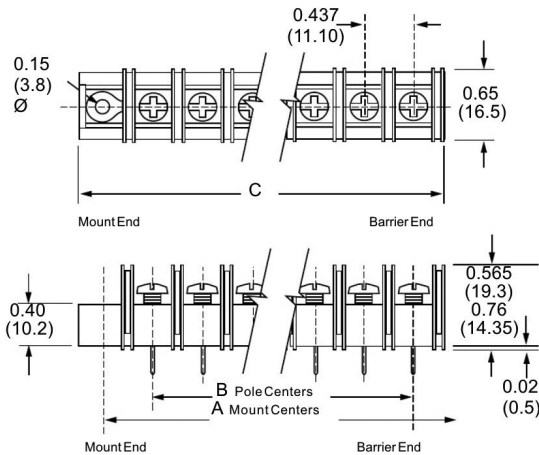
#### A3 & LP3



A31930307



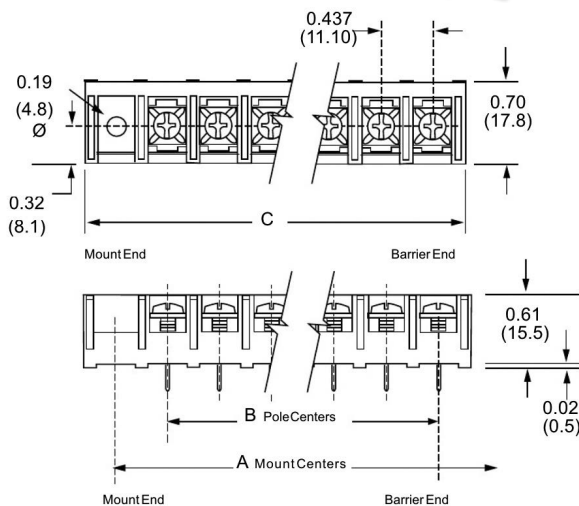
LP307102



#### CB3



CB35110407MP



### Specifications

**Rating:** A3: 30A, 600V\* LP3: 30A, 150V\* CB3: 30A, 600V\*

**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 |          | BARRIER ENDS ONLY |
|-------|--------------------|----------|-------------------------|----------|-------------------|
|       | A Mounting Ctrs.   | C Length | B Pole Ctrs.            | C Length | C Length          |
| 02    | 1.31               | 1.73     | 0.43                    | 0.98     | 0.98              |
| 03    | 1.75               | 2.17     | 0.87                    | 1.43     | 1.43              |
| 04    | 2.18               | 2.61     | 1.31                    | 1.87     | 1.87              |
| 05    | 2.62               | 3.05     | 1.75                    | 2.31     | 2.31              |
| 06    | 3.06               | 3.48     | 2.18                    | 2.75     | 2.75              |
| 07    | 3.50               | 3.92     | 2.62                    | 3.18     | 3.18              |
| 08    | 3.93               | 4.36     | 3.06                    | 3.62     | 3.62              |
| 09    | 4.37               | 4.80     | 3.50                    | 4.06     | 4.06              |
| 10    | 4.81               | 5.23     | 3.93                    | 4.50     | 4.50              |
| 11    | 5.25               | 5.67     | 4.37                    | 4.93     | 4.93              |
| 12    | 5.68               | 6.11     | 4.81                    | 5.37     | 5.37              |
| 13    | 6.12               | 6.55     | 5.25                    | 5.81     | 5.81              |
| 14    | 6.56               | 6.98     | 5.68                    | 6.25     | 6.25              |
| 15    | 7.00               | 7.42     | 6.12                    | 6.68     | 6.68              |
| 16    | 7.43               | 7.86     | 6.56                    | 7.12     | 7.12              |
| 17    | 7.87               | 8.30     | 7.00                    | 7.56     | 7.56              |
| 18    | 8.31               | 8.73     | 7.43                    | 8.00     | 8.00              |
| 19    | 8.75               | 9.17     | 7.87                    | 8.43     | 8.43              |
| 20    | 9.18               | 9.60     | 8.31                    | 8.87     | 8.87              |
| 21    | 9.62               | 10.05    | 8.50                    | 9.31     | 9.31              |
| 22    | 10.06              | 10.48    | 9.18                    | 9.75     | 9.75              |
| 23    | 10.50              | 10.92    | 9.62                    | 10.18    | 10.18             |
| 24    | 10.93              | 11.36    | 10.06                   | 10.62    | 10.62             |
| 25    | 11.37              | 11.80    | 10.50                   | 11.06    | 11.06             |
| 26    | 11.81              | 12.23    | 10.98                   | 11.50    | 11.50             |
| 27    | —                  | —        | 11.81                   | 12.37    | 12.37             |
| 28    | —                  | —        | 11.37                   | 11.07    | 11.07             |



Powering Business Worldwide

## Part Numbering System

| Family                       | Terminal Style                                                                                                                                                                                                                                                   | Base/End                                                                                                                                                                               | 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<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> barrier end<br><b>02 to 26</b> mount end                                                                                                            | Blank-std. screws<br><b>03</b> - stainless steel<br><b>04</b> - brass nickel-plated<br><b>07</b> - steel SEMS zinc-plated***<br><b>09</b> - brass SEMS nickel-plated***<br><b>07WR</b> - steel SEMS wire ready<br><b>CA†</b> - captive screw | <b>AB</b> - angle mnt. options (pg 18)<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 25)<br><b>MP, MT</b> - mounting plates (pg 18)<br><b>RC</b> - retaining clips (pg 18)<br><b>R30 to R66</b> - right angle bends (pg 18) |

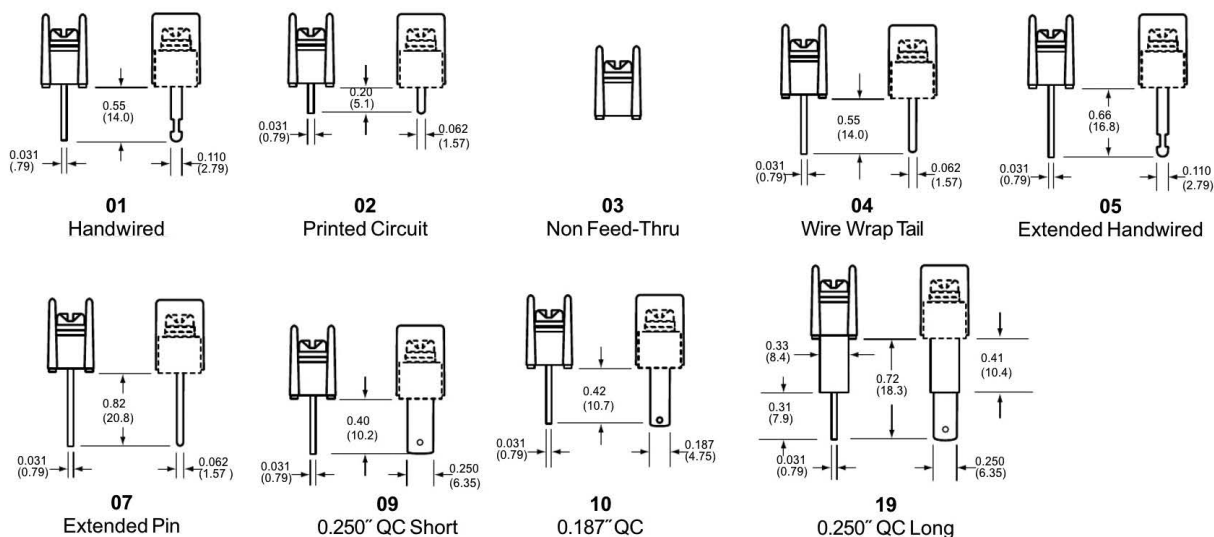
\* Base/End Styles 3 and 4 not available with 02, 03, and 09 terminals.

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

\*\*\* SEMS screws not available with hardware options

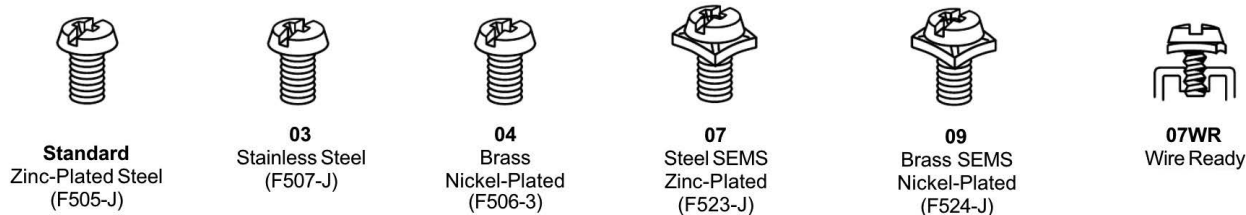
† Not compatible with 03 stainless steel screw option.

## Terminal Styles Inches (Millimeters)



## Screw Options

(Bulk ordering part numbers are in parentheses)



Part Numbering System

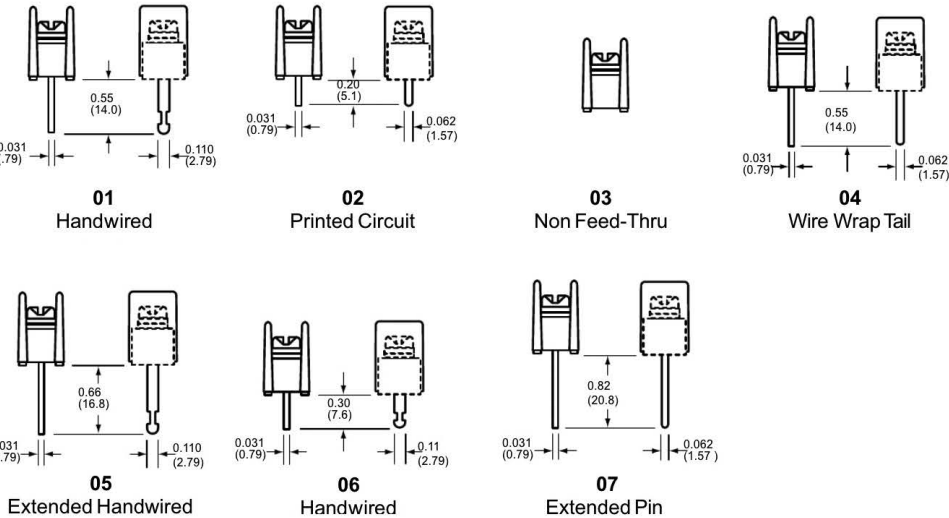
| Family                                                                  | Terminal Style                                                                                                                                                                                                                           | Base/End                                                                                                                                                                                                                            | Poles                                                                                                          | Screw Options                                                                                                                                                                                                                         | Options                                                                                                                                                                                                                                                            |
|-------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div>L</div> <div>P</div> <div>3</div> <p>LP3 - low profile barrier</p> | <div></div> <div></div> <p> <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                 </p> | <div></div> <p> <b>1</b> - std. base/mount end<br/> <b>2</b> - std. base/barrier<br/> <b>3*</b> - insulator base/mount end<br/> <b>4*</b> - insulator base/barrier end<br/> <b>5**</b> - closed base/mount end                 </p> | <div></div> <div></div> <p> <b>02 to 28</b> barrier end<br/> <b>02 to 26</b> on mount end                 </p> | <div></div> <div></div> <p>                     Blank-std. screws<br/> <b>00</b> - screws shipped<br/> <b>04</b> - brass nickel-plated<br/> <b>07</b> - steel SEMS zinc-plated***<br/> <b>CA</b> - captive screw                 </p> | <div></div> <div></div> <div></div> <p> <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 25)<br/> <b>MP</b> - mounting plates (pg 18)<br/> <b>R30 to R66</b> - right angle bends (pg 18)                 </p> |

\* A2 only.

\*\* Not compatible with 03-stainless steel screws.

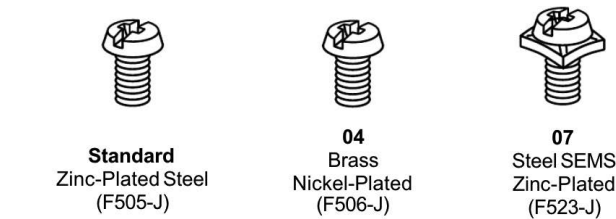
\*\*\* SEMS screws not available with hardware options

Terminal Styles Inches (Millimeters)



Screw Options

(Bulk ordering part numbers are in parentheses)



## Hardware Options Inches (Millimeters)

(Bulk ordering part numbers are in parentheses)

### Jumpers



†J201  
Flatslip-on  
(J201-J)



†OJ3  
(OJ3-J)



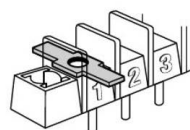
†OJ7  
LP3 Only  
(OJ7-J)



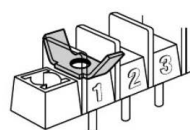
†OJ5  
(OJ5-J)

† Contact Eaton for desired configuration.

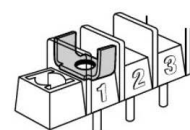
### Quick Connects Blade Width A = 0.250" Blade Width B = 0.187"



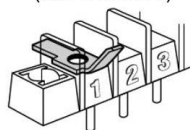
A1 & B1  
(2A1-J & 2B1-J)



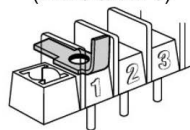
A2 & B2  
(2A2-J & 2B2-J)



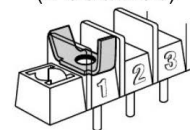
A3 & B3  
(2A3-J & 2B3-J)



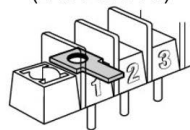
A4 & B4  
(2A4-J & 2B4-J)



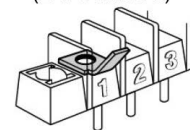
A5 & B5  
(2A5-J & 2B5-J)



A6 & B6  
(2A6-J & 2B6-J)



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



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



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

## Base/End Options Inches (Millimeters)



1 - Standard base/mount end



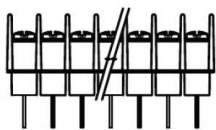
2 - Standard base/barrier end



3 - Insulator base/mount end



0.41  
(10.4)



4 - Insulator base/barrier end



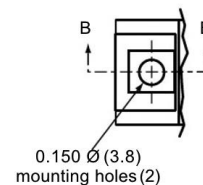
0.41  
(10.4)



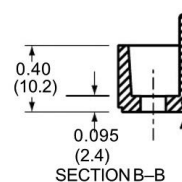
5 - Closed base/mount end



### Mount End Details



0.150 Ø (3.8)  
mounting holes (2)



0.095  
(2.4)  
SECTION B-B

### 1, 3 & 5 Mount End

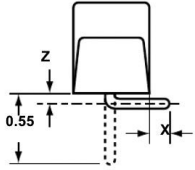
Note: On 1, 3 and 5 bases, Eaton may drill a terminal spacing to be a mount end. There will be no fit/form/function effect of mounting the product

## Mounting Options Inches (Millimeters)

### Right Angle Mounting Bracket

Right angle terminals are offered on the A3 & LP3. 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.

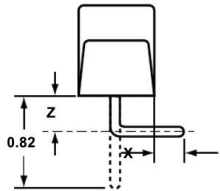
#### 04 Terminal Bend Configurations



| Bend Option Code | X<br>(minimum) | Z    | Available<br>w/insulator base |
|------------------|----------------|------|-------------------------------|
| R36              | 0.02           | 0.22 | No                            |
| R42              | 0.08           | 0.16 | No                            |
| R46              | 0.12           | 0.12 | No                            |
| R50              | 0.16           | 0.08 | No                            |

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

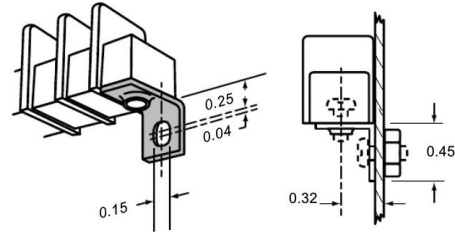
#### 07 Terminal Bend Configurations



| Bend Option Code | X<br>(minimum) | Z    | Available<br>w/insulator base |
|------------------|----------------|------|-------------------------------|
| R36              | 0.02           | 0.49 | Yes                           |
| R50              | 0.16           | 0.35 | No                            |
| R66              | 0.32           | 0.19 | No                            |

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

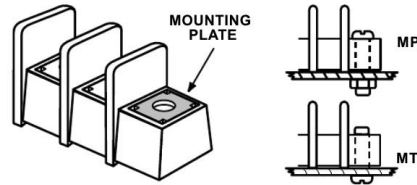
### Angle Brackets (A3 only)



#### Option AB

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

### Mounting Plates



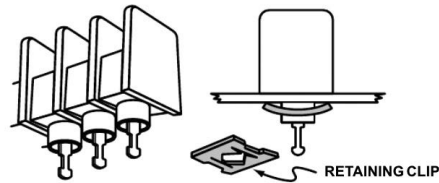
#### Options MP & MT

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

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

Bulk part number **2MP-J, 2MT-J**.

### Retaining Clip



#### Options RC

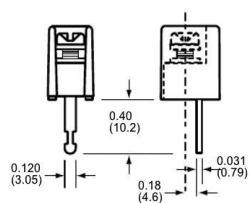
Use on standoff tubes. Fit panels up to 0.125" thick. Two clips for every five positions. Supplied unassembled. Bulk part number **H541-J**.

## Part Numbering System

| Family                                 | Terminal Style                                                                                                                                                                                                        | Base/End                                       | Poles                                                                | Screw Options                                                                                               | Options                                                                                                                                                                                                                                               |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div>C</div> <div>B</div> <div>3</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<br>#6-32 screw<br><b>02</b> - printed circuit<br>#6-32 screw<br><b>07</b> - extended pin<br>#6-32 screw<br><b>51*</b> - handwired<br>#8-32 screw<br><b>52*</b> - printed circuit<br>#8-32 screw | <b>1</b> - mount end<br><b>2</b> - barrier end | <b>02 to 22</b> barrier<br>end<br><b>02 to 20</b><br>on mount<br>end | <b>07</b> - steel SEMS<br>(standard)<br><b>09</b> - brass SEMS<br>nickel-plated<br><b>CA</b> - SEMS captive | <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<br>(pg 25)<br><b>LT1 to LT6</b> marking options<br>(pg 25)<br><b>MP</b> mtg. plates (pg 20)<br><b>Covers</b> - (pg 26) |

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

## Terminal Styles Inches (Millimeters)

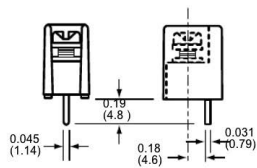


**01**

Handwired #6-32 screw

**51**

Handwired #8-32 screw

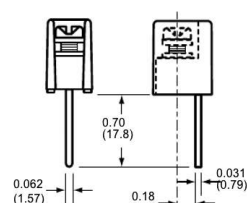


**02**

Printed Circuit #6-32 screw

**52**

Printed Circuit #8-32 screw



**07**

Extended Pin #6-32  
screw

## Screw Options

(Bulk ordering part numbers are in parentheses)



**07**

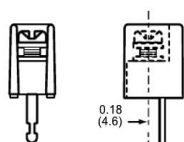
Steel SEMS  
Zinc-Plated  
(standard)  
(B001-7084-J)



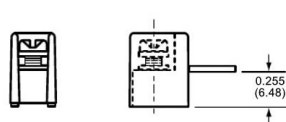
**09**

Brass SEMS  
Nickel-Plated  
(F524-J)

## CB3 Terminal Exit Options Inches (Millimeters)



**Exit Rear** (std.)



**EB**  
Exit Back

Hardware Options

Inches (Millimeters)  
(Bulk ordering part numbers are in parentheses)

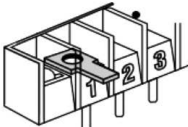


†OJ3  
(OJ3-J)

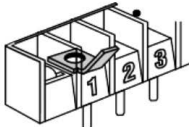


†OJ7  
(OJ7-J)

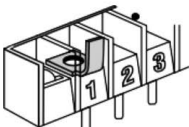
† Contact Eaton for desired configuration.



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



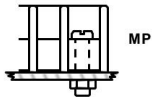
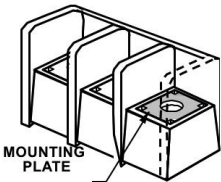
A8 & B8  
(2A8-J & 2B8-J)



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

Mounting Options Inches (Millimeters)

Mounting Plates



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

## Contact Us

### Sales and Customer Service

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Supercapacitors: [CapacitorTech@eaton.com](mailto:CapacitorTech@eaton.com)

[www.eaton.com/terminalblocks](http://www.eaton.com/terminalblocks)

## Tools

### Eaton's Electronics Product Selection Tools



#### PARAMETRIC SEARCH

Drill down into the Eaton Electronics product database to find the right part for your application.



#### IC MATCHING

Find the Eaton Electronics parts called out on IC manufacturers' demo and evaluation boards.



#### CROSS REFERENCE

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#### TERMINAL BLOCK SELECTOR

Find the right terminal block for any application.



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- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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