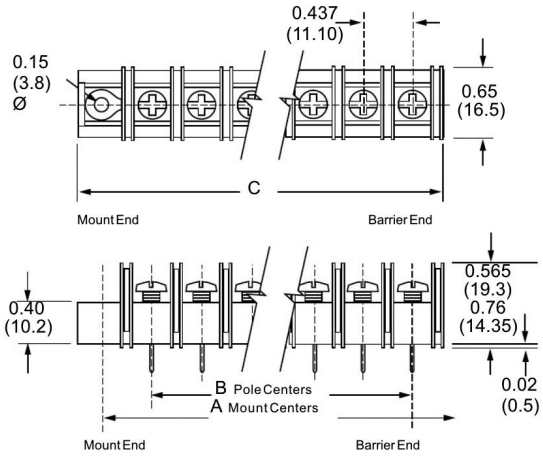
A3, LP3 & CB3

Dimensions Inches (Millimeters)

A3 & LP3

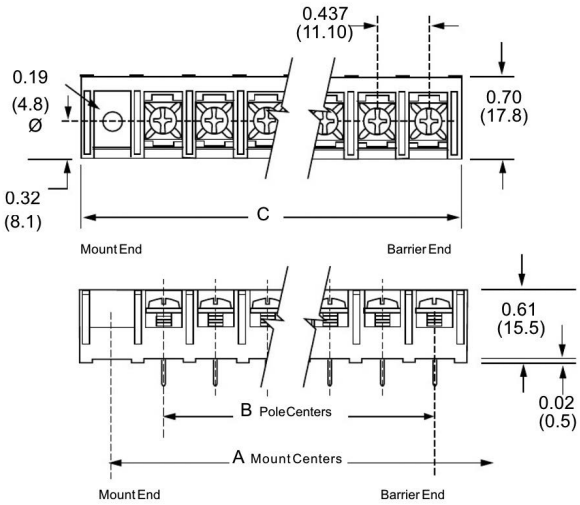
A31930307

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 philslot 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.

	MOUNTING ENDS ONLY		BARRIER & MOUNTING ENDS	BARRIER ENDS ONLY
Poles	A Mounting Ctrs.	C Length	B Pole 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	10.98	11.50
27	–	–	11.81	12.37
28	–	–	11.37	11.07

Powering Business Worldwide

Part Numbering System

Family

A 3

A3 - standard barrier

Terminal Style

01 - handwired
02 - printed circuit
03 - non feed-thru
04 - wire wrap tail
05 - extended handwired
07 - extended pin
09 - 0.250 QC short
10 - 0.187 QC
19 - 0.250 QC long

Base/End

1 - std. base/mount end
2 - std. base/barrier
3* - insulator base/mount end
4* - insulator base/barrier end
5** - closed base/mount end

Poles

02 to **28** barrier end
02 to **26** mount end

Screw Options

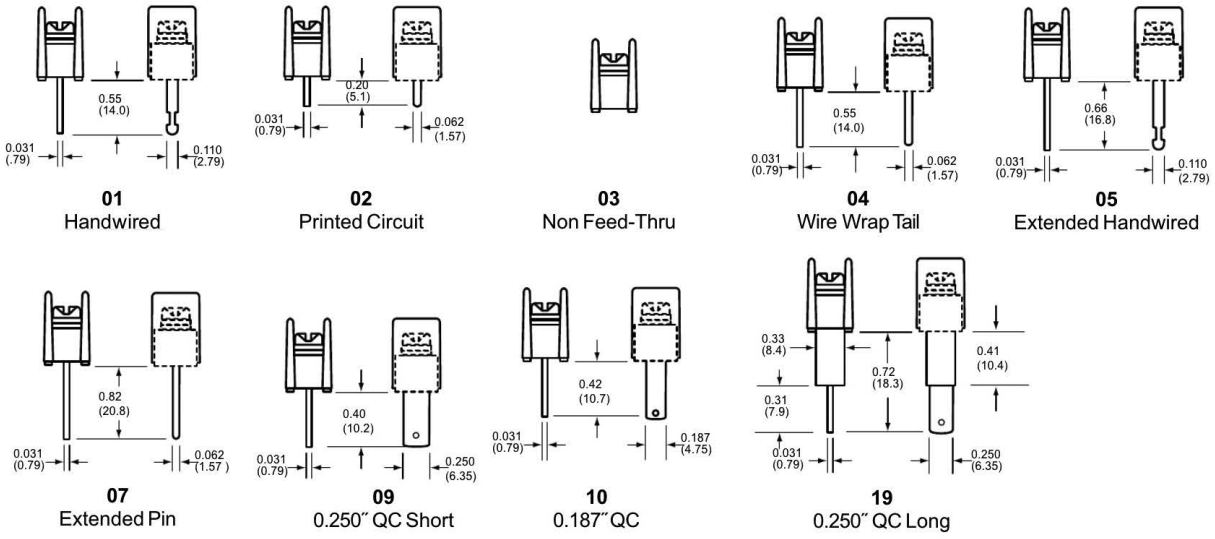
Blank–std. screws
03 - stainless steel
04 - brass nickel-plated
07 - steel SEMS zinc-plated***
09 - brass SEMS nickel-plated***
07WR - steel SEMS wire ready
CA† - captive screw

Options

AB - angle mnt. options (pg 18)
A1 to **A9** - 0.250″ QC
B1 to **B9** - 0.187″ QC
L1 to **L6** marking options (pg 25)
MP, MT - mounting plates (pg 18)
RC - retaining clips (pg 18)
R30 to **R66** - 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)



01 Handwired
02 Printed Circuit
03 Non Feed-Thru
04 Wire Wrap Tail
05 Extended Handwired
07 Extended Pin
09 0.250″ QC Short
10 0.187″ QC
19 0.250″ QC Long

Screw Options

(Bulk ordering part numbers are in parentheses)

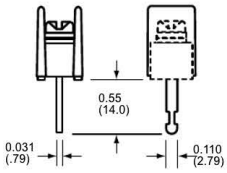
Standard Zinc-Plated Steel (F505-J)
03 Stainless Steel (F507-J)
04 Brass Nickel-Plated (F506-3)
07 Steel SEMS Zinc-Plated (F523-J)
09 Brass SEMS Nickel-Plated (F524-J)
07WR Wire Ready

Part Numbering System

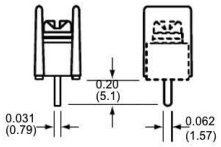
Family	Terminal Style	Base/End	Poles	Screw Options	Options
L P 3	☐ ☐	☐	☐ ☐	☐ ☐	☐ ☐ ☐
LP3 - low profile barrier	**01** - handwired **02** - printed circuit **03** - non feed-thru **04** - wire wrap tail **05** - extended handwired **07** - extended pin	**1** - std. base/ mount end **2** - std. base/ barrier **3*** - insulator base/mount end **4*** - insulator base/barrier end **5**** - closed base/mount end	**02** to **28** barrier end **02** to **26** on mount end	Blank–std. screws **00** - screws shipped **04** - brass nickel-plated **07** - steel SEMS zinc-plated*** **CA** - captive screw	**A1** to **A9** - 0.250″ QC **B1** to **B9** - 0.187″ QC **L1** to **L6** marking options (pg 25) **MP** - mounting plates (pg 18) **R30** to **R66** - right angle bends (pg 18)

* A2 only.
** Not compatible with 03-stainless steel screws.
*** SEMS screws not available with hardware options

Terminal Styles Inches (Millimeters)

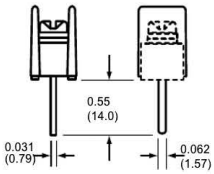


01
Handwired

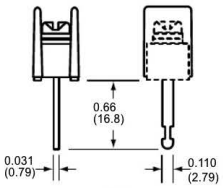


02
Printed Circuit

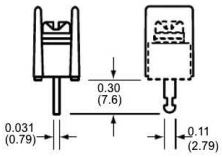
03
Non Feed-Thru



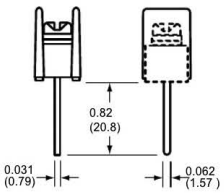
04
Wire Wrap Tail



05
Extended Handwired



06
Handwired



07
Extended Pin

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)

Hardware Options Inches (Millimeters)

(Bulk ordering part numbers are in parentheses)

Jumpers

†J201
Flat slip-on
(J201-J)

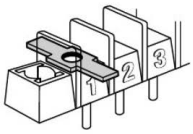
†OJ3
(OJ3-J)

†OJ7
LP3 Only
(OJ7-J)

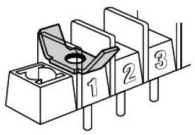
†OJ5
(OJ5-J)

† Contact Eaton for desired configuration.

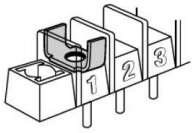
Quick Connects Blade Width A = 0.250" Blade Width B = 0.187"



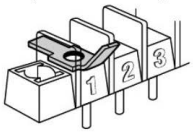
A1 & B1
(2A1-J & 2B1-J)



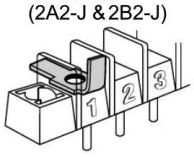
A2 & B2
(2A2-J & 2B2-J)



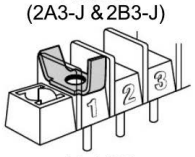
A3 & B3
(2A3-J & 2B3-J)



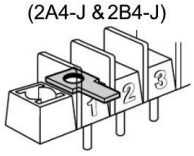
A4 & B4
(2A4-J & 2B4-J)



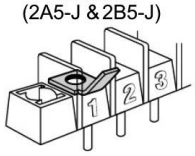
A5 & B5
(2A5-J & 2B5-J)



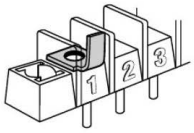
A6 & B6
(2A6-J & 2B6-J)



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



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

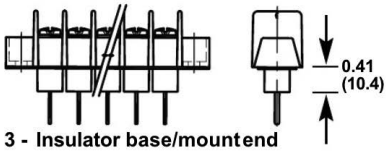


A9 & B9
(2A9-J & 2B9-J)

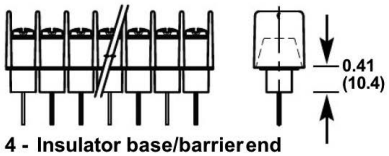
Base/End Options Inches (Millimeters)

1 - Standard base/mount end

2 - Standard base/barrier end



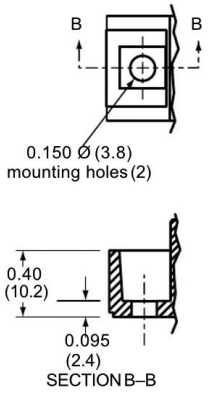
3 - Insulator base/mount end



4 - Insulator base/barrier end

5 - Closed base/mount end

Mount End Details



1, 3 & 5 Mount End

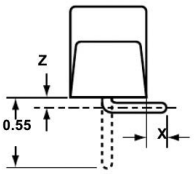
Note: On 1, 3 and 5 bases, Eaton may drill a terminal spacing to be a mount end. There will be no fit/form/function effect of mounting the product

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.

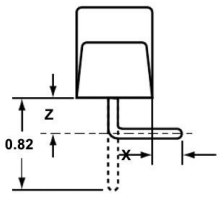
04 Terminal Bend Configurations



Bend Option Code	X (minimum)	Z	Available 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.

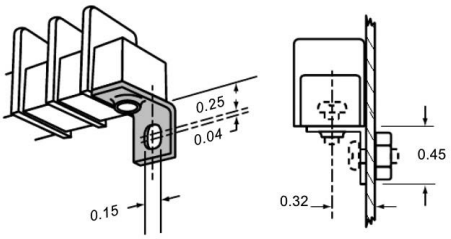
07 Terminal Bend Configurations



Bend Option Code	X (minimum)	Z	Available 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.

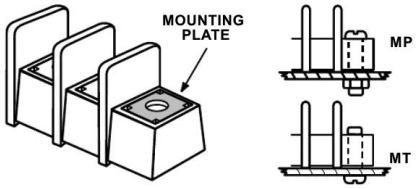
Angle Brackets (A3 only)



Option AB

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

Mounting Plates



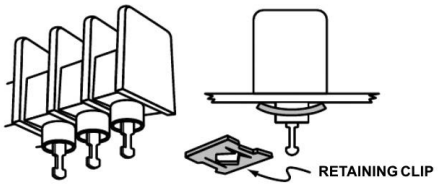
Options MP & MT

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

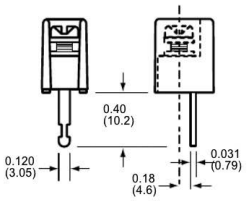
Use on standoff tubes. Fit panels up to 0.125" thick. Two clips for every five positions. Supplied unassembled. Bulk part number **H541-J**.

Part Numbering System

Family	Terminal Style	Base/End	Poles	Screw Options	Options
C B 3	☐ ☐	☐	☐ ☐	☐ ☐	☐ ☐ ☐
CB3 - closed back	**01** - handwired #6-32 screw **02** - printed circuit #6-32 screw **07** - extended pin #6-32 screw **51*** - handwired #8-32 screw **52*** - printed circuit #8-32 screw	**1** - mount end **2** - barrier end	**02** to **22** barrior end **02** to **20** on mount end	**07** - steel SEMS (standard) **09** - brass SEMS nickel-plated **CA** - SEMS captive	**A7** to **A9** - 0.250" QC **B7** to **B9** - 0.187" QC **EB** exit back terminals **L1** to **L6** marking options (pg 25) **LT1** to **LT6** marking options (pg 25) **MP** mtg. plates (pg 20) **Covers** - (pg 26)

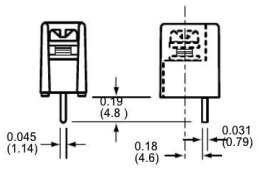
*Note: #8-32 screw is a special with #6-32 head.

Terminal Styles Inches (Millimeters)



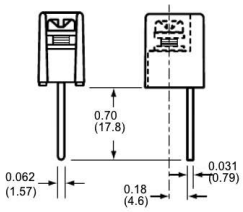
01
Handwired #6-32 screw

51
Handwired #8-32 screw



02
Printed Circuit #6-32 screw

52
Printed Circuit #8-32 screw



07
Extended Pin #6-32 screw

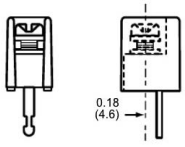
Screw Options

(Bulk ordering part numbers are in parentheses)

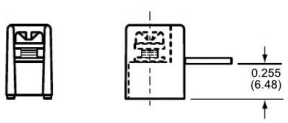
07
Steel SEMS
Zinc-Plated
(standard)
(B001-7084-J)

09
Brass SEMS
Nickel-Plated
(F524-J)

CB3 Terminal Exit Options Inches (Millimeters)



Exit Rear (std.)



EB
Exit Back

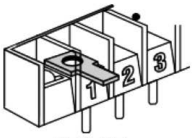
Hardware Options

Inches (Millimeters)

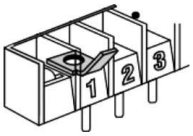
(Bulk ordering part numbers are in parentheses)

†OJ3
(OJ3-J)

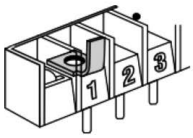
†OJ7
(OJ7-J)



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



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

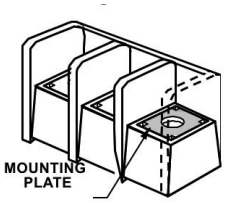


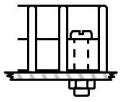
A9 & B9
(2A9-J & 2B9-J)

† Contact Eaton for desired configuration.

Mounting Options Inches (Millimeters)

Mounting Plates





Options MP

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

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Printed in USA
Publication No. 10682 — BU-MC17075
December 2017

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