



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

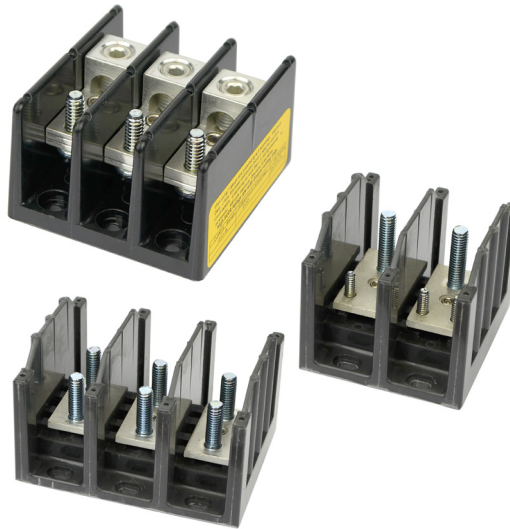
Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



# Stud blocks



## Catalog symbols:

- 162\_\_-(poles)
- 163\_\_-(poles)
- 165\_\_-(poles)

## Description:

Eaton's Bussmann™ series port-to-stud and stud-to-stud power terminal blocks are available with current ratings up to 760 A.

The stud connection is convenient for lug/ring wire terminals and allows for easy field wiring.

These blocks are UL® Recognized to UL 1059 and rated for use in UL 508A industrial control panels.

These blocks are factory configured from 1- to 3-poles (catalog number dependent) with optional covers available to enhance safety (order covers separately).

## Catalog number example:

**16280-3 is a 3-pole 16280**

Where:

- The prefix "16280" defines the block's lineside characteristics (i.e., one conductor port per pole that accepts 2/0 - #14 Cu/Al conductors) and the loadside characteristics (i.e., 1/4-20 x 3/4" stud).
- The suffix "3" in this example defines this as a three-pole block.
- See the catalog number tables for details on the available lineside/loadside characteristics.

## How to order:

From the catalog number tables, select the catalog number that defines the desired lineside/loadside port and conductor characteristics.

Add to the catalog number the suffix that defines the desired pole configuration. Note, you must select from the available number of poles for each catalog number. These appear in the second column of the catalog number tables.

## Specifications:

### Ratings

- Volts: 600 V
- Amps: 150 up to 760 A
- SCCR: up to 200 kA\* (see table for SCCR by catalog number)
- \* Maximum SCCR contingent upon the application of an upstream current-limiting overcurrent protective device. See table for fusing requirements.

### Flammability rating

- UL 94 V0

### Storage and operating temperature range

- -4°F to 248°F (-20°C to 120°C)

### Agency information

- UL 1059 Recognized, Guide XCFR2, File E62622
- CSA® Certified, Class 6228-01, File 15364

### Conductors†

- Stranded 75°C copper and aluminum
- Higher temperature rated conductors permitted with appropriate derating

† As specified in the catalog number table.























### Optional covers

- See table for catalog numbers specific to each block



Powering Business Worldwide

**Catalog numbers:**

Line/load configuration		No. of poles	Current rating (A)	Lineside			Loadside				
				Wire/stud size (Str/ferrule unless noted)*	Wires per port	Torque N•m (Lb-in)	Ports/pole	Stud/connector size	Studs/pole	SCCR (kA)	Catalog number
<b>Connector - to - stud</b>											
		1, 2, 3	175	2/0 - #1 Cu/Al (Str) #2 - #3 Cu/Al #4 - #8 Cu/Al #10 - #14 Cu	1 1-2	13.6 (120)	1	1/4-20 x 3/4" stud	1	200†	<b>16280-<u>  </u>**</b>
		2, 3	175	2/0 - #1 Cu/Al (Str) #2 - #3 Cu/Al #4 - #8 Cu/Al #10 - #14 Cu	1 1-2	13.6 (120)	1	M6 x 1" stud	1	200†	<b>16280-<u>  </u>-M</b>
		1, 2, 3	175	2/0 - #1 Cu/Al (Str) #2 - #3 Cu/Al #4 - #8 Cu/Al #10 - #14 Cu	1 1-2	13.6 (120)	1	1/4-20 tapped hole	1	10	<b>16281-<u>  </u>**</b>
		1, 2, 3	380	500kcmil - 4/0 Cu/Al (Str) 3/0 - 1/0 Cu/Al (Str) #1 - #6 Cu/Al	1 1-2	56.5 (500)	1	1/4-20 x 1" stud	2	10	<b>16378-<u>  </u></b>
		1, 2, 3	380	500kcmil - 4/0 Cu/Al (Str) 3/0 - 1/0 Cu/Al (Str) #1 - #6 Cu/Al	1 1-2	56.5 (500)	1	3/8-16 x 1" stud	1	10	<b>16383-<u>  </u></b>
		1, 2, 3	760	500kcmil - 4/0 Cu/Al (Str) 3/0 - 1/0 Cu/Al (Str) #1 - #6 Cu/Al	1 1-2	56.5 (500)	2	3/8-16 x 1-5/8" stud	2	10	<b>16582-<u>  </u></b>
<b>Stud - to - stud</b>											
		1, 2, 3	175	1/4-20 x 3/4" stud			1	1/4-20 x 3/4" stud	1	10	<b>16290-<u>  </u>**</b>
		1, 2, 3	250	3/8-16 x 1-1/8" stud			1	3/8-16 x 1-1/8" stud	1	10	<b>16390-<u>  </u></b>
		1, 2, 3	310	3/8-16 x 1-7/16" stud			1	1/4-20 x 9/16" stud	2	10	<b>16395-<u>  </u></b>
		1, 2, 3	400	3/8-16 x 1-1/8" stud			1	3/8-16 x 1-1/8" stud	1	10	<b>16392-<u>  </u>-H††</b>
		1, 2, 3	400	1/2-13 x 1-1/16" stud			1	1/2-13 x 1-1/16" stud	1	10	<b>16394-<u>  </u></b>
		1, 2, 3	400	3/8-16 x 1-7/16" stud			1	3/8-16 x 1-7/16" stud	2	10	<b>16591-<u>  </u>**</b>
		1, 2, 3	600	1/2-13 x 1" stud			1	1/2-13 x 1" stud	1	10	<b>16593-<u>  </u></b>

\* 75°C wire (higher temperature rated wire acceptable with appropriate derating). Using a ferrule on a stranded conductor requires a correctly sized UL Listed ferrule (customer supplied) applied according to the manufacturer's specifications. Ferrule ratings apply to copper wire only.

\*\* Not covered by CSA certification.

† See table on next page for the tested upstream overcurrent protective devices necessary for achieving this SCCR.

†† Configuration includes washers and hex nuts for each stud.



**Short-Circuit Current Rating (SCCR) data for block 16280-\_:**

Catalog number	No. of poles	Conductors (AWG)		Fuse class/Bussmann series symbol/ampacity					SCCR
		Lineside	Loadside	J LPJ	RK1 LPN-RK (250 V), LPS-RK (600 V)	RK5 FRN-R (250 V), FRS-R (600 V)	T JJN (300 V), JJS (600 V)		
16280-_ 16280-1	1, 2, 3	2/0 - #8	1/4-20x3/4 stud	200	200	60	200	200 kA	

**Dual wire port application**

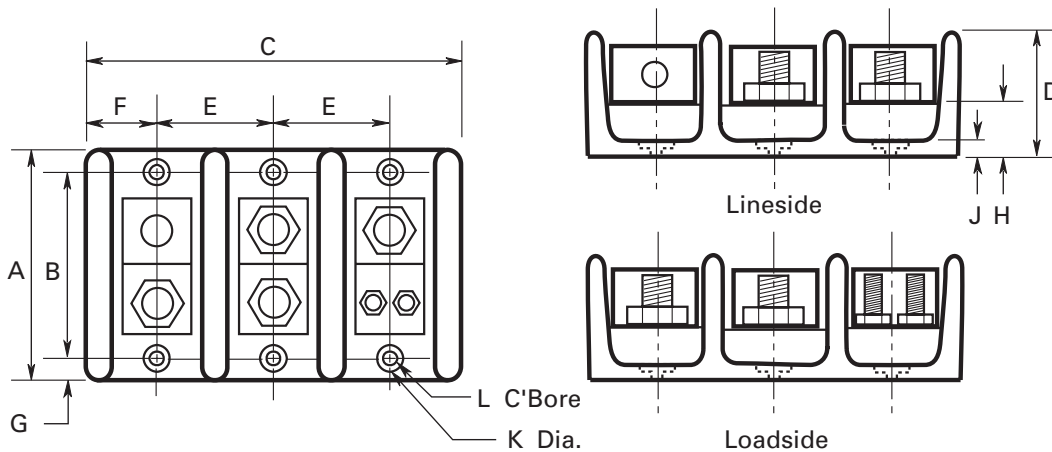
- Rated for dual wire port application to increase the possible number of lineside and loadside connections. E.g., 16280-1 can accept two wires into the lineside port (#4 - #8 Cu/Al, #10 - #14 Cu).
- Dual wire applications are only viable when using two wires of the same size, stranding, and insulating and conductor material in the same port.

**Ferrule terminal application**

- Bussmann series stud blocks are rated for use with UL Listed ferrules (see catalog number table for details). Ferrule ratings apply to copper wire only.
- Ferrule applications allow for the use of a broader range of conductor stranding and simulate a more efficient, solid wire connection with the terminal port.
- Always use UL Listed ferrules in accordance with the manufacturer’s specifications and instructions.

**Dimensions — in**

**162\_, 163\_ and 165\_ blocks**



Note: lineside and loadside connections vary by part number

Catalog number prefix	A	B	C1	C2	C3	D	E	F	G	H	J	K	L
162_	2.88	2.25	1.07	1.88	2.70	1.75	0.82	0.54	0.32	0.84	0.31	0.20	0.41
163_	4.0	3.38	1.98	3.60	5.21	3.32	1.62	0.99	0.31	0.88	0.35	Slot 0.20" wide x 0.41" long	Slot 0.42" wide x 0.62" long
165_	5.5	4.75	3.11	5.76	8.48	2.94	2.69	1.55	0.36	1.19	0.44	Slot 0.20" wide x 0.33" long	Slot 0.41" wide x 0.53" long

**Optional covers**

Electrical safety can be enhanced by installing optional covers.

From the table below, order the cover catalog number that matches the block catalog number.

Block catalog number	Poles	Cover catalog number
16280-1	1	CPB162-1*
16280-2	2	CPB162-2*
16280-3	3	CPB162-3*
16280-2-M	2	CPB162-2*
16280-3-M	3	CPB162-3*
16281-1	1	CPB162-1*
16281-2	2	CPB162-2*
16281-3	3	CPB162-3*
16290-1	1	CPB162-1*
16290-2	2	CPB162-2*
16290-3	3	CPD162-3*
16378-1	1	CPDB-1*
16378-2	2	CPDB-2*
16378-3	3	CPDB-3*
16383-1	1	CPDB-1*
16383-2	2	CPDB-2*
16383-3	3	CPDB-3*
16390-1	1	CPDB-1*
16390-2	2	CPDB-2*
16390-3	3	CPDB-3*
16392-1-H	1	CPDB-1*
16392-2-H	2	CPDB-2*
16392-3-H	3	CPDB-3*
16394-1	1	CPDB-1*
16394-2	2	CPDB-2*
16394-3	3	CPDB-3*
16395-1	1	CPDB-1*
16395-2	2	CPDB-2*
16395-3	3	CPDB-3*
16582-1	1	CPDB165**
16582-2	2	CPDB165**
16582-3	3	CPDB165**
16591-1	1	CPDB165**
16591-2	2	CPDB165**
16591-3	3	CPDB165**
16593-1	1	CPDB165**
16593-2	2	CPDB165**
16593-3	3	CPDB165**

\* Cover catalog number provides one individual cover for each block.

\*\* Order one cover for each pole.

The only controlled copy of this data sheet is the electronic read-only version located on the Eaton network drive. All other copies of this document are by definition uncontrolled. This bulletin is intended to clearly present comprehensive product data and provide technical information that will help the end user with design applications. Eaton reserves the right, without notice, to change design or construction of any products and to discontinue or limit distribution of any products. Eaton also reserves the right to change or update, without notice, any technical information contained in this bulletin. Once a product has been selected, it should be tested by the user in all possible applications.

**Eaton**  
 1000 Eaton Boulevard  
 Cleveland, OH 44122  
 Eaton.com

Bussmann Division  
 114 Old State Road  
 Ellisville, MO 63021  
 United States  
 Eaton.com/bussmannseries

© 2017 Eaton  
 All Rights Reserved  
 Printed in USA  
 Publication No. 10535 — BU-MC16058  
 November 2017

Eaton and Bussmann are valuable trademarks of Eaton in the U.S. and other countries. You are not permitted to use the Eaton trademarks without prior written consent of Eaton.

CSA is a registered trademark of the Canadian Standards Group.  
 UL is a registered trademark of the Underwriters Laboratories, Inc.

For Eaton’s Bussmann series product information, call **1-855-287-7626** or visit: **Eaton.com/bussmannseries**

Follow us on social media to get the latest product and support information.

