Chipsmall

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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

Splicer blocks

Catalog symbols:

- 160__-(poles)
- 162__-(poles)
- 163__-(poles)
- 165__-(poles)

Description:

Bussmann® series splicer blocks allow for increasing or decreasing wire size within a circuit to accommodate different connections from the power source to the branch load.

Splicer blocks are available for wire sizes up to 500 kcmil and amp ratings up to 760 A.

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

These blocks are factory configured from 1- to 4-poles (catalog number dependent) with optional covers available to enhance safety (order covers separately).

Powering Business Worldwide

Catalog number example:

16204-3 is a 3-pole 16204

Where:

- The prefix "16204" defines the block's lineside and loadside characteristics (i.e., conductor port per pole that accepts 2/0 - #14 Cu, or 2/0 - #12 Al conductors).
- 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: 115 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

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

Catalog numbers:

Line/load port configuration	No. of poles	Current rating (A)	Lineside Wire size (Str/ferrule unless noted)*	Lineside Wires per port	Lineside Torque N•m (Lb-in)	Ports/ Pole	Loadside Wire size (Str/ferrule unless noted)*	Loadside Wires per port	Loadside Torque N•m (Lb-in)	Ports/ pole	SCCR (kA)	Catalog number
	1, 2, 3	115	#2 - #3 Cu/Al (Str)	1	5.6 (50)	1	#2 - #3 Cu/Al (Str)	1	5.6 (50)	1	10	**16200-_****
			#4 - #6 Cu/Al (Str)	1	5.1 (45)		#4 - #6 Cu/Al (Str)	1	5.1 (45)			
			#8 Cu/Al (Str)	1	4.5 (40)		#8 Cu/Al (Str)	1	4.5 (40)			
			#10 - #14 Cu (Str)	1	4.0 (35)		#10 - #14 Cu (Str)	1	4.0 (35)			
	1, 2, 3	150	1/0 - #3 Cu (Str)	1	5.6 (50)	1	1/0 - #3 Cu (Str)	1	5.6 (50)	1	10	**16201-_**
			#4 - #6 Cu (Str)	1	5.1 (45)		#4 - #6 Cu (Str)	1	5.1 (45)			
			#8 Cu (Str)	1	4.5 (40)		#8 Cu (Str)	1	4.5 (40)			
			#10 - #14 Cu (Str)	1	4.0 (35)		#10 - #14 Cu (Str)	1	4.0 (35)			
	2, 3, 4	175	2/0 - #1 Cu/Al (Str)	1	12.4 (110)	1	2/0 - #1 Cu/Al (Str)	1	12.4 (110)	1	10	**16000-_****
			#2 - #8 Cu/Al	1			#2 - #8 Cu/Al	1				
			#10 - #12 Al (Str)	1	4.0 (35)		#10 - #12 Al (Str)	1	4.0 (35)			
			#10 - #14 Cu	1			#10 - #14 Cu	1				
			#4 - #8 Cu/Al	2	13.6 (120)		#4 - #8 Cu/Al	2	13.6 (120)			
			#10 - #14 Cu	2			#10 - #14 Cu	2				
	1, 2, 3	175	2/0 - #1 Cu/Al (Str)	1	12.4 (110)	1	2/0 - #1 Cu/Al (Str)	1	12.4 (110)	1	200†	**16204-_**
			#2 - #8 Cu/Al	1			#2 - #8 Cu/Al	1				
			#10 - #12 Al (Str)	1	4.0 (35)		#10 - #12 Al (Str)	1	4.0 (35)			
			#10 - #14 Cu	1			#10 - #14 Cu	1				
			#4 - #8 Cu/Al	2	13.6 (120)		#4 - #8 Cu/Al	2	13.6 (120)			
			#10 - #14 Cu	2			#10 - #14 Cu	2				
	2, 3, 4	255	250kcmil - #6 Cu	1	42.4 (375)	1	250kcmil - #6 Cu	1	42.4 (375)	1	10	**16003-_****
	1, 2, ,3	255	250kcmil - #6 Cu	1	42.4 (375)	1	250kcmil - #6 Cu	1	42.4 (375)	1	10	**16301-_**
	2, 3, 4	310	350kcmil - 2/0 Cu/Al (Str)	1	31.1 (275)††	1	350kcmil - 2/0 Cu/Al (Str)	1	31.1 (275)††	1	10	**16005-_****
			1/0 Cu/Al (Str)	1-2			1/0 Cu/Al (Str)	1-2				
			#1 - #6 Cu/Al	1-2			#1 - #6 Cu/Al	1-2				
	1, 2, ,3	310	350kcmil - 2/0 Cu/Al (Str)	1	31.1 (275)††	1	350kcmil - 2/0 Cu/Al (Str)	1	31.1 (275)††	1	10	**16303-_**
			1/0 Cu/Al (Str)	1-2			1/0 Cu/Al (Str)	1-2				
			#1 - #6 Cu/Al	1-2			#1 - #6 Cu/Al	1-2				
	1, 2, ,3	380	500kcmil - 4/0 Cu/Al (Str)	1	56.5 (500)	1	500kcmil - 4/0 Cu/Al (Str)	1	56.5 (500)	1	10	**16306-_**
			3/0 - 1/0 Cu/Al (Str)	1-2			3/0 - 1/0 Cu/Al (Str)	1-2				
			#1 - #6 Cu/Al	1-2			#1 - #6 Cu/Al	1-2				
	1, 2, ,3	620	350kcmil - 2/0 Cu/Al (Str)	1	31.1 (275)††	2	350kcmil - 2/0 Cu/Al (Str)	1	31.1 (275)††	2	10	**16500-_**
			1/0 Cu/Al (Str)	1-2			1/0 Cu/Al (Str)	1-2				
			#1 - #4 Cu/Al	1-2			#1 - #4 Cu/Al	1-2				
			#6 Cu/Al	2			#6 Cu/Al	2				
	1, 2, ,3	760	500kcmil - 4/0 Cu/Al (Str)	1	56.5 (500)	2	500kcmil - 4/0 Cu/Al (Str)	1	56.5 (500)	2	10	**16504-_**
			3/0 - 1/0 Cu/Al (Str)	1-2			3/0 - 1/0 Cu/Al (Str)	1-2				
			#1 - #6 Cu/Al	1-2			#1 - #6 Cu/Al	1-2				

* 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 below for the tested upstream overcurrent protective devices necessary for achieving this SCCR.
†† Torque rating for dual wire and ferrule application is 30.5 N•m (270 Lb-in).

Short-Circuit Current Rating (SCCR) data for block 16204-_:

| Catalog number	No. of poles	Conductors (AWG) Lineside	Conductors (AWG) Loadside	Fuse class/Bussmann series symbol/ampacity 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)	SCCR	Minimum enclosure size
16204-_	1, 2, 3	2/0 - #8	2/0 - #8	200	200	60	200	200 kA	16 x 16 x 6.75

Dual wire port application

- Rated for dual wire port application to increase the possible number of lineside and loadside connections. E.g., 16303-1 can accept two wires into the lineside port (1/0 - #6 Cu/Al) and two wires per port (2 connections per pole total) on the loadside lug (1/0 - #6 Cu/Al).
- 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 splicer 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 PDB terminal port.
- Always use UL Listed ferrules in accordance with the manufacturer's specifications and instructions.

Dimensions — in

160_ blocks
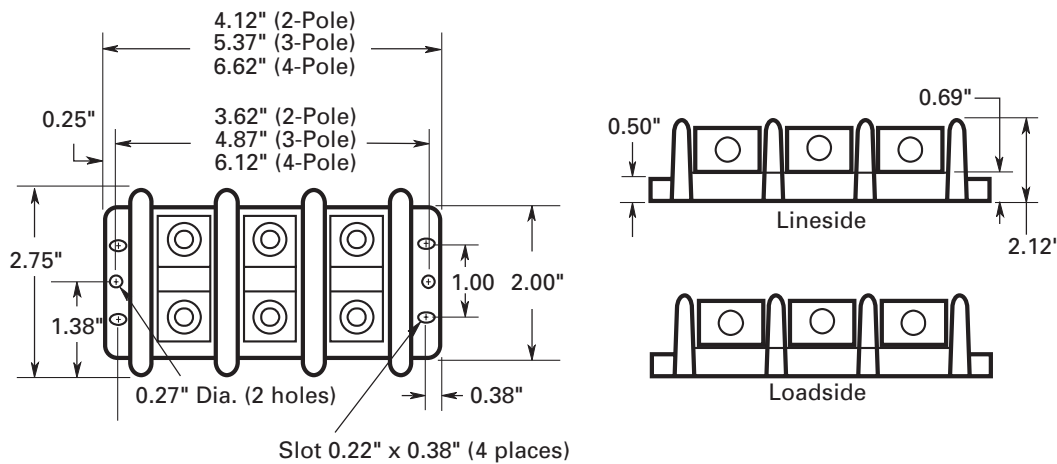
162_, 163_ and 165_ blocks
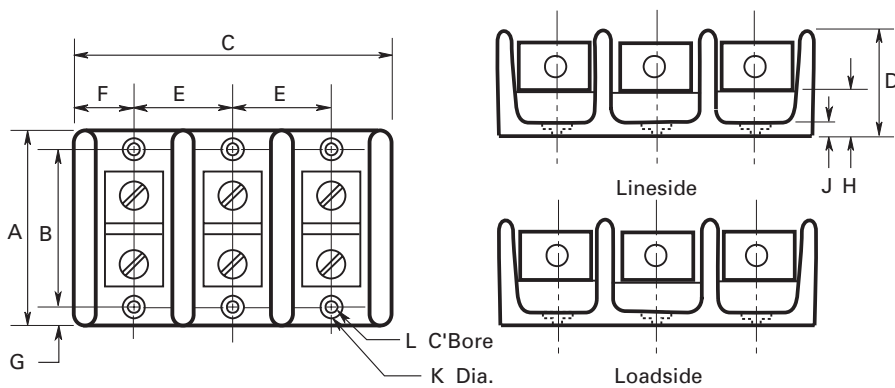
Catalog number prefix	A	B	C1	C2	C3	D	E	F	G	H	J	K	L
162_	2.88	2.25	1.07	1.88	2.70	1.75	0.82	0.54	0.32	0.84	0.31	0.20	0.41
163_	4.0	3.38	1.98	3.60	5.21	3.32	1.62	0.99	0.31	0.88	0.35	Slot 0.20" wide x 0.41" long	Slot 0.42" wide x 0.62" long
165_	5.5	4.75	3.11	5.76	8.48	2.94	2.69	1.55	0.36	1.19	0.44	Slot 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
16000-2	2	CPB160-2*
16000-3	3	CPB160-3*
16000-4	4	CPB160-4*
16003-2	2	CPB160-2*
16003-3	3	CPB160-3*
16003-4	4	CPB160-4*
16005-2	2	CPB160-2*
16005-3	3	CPB160-3*
16005-4	4	CPB160-4*
16200-1	1	CPB162-1*
16200-2	2	CPB162-2*
16200-3	3	CPB162-3*
16201-1	1	CPB162-1*
16201-2	2	CPB162-2*
16201-3	3	CPB162-3*
16204-1	1	CPB162-1*
16204-2	2	CPB162-2*
16204-3	3	CPD162-3*
16301-1	1	CPDB-1*
16301-2	2	CPDB-2*
16301-3	3	CPDB-3*
16303-1	1	CPDB-1*
16303-2	2	CPDB-2*
16303-3	3	CPDB-3*
16306-1	1	CPDB-1*
16306-2	2	CPDB-2*
16306-3	3	CPDB-3*
16500-1	1	CPDB165**
16500-2	2	CPDB165**
16500-3	3	CPDB165**
16504-1	1	CPDB165**
16504-2	2	CPDB165**
16504-3	3	CPDB165**

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

** Order one cover for each pole.

Eaton
1000 Eaton Boulevard
Cleveland, OH 44122
Eaton.com

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

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