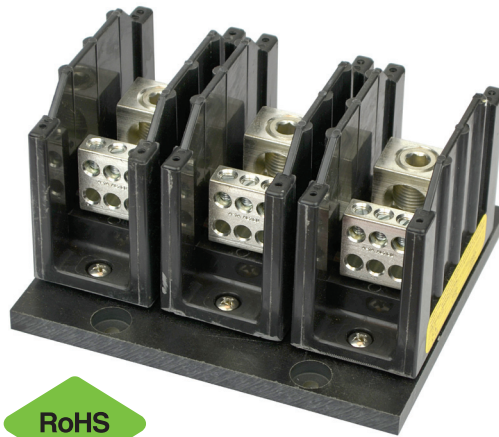


UL Listed power distribution blocks



RoHS

Catalog symbol:

- PDB____(poles)

Description:

Eaton's Bussmann® series high Short-Circuit Current Rating (SCCR) power distribution blocks provide up to 200 kA SCCR and help achieve compliance with National Electrical Code (NEC®) and OSHA requirements by resolving a common SCCR "weak link" in industrial control panels.

Available in 1-, 2- and 3-pole panel mount versions with popular lineside and loadside port configurations, these blocks are UL® Listed and provide the requisite spacing between uninsulated opposite polarities or ground by meeting the UL 1953 1" through air and 2" over surface spacings required per UL 508A for feeder circuit applications and per NEC for field installations.

To increase application flexibility, these blocks feature dual-wire rated ports that accept copper or aluminum conductors while retaining a UL Listed status.

Optional covers are available to enhance electrical safety.

Catalog number example:

PDB323-3 is a 3-pole PDB323

Where:

- The prefix "PDB323" defines the block's lineside characteristics (i.e., one conductor port per pole that accepts 350 kcmil - #6 Cu/Al conductors) and the loadside characteristics (i.e., six (6) conductor ports per pole that each accepts #4 - #14 Cu or #4 - #12 Al conductors).
- The suffix "3" in this example defines this as a three-pole block.
- See the catalog number table for details on the available lineside/loadside characteristics.

How to order:

From the catalog number table, 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: 175 to 310 A
- SCCR: 200 kA (see table for circuit protection details)

Flammability rating

- UL 94 V0

Agency information

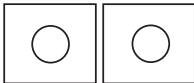
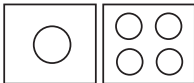
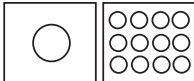
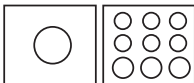
- UL 1953 Listed, Guide QPQS, File E256146
- CSA® Certified, Class 6228-01, File 47235

Conductors†

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

† As specified in the catalog number table.

Catalog numbers:

Line/load port configuration			No. of poles	Current rating (A)	Lineside				Loadside				Max SCCR (kA)**	Catalog number
					Wire size (Str/ferrule unless noted)*	Wires per port	Torque N•m (Lb-in)	Ports/pole	Wire size (Str/ferrule unless noted)*	Wires per port	Torque N•m (Lb-in)	Ports/pole		
	1, 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	PDB204_		
			#2 - #3 Cu/Al	1			#2 - #3 Cu/Al	1						
			#4 - #8 Cu/Al	1			#4 - #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	#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	#10 - #14 Cu	2									
	1, 3	175	2/0 - #1 Cu/Al (Str)	1	13.6 (120)	1	#4 - #6 Cu/Al (Str)	1	4.0 (35)	4	200	PDB220_		
			#2 - #3 Cu/Al	1			#8 Cu	1	2.8 (25)					
			#4 - #8 Cu/Al	1-2			#8 Al (Str)	1-2	2.8 (25)					
			#10 - #14 Cu	1-2			#10 - #14 Cu	1-2	2.3 (20)					
	1, 3	175	2/0 - #1 Cu/Al (Str)	1	13.6 (120)	1	1/4-20 x 3/4" Stud	—	—	1	200	PDB280_		
			#2 - #3 Cu/Al	1										
			#4 - #8 Cu/Al	1-2										
			#10 - #14 Cu	1-2										
	1, 2, 3	175	2/0 - #1 Cu/Al (Str)	1	13.6 (120)	1	#4 - #6 Cu/Al (Str)	1	4.0 (35)	6	200	PDB321_		
			#2 - #3 Cu/Al	1			#8 Al (Str)	1-2	2.8 (25)					
			#4 - #8 Cu/Al	1-2			#8 Cu	1	4.0 (35)					
			#10 - #12 Al (Str)	1			#10 - #12 Al (Str)	1	4.0 (35)					
			#10 - #14 Cu	1-2			#10 - #14 Cu	1-2	2.3 (20)					
	1, 3	310	350kcmil - 2/0 Cu/Al (Str)	1	31.1 (275) [†]	1	#4 - #6 Cu/Al (Str)	1	4.0 (35)	6	200	PDB323_		
			1/0 Cu/Al (Str)	1-2			#8 Al (Str)	1-2	2.8 (25)					
			#1 - #6 Cu/Al	1-2			#8 Cu	1	4.0 (35)					
				#10 - #12 Al (Str)			1	2.3 (20)						
							#10 - #14 Cu	2						
	1, 3	310	350kcmil - 2/0 Cu/Al (Str)	1	31.1 (275) [†]	1	#4 - #6 Cu/Al (Str)	1	4.0 (35)	12	200	PDB370_		
			1/0 Cu/Al (Str)	1-2			#8 Al (Str)	1-2	2.8 (25)					
			#1 - #6 Cu/Al	1-2			#8 Cu	1	4.0 (35)					
				#10 - #12 Al (Str)			1	2.3 (20)						
							#10 - #14 Cu	1-2						
	1, 3	310	350kcmil - 2/0 Cu/Al (Str)	1	31.1 (275) [†]	1	#2 - #3 Cu/Al (Str)	1	5.6 (50)	6	200	PDB371_		
			#4 - #8 Al (Str)	1			5.1 (45)							
				#6 - #8 Al (Str)				2						
				#4 Cu				1	4.5 (40)					
			#6 Cu	1-2			4.0 (35)	3						
			#8 Cu	1-2			13.6 (120)							
			#10 - #12 Cu	1-2										
			1/0 - #3 Cu/Al (Str)	1			5.1 (45) ^{††}	3						
			#4 - #6 Cu/Al	1			4.5 (40) ^{††}							
			#8 Cu/Al	1			4.0 (35) ^{††}							
			#10 - #12 Cu	1										
			#6 - #14 Cu	2										
			#4 - #6 Al (Str)	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.

** See pages 4 and 5 for the tested upstream overcurrent protective devices necessary for achieving these SCCRs.

† Torque rating for dual wire and ferrule application is 30.5 N•m (270 Lb-in).

†† Torque rating for ferrule application is 13.6 N•m (120 Lb-in).