Finger-safe enclosed power distribution blocks

BUSSMANN SERIES

Maximize short-circuit current rating while improving safety

UL Listed, finger-safe Bussmann series enclosed power distribution blocks offer high SCCRs.

RoHS

Product description:

The 2014 NEC® and UL® 508A Short-Circuit Current Rating (SCCR) marking requirements state that the following equipment must be marked with an equipment SCCR:

- Industrial control panels [409.110]
- Industrial machinery electrical panels [670.3(A)]
- Certain HVAC equipment [440.4(B)]

This SCCR is based on the lowest-rated component, or "weakest link," in the equipment. Unmarked power distribution blocks will default to a 10kA rating.

Eaton's Bussmann® series Finger-Safe Power Distribution Blocks (PDBFS) offer both high SCCR and enhanced electrical safety.

Features and benefits:

- UL Listing meets the requirements for eliminating investigation and procedures. Listed to UL 1953 for minimum spacing requirements of at least 1″ through air and 2″ over surface as required for UL 508A industrial control panel feeder applications.
- Up to 200kA rating enables the power distribution block to be one of the highest rated components in the panel. This helps achieve a high equipment SCCR.
- Enclosed for safer work conditions, and finger-safe and IP20 under specific conditions.
- Modular, space-saving design. Gangable for multi-pole installations, plus small footprint for tight spacing.
- Meets wireway application requirements, and can be used to meet 2014 NEC 376.56(B) requirements for non-exposed live parts with or without an installed wireway cover.

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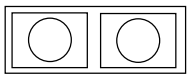
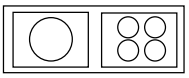
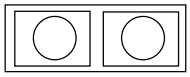
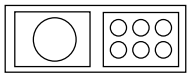
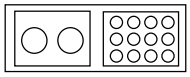
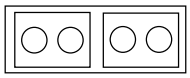
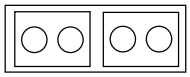
Specifications

- UL Listed 1953. File E256146
- CSA® Certi□ed, Class 6228-01, File 15364
- 600Vac/dc (UL 1953), 690Vac/dc (IEC®)
- SCCRs up t□ 200kA, see table f□r details
- Single-p□le, gangable f□r multiple p□le applicati□ns with access□ry part 2A1279 interl□cking d□vetail
- R□HS c□mpliant

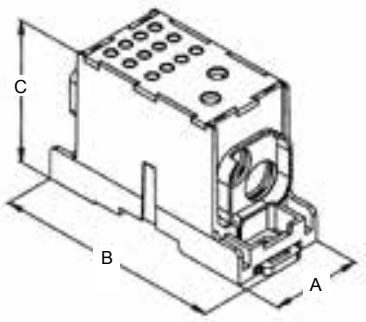
UL Listed 1953 vs. UL Recognized 1059

Listed pr□ducts require simply ensuring that the pr□duct is used in acc□rdance with its listing and labeling. H□wever, f□r rec□gnized pr□ducts, such as p□wer terminal bl□cks, the "c□nditi□ns □f acceptability" must be investigated t□ ensure the pr□duct is suitable f□r the specific applicati□n, and then the pr□cedure descripti□n must be d□cumented in the manufacturer's pr□cedure f□r the equipment.

Catalog numbers

		Terminal copper conductor capability			Short-circuit current rating data						
		Line	Load	Con□guration	Conductors		Max fuse class and amp*				
Catalog number (All single pole)	Amps	Wire range	Wire range	Openings per pole	Line AWG or kcmil	Load AWG or kcmil	J LPJ	T JJS JJN	RK1 LPS-RN LPN-RN	RK5 FRS-R FRS-R	SCCR
PDBFS204	175A	2/0 t□ 8AWG Cu/Al	2/0 t□ 8AWG Cu/Al		2/0 t□ 8	2/0 t□ 8	200	200	100	60	200kA
PDBFS220	175A	2/0 t□ 14AWG Cu 2/0 t□ 8AWG Al	4 t□ 14AWG Cu 4 t□ 8AWG Al		2/0 t□ 8	4 t□ 12	200	200	100	60	200kA
						4 t□ 14	175	175	100	30	100kA
							200	200	100	60	50kA
PDBFS303	310A	350kcmil t□ 6AWG Cu/Al	350kcmil t□ 6AWG Cu/Al		350 t□ 6	350 t□ 6	400	400	200	100	200kA
PDBFS330	380A	500kcmil t□ 6AWG Cu/Al	2 t□ 14AWG Cu 2 t□ 12AWG Al		500 t□ 6	2 t□ 6	400	400	200	100	200kA
						6 t□ 14	200	200	100	60	50kA
							175	175	100	30	100kA
PDBFS377	570A	300kcmil t□ 4AWG Cu/Al	4 t□ 14AWG Cu 4 t□ 12AWG Al		300 t□ 4	300 t□ 4	600	600	400	200	200kA
						4 t□ 14	200	200	100	60	50kA
PDBFS500	620A	300kcmil t□ 4AWG Cu/Al	350kcmil t□ 4AWG Cu/Al		350 t□ 4	350	600	600	400	200	200kA
						350 t□ 4	600	600	400	200	100kA
PDBFS504	760A	500kcmil t□ 6AWG Cu/Al	500kcmil t□ 6AWG Cu/Al		500	500	600	800	600	200	200kA**
					500 t□ 6	500 t□ 6	600	600	400	200	100kA

Ampacities 75□C per NEC table 310.16 and UL 508A table 28.1
*Class G 60A (SC-60) □r less □r Class CC 30A (LP-CC-30, FNQ-R-30, KTK-R-30) □r less are suitable f□r all SCCRs in this table.
**Class L 800A (KRP-C 800_SP) □r less fuses suitable f□r this particular SCCR case.



Dimensions—in (mm)			
Catalog number	Width (A)	Length (B)	Height (C)
PDBFS204	1.03 (26)	3.37 (95)	2.15 (54)
PDBFS220	1.03 (26)	3.37 (95)	2.15 (54)
PDBFS303	1.55 (39)	4.66 (118)	2.87 (73)
PDBFS330	1.55 (39)	4.66 (118)	2.95 (75)
PDBFS377	1.87 (48)	4.66 (118)	2.93 (74)
PDBFS500	2.38 (60)	4.66 (118)	2.6 (66)
PDBFS504	2.56 (65)	4.66 (118)	3.15 (80)

See data sheet N□. 1049 f□r additi□nal inf□rmati□n.

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