

Eaton Bussmann Series

Power distribution blocks



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Power distribution blocks

1 pole

Technical data

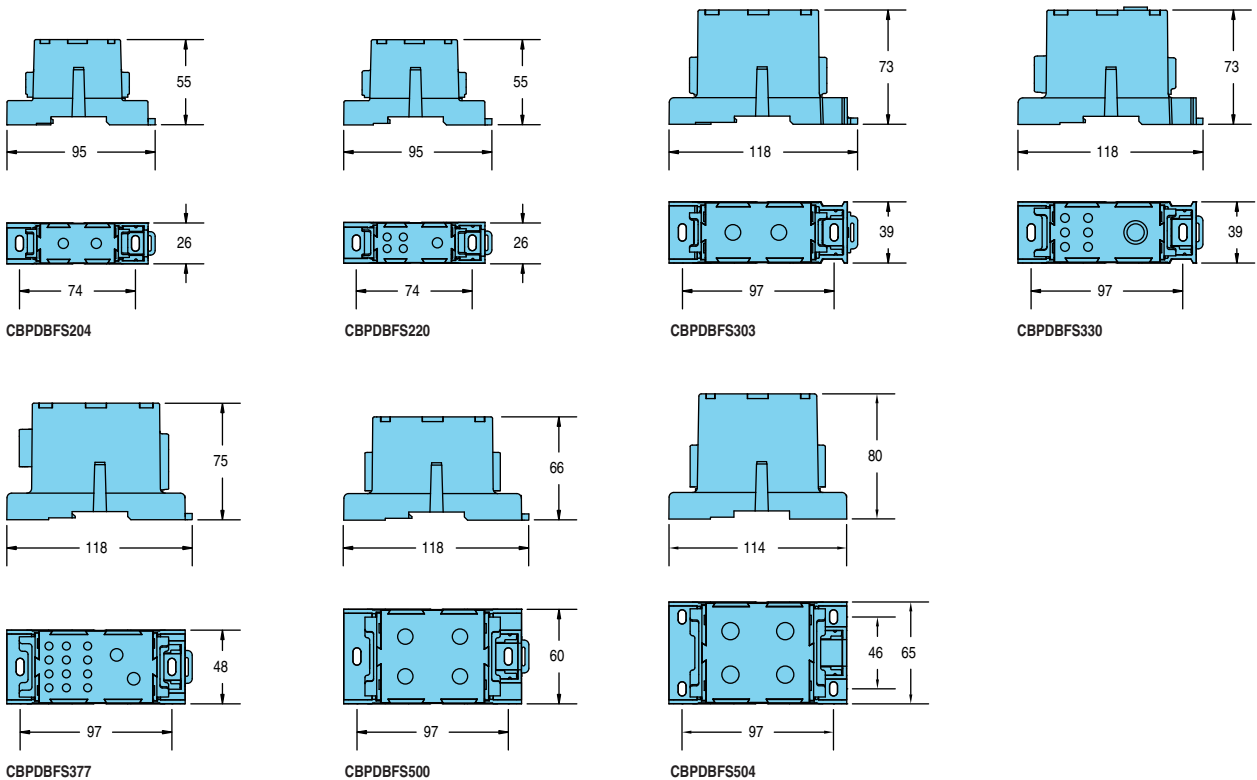


Rated voltage, Un	IEC: 690 V, UL: 600 V, self certified 1000 V
Rated current, In	175-760 A
Terminal	Tin plated aluminium terminal suitable for copper or aluminium conductor
Installation	On 35 mm DIN rail or panel mount, 760 A panel mount only
Ingress protection, IEC 60529	IP20, see page 4
Standards	IEC 60947-7-1, UL 1953
Certificate, approval	CE, RoHS, UL listed file E256146, CSA certified file 47235

Catalogue numbers - 1 pole power distribution blocks

Rated current In, A	Number of openings		Wire range, line side		Wire range, load side		Catalogue number	Weight g, each	Packing size
	Line side	Load side	mm ²	kcmil/AWG	mm ²	kcmil/AWG			
175			70-10	2/0-8	70-10	2/0-8	CBPDBFS204	95	3
175			70-10	2/0-8	25-2,5	4-14	CBPDBFS220	95	3
310			185-16	350-6	185-16	350-6	CBPDBFS303	240	2
380			240-16	500-6	35-2,5	2-14	CBPDBFS330	240	2
570			150-12	300-4	25-2,5	4-14	CBPDBFS377	340	2
620			185-12	350-4	185-12	350-4	CBPDBFS500	500	3
760			240-16	500-6	240-16	500-6	CBPDBFS504	550	3

Dimensions, mm



Short-circuit current ratings (SCCR) according to UL 508A

Eaton Bussmann Series class J, RK1, RK5 and T fuses and Eaton Series G moulded case circuit breakers

Assembly short-circuit current rating (SCCR) is required for industrial control panels. Power distribution blocks may be one of the weakest links, an unmarked power distribution block is assigned a short-circuit current rating at 10 kA according to table SB4.1 in UL 508A.

to UL 1953 and meet the UL 508A minimum spacing requirements, air and surface, both for Branch Circuits and Feeder Circuits. The power distribution blocks are UL listed for higher SCCR in combination with Eaton Bussmann Series fuses and Eaton Series G MCCBs, see below. Conductor sizing is based on 75°C according to NEC table 310.16 and UL 508A table 28.1.

Eaton Bussmann Series power distribution blocks are UL listed according

Short-circuit currents (SCCR) - Eaton Bussmann Series fuses, 600 VAC

Power distr. block	Installed wire range		Max fuse rated current, A				Minimum enclosure size, mm	SCCR ¹⁾
	Line side kcmil/AWG	Load side kcmil/AWG	Class J LPJ	Class RK1 LPS-RK	Class RK5 FRS-R	Class T JJS		
CBPDBFS204	2/0-8	2/0-8	200	100	60	200	410x410x175	200
CBPDBFS220	2/0-8	4-12	200	100	60	200	410x410x175	200
	2/0-8	4-14	175	100	30	175	410x410x175	100
	2/0-8	4-14	200	100	60	200	410x410x175	50
CBPDBFS303	350-6	350-6	400	200	100	400	915x762x322	200
CBPDBFS330	500-6	2-6	400	200	100	400	610x508x175	200
	500-6	6-14	200	100	60	200	610x508x175	50
	500-6	6-14	175	100	30	175	610x508x175	100
CBPDBFS377	300-4	4	600	400	200	600	610x508x175	200
	300-4	4	400	200	100	400	610x508x175	100
	300-4	4-14	200	100	60	200	610x508x175	50
	4	4	600	200	200	600	610x508x175	50
CBPDBFS500	350	350	600	400	200	600	915x762x322	200
	350-4	350-4	600	400	200	600	915x762x322	100
CBPDBFS504	500	500-6	600	600	200	800 ²⁾	915x762x322	200
	500-6	500-6	600	400	200	600	915x762x322	100

Short-circuit currents (SCCR) - Eaton Series G moulded case circuit breakers, 480 VAC

Power distr. block	Installed wire range		Moulded case circuit breaker		Minimum enclosure size, mm	SCCR
	Line side kcmil/AWG	Load side kcmil/AWG	Frame size/Type	Max rated current, A		
CBPDBFS330	500-3	2-8	LGE, LGH, LGS	400	610x508x175	14
	500-3	2-8	LGC, LGU, LGX	400	610x508x175	25
CBPDBFS377	2x300-2	4	LGE, LGH, LGS	600	610x508x175	30
	2x300-2	6	LGE, LGH, LGS	600	610x508x175	18
	2x300-2	8	LGE, LGH, LGS	600	610x508x175	14
	2x300-2	4	LGC, LGU, LGX	600	610x508x175	42
	2x300-2	6	LGC, LGU, LGX	600	610x508x175	35
	2x300-2	8	LGC, LGU, LGX	600	610x508x175	14

1) Class CC (LP-CC, FNQ-R, KTK-R) 30 A or less are suitable for all SCCR's.

2) Refer to class L fuse (KPR-C-SP).

Installation instructions

Power distribution blocks can be linked together to form multi-pole distribution blocks. The power distribution block/blocks mounted on 35 mm DIN rail should be provided with rail anchors to prevent damages on the plastic insulation.

The power distribution blocks meet ingress protection IP 20 provided that all terminal openings are used. The openings for the terminal screw meet IP 20 when they are tightened, also applicable to unused opening. IP 20 does not apply when smaller conductor sizes are used.

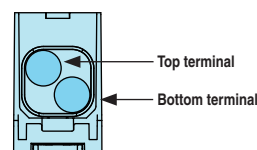
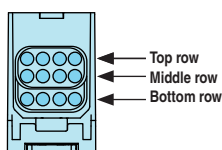


Anchors are required on each side of the block/blocks when mounted on 35 mm DIN rail.

Specific conditions to achieve IP 20

Power distr. block	Line side		Installed wire range		IP 20 achieved	Load side		Installed wire range		IP 20 achieved
	Wire trim length, mm		mm ²	kcmil/AWG		Wire trim length, mm		mm ²	kcmil/AWG	
CBPDBFS204	22		70-10	2/0-8	Yes	25		70-10	2/0-8	Yes
CBPDBFS220	19		70-10	2/0-8	Yes	14/22 ¹⁾		25-2,5 Unused opening	4-14	Yes No
CBPDBFS303	34		150-70	350-2/0	Yes	32		150-70	350-2/0	Yes
	34		50-16	1/0-6	No	32		50-16	1/0-6	No
CBPDBFS330	32		240-150	500-250	Yes	15/30 ¹⁾		35-2,5	2-14	Yes
	32		120-16	4/0-6	No			Unused opening		No
CBPDBFS377	29/36 ²⁾		150-120	300-4/0	Yes	14/35/31 ³⁾		25-2,5	4-14	Yes
	29/36 ²⁾		95-25	3/0-4	No			Unused opening		Yes
			Unused opening		No					
CBPDBFS500	32		185-70	350-2/0	Yes	32		185-70	350-2/0	Yes
	32		50-25	1/0-4	No	32		50-25	1/0-4	No
			Unused opening		No			Unused opening		No
CBPDBFS504	32		240-185	500-350	Yes	32		240-185	500-350	Yes
	32		150-16	300-6	No	32		150-16	300-6	No
			Unused opening		No			Unused opening		No

- 1) First value applies for top row, second for bottom row.
- 2) First value applies for top terminal, second for bottom terminal.
- 3) First value applies for top row, second for middle row, third for bottom row.



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