

# Compact PDB

Compact EP Power Distribution Blocks

## POWER DISTRIBUTION BLOCKS

## THE NEXT LEVEL OF SAFETY AND EASE OF INSTALLATION



Mersen's finger safe IP20-rated Power Distribution Blocks are part of the new Compact EP® line of products. The compact footprint allows space savings in panels, contributing to reduced panel size when compared to traditional power distribution blocks.

The Compact PDB is ideal for low voltage applications. Rated for UL-600V, ampere range of 85-250A, it can accommodate wire ranges AWG 18-3/0, catering to a wide range of low voltage applications. The PDBs can be DIN rail mounted, are dual wire rated, and are capable of DLO wire acceptance allowing ease of installation. Translucent covers allow visual inspection of wire termination points and wiring configurations.

### FEATURES/BENEFITS:

- **Finger-safe protection:** Fully insulated block ensures touch-safe isolation of live parts. Recessed termination screws and wire openings provide IP20 grade protection and qualify as "fingersafe" per IEC 529. Translucent cover allows for visual inspection of wire termination
- **Compact modularity:** Smaller footprint allows panel builders to reduce space and build smaller or higher density panels.
- **Snap on DIN-rail mounting:** Integral DIN rail adaptors allow for quick and easy installations on 35mm DIN rail, yielding lower installed costs.
- **Captive termination screws:** Unique channel design ensures captive metric wire termination screws. Screws can never be lost.
- **Multiple wire ratings:** Blocks are multi wire rated - see multi wire rating table and can accommodate 18AWG wire for low voltage applications such as LED lighting. Can also accept DLO wires.

### RATINGS:

- **Volts:** 600V
- **Amps:** 85 to 250A
- **SCCR:** 10kA

### APPROVALS:

- UL recognized:  
UL file # E73571
- CSA certified: Class 6228



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CATALOG NUMBERS

Catalog Number	Line Side					Load Side					
	Wire Hole Range	Hex Driver Size	Wire Strip Back Length	Wire Size	Torque	Load Side Location	Wire Hole Range	Hex Driver Size	Wire Strip Back Length	Wire Size	Torque
CEP-FSPDB85	#4-#14	1/8"	.575"	#4	50 in-lbs	Top	{3}#8-#16	1/16"	.575"	#5-#10	8 in-lbs
				#6-#14	33 in-lbs					#12-#16	5 in-lbs
	-	-	-	-	-	Bottom	{2}#6-#14	1/8"		#6	50 in-lbs
CEP-FSPDB115	{2}#2-#14	5/32"	.575"	#2	140 in-lbs	Top	{4}#8-#16	1/16"	.425"	#8-#10	8 in-lbs
				#4	125 in-lbs					#12-#16	5 in-lbs
				#6-#14	50 in-lbs	Bottom	{3}#4-#14	1/8"		#4-#14	50 in-lbs
CEP-FSPDB160	{2}#2/0-#10	7/32"	.775"	#2/0-2	165 in-lbs	Top	{3}#6-#14	1/8"	.500"	#6	50 in-lbs
				#4-#14	50 in-lbs					#8-#14	35 in-lbs
	-	-	-	-	-	Bottom	{3}#4-#14	1/8"		#4-#14	50 in-lbs
CEP-FSPDB200	#4/0-#10	1/4"	.875"	#4/0	250 in-lbs	All	{8}#4-#14	1/8"	.625"	#4-#14	50 in-lbs
				#3/0-#1/0	220 in-lbs					-	-
				#1-#10	150 in-lbs					-	-
CEP-FSPDB250	{2}#250-#6	1/4"	1.00"	#250-#4/0	250 in-lbs	Top	{4}#6-#14	1/8"	.525"	#6	50 in-lbs
				#3/0-#2/0	200 in-lbs					#8-#14	35 in-lbs
				#1/0-#6	150 in-lbs	Middle	{3}#4-#14	1/8"		#4-#14	50 in-lbs
	-	-	-	-	Bottom	{3}#2-#14	5/32"	#2		140 in-lbs	
										#4-#14	50 in-lbs

MULTI-WIRE  
COPPER RATINGS TABLE

Catalog Number	Load Side Location	Wire Size	Torque
CEP-FSPDB85	Top	{4}#16-#18;	5 in-lbs
	Bottom	{2}#16-#18	35 in-lbs
CEP-FSPDB115	Top	{4}#16-#18;	5 in-lbs
	Bottom	{2}#16-#18	50 in-lbs
CEP-FSPDB160	Top	{4}#16-#18;	35 in-lbs
	Bottom	{2}#16-#18	50 in-lbs
CEP-FSPDB200	All	{4}#16-#18;	50 in-lbs
CEP-FSPDB250	Top	{4}#16-#18	35 in-lbs

VOLTAGE RATING, MOUNTING  
TYPE, AND ENCLOSURE SIZE

Catalog Number	Voltage	Mounting	Minimum Spacing Between Poles	Minimum Enclosure Size
CEP-FSPDB85	600V or less	Any	N/A	12" x 6" x 8"
CEP-FSPDB115	600V or less	Any	N/A	12" x 6" x 8"
CEP-FSPDB160	600V or less	Any	N/A	12" x 20" x 8"
CEP-FSPDB200	600V or less	Any	N/A	12" x 20" x 8"
CEP-FSPDB250	600V or less	Any	N/A	24" x 20" x 10"

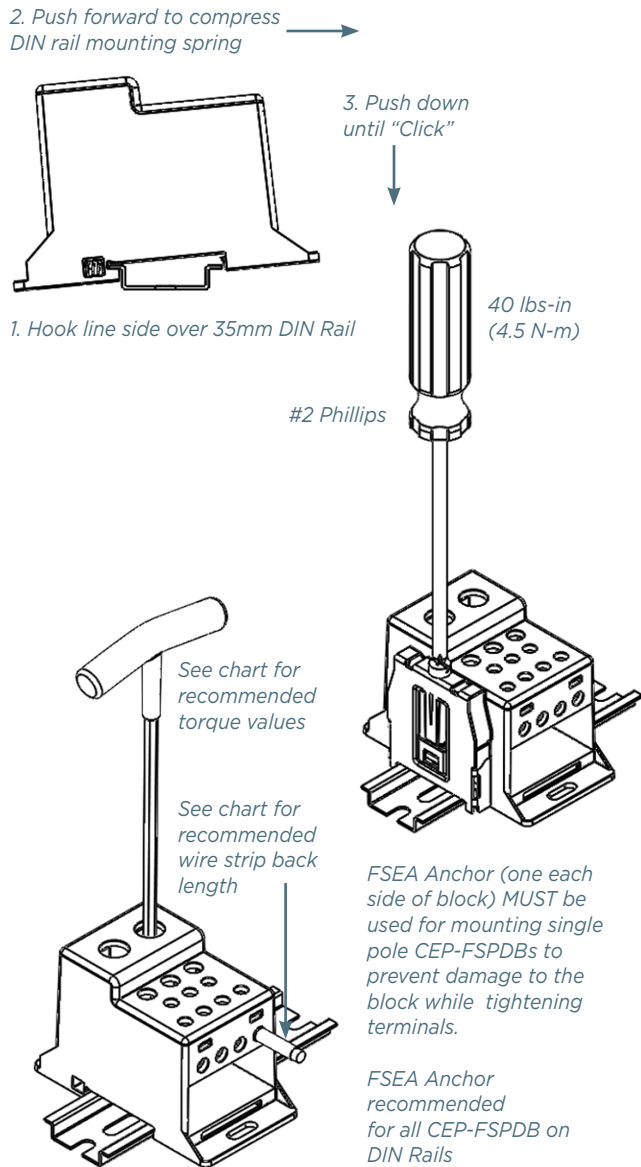
IP20 WITH WIRE INSTALLED

Catalog Number	Line Side				Load Side				
	Installed Wire	Trim Length in. (mm)	Conductor Opening	IP20 Screw Opening	Load Side Location	Installed Wire	Trim Length in. (mm)	Conductor Opening	IP20 Screw Opening
CEP-FSPDB85	4 to 14 AWG	.575"	Yes	Yes	Top	8 to 16 AWG	.575"	Yes	Yes
					Bottom	6 to 14 AWG			
CEP-FSPDB115	2 to 14 AWG	.575"	Yes	Yes	Top	8 to 16 AWG	.425"	Yes	Yes
					Bottom	4 to 14 AWG			
CEP-FSPDB160	2/0 to 14 AWG	.775"	Yes	Yes	Top	6 to 14 AWG	.500"	Yes	Yes
					Bottom	4 to 14 AWG			
CEP-FSPDB200	4/0 to 10 AWG	.875"	No	Yes	All	4 to 14 AWG	.625"	Yes	Yes
CEP-FSPDB250	250 to 6 AWG	1.00"	No	Yes	Top	6 to 14 AWG	.525"	Yes	Yes
					Middle	4 to 14 AWG			
					Bottom	2 to 14 AWG			

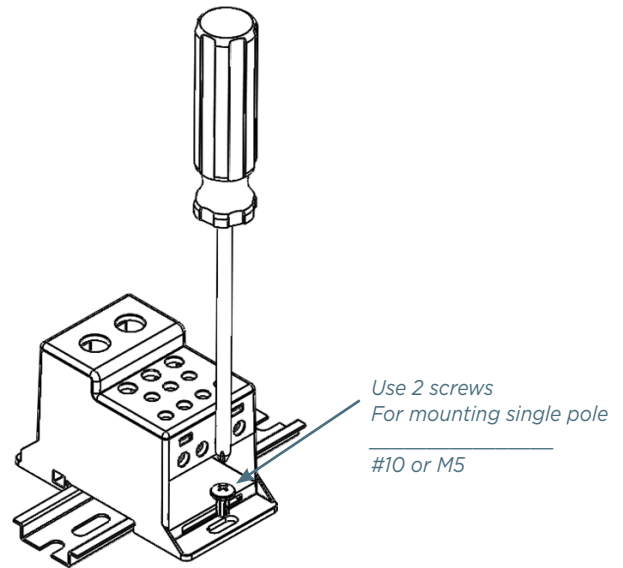
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**MOUNTING INSTRUCTIONS**

**DIN Rail Mounting**



**Panel Mounting**



**Environmental Specifications**

- Operating temperature range -10°C to 40°C
- Storage temperature range -25°C to 90°C
- Meets ISO 14000

**SCCR RATING (WITH APPROPRIATELY SIZED FUSE)**

Catalog Number	Suitable Connections kcmil/AWG		Overcurrent Protection Fuse Required Class/Max Amp Rating						Screw Opening	Volts Max
	Line	Load	J	T	RK1	RK5	G	CC		
CEP-FSPDB85	4-14	8-16 Top	60	60	30	30	60	60	100,000	600
	4-14	6-14 Bottom	85	85	85	60	60	30	100,000	600
CEP-FSPDB115	2-14	8-16 Top	60	60	30	30	60	30	100,000	600
	2-14	4-14 Bottom	115	115	100	60	60	30	100,000	600
CEP-FSPDB160	2/0-14	6-14 Top	150	150	100	60	60	60	100,000	600
	2/0-14	4-14 Bottom	150	150	100	60	60	30	100,000	600
CEP-FSPDB200	3/0-10	4-14	150	150	100	60	60	30	100,000	600
CEP-FSPDB250	250-6	6-14 Top	150	150	100	60	60	30	100,000	600
	250-6	4-14 Mid	150	150	100	60	60	30	100,000	600
	250-6	2-14 Bottom	150	150	100	60	60	30	100,000	600

Note: No. 6 AWG is the smallest wire size; No. 14 AWG is the smallest DLO wire size; No. 8 AWG is the smallest compact copper wire size