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: 600VAC/DC

• **Amps:** 85 to 250A

 SCCR: 600V or less, 100kA with proper fuse; over 600V, 10kA

Contact Technical Services for instruction sheet.

APPROVALS:

UL recognized:
 UL file # E73571

CSA certified: Class 6228







CATALOG NUMBERS

		Line Side					Load Side						
	Ampere Rating	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	
		#4-#14	1/8"	.575"	#4	50 in-lbs	Тор	(3)#8-#16	1/16"	.575"	#5-#10	8 in-lbs	
CED ECDDDOE	OF				#6-#14	33 in-lbs					#12-#16	5 in-lbs	
CEP-FSPDB85 85	85						D-44	(2)#C #44	1/8"		#6	50 in-lbs	
				-	-	Bottom	(2)#6-#14	1/8		#8-#14	35 in-lbs		
		(2)#2-#14	5/32"	.575"	#2	140 in-lbs	Тор	(4)#8-#16	1/16"		#8-#10	8 in-lbs	
CEP-FSPDB115 115	115				#4	125 in-lbs				.425"	#12-#16	5 in-lbs	
					#6-#14	50 in-lbs	Bottom	(3)#4-#14	1/8"		#4-#14	50 in-lbs	
		/	7/32"	.775"	#2/0-2	165 in-lbs	Тор	(3)#6-#14	1/8"		#6	50 in-lbs	
CEP-FSPDB160		(2)#2/0- #10			#4-#14	50 in-lbs				.500"	#8-#14	35 in-lbs	
	#10			-	-	Bottom	(3)#4-#14	1/8"		#4-#14	50 in-lbs		
		#4/0-#10	1/4"	.875"	#4/0	250 in-lbs	All	(8)#4-#14	1/8"	.625"	#4-#14	50 in-lbs	
CEP-FSPDB200	200				#3/0-#1/0	220 in-lbs	-	-	-	-		-	
					#1-#10	150 in-lbs					-		
			1/4"	1.00"	#250-#4/0	250 in-lbs	Тор	Top (4)#6-#14 Middle (3)#4-#14	1/8"		#6	50 in-lbs	
CEP-FSPDB250 250					#3/0-#2/0	200 in-lbs			1/8		#8-#14	35 in-lbs	
	250	50 (2)#250- #6			#1/0-#6	150 in-lbs	Middle		1/8"	.525"	#4-#14	50 in-lbs	
							Bottom	(3)#2-#14	5/32"		#2	140 in-lbs	
					-	-					#4-#14	50 in-lbs	

MULTI-WIRE RATINGS TABLE

Catalog Number	Load Side Location	Wire Size	Torque	
CEP-FSPDB85	Тор	(4)#16-#18;	5 in-lbs	
CEL-L2LDD02	Bottom	(2)#16-#18	35 in-lbs	
CEP-FSPDB115	Тор	(4)#16-#18;	5 in-lbs	
CEL-L2LDR112	Bottom	(2)#16-#18	50 in-lbs	
CEP-FSPDB160	Тор	(4)#16-#18;	35 in-lbs	
CEL-L2LDB100	Bottom	(2)#16-#18	50 in-lbs	
CEP-FSPDB200	All	(4)#16-#18; (2)#16-#18	50 in-lbs	
CEP-FSPDB250	Тор	(4)#16-#18	35 in-lbs	

Please note: These PDBs are made for copper, compact copper, DLO, and aluminum wires.

VOLTAGE RATING, MOUNTING TYPE, AND ENCLOSURE SIZE

Catalog Number	Voltage	Minimum Enclosure Size
CEP-FSPDB85	600V or less	12" x 6" x 8"
CEP-FSPDB115	600V or less	12" x 6" x 8"
CEP-FSPDB160	600V or less	12" x 20" x 8"
CEP-FSPDB200	600V or less	12" x 20" x 8"
CEP-FSPDB250	600V or less	24" x 20" x 10"

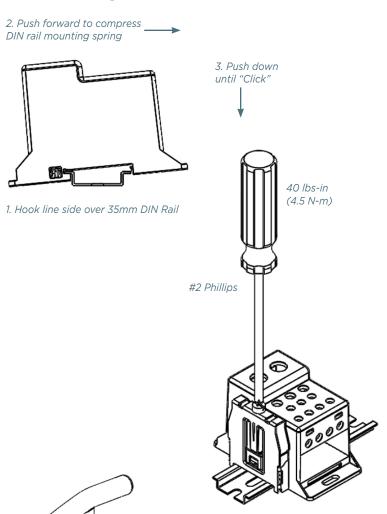
Enclosure size was based on UL testing. Suitability of smaller enclosure can be determined in end-use investigation.

IP20 WITH WIRE INSTALLED

		Lin	e Side			Load Side					
Catalog Number	Installed Wire	Trim Length in. (mm)	IP20 Conductor Screw Opening Opening		Load Side Location	Installed Wire	Trim Length in. (mm)	IP20 Conductor Screw Opening Opening			
CEP-FSPDB85 4 to 14 A	4 . 44	E3E"	Yes	Yes	Тор	8 to 16 AWG	F3F"	Yes	Yes		
	4 to 14 AWG	.575"			Bottom	6 to 14 AWG	.575"				
CEP-FSPDB115 2 to 14 A	2 . 44	535"	7,,	Yes	Тор	8 to 16 AWG	.425"	Yes	Yes		
	2 to 14 AWG	.575"	Yes		Bottom	4 to 14 AWG					
CEP-FSPDB160 2/0	2/0 to 14 AWG	.775"	Yes	Yes	Тор	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	Тор	6 to 14 AWG	.525"	Yes			
					Middle	4 to 14 AWG			Yes		
					Bottom	2 to 14 AWG					

MOUNTING INSTRUCTIONS

DIN Rail Mounting



See chart for

recommended

torque values

See chart for

recommended

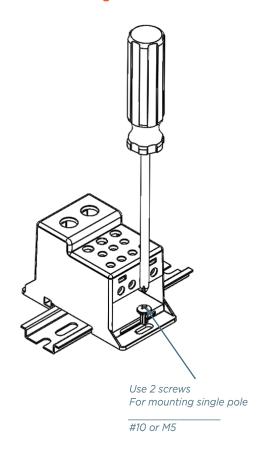
wire strip back

length



FSEA Anchor recommended for all CEP-FSPDB on DIN Rails

Panel Mounting

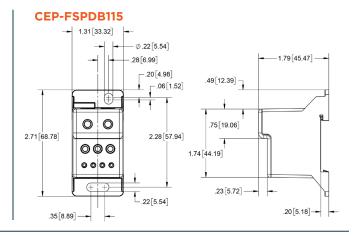


Environmental Specifictions

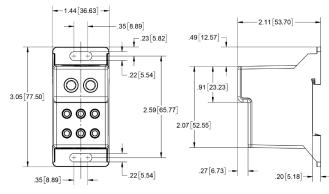
- Operating temperature range -10°C to 40°C
- Storage temperature range -25°C to 90°C

DIMENSIONS

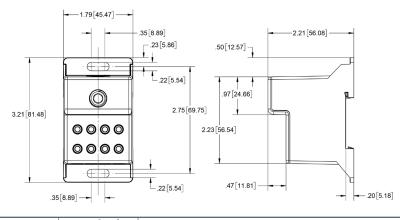
CEP-FSPDB85 .98[24.84] .22[5.54] —1.70 [43.18] — .18[4.45] _.20[4.98] .49[12.35] — _.06[1.52] .75[19.10] 2.71[68.78] 2.28 57.94 00 1.74 [44.23] 000 .23 [5.72] -.20[5.18]-_.22[5.54] .35[8.89]



CEP-FSPDB160



CEP-FSPDB200



CEP-FSPDB250

