

FSPDB

FINGER-SAFE/POWER DISTRIBUTION BLOCKS



SAFETY EVOLVING FINGER-SAFE POWER DISTRIBUTION BLOCKS

Ferraz Shawmut FSPDBs introduce a new level of safety and ease for installing power distribution blocks. An IP20 level of finger safe protection is achieved using FSPDBs, eliminating the need for special covers or custom plexiglass sheets to protect your panels. FSPDBs (sizes 1 to 4) simply snap onto 35mm DIN rail to provide the quickest installation. Modular design also allows for multi pole applications by use of assembly pins. FSPDBs provide a safe, convenient way of splicing cables, splitting primary power into a variety of secondary circuits or providing a fixed junction tap-off point.

Features/Benefits

- **Finger-Safe**
Fully insulated block ensures touch safe isolation of live parts. Recessed termination screws and wire openings provide IP20 grade protection and qualify as “finger-safe” per IEC 529.
- **Compact Modularity**
Single or multiple pole configurations in the most compact footprint. Allows users to build smaller or higher density panels.
- **Snap on DIN Rail Mounting**
Sizes 1 to 4 feature integral DIN rail adaptors allowing 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.
- **Available Accessories**
For multi-pole panel mounting, simply snap in pins for rigid fit. Cap plugs provide the ability to maintain touch safety on unused openings. Circuit identification markers simply snap into blocks to ID circuits. End anchors provide rigid end stops.
- **Multiple Wire Ratings**
Provide users more versatility by offering capability of using multiple conductors in #2 and 2/0 openings.

Ratings

- Ampere ratings from 175 to 840A
- 600V rated
- Short Circuit Current Rating 100kA with proper fuse. Contact Technical Services for instruction sheet.

Approvals

- UL Recognized Component - Guide XCFR2, File E73571
- CSA Certified: Class 6228, File 69363

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Catalog Numbers and Ratings

CATALOG NUMBER		AMPERE RATING (Based on NEC Table 310-16 for 75° C Cu wire)	LINE			LOAD			SHORT CIRCUIT CURRENT RATING
ALUMINUM <small>(Connector rated for 90° C Cu/AL wire)</small>	COPPER <small>(Connector rated for 75° C Cu wire only)</small>		WIRE RANGE		OPENINGS PER POLE	WIRE RANGE		OPENINGS PER POLE	
			AWG/ KCMIL	MM ²		AWG/ KCMIL	MM ²		
FSPDB1A	FSPDB1C	175	2/0-#14	70-2.5	1	2/0-#14	70-2.5	1	*100kA
FSPDB2A	FSPDB2C	175	2/0-#14	70-2.5	1	#2-#14	35-2.5	4	*100kA
FSPDB3A	FSPDB3C	310	350-#6 2/0-#14	185-16 70-2.5	1	#2-#14	35-2.5	8	*100kA
FSPDB4A	FSPDB4C	335	400-#6	185-16	1	400-#6	185-16	1	*100kA
FSPDB5A	FSPDB5C	840	600-#4	300-25	2	600-#4	300-25	2	*100kA

* Contact Ferraz Shawmut technical services for fuse type and maximum ampere required.

MULTIPLE WIRE RATINGS (SAME SIZE & TYPE WIRES ONLY)			
2/0 OPENINGS		#2 OPENINGS	
(2) #4 AWG	(2) #10 AWG	(2) #6 AWG	(2-4) #12 AWG
(2) #6 AWG	(2) #12 AWG	(2) #8 AWG	(2-4) #14 AWG
(2) #8 AWG	(2) #14 AWG	(2-4) #10 AWG	

Outline Dimensions

Dimension	FSPDB1A FSPDB1C <small>Figure 1</small>		FSPDB2A FSPDB2C <small>Figure 1</small>		FSPDB3A FSPDB3C <small>Figure 2</small>		FSPDB4A FSPDB4C <small>Figure 1</small>		FSPDB5A FSPDB5C <small>Figure 2</small>	
	mm	in	mm	in	mm	in	mm	in	mm	in
A	25.4	1.00	28.4	1.12	46.9	1.85	39	1.54	72	2.84
B	43.3	1.70	57.8	2.28	64.3	2.53	108	4.25	91	3.58
C	49.5	1.95	56.0	2.21	64.3	2.53	80	3.15	80	3.15
D	45.1	1.78	51.6	2.03	59.8	2.36	75.5	2.97	-	-
E	39.4	1.55	39.4	1.55	51.5	2.03	50.1	1.97	50.1	1.97
F	72.6	2.86	87.7	3.45	100.8	3.97	145.5	5.73	145	5.71
G	59.6	2.35	74.6	2.94	82.4	3.24	120.6	4.75	127.5	5.02
H	5.3	0.21	5.1	0.20	6.5	0.26	7	0.28	3	0.12
I	-	-	-	-	31.5	1.24	-	-	52	2.04
J	5.3	0.21	6.4	0.25	6.5	0.26	6.5	0.26	6.5	0.26
K	10	0.40	11.7	0.46	8.9	0.35	16	0.63	8.5	0.34

Accessories

CATALOG NO.	DESCRIPTION
FSPIN1	Accessory pin to form multiple pole block
FSCIM1	Circuit identification marker for 2/0 & #2 max. conductors
FSCIM2	Circuit identification marker for 350, 400 & 600 kcmil max. conductors
FSCAP1	Cap plug for spare 2/0 openings
FSCAP2	Cap plug for spare 350 kcmil openings
FSCP3	Cap plug for spare 600 kcmil opening
FSEA	Pair of end anchors

