



FDP Panelboards

Applications

FDP-004-1

P.O. Box 2328 • 227 N. Freedom Ave. • Alliance, OH 44601 • Phone: (330) 821-7667 • Fax: (330) 829-3175 • Website: www.filnor.com • Email: filnor@filnor.com

The FDP panels provide protection for switch feeder and branch circuits in commercial, industrial and service entrance applications.

Services:

- AC system 600 Volt AC maximum
- DC system 250 Volt DC maximum
- 3 Phase, 4 Wire
- 1 Phase, 3 Wire
- 3 Phase, 3 Wire
- 1 Phase, 2 Wire

Interior:

- Branch switches to be bolted to bus
- All bus bar to be copper rated 1000 ampere per square inch
- Underwriters Laboratories Inc. listed for use with fusible panelboard units as manufactured by the following companies: General Electric, Westinghouse-Eaton

Fronts:

- Trim are flat gauge steel per code
- Standard painted finish ANSI 61 gray
- Directory card with plastic cover on front of trim
- No door over switch handles

Boxes:

- Galvanized sheet steel per code
- 3/4 inch flange for rigidity and fastening trim
- Blank ends
- Wire gutters meet or exceed UL/NEC requirements

Applications:

Filnor, Inc. is a leader in switch and fuse power and distribution panels for:

- Aerospace
- Banking
- Communications
- Data Processing
- Electronics
- Government
- Medical
- Military
- Petrochemical
- UPS Power/Distribution
- Utilities
- Waste Water/Sanitation



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Options

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Mains:

- Main bus to 1600 ampere
- Main switch and fuse unit to 1200 ampere
- Compression lugs
- Sub-feed lugs

Interiors:

- To fit existing boxes
- Split bus
- Service Entrance Label
- Through-feed lugs

Boxes:

- Aluminum
- Stainless steel
- Nema 3R
- Nema 4X
- Nema 12
- Special drilling
- Special knockouts
- Increase gauge
- Increase gutters
- Painted

Fronts:

- Door over switch handles
- Trim hinged to box
- Special locks
- Metal directory frame
- Special painting
- Split door
- Common trim over two boxes
- Tamper-proof screws

Fusible Panelboard Units:

- Shunt trip
- Bell alarm
- Auxiliary switch
- Special type fusing

Others:

- Metering
- Ground Bus
- Nameplates
- Blown fuse indication



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Specifications

FDP-0001

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Furnish factory assembled FDP panelboards as manufactured by Filnor, Inc. where indicated on the drawings. Provide switchboards of dead front, switch and fuse type. Panels to have main lugs or main switch as indicated on drawings.

Fusible switchboard units to be front removable quick-make, quick-break, with door operated handles that are padlockable in the "ON" or "OFF" position. Doors of all switches to interlock with the operating handle to prevent operating the door when the switch is "ON".

Switchboard interiors shall be factory assembled complete with fusible switchboard units. Branch Circuit connections to the main bus shall be sequence phasing. The main bus shall be supported on insulating bases and shall not depend on the switches for support.

Switchboard bus structure and main lugs or main switch shall have current ratings as shown on the switchboard schedule. Such ratings shall be established by heat rise tests with maximum hot spot temperature on any connector or bus bar. Heat rise test shall be conducted in accordance with UL 67. All bus bar shall be copper. Bus

bar shall be rated for 1000 amperes per square inch minimum.

The switchboard assembly shall be enclosed in a steel cabinet. The size of the wiring gutters and gauge of steel shall be in accordance with NEMA Standards Publication No. PB1 and UL Standards No. 67 for panelboards. The box shall be fabricated from galvanized steel or equivalent rust resistant steel. Enclosure to be for indoor or outdoor use as indicated. A ground bar is to be mounted in the enclosure.

Trims to be flat cold roll steel with ANSI 61 painted gray finish. Trims to be fastened to box with cup washers and screws. A circuit directory card with a clear plastic covering shall be provided on the front.

Please contact Filnor for further details.

Quality Assurance

Reference Latest Standards:

Underwriters Laboratories Inc.
(UL)

- a. Panelboards - UL 67
- b. Cabinets and boxes - UL 50

National Electrical Manufacturers Association (NEMA)

- a. NEMA -PB1 (latest revision)

Federal Specifications

- a. Panelboards WP-115a
- b. Molded Case Circuit Breakers WP-375b

National Fire Protection Association (NFPA)

- a. NFPA 70, National Electrical Code (NEC)

Requirements of Regulatory Agencies:

- a. State Codes
- b. Local Codes and Ordinances