

MPD-PDC-3P4W-10P-400V-IP21-DF-M1

Indoor Power Distribution Switchboard, 10 Panels, 3-Phase 4-Wire, 400V/230V System, IP21, Dead Front, Model 1

Product ID: 339809



Image: MPD-PDC-3P4W-10P-400V-IP21-DF-M1

Larson Electronics LLC manufactures a wide variety of products, including custom built to spec designs. The pictures displayed for this unit are a general representation of form factor for the product line and may not accurately represent this exact configuration in every detail due to custom builds and changes between similar products in our standard catalog. The specifics for this configuration are listed in the specification table and supporting documentation (CAD files, Dimensional Drawing, Name Plate Diagram, Wiring Diagram, etc.). This means that specific details (receptacles, plugs, wires, connections, mounting brackets, external finishes, etc.) may not be accurately represented in images vs specifications. Please review specifications and do not order based solely on images.

MPD-PDC-3P4W-10P-400V-IP21-DF-M1 Indoor Distribution Switchboard

Unit Type: Indoor Distribution Switchboard, 10 Panels

Configuration: 3-Phase, 4-Wire

System Voltage: 400V (3-Phase), 230V (Phase-Neutral)

Frequency: 50Hz

Panel Count: 10

Overall Dimensions: 6100mm W × 2200mm H × 600mm D

Mounting Style: Fixed Type, Floor-Mounted

Panel 1 — Automatic Transfer Switch

Qty (1) ATS, Automatic and Mechanical Operation, IP21

In = 2500A, Ii = 2000A, 400V

Panel 2 — Automatic Transfer Switch

Qty (1) ATS, Automatic and Mechanical Operation, IP21

In = 630A, Ii = 500A, 400V

Panel 3 — Distribution Switches

Qty (1) 3-Phase Switch, In = 630A, Ii = 500A

Qty (1) 3-Phase Switch, In = 250A, Ii = 200A

Qty (2) 3-Phase Switch, In = 160A, Ii = 100A

Qty (1) 3-Phase Switch, In = 100A, Ii = 80A

Made in the USA

Features of Every Panel

IP21 Rated Enclosure

Dead Front Construction

Front-Accessible Operating Compartments

Adjustable Continuous Current Setting (Ii) per Device,

Independent of Frame Rating (In)

Ratings & Approvals

Designed and Tested in accordance with IEC 61439, Low-Voltage Switchgear and Controlgear Assemblies

Individual Switching Devices per IEC 60947

All grounding shall comply with applicable local and international electrical codes

Shipping

Shipped on pallet or skid

Crated shipment available upon request

Final shipping configuration subject to approved design

Panel 4 — Distribution Switches

Qty (1) 3-Phase Switch, In = 630A, Ii = 500A
Qty (1) 3-Phase Switch, In = 250A, Ii = 200A
Qty (1) 3-Phase Switch, In = 160A, Ii = 100A
Qty (2) 3-Phase Switch, In = 100A, Ii = 80A

Panel 5 — Distribution Switches

Qty (1) 3-Phase Switch, In = 400A, Ii = 320A
Qty (2) 3-Phase Switch, In = 250A, Ii = 200A
Qty (2) 3-Phase Switch, In = 160A, Ii = 100A

Panel 6 — Distribution Switches

Qty (1) 3-Phase Switch, In = 630A, Ii = 500A
Qty (1) 3-Phase Switch, In = 250A, Ii = 200A
Qty (1) 3-Phase Switch, In = 200A, Ii = 160A
Qty (1) 3-Phase Switch, In = 160A, Ii = 100A
Qty (1) Single-Phase Switch, In = 25A, 230V

Panel 7 — Distribution Switches

Qty (1) 3-Phase Switch, In = 400A, Ii = 320A
Qty (1) 3-Phase Switch, In = 250A, Ii = 200A
Qty (2) 3-Phase Switch, In = 160A, Ii = 100A
Qty (1) 3-Phase Switch, In = 100A, Ii = 80A

Panel 8 — Distribution Switches

Qty (1) 3-Phase Switch, In = 630A, Ii = 500A
Qty (1) 3-Phase Switch, In = 250A, Ii = 200A
Qty (1) 3-Phase Switch, In = 200A, Ii = 160A
Qty (1) 3-Phase Switch, In = 160A, Ii = 100A
Qty (1) 3-Phase Switch, In = 100A, Ii = 80A

Panel 9 — Distribution Switches

Qty (1) 3-Phase Switch, In = 400A, Ii = 320A
Qty (1) 3-Phase Switch, In = 250A, Ii = 200A
Qty (1) 3-Phase Switch, In = 200A, Ii = 160A
Qty (1) 3-Phase Switch, In = 160A, Ii = 100A
Qty (1) 3-Phase Switch, In = 100A, Ii = 80A
Qty (1) 3-Phase Switch, In = 63A (fixed, no adjustable setting)

Panel 10 — Automatic Transfer Switch

Qty (1) ATS, Automatic and Mechanical Operation, IP21
In = 1000A, Ii = 800A, 400V

Construction

Metal Enclosed, Dead Front Construction
IP21 Rated Enclosure
Floor-Mounted Assembly

Dimensions & Shipping

Overall Dimensions: 240 in W × 87 in H × 24 in D (6100×2200×600mm, as stated in RFQ)
Approximate Weight: 12,000 lbs (estimated)
Shipping Dimensions: TBD
Shipping Weight: TBD

Special Orders – Special Requirements

Contact us for special requirements
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Larson Electronics manufactures a wide variety of custom power distribution systems. The pictures displayed for this unit are a general representation of form factor and may not accurately represent this exact configuration in every detail due to being custom builds. The specifics for this configuration are listed in the specification table and applicable drawings.

Made in the USA

The Larson Electronics MPD-PDC-3P4W-10P-400V-IP21-DF-M1 Indoor Distribution Switchboard is a custom-engineered, ten-panel low-voltage distribution lineup designed to provide automatic source transfer and downstream power distribution for industrial and commercial facilities. This 400V, three-phase, four-wire assembly is rated IP21 for indoor installation and incorporates three automatic transfer switches alongside a full complement of manually-operated distribution switches across the remaining seven panels.

PLEASE NOTE: ANY FREE SHIPPING OFFERS DO NOT APPLY TO POWER DISTRIBUTION PANELS, TRANSFORMERS, OR SUBSTATIONS

The **MPD-PDC-3P4W-10P-400V-IP21-DF-M1** serves as the primary low-voltage distribution point downstream of the facility's medium-voltage switchgear and power transformer, providing automatic transfer capability at the two largest load points (Panels 1 and 10) and a mid-size transfer switch on Panel 2, with the remaining seven panels distributing power to downstream loads through individually rated three-phase switches, plus a single dedicated single-phase 230V circuit on Panel 6.

Automatic Transfer Panels: Panels 1, 2, and 10 each incorporate one automatic transfer switch with automatic and mechanical operation, IP21 rated. Panel 1 is rated 2500A (In) with a 2000A continuous current setting (Ii); Panel 2 is rated 630A (In) with a 500A continuous current setting (Ii); Panel 10 is rated 1000A (In) with an 800A continuous current setting (Ii).

Distribution Panels: Panels 3 through 9 house a combined 33 three-phase distribution switches ranging from 100A to 630A rated current, each with an independently adjustable continuous current setting at approximately 80% of rated current, consistent with standard electronic trip unit practice. Panel 6 additionally includes one single-phase 230V, 25A switch, serving a dedicated single-phase load off the system's phase-neutral tap. Panel 9's 63A device is fixed-setting, without an adjustable continuous current setting.

Construction: The assembly is metal enclosed with dead front construction, rated IP21 for indoor service, and furnished as a floor-mounted lineup across ten bays.

Ratings & Approvals: The assembly is designed and tested in accordance with IEC 61439, Low-Voltage Switchgear and Controlgear Assemblies, with individual switching devices rated per IEC 60947.

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Frequently Asked Questions (FAQ)

There are no Faqs