Larson Electronics LLC
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MPD-MDS-CB-208Y.120-3P-2500A-N3R-SER

2500A Switchboard w/ 2500A Main Circuit Breaker — 208Y/120V, 3-Phase, 4-Wire, 60Hz, NEMA 3R, Service Entrance Rated

Product ID: 344209

Please see last page for supporting documentation for this product (certificates, CAD files & drawings, IES files, wiring diagrams, etc).



Image: MPD-MDS-CB-208Y.120-3P-2500A-N3R-SER

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-MDS-CB-208Y.120-3P-2500A-N3R-SER Industrial Switchboard
Unit Type: Switchboard with Main Circuit Breaker

Configuration: 3-Phase, 4-Wire
Bus Voltage Rating: 208Y/120V AC Wye-N, 3PH, 60Hz
Bus Max Amp Rating: 2500 Amps
Bus Max Available Fault Current (RMS): 65kA
Mounting Style: Floor-Mounted, Concrete Pad or Flat Surface
Enclosure Type: NEMA 3R, Outdoor, Non-Walk-In
Bus Material: Tin/Silver-Plated Copper
Ground Bus: 1/4" x 2" Copper, Continuous Over Length of Switchboard

Incoming Section
Main Circuit Breaker: 2500AT/2500AF, 3-Pole, Electronic Trip
Protection Functions: Long-Time, Short-Time, Instantaneous, Ground-Fault (LSIG)
Aux Contacts: Included (for ATS coordination/interface)
Contact Wear Indication: Visual

Outgoing Section (No Breaker)
Connection Type: Cable, Front Access

Made in the USA

Features of Every Assembly
Copper Bus Throughout
Front-Accessible Operating Compartments
Electronic Trip Main Breaker with LSIG Protection
Powder-Coated Steel Enclosure

Ratings & Approvals
UL 891 Listed Dead-Front Switchboard
NEMA 3R Enclosure Rating
Designed for Service Entrance Equipment

Dimensions & Weight
Overall Dimensions: 90"H x 72"W x 36"D (estimated)
Weight: 2,800 lbs (estimated)
Shipping Dimensions: TBD
Shipping Weight: TBD

Shipping
Shipped on Pallet or Skid
Crated Shipment Available Upon Request
Final Shipping Configuration Subject to Approved Design

Contact Us — Special Requirements
Toll Free: 1-800-369-6671
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E-mail: sales@larsonelectronics.com

Customer Compliance
Final arrangements, sizes, ratings, settings, configuration, and installation details will be finalized during detailed engineering review and customer approval prior to release for manufacture.

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 one-line diagram.

Made in the USA

The MPD-MDS-CB-208Y.120-3P-2500A-N3R-SER service entrance switchboard from Larson Electronics is a rugged, reliable power distribution solution built for demanding service entrance applications. Rated for 2500A at 208Y/120V, 3-Phase, 4-Wire, this switchboard is designed to deliver dependable utility power distribution while providing the protection and coordination needed to safeguard downstream equipment.

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

Switchboard Features: The **MPD-MDS-CB-208Y.120-3P-2500A-N3R-SER** is a main distribution switchboard configured with a 2500AT/2500AF, 3-Pole main circuit breaker featuring an electronic trip unit with Long-Time, Short-Time, Instantaneous, and Ground-Fault (LSIG) protection functions. The switchboard bus is rated for 2500A continuous with a bus available fault current withstand of 65kA to 100kA RMS symmetrical based on coordination study requirements. Bus construction utilizes tin/silver-plated copper throughout, paired with a continuous 1/4" x 2" copper ground bus solidly bonded to the enclosure for maximum conductivity and fault protection.

This unit boasts a NEMA 3R, powder-coated steel enclosure, making it suitable for outdoor installation while maintaining a non-walk-in, front-accessible design for ease of maintenance. The switchboard is floor-mounted on a concrete pad or flat surface, with cable entry and front-access operating compartments for straightforward installation and servicing.

Benefits: The **MPD-MDS-CB-208Y.120-3P-2500A-N3R-SER** offers significant benefits for service entrance applications. The electronic trip unit's LSIG protection functions provide precise, adjustable coordination settings, helping to minimize nuisance tripping while maintaining system selectivity. The robust copper bus and grounding system reduce voltage drop and improve fault current handling, extending equipment life and reducing maintenance costs. Front-accessible construction simplifies inspection, testing, and servicing without requiring rear or side clearance.

Safety: This switchboard is designed with operator and equipment safety as a priority. Auxiliary contacts support safe coordination and interface with downstream automatic transfer switch (ATS) operation, while visual contact wear indication allows maintenance personnel to monitor breaker condition without disassembly. The NEMA 3R enclosure protects internal components from weather and outdoor environmental exposure.

Applications: The **MPD-MDS-CB-208Y.120-3P-2500A-N3R-SER** is ideal for facilities requiring reliable service entrance power distribution feeding downstream automatic transfer switches and low voltage switchgear, such as commercial, marine, and mixed-use developments requiring both utility and standby generator power distribution.

At Larson Electronics, we do more than meet your lighting needs. We also provide replacement, retrofit, and upgrade parts as well as industrial grade power accessories. Our craftsmen can custom build any lighting system and/or accessories to fit the unique demands of your operation. A commitment to honesty, quality, and dependability has made Larson Electronics a leader in the lighting and electronics business since 1973. Contact us today at 800-369-6671 or message sales@larsonelectronics.com for more information about our custom options tailored to meet your specific industry needs.

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Frequently Asked Questions (FAQ)

There are no Faqs

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Export Control Classification Number (ECCN): EAR99

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