Larson Electronics LLC
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MPD-MDS-CB-480Y.277-3P-2000A-N3R-SER

2000A Switchboard w/ 2000A LSIG Main Circuit Breaker - 480Y/277V, 3-Phase, 4-Wire, Service Entrance Rated, NEMA 3R

Product ID: 345076

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



Image: MPD-MDS-CB-480Y.277-3P-2000A-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-480Y.277-3P-2000A-N3R-SER - Switchboard
Unit Type: Switchboard with Main Circuit Breaker

Made in the USA

Assembly Type: Single Section, Non-Walk-In
Wiring Configuration: 4-Wire
Poles: 3-Pole
Bus Operating Voltage: 480Y/277V AC Wye-N, 3PH, 60Hz
Bus Voltage Rating: 600V AC
Bus Max Amp Rating: 2000A
Bus Max Available Fault Current (RMS): 42 kAIC
Temperature Rise: 65°C

Features of Every Assembly
NEMA 3R Outdoor Construction
Service Entrance Rated
Dead-Front Construction
Silver Plated Copper Bus
LSIG Main Circuit Breaker with Ammeter Trip Unit
Thermal-Magnetic Feeder Breakers
Heater Package with Thermostat
Seismic Freestanding Construction

Construction
Bus Material: Silver Plated Copper
Ground Bus: 1/4 x 2 IN Silver Plated Copper, Continuous and Bonded
Enclosure Material: Powder-Coated Steel
Enclosure Type/Rating: NEMA 3R, Non-Walk-In, Weatherproof, Flat Roof
Enclosure Paint Color: ANSI 49
Mounting Type: Floor Mounted
Entry Point: Bottom Entry

Ratings & Approvals
Certified to UL Dead Front Switchboard Standards
Service Entrance Rated
Seismic Qualified (IBC/CBC)

Connection Type: Cable, Mechanical Lugs

Main Section
Main Circuit Breaker: 2000A, 3-Pole, PDG63M (2000A Frame)
Trip Unit: PXR20 LSIG with Ammeter, No Control Wiring
Main Breaker Service Disconnect
Main Lugs: (6) 3/0–750 kcmil, Mechanical

Feeder Section
Feeder 1: 400A, 3-Pole, PDG33M (400A Frame), Thermal-Magnetic
Feeder 1 Lugs: (1) 2/0–500 kcmil, Mechanical
Feeder 2: 800A, 3-Pole, PDG43M (800A Frame), Thermal-Magnetic
Feeder 2 Lugs: (3) 3/0–400 kcmil, Mechanical
Feeder 3: 800A, 3-Pole, PDG43M (800A Frame), Thermal-Magnetic
Feeder 3 Lugs: (3) 3/0–400 kcmil, Mechanical

Heater Package
Control Power Transformer: Included
Space Heater: Included
Thermostat: Included
Fused Disconnect: Included

Protection & Relay Configuration
Main Trip Unit (PXR20): ANSI 50/51 – Long Time, Short Time, Instantaneous Overcurrent
Main Trip Unit (PXR20): ANSI 50G/51G – Ground Fault
Feeder Breakers: Thermal-Magnetic Overload and Instantaneous Trip

Dimensions & Shipping
Approximate Dimensions: 45 in W × 24 in D × 90 in H (estimated)
Approximate Weight: 1,900 lbs (estimated)

Shipping Dimensions: TBD

Shipping Weight: TBD

Shipping
Shipped on pallet or skid
Crated shipping available upon request
Final shipping configuration determined after engineering review

Special Orders - Special Requirements
Contact us for special requirements
Toll Free: 1-800-369-6671
Intl: 1-903-270-1187
Fax: 1-903-765-7664
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 applicable drawings.

Made in the USA

The MPD-MDS-CB-480Y.277-3P-2000A-N3R-SER 2000A Switchboard with Main Circuit Breaker is a service entrance rated, dead-front, NEMA 3R assembly for 480Y/277V, 3-phase, 4-wire, 60Hz systems. It brings a main circuit breaker with an adjustable LSIG trip unit together with thermal-

magnetic feeder breakers in a single weatherproof section. It is built for facilities that need a compact service entrance and distribution point.

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

The **MPD-MDS-CB-480Y.277-3P-2000A-N3R-SER** is rated 2000A at 480Y/277V. The main breaker serves as the service disconnect. The assembly has a silver-plated copper bus and ground bus, and it is a floor-mounted, non-walk-in section.

Main Section
The main is a 2000A, 3-pole circuit breaker with an adjustable trip unit that provides long time, short time, instantaneous and ground fault protection, with an ammeter and a maintenance mode option. Mechanical lugs are sized for the project conductors.

Feeder Section
Thermal-magnetic feeder breakers of different ratings distribute power from the main bus. Each feeder has mechanical lugs sized for the project conductors.

Bus System
A silver-plated copper bus feeds the main and the feeder breakers. A silver-plated copper ground bus runs continuous and bonded through the section.

Assembly Construction
The enclosure is powder-coated steel, rated NEMA 3R for weatherproof installation. The assembly is certified to UL dead-front switchboard standards and is seismic freestanding qualified.

Heater Package
A control power transformer powers a thermostatically controlled space heater through a fused disconnect, to limit condensation inside the enclosure.

Protection & Relay Configuration
The main trip unit provides ANSI 50/51 overcurrent protection (long time, short time and instantaneous) and ANSI 50G/51G ground fault protection. The feeder breakers provide thermal-magnetic overload and instantaneous trip protection.

Customer Compliance
This equipment is offered per the specifications and ratings detailed herein. Minor refinements to arrangement, dimensions, and installation details may be made during detailed engineering review to ensure proper fit, code compliance, and manufacturability, with any such refinements confirmed prior to manufacture.

Applications
Service entrance and distribution for commercial and industrial facilities, outdoor installations that need a compact main-and-feeder switchboard, and sites that require seismic qualified equipment

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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