Larson Electronics LLC
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MPD-MDS-CB-3P4W-480Y.277-2000A-65K-N3R-DF-SER

2000A Main Distribution Switchgear, 480Y/277V, 3-Phase 4-Wire, 65kAIC, NEMA 3R, Dead Front, Main Breaker Only, Service Entrance Rated

Product ID: 345136

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



Image: MPD-MDS-CB-3P4W-480Y.277-2000A-65K-N3R-DF-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-3P4W-480Y.277-2000A-65K-N3R-DF-SER Switchgear
Unit Type: UL 891 Deadfront Switchboard, Service Entrance Rated

Configuration: 3-Phase, 4-Wire
Voltage: 480Y/277V
Arrangement: Main Breaker Only, No Feeder Positions
Main Bus: 2000A
Main Breaker: 3-Pole, Individually Mounted, Electronic Trip Unit (LSIG)
Main Breaker Rating (Trip/Frame): 2000AT/2000AF, Micrologic 6.0P Trip Unit or Equal
Short Circuit Rating: 65kAIC
Enclosure Type: NEMA 3R
Bus Material: Copper, Silver-Plated Contacts
Neutral Bus: 100% of Main Rating
Ground Bus: Min. 1/4" × 2" Copper
Service Equipment: Main Bonding Jumper Provided

Dimensions & Shipping
Overall Dimensions: 36 in W × 60 in D × 91.5 in H (estimate)
Approximate Weight: 1,000 lbs (estimate)
Shipping Dimensions: TBD

Made in the USA

Features of Every Assembly
Dead Front Construction
Service Entrance Rated
Molded-Case Main Circuit Breaker
Electronic Trip Units, All Breakers, True RMS Sensing
120V Heaters, 250W Min. per Section, Thermostat Controlled (60–90°F)

Ratings & Approvals
Designed in accordance with UL 891, UL 489, NEMA PB 2
All grounding per NFPA 70

Shipping
Shipped on pallet or skid
Crated shipment available upon request
Final shipping configuration subject to approved design

Shipping Weight: TBD

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
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.

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-MDS-CB-3P4W-480Y.277-2000A-65K-N3R-DF-SER Switchgear is a UL 891 deadfront switchboard engineered for use as a service entrance main in industrial and commercial power distribution systems. This 2000A, 480Y/277V, three-phase, four-wire, NEMA 3R switchboard provides a single main circuit breaker position and is rated 65kAIC.

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

This switchboard is designed to receive incoming power from an upstream distribution transformer and serve as the overall main shut-off for the downstream distribution system. It is Service Entrance Rated and suitable for use as service equipment. The main section includes a molded-case main circuit breaker rated 2000A trip within a 2000A frame, equipped with an electronic trip unit providing true RMS sensing with adjustable long-time, short-time, instantaneous, and ground fault (LSIG) protection settings. A main bonding jumper is provided for service equipment use.

Main Section
A 3-pole, individually mounted molded-case main circuit breaker (2000A trip / 2000A frame) with electronic trip unit serves as the main disconnecting means for the assembly.

Protection & Relay Configuration
Electronic Trip Unit (Main Breaker, LSIG): Long-Time (51), Short-Time (51), Instantaneous (50), Ground Fault (50G/51G).

Construction
The main circuit breaker is a molded-case type with an electronic trip unit. The bus is copper with silver-plated contact surfaces. The neutral bus is rated 100% of the main bus continuous current, and a continuous copper ground bus (minimum 1/4" × 2") runs the length of the assembly. The enclosure is NEMA 3R for outdoor installation. Each section includes a 120V, 250W minimum thermostatically controlled heater to prevent condensation, maintaining section temperature between 60–90°F. The switchboard carries a 65kAIC short circuit rating.

Certification
Designed in accordance with UL 891 (Switchboards), UL 489 (Molded-Case Circuit Breakers), and NEMA PB 2. Suitable for use as service equipment. All grounding complies with NFPA 70.

Customer Compliance
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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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