

MPD-MDS-CB-3P4W-1.8-480Y.277-2000A-65K-N3R-DF

2000A Main Distribution Switchgear, 480Y/277V, 3-Phase 4-Wire, 65kAIC, NEMA 3R, Dead Front, with Integrated Metering, Entry Config 1 In / 8 Out (8) 250A Feeder Positions

Product ID: 344418

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



Image: MPD-MDS-CB-3P4W-1.8-480Y.277-2000A-65K-N3R-DF

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-1.8-480Y.277-2000A-65K-N3R-DF Switchboard

Unit Type: UL 891 Deadfront Switchboard

Configuration: 3-Phase, 4-Wire

Voltage: 480Y/277V

Entry Config: 1.8 (1 In / 8 Out)

Main Bus: 2000A

Main Breaker: 3-Pole, Individually Mounted, Electronic Trip Unit (LSIG)

Main Breaker Rating (Trip/Frame): 2000/2000, 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" x 2" Copper

Total Spaces: 8 (8 Populated)

Feeder/Branch Breaker Schedule (8 of 8 Positions Populated)

Made in the USA

Features of Every Assembly

Dead Front Construction

Digital Multifunction Power Meter — True RMS $\pm 1\%$, THD to 31st Order, Modbus RTU/RS485, KYZ Pulse Output

Molded-Case Circuit Breakers Throughout — Series Rating Not Permitted

Electronic Trip Units, All Breakers, True RMS Sensing
Integrated Utility Metering Section (PG&E Greenbook/EUSERC Compliant)

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



Positions 1–8: 250A Frame, 3-Pole, 250A Trip, Electronic Trip Unit

Dimensions & Shipping

Overall Dimensions: 144 in W × 36 in D × 90 in H (estimated)

Approximate Weight: 5,000 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

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-3P4W-1.8-480Y.277-2000A-65K-N3R-DF Switchgear from Larson Electronics is a UL 891 deadfront switchboard engineered for main distribution and metering in industrial and commercial power distribution systems. This 2000A, 480Y/277V, three-phase, four-wire switchboard provides one main circuit breaker position and eight outgoing feeder positions, all eight populated with 250A feeder breakers.

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 utility transformer and distribute it to downstream EV DC fast charging equipment. The main section includes a molded-case main circuit breaker rated 2000A trip within a 2000A frame, equipped with an electronic trip unit (Square D Micrologic 6.0P or approved equal) providing true RMS sensing with adjustable short-delay, instantaneous, and ground fault protection settings, along with a digital display of watts, VARs, VA, kWh, kvarh, kVAh, and kW/kVA demand and peak demand values. A digital multifunction power meter is provided at the incoming section, integrated for utility metering purposes, for continuous monitoring of voltage, current, power, and power quality parameters.

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, paired with a digital multifunction power meter offering true RMS ±1% accuracy, total harmonic distortion measurement to the 31st order, Modbus RTU communication via RS485, and a Form C KYZ pulse output relay.

Feeder Section (8 Spaces, 8 Populated)

Eight outgoing feeder positions are provided, each rated for a 3-pole molded-case breaker with electronic

trip unit. All eight positions are populated with 250A frame, 250A trip breakers to serve downstream equipment, with no spare positions reserved.

Construction

All circuit breakers are molded-case type with electronic trip units; series-rated breaker combinations are not permitted. 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" x 2") runs the length of the assembly. 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. 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.



Frequently Asked Questions (FAQ)

There are no Faqs



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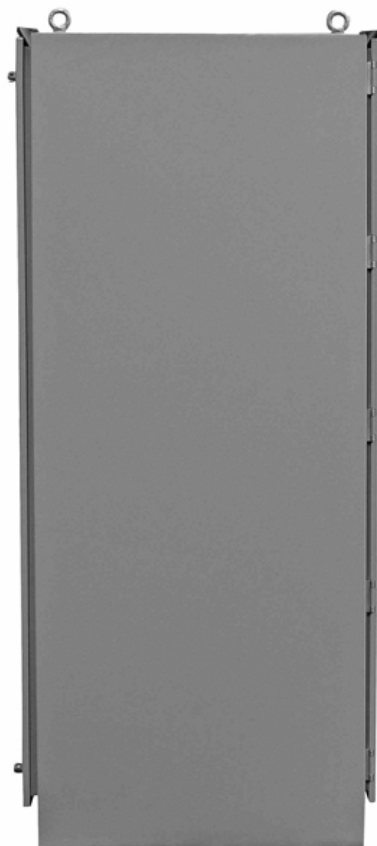


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Export Control Classification Number (ECCN): EAR99



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- **HigResPic2**(<https://www.larsonelectronics.com/images/product/HigResPic2/344418.JPG>)
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