Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
Phone: 800.369.6671

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MPD-MDS-CB-3P4W-2.8-480Y.277-4000A-100K-N1-ATC-PQ

4000A Dual-Source Main Distribution Switchboard (UL 891 Alternate), Fixed-Mounted, 480Y/277V 3-Phase 4-Wire, 100kAIC, NEMA 1, Open-Transition Automatic Transfer Control, Power Quality Metering

Product ID: 344552



Image: MPD-MDS-CB-3P4W-2.8-480Y.277-4000A-100K-N1-ATC-PQ

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-2.8-480Y.277-4000A-100K-N1-ATC-PQ Switchboard
Unit Type: Deadfront Switchboard, Fixed-Mounted Breaker Construction

Construction: Fixed-Mounted, Bolt-On Circuit Breaker Construction
Connection: 3-Phase, 4-Wire
Voltage: 480Y/277V
Main Bus: 4000A
Configuration: Dual-Source Main Configuration (Utility + Generator)
Enclosure Type: NEMA 1, Indoor
Short Circuit Rating: 100kAIC (quoted basis)
Bus Material: Copper
Cable Configuration: Bottom Cable Entry/Exit

Utility Main Breaker: 4000AF/4000AT, 3-Pole, Electronic Trip (LSIG), ERMS

Generator Main Breaker: 4000AF/4000AT, 3-Pole, Electronic Trip (LSIG), ERMS
Transfer Control: Open-Transition ATC, N.C./N.O. Source Interlock
Feature: Arc-Flash Reduction Maintenance Switch (ERMS) on Both Mains

Feeder Breaker Schedule (8 Positions)
Position 1: 100A Feeder
Positions 2–5: 600A Feeders (Qty 4)
Position 6: 600AF/320AT Feeder
Position 7: 3000AF/3000AT, 3-Pole, Feeder, LSI, ERMS

Made in the USA

Features of Every Section
Copper Bus Throughout
Integrated Surge Protective Device (SPD)
Power Quality (PQ) Metering
Open-Transition Automatic Transfer Control
Front-Accessible, Sectionalized Construction

Ratings & Approvals
Listed and labeled to UL 891
Manufactured, tested, and furnished in accordance with applicable ANSI, NEMA, and ULC standards
All grounding shall comply with applicable state, local, and NEC requirements

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Position 8: 3000AF/3000AT, 3-Pole, Feeder, LSI, ERMS

Dimensions & Shipping
Overall Dimensions: 280"W × 72"D × 90"H (estimated)
Approximate Weight: 16,000 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.

Made in the USA

The MPD-MDS-CB-3P4W-2.8-480Y.277-4000A-100K-N1-ATC-PQ from Larson Electronics is a UL 891 deadfront switchboard engineered for dual-source main power distribution in mission-critical facilities, offered as a fixed-mounted breaker alternate to drawout metal-enclosed switchgear construction. This 4000A, 480Y/277V, three-phase, four-wire switchboard is housed in a NEMA Type 1, indoor, dead-front, free-standing enclosure.

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

The switchboard is designed to receive incoming power from two independent sources — typically a utility feed and an on-site generator — and to distribute that power to downstream branch circuits.

Main Section
Two fixed-mounted, 3-pole main circuit breakers, each rated 4000AF/4000AT with electronic LSIG trip and ERMS arc-flash reduction, serve as the dual-source disconnecting means.

Transfer Control
An open-transition automatic transfer control governs source selection between the two mains, maintaining a normally-closed/normally-open interlock so that only one source feeds the bus at a time.

Feeder Section
Eight outgoing feeder positions are provided, individually rated per the feeder schedule, ranging from 100A branch feeders up to 3000AF/3000AT, 3-pole breakers with LSI electronic trip and ERMS.

Monitoring & Protection
A power quality meter and integral surge protective device are provided at the incoming section, offering continuous monitoring of voltage, current, and power quality parameters, along with transient protection for the connected bus.

Construction
The bus is copper throughout, with fixed-mounted, bolt-on breaker construction, front-accessible sectionalized enclosure, and bottom cable entry/exit.

Enclosure
NEMA Type 1, indoor-rated, free-standing, with front-hinged access doors.

Certification
Designed and listed in accordance with UL 891. Manufactured, tested, and furnished in accordance with applicable ANSI, NEMA, and ULC standards. 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