

MPD-MES-ACB-3P4W-480Y.277-4000A-65K-DO-WI-BEBE-N3R-M2

4000A 100%-Rated Low Voltage Switchgear - 3-Phase 480Y/277V, 4-Wire, 65kAIC, Drawout Air Circuit Breakers (2000A / 1600A / 800A Frames), Electronic LSIG Trip Units, ARMS - Walk-In NEMA 3R

Product ID: 344917

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



Image: MPD-MES-ACB-3P4W-480Y.277-4000A-65K-DO-WI-BEBE-N3R-M2

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-MES-ACB-3P4W-480Y.277-4000A-65K-DO-WI-BEBE-N3R-M2

Unit Type: Low Voltage Switchgear Lineup, Drawout Type Circuit Breakers

Made in the USA

Unit Overview

System: 480Y/277V AC, 3-Phase, 4-Wire, 60Hz

Main Bus Rating: 4000A, 100% Rated

Bus Max Available Fault Current (RMS): 65kAIC @ 480V

Bus Material: Silver-Plated Copper

Bus Connections: Bolted, Silver-Plated Copper

Enclosure: Walk-In, NEMA 3R

Rear Access: Hinged, Latched, Lockable Rear Doors

Circuit Breakers

Breaker Type: 100% Rated, Drawout, Air Circuit Breaker

Breaker Frame Ratings: 2000A, 1600A, 800A

Breaker Quantities and Arrangement: Per Single Line Diagram

Operation: Manually Operated

Contacts: Silver-Tungsten Moving, Silver-Graphite Stationary

Features of Every Assembly

Walk-In Style NEMA 3R Enclosure

Entry Doors at Each End of Enclosure

Interior Lighting

Convenience Power

Switched Exterior LED Wall Pack Above Each Entry Door

Neoprene Gaskets on Exterior Removable Panels, Doors, and Joints

Heater with Thermostat

Overhead Trolley and Winch for Circuit Breaker Removal and Placement

Circuit Breaker Test Plug and Required Tools and Accessories

Ratings & Approvals

UL 1558

IEEE C37.20.1

UL 1066

Mechanism: Cam-Type Stored Energy Open and Close

Arc Chutes and Provisions for Padlocking

ANSI C37.13

All grounding shall comply with NFPA 70 and applicable NEC requirements.

Protection & Relay Configuration

Trip Units: Microprocessor-Based Electronic, LSIG

Trip Unit Metering: Ampere, Voltage, Power, and Harmonic

Trip Unit Communications: Communications Capable

Trip Unit Power: Independent of Circuit Breaker

Maintenance Mode: Arc Flash Reduction Maintenance System (ARMS)

Breaker Metering Display: LED, Current, Voltage L-L, Power, Energy, kVA, and Demand

Breaker Status Indication: Open Green, Closed Red

Metal Open/Close Pushbutton Covers for LOTO

Control Power

Control and Enclosure Power: From Control Power Transformer (CPT)

CPT Fuses: Located at Front of Cell

Control Power UPS: As Required

Lugs & Connections

Incoming and Feeder Lugs: Included

Lug Type: Two-Hole, Long Barrel, Double Compression

Lug Sizes and Quantities: Per Single Line Diagram

Rear Cable Supports: Within All Vertical Sections

Ground Balls: Accessible at Rear of Equipment

Dimensions & Shipping

Overall Dimensions: 240 in L × 96 in W × 90 in H (estimated)

Approximate Weight: 9,500 lbs per lineup (estimated)

Shipping Dimensions: TBD

Shipping Weight: TBD

Shipping

Shipped Shrink-Wrapped

Final Shipping Configuration Subject to Approved Design

Special Orders

Contact us for special requirements

Toll Free: 1-800-369-6671

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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-MES-ACB-3P4W-480Y.277-4000A-65K-DO-WI-BEBE-N3R-M2 from Larson Electronics is a Low Voltage Switchgear lineup engineered for reliable main and feeder protection in industrial and critical facility applications. This unit is designed for use with three-phase 480Y/277V AC, 60Hz, 4-wire systems and is rated 4000A with a silver-plated copper main bus. The lineup uses 100% rated drawout air circuit breakers and is

housed in a walk-in NEMA 3R enclosure.

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

The **MPD-MES-ACB-3P4W-480Y.277-4000A-65K-DO-WI-BEBE-N3R-M2** is engineered for pad-mounted outdoor service where serviceable, maintainable low voltage distribution is required. The walk-in enclosure lets personnel reach the equipment under cover. Drawout breakers allow removal, testing and maintenance without de-energizing the entire lineup. The lineup features microprocessor-based electronic LSIG (Long-Time, Short-Time, Instantaneous, Ground Fault) trip units and a 65kAIC bus fault-current rating.

Circuit Breakers:

The switchgear is equipped with 100% rated, manually operated, drawout air circuit breakers in 2000A, 1600A and 800A frame sizes, arranged per the project single line diagram. The breakers have a cam-type stored-energy open and close mechanism, silver-tungsten moving contacts, silver-graphite stationary contacts and arc chutes, with provisions for padlocking. Metal open/close pushbutton covers support lockout/tagout, and breaker status is shown by indication, with open green and closed red.

Trip Units & Metering:

The **MPD-MES-ACB-3P4W-480Y.277-4000A-65K-DO-WI-BEBE-N3R-M2** uses microprocessor-based electronic LSIG trip units with ampere, voltage, power and harmonic metering and communications capability. Trip unit power is independent of the circuit breaker. An LED display shows current, line-to-line voltage, power, energy, apparent power (kVA) and demand. An Arc Flash Reduction Maintenance System (ARMS) maintenance mode function is included to support reduced incident energy exposure during maintenance.

Bus & Connections:

The main bus is rated 4000A with silver-plated copper phase bus, and all bus-to-bus connections are bolted, silver-plated copper. Incoming and feeder cable lugs are included, using two-hole, long-barrel, double-compression lugs sized to the project design. Rear cable supports are provided within all vertical sections, and ground balls are accessible at the rear of the equipment.

Enclosure Design:

The switchgear is housed in a walk-in NEMA 3R enclosure with entry doors at each end, interior lighting and convenience power. A switched exterior LED wall pack is provided above each entry door. Neoprene gaskets are installed on all exterior removable panels, doors and joints, and a heater with thermostat is installed within the switchgear. Rear access is through hinged, latched, lockable rear doors. An overhead trolley and winch support removing and placing circuit breakers on a cart, and a circuit breaker test plug and the tools and accessories required for operation and maintenance are furnished.

Control Power:

Enclosure and switchgear control power is derived from a control power transformer (CPT). CPT fuses are located at the front of the cell, even when the CPT is located in a rear compartment. Control power UPS is provided as required.

Mount:

The assembly is designed for pad-mounted outdoor installation.

Protection & Relay Configuration:

No external protective relays are included. Overcurrent protection is provided by the electronic LSIG trip units on each breaker: long-time overcurrent (49/51), short-time and instantaneous overcurrent (50/51), and ground fault (50G/51G). Metering covers current, line-to-line voltage, power, energy, kVA and demand, with ARMS maintenance mode.

Ratings & Approvals:

IEEE C37.20.1, UL 1558, UL 1066, UL 891, ANSI C37.13, ANSI C37.16, ANSI C37.17, ANSI C37.20, ANSI C37.50 and ANSI C37.51. All grounding complies with NFPA 70 and applicable NEC requirements.

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.

Applications:

Critical facility power distribution, data centers, industrial plants, and commercial campuses requiring a main low voltage lineup with drawout breaker maintainability in a walk-in outdoor enclosure.

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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 Fags



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