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MPD-MES-VCB-3P4W-1.14-480V-2000A-BE-FM-MET-CU-N3R-SPD-M1

Metal Enclosed Switchgear, 2000 Amp, 480 V AC, 3-Pole 4-Wire, 1 IN 14 OUT, Pad Mount, Bottom Entry, Copper Bus, NEMA 3R

Product ID: 333385



Image: MPD-MES-VCB-3P4W-1.14-480V-2000A-BE-FM-MET-CU-N3R-SPD-M1

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-VCB-3P4W-1.14-480V-2000A-BE-FM-MET-CU-N3R-SPD-M1 Metal Enclosed Switchgear

Unit Type: Metal Enclosed Switchgear - Vacuum Disconnect Switch
Line-In Orientation: Bottom Feed
Nominal Voltage: 480Y/277 V AC, 3 Phase, 4 Wire
Maximum Voltage Rating: 0.6 KV AC
Voltage BIL: 10 KV

Busbar Continuous Current Rating: 2000 A

Busbar Interrupting Rating: 100 kA

Busbar Material: Copper

Busbar Plating: Tin Plated

Incomer: (1) 2000A CB, 3P, LSIG, EO

Outgoing: (4) 1200A CBs, 3P, LSIG, EO, (2) 1600A CBs, 3P, LSIG, EO, (2) 800A CBs, 3P, LSIG, EO, (5) 200A CBs, 3P, LSIG, EO, (1) 1600AF/1600AT Fused Section, 3P w/ GFR
Main Disconnect Switch Current Transformer: Included, Revenue Grade Split Core CTs, 5000:5 Ratio, 0.5 Accuracy Class

Assembly Channel Sills: Included

Feeder Circuit Breaker Charging Spring Operation: Manual

Switchgear Mechanism: CB with stored energy type operating mechanism and spring charging

Padlocks: Included

Infra Viewing Windows: Included

Ratings

NRTL Listed Service Equipment
NRTL Listed to UL 891 Dead Front Switchboards
NEMA 3R Rated for Indoor and Outdoor Use
Made in the USA

Auxiliary Contacts: Included

Cubicle Heaters: Included

Mechanical/Keyed Interlocks: Included

Ground Bus Material: Copper Tin Plated

Ground Lug Size: 4/0 AWG

Control Circuits: 120V AC, supplied through secondary disconnecting devices from control power transformer

Control-Power Fuses: Primary and secondary fuses for current-limiting and overload protection of transformer and fuses for protection of control circuits

Control Wiring: Included, Flexible conductors for No. 8 AWG

Accessory Set: Included, Tools and miscellaneous items required for overcurrent protective device test, inspection, maintenance, and operation.

Integral Modbus TCP Switch: Included, Pre-wired to Modbus TCP breakers to allow for single point connection for circuit breaker interface

Voltage Presence Indicator: Included

Communication Protocols: Modbus TCP/IP or IEC61850

Power Feeder Control and Automation: Included

Ground Fault Relay: Included

Maintenance Mode Switch (MMS): Included

Lockout Relay: Included

Zone Selective Interlocking (ZSI): Included

Metering Current & Potential Transformer (CT/PT): Included Mount and Termination CT/PT

Surge Protection Device: Included

Line-Out Orientation: Bottom Feed

Accessibility: Front Access

Housing Type: Compartmental Air-Filled Cabinet, (1) Front Left Hinged Door w/ Pad Lockable Handle and (1) Rear Right Hinged Door w/ Pad Lockable Handle, Fuse Door and Switch handle are Kirk Key Interlocked

Enclosure Material: #12GA Sheet Steel

Enclosure Finish: ANSI 61 Grey

Enclosure Type: NEMA 3R Ventilated

Operating Temperature Range: 24-39°C

Relative Humidity: 40%

Mounting: Pad Mounted

Dimensions: 75"-W x 69.75"-L x 45.5"-H

Weight: 1800 lbs

Shipping Dimensions: TBD

Shipping Weight: TBD

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 one-line diagram.

Special Orders - Special Requirements

Contact us for special requirements

Toll Free: 1-800-369-6671

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All grounding shall comply with state and local codes and meet the minimum requirements of the National Electronic Code section 250

Made in the USA

The Larson Electronics MPD-MES-VCB-3P4W-1.14-480V-2000A-BE-FM-MET-CU-N3R-SPD-M1 Metal Enclosed Switchgear is designed for reliable, safe and convenient power distribution at industrial work sites. Designed for pad mounting installations. This bottom feed switchgear is protected by a NEMA 3R rated, steel enclosure with a ventilated design.

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

The MPD-MES-VCB-3P4W-1.14-480V-2000A-BE-FM-MET-CU-N3R-SPD-M1 service entrance switchgear provides a safe and reliable way for operators in industrial settings to tap into and utilize power sources independently of the work area. Compatible with 480 V AC, the switchgear features a manual operating handle. This bottom feed switchgear carries a 100 kA at 480 V AC interrupt rating. The switchgear comes with and accepts a main 2000-amp vacuum switch.

Operation: The switchgear features front control panel and rear termination equipped with a locking door. The door provides access to a permanently attached operating handle, which is used for manually disconnecting or connecting power and busbars (at rear). A dead front cover protects operators from the switches for safety. Operators can inspect the fuses through the dead front via a vented cover. Removing the dead front allows access to the switches.

Time Delay vs. Fast Acting Fuses Two of the most common types of fuses found in power distribution equipment are time delay and fast acting fuses.

> **Time Delay:** Time delay fuses are tripped once overcurrent heat builds up enough to melt the fuse element over a period of time. That period of time varies between different time delay fuses depending on the application. Time delay fuses decrease the chances of false tripping. During startup, many components require a large current for a very short amount of time. In other words, a time delay fuse disconnects the circuit only when the overcurrent persists in the line.
>
> **Fast Acting:** Fast acting fuses are tripped immediately upon sensing an overcurrent or short circuit in the line. They are ideal for electronics, components, or systems that cannot withstand sudden changes in current. A fast acting fuse will not withstand a temporary overload such as one that occurs during the startup process.

Enclosure Design: The switchgear is protected by an 11GA sheet steel enclosure with ANSI green finish. A ventilated design promotes natural cooling and improves performance. The enclosure is NEMA 3R rated for protection against water, moisture and debris. This rating allows the fused disconnect to be used in indoor and outdoor areas.

Certification: This switchgear is NRTL listed to UL 891 dead front switchboards and NRTL listed for service equipment.

Mount: Operators can mount the service entrance switchgear on floors and flat surfaces.

Customization: The MPD-MES-VCB-3P4W-1.14-480V-2000A-BE-FM-MET-CU-N3R-SPD-M1 can be customized to meet specific operating and power requirements. Example of customizations include:

• Making the fused disconnect portable and certified to NRTL UL 1640 for portable equipment

• Adding single pole camlock connectors for quick connections

• Adding heaters for cold environments

• Aiding alarm relays for trip notification downstream

• Adding power meters

Applications: This switchgear is suitable for indoor/outdoor use and applications including, but not limited to, solar equipment, construction sites, plant maintenance, plant turnarounds, hazardous location operations, shows, exhibits, and shipyard operations.

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