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MPD-MES-VCB-3P3W-22-480V-2500A-BE-FM-MET-CU-N12-SAR-M1

Metal Enclosed Switchgear, 2500 Amp, 480 V AC, 3-Pole 3-Wire, 2IN 2OUT, Floor Mount Bottom Entry, Copper Bus, NEMA 12

Product ID: 312116

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



Image: MPD-MES-VCB-3P3W-22-480V-2500A-BE-FM-MET-CU-N12-SAR-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-3P3W-22-480V-2500A-BE-FM-MET-CU-N12-SAR-M1 Metal Enclosed Switchgear - Non-Fused Disconnect

Unit Type: Metal Enclosed Switchgear - Vacuum Disconnect Switch
Line-In Connections: Terminal Lugs, Accepts 750MCM-1/0
Line-In Orientation: Bottom Feed
Configuration: Live Front
Nominal Voltage: 480 V AC, 3 Phase
Maximum Voltage Rating: 0.6 KV AC, 3 Phase
Voltage BIL: 10 KV
Current: Alternate 3 Phase Current
Protection Method: N/A
Fuse Max. Rating: N/A
Fuse Holder Rating: N/A
Spare Fuses: N/A
Main Bus Continuous Current Rating: 2500 A
Switch Load-Interrupting Current Rating: 2500 A
Switch Short Circuit Rating: 85 kA (1 Sec.)
Main Bus Short Circuit Rating: 85 kA
Disconnect Means: Manual via Handle
Metering Current & Potential Transformer (CT/PT): Included Mount and Termination

Ratings

NRTL Listed Service Equipment
NRTL Listed to UL 891 Dead Front Switch Boards
NEMA 12 Rated for Indoor and Outdoor Use
Made in the USA

CT/PT

Line-Out Connection: Terminal Lugs, Accepts 750MCM-1/0

Line-Out Orientation: Bottom Feed

Surge Arrestors: Included, (1) Per Each Phase

Surge Arrestor Voltage Rating: 1 kV

Surge Arrestor MCOV Rating: 1 kV

Form Factor: Rectangular, Slim-profile Enclosure w/ Lockable Door, 1 incoming panel, 1 outgoing panel

Panel Configuration: 4 x Non-Fused Compartments

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: Munsell™ 7GY 3.29/1.5 Bell Green

Enclosure Type: NEMA 12 Ventilated, internal thermostatically controlled 250W, 120VAC heaters to prevent condensation in the enclosure, Automation control includes a 120VAC to 24VDC power supply capable of powering the entire control. A battery charger is provided and utilize 120VAC from the internal CPTs

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-3P3W-22-480V-2500A-BE-FM-MET-CU-N12-SAR-M1 Metal Enclosed Switchgear is designed for reliable, safe and convenient power distribution at industrial work sites. This switchgear includes one disconnect switch and 2500-amp Class L fuses. Designed for floor mounting installations. This bottom feed switchgear is protected by a NEMA 12 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-3P3W-22-480V-2500A-BE-FM-MET-CU-N12-SAR-M1 service entrance disconnect switch 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 600V AC, the switchgear features a manual operating handle. This bottom feed disconnect carries a 85 kA at 480V AC interrupt rating. The switchgear comes with and accepts three 2500-amp Class L time delay fuses.

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 bur bars (at rear). A dead front cover protects operators from the fuses for safety. Operators can inspect the fuses through the dead front via a vented cover. Removing the dead front allows access to the fuses.

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 disconnect switch 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 disconnect switch is NRTL listed to UL 891 dead front switchboards and NRTL listed for service equipment.

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

Customization: The MPD-MES-VCB-3P3W-22-480V-2500A-BE-FM-MET-CU-N12-SAR-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 down stream

• Adding powering 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

Export Control Classification Number (ECCN): EAR99

Links (Click on the below items to view):

- **HigResPic1**(https://www.larsonelectronics.com/images/product/HigResPic1/312116.JPG)
- **ISO 9001 Certification**(http://larsonelectronics.com/images/pdfdocs/ISO9001.PDF)
- **Business Certificate**(https://www.larsonelectronics.com/images/pdfdocs/w9.PDF)
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