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MPD-MES-VCB-3P4W-1.9-480.277V-4000A-BE-FM-MAR-CU-N1-M1

LV Metal Enclosed Drawout Switchgear - 480/277V AC 3PH, 4W - 4000A Main Bus, 1 IN 9 OUT - Floor Mount - Bottom Entry - Silver-Plated Copper Bus - NEMA 1

Product ID: 337590

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



Image: MPD-MES-VCB-3P4W-1.9-480.277V-4000A-BE-FM-MAR-CU-N1-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-1.9-480.277V-4000A-BE-FM-MAR-CU-N1-M1 Metal Enclosed Switchgear

Unit Type: LV Metal Enclosed Switchgear
Line-In Connections: Terminal Lugs, Accepts 750MCM-1/0
Line-In Orientation: Bottom Feed
Nominal Voltage: 480/277V AC, 3 Phase, 4 Wire
Maximum Voltage: 600V AC
Withstand Voltage: 2200V Dielectric Test
BIL: N/A
Protection Method: Drawout Low-Voltage Power Circuit Breakers
Protection Type: Electrically Operated Switching
Protection Fuses: N/A
Protection Ampacity: 4000A Main Bus
Busbar Rating: 4000A
Interrupting Rating: 65 kAIC Minimum
Disconnect Means: Drawout Circuit Breakers
Incomers: (1) 4000AF/4000AT 3P Drawout Circuit Breaker
Outgoings: (8) 800A Drawout Circuit Breakers, (1) 400A Drawout Circuit Breaker, (1) 1200A Drawout Circuit Breaker
Surge Protection Device: N/A
Metering Current & Potential Transformer (CT/PT): Included Protection & Metering

Ratings

NRTL Listed Service Equipment
UL 1558 Listed Low Voltage Switchgear
NEMA 1 Rated for Indoor Use

Made in the USA

CT/PT
Line-Out Connection: Terminal Lugs, Accepts 750MCM-1/0
Line-Out Orientation: Bottom Feed
Form Factor: Modular Drawout Switchgear Lineup with Front Accessible Compartments
Panel Configuration: 1 x Incoming Section, 9 x Outgoing Feeder Sections
Housing Type: Compartmentalized Air-Filled Steel Cabinet with Rear Cable Access Doors and Front Hinged Breaker Doors
Ground Bus: Full-Length Copper Ground Bus
Neutral Bus: Full Capacity Neutral Bus
Arc Flash Reduction: ARMS Included
Communication Protocols: Modbus RTU, Modbus TCP
Trip Unit: Microprocessor-Based Solid State PXR-25 Trip Unit
Busbar Material: Silver-Plated Copper
Enclosure Material: Coated Steel
Enclosure Finish: ANSI 61 Grey
Enclosure Type: NEMA 1
Total Dimensions: 29.76"D x 196.87"W x 78.74"H
Weight: TBD
Shipping Dimensions: -
Shipping Weight: -
Special Features: Breaker Health Monitoring, Waveform Capture, Event Logging, Remote Racking Ready, Safety Shutters

Special Orders - Special Requirements
Contact us for special requirements
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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.

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-1.9-480.277V-4000A-BE-FM-MAR-CU-N1-M1 Metal Enclosed Drawout Switchgear is designed for reliable, safe and convenient power distribution in industrial facilities and utility-fed applications. This low-voltage switchgear includes one 4000-amp drawout low-voltage power circuit breaker and multiple outgoing feeder breakers for branch distribution. Designed for floor mounting installations, this bottom feed switchgear is protected by a NEMA 1 rated steel enclosure with ventilated construction.

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

The MPD-MES-VCB-3P4W-1.9-480.277V-4000A-BE-FM-MAR-CU-N1-M1 service entrance switchgear provides a safe and reliable method for operators to distribute and manage electrical power in demanding industrial environments. Compatible with 480/277V AC 3-phase 4-wire systems up to 600V AC maximum, the switchgear features electrically operated drawout power circuit breakers with microprocessor-based trip protection. This bottom feed switchgear carries a 65 kAIC interrupt rating with a 100 kA symmetrical bus withstand rating. The switchgear includes one 4000AF/4000AT incoming drawout circuit breaker and multiple feeder breakers for downstream distribution.

Operation: The switchgear features front-accessible breaker compartments and rear cable

access doors equipped with padlockable handles. Drawout circuit breakers provide connected, test, disconnected and removed positions for safe maintenance and servicing. Safety shutters automatically cover energized stabs when breakers are withdrawn. The switchgear includes front-accessible controls for breaker operation, trip unit adjustment and breaker status indication without opening compartment doors.

Trip Unit & Protection: The switchgear utilizes advanced solid-state PXR-25 trip units with long-time, short-time, instantaneous and ground fault protection. The trip units support waveform capture, event logging, breaker health monitoring, Modbus RTU and Modbus TCP communications, and Arc Flash Reduction Maintenance System (ARMS) functionality for enhanced operator safety and system coordination.

Enclosure Design: The switchgear is protected by a steel enclosure with ANSI 61 grey finish. The NEMA 1 enclosure is designed for indoor use and protects against incidental contact and falling dirt. Rear hinged cable access doors and removable side panels simplify installation and maintenance procedures.

Certification: This switchgear is manufactured in accordance with UL 1558, UL 1066 and IEEE/ANSI C37 standards for low-voltage metal-enclosed switchgear assemblies and power circuit breakers.

Mount: Operators may securely mount the switchgear on floors and flat surfaces in industrial and commercial electrical distribution systems.

Customization: The MPD-MES-VCB-3P4W-1.9-480.277V-4000A-BE-FM-MAR-CU-N1-M1 can be customized to meet specific operating and power requirements. Example of customizations include:

• Adding surge protection devices (SPD)

• Adding remote racking systems

• Adding advanced power quality metering

• Adding breaker key interlocks

• Adding heaters and environmental controls

• Adding custom feeder breaker arrangements

Applications: This switchgear is suitable for indoor industrial and commercial power distribution applications including manufacturing facilities, utility service entrances, process plants, heavy industrial operations, data centers, infrastructure facilities and large commercial buildings.

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

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