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MPD-MCS-VCB-3P3W-17-15KV-1250A-BE-FM-MAR-CU-N3R-M1

Metal Clad Switchgear, 1250 Amp, 15 KV AC, 3-Pole 3-Wire, 1 IN 7 OUT, Floor Mount, Bottom Entry, Copper Bus, NEMA 3R

Product ID: 335656

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



Image: MPD-MCS-VCB-3P3W-17-15KV-1250A-BE-FM-MAR-CU-N3R-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-MCS-VCB-3P4W-21-13.8KV-1000A-BE-FM-MET-CU-N3R-SAR-M1 Metal Clad Switchgear - Non-Fused Disconnect

Unit Type: Metal Clad Switchgear - Vacuum Disconnect Switch
Line-In Connections: Terminal Lugs, Accepts 750MCM-1/0
Line-In Orientation: Bottom Feed
Configuration: Live Front
Frequency: 60 Hz
Nominal Voltage: 12.47 KV AC, 3 Phase
Maximum Voltage Rating: 15 KV AC, 3 Phase
Voltage BIL: 95 KV
Current: Alternate 3 Phase Current
Protection Method: Microprocessor-Based Protection Relays
Fuse Max. Rating: N/A
Fuse Holder Rating: N/A
Spare Fuses: N/A
Main Bus Continuous Current Rating: 1250 A
Asymm. Short Circuit Rating: 40 kA
Cubicle Lighting: Internal LED type.
Front Compartment Doors: Steel hinged, padlocking and view window provisions, arc fault withstand capability per IEEE Std. C37.20.7, single handle, interlock to prevent racking with

Ratings

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

door open or unlatched, viewing window on load-breaking device cubicles.

Rear Compartment Doors: Steel hinged, padlocking provisions, arc fault withstand capability per IEEE Std. C37.20.7 Type 2, single handle, interlock to prevent opening unless the removable element is disconnected.

Instrument Compartment Doors: Comply with IEEE Std. C37.20.7 testing.

Ventilation: Louvers with filters (MERV 11, removable), roof ventilation to prevent animal and insect access.

Arc Fault Withstand: Design to IEEE standard to withstand arcing fault, prevent material entrapment in louvers.

Assembly and Interconnection: Coordinated by seller, assembled prior to shipment, complete shipment.

Cable Termination: Depth sufficient for cable entrance, individual units for bottom entrance

Safety Interlocks and Barriers: To prevent personnel exposure to energized bus

Incomers: (1) Tie Breaker (Utility Incoming), Vacuum Circuit Breaker, 1250A, 40 kAIC

Station Service Breaker: (1) Vacuum Circuit Breaker for auxiliary loads

Outgoings:
- (2) Feeder Breakers, Vacuum Type
- (4) Generator Breakers, 2200 kW @ 12.47 kV each, Vacuum Type

Primary Voltage Bus: Copper bar, silver-plated connections, insulated, flame retardant, track resistant, supported by insulators, bolted joints, A-B-C orientation

Grounding: Ground bus, facilities, and connections per ANSI C37.20

Control and Secondary Wiring: AWG No. 14–10 stranded copper, 600V rated

Cubicle Heaters: Thermostatically controlled anti-condensation heaters, 120/240 VAC

Disconnect Means: Electrically operated vacuum circuit breakers with manual spring charge backup

Generator Protection: Reverse Power, Over/Under Voltage, Over/Under Frequency, Synchronization Check

Protection Relay: Included, SEL / ABB / Siemens (Equivalent), for incomer, feeders and generators

Metering Current & Potential Transformer (CT/PT): Included for all breakers

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

Line-Out Orientation: Bottom Feed

Surge Arrestors: Included, Metal Oxide, Station Class (for incoming and generator sections)

Surge Arrestor Voltage Rating: 15 kV

Surge Arrestor MCOV Rating: 12.7 kV

Form Factor: Multi-cubicle lineup, front and rear access

Panel Configuration: 1 Incoming, 7 Outgoing (1 Tie, 1 Station, 2 Feeders, 4 Generators)

Housing Type: Compartmentalized metal-clad, air-insulated

Enclosure Material: #12GA Sheet Steel

Enclosure Finish: Powder Coated

Enclosure Type: NEMA 3R, outdoor rated, ventilated with anti-condensation heaters

Mounting: Floor / Pad Mounted

Dimensions: TBD

Weight: TBD

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-MCS-VCB-3P3W-17-15KV-1250A-BE-FM-MAR-CU-N3R-M1

Metal Clad Switchgear is designed for reliable, safe and convenient medium voltage power distribution at industrial and utility-grade facilities. This switchgear is rated at 1250 amps and is built for 15 kV class systems (12.47 kV nominal). Designed for floor mounting installations, this bottom feed switchgear is protected by a NEMA 3R rated steel enclosure with a ventilated design for outdoor and indoor use.

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

The MPD-MCS-VCB-3P3W-17-15KV-1250A-BE-FM-MAR-CU-N3R-M1 metal clad switchgear lineup provides a safe and reliable solution for managing utility incoming power, station service loads, distribution feeders, and generator interconnections. This configuration includes (1) tie breaker (utility incoming), (1) station service breaker, (2) feeder breakers, and (4) generator breakers rated 2200 kW @ 12.47 kV each, enabling efficient load distribution and generator paralleling operations. The system supports 15 kV AC applications and features vacuum circuit breakers with a 40 kA interrupting rating.

Operation: The switchgear features front-access control compartments and rear cable termination sections with lockable doors for enhanced safety. Electrically operated vacuum circuit breakers provide reliable switching and protection, while mechanical and electrical interlocks prevent unsafe operation. A dead front design ensures operator protection from energized components. Viewing windows and compartmentalized construction allow safe inspection and maintenance.

Protection & Control: This unit is equipped with microprocessor-based protection relays for comprehensive system protection. Generator breakers include reverse power, over/under voltage, over/under frequency, and synchronization check protection, making the system ideal for generator paralleling applications. Metering and protection CT/PTs are included for full monitoring and control capability.

Enclosure Design: The switchgear is housed in a rugged 12-gauge sheet steel enclosure with an ANSI standard finish (Buckeye Tan optional). A ventilated design with louvers and optional heaters helps regulate internal temperature and prevent condensation. The NEMA 3R rating ensures protection against rain, sleet, and external debris for outdoor installations.

Certification: Designed in accordance with ANSI/IEEE C37 standards for metal-clad switchgear and applicable NEMA requirements.

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

Customization: The MPD-MCS-VCB-3P3W-17-15KV-1250A-BE-FM-MAR-CU-N3R-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 medium voltage switchgear is suitable for indoor and outdoor use in applications including, but not limited to, power generation facilities, substations, industrial plants, renewable energy systems, data centers, oil and gas operations, and critical infrastructure requiring reliable power distribution and generator synchronization.

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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Image: MPD-MCS-VCB-3P3W-17-15KV-1250A-BE-FM-MAR-CU-N3R-M1



Image: MPD-MCS-VCB-3P3W-17-15KV-1250A-BE-FM-MAR-CU-N3R-M1

Export Control Classification Number (ECCN): EAR99

Links (Click on the below items to view):

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- **HigResPic2**(https://www.larsonelectronics.com/images/product/HigResPic2/335656.JPG)
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