Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
Phone: 800.369.6671

www.LarsonElectronics.com
Email: sales@LarsonElectronics.com
Fax: 903.498.3364

MPD-MES-VCB-3P3W-12-5KV-630A-BE-FM-MET-CU-N1A-SAR-M1

Metal Enclosed Switchgear, 630 Amp, 5 KV AC, 3-Pole 3-Wire, 1 IN 2 OUT, Floor Mount, Bottom Entry, Copper Bus, NEMA 1A

Product ID: 316007



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-12-5KV-630A-BE-FM-MET-CU-N1A-SAR-M1 Metal Enclosed Switchgear

Unit Type: Metal Enclosed Switchgear, Vacuum Circuit Breaker Switchgear
Line-In Connections: Terminal Lugs, Accepts 750MCM-1/0
Line-In Orientation: Bottom Feed
Nominal Voltage: 4.16 kV, 3-phase, 3-wire + ground
Voltage Rating: 5 kV AC, 3 Phase
BIL Rating: 60 kV
Frequency: 60 Hz
Current: Alternate 3 Phase Current
Protection Method: N/A
Protection Type: N/A
Protection Fuses: N/A
Bus Rating: 630 A
Bus Type: Silver-plated copper
Circuit Breaker Continuous Current Rating: 630 A
Circuit Breaker Interrupting Fault Current Rating: 25 kA
Circuit Breaker Type: Handcart-type vacuum circuit breaker (VCB)
Short Circuit Current Rating: 25 kA
Insulators: Cycloaliphatic epoxy
Control Voltage: 110 VAC, 60Hz
Protection Relays: Overcurrent, overvoltage, undervoltage, zero-sequence, and ultra-high temperature trip

Ratings

NRTL Listed Service Equipment
NRTL Listed to UL 891 Dead Front Switch Boards
NEMA 1A Rated
UL Listed
3 Years of Warranty
Made in the USA

Metering and Monitoring:

Multifunction meter with Profibus or RS-485 communication

Ammeter with live display

Power Quality Meter (PQM) with RS-485 interface

Real-time monitoring of voltages, currents, power factor, kW, kVAR, harmonics, etc.

Safety and Protection:

Tripping Unit: Manual, automatic (failure-based), and remote via shunt trip coil

Grounding Protection: >5A trip at 0.3s

Overcurrent Protection: 4× rated current for 0.1s

Undervoltage Protection: 90% of rated voltage for 0.5s

Overvoltage Protection: 110% of rated voltage for 0.5s

Lightning Arresters: Three-phase protection installed

Arc Flash Labels: NEC 110.16 & 110.18 compliant

Accessories:

Current Limiting Fuses: Installed at each outgoing line

Indicators & Controls: Power-on lamp, close/open lamps, push buttons

Color Coding: Control wires: Red & White / Power cable (110VAC): Black & White / Grounding wires: Green

Cutouts for HV and LV Conductors: Segregated for safety

Space Heaters: Included, Thermostatically controlled, 110VAC power source

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

Line-Out Orientation: Bottom Feed

Lifting Brackets: Included, Fitted on the Top of the Enclosure

Form Factor: Rectangular, Slim-profile Enclosure w/ Lockable Door, 1 incoming panels, 2 outgoing panel

Panel Configuration: 1 x Incoming panels, 2 x Outgoing panel

Mounting: Pad Mount/Floor Mount

Ambient Temperature: -10°C to 50°C

Corrosion Resistance: Designed for industrial and salt mist environments

Enclosure Material: 11 Gauge Hot Rolled Pickled and Oiled Steel

Enclosure Finish: Munsell™ 7GY 3.29/1.5 Bell Green
Enclosure Type: NEMA 1A, Gasketed
Dimensions: 60”H x 41”W x 69.75”D
Weight: TBD
Shipping Dimensions: -
Shipping Weight: -

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
Intl: 1-903-270-1187
Fax: 1-903-498-3364
E-mail: sales@larsonelectronics.com

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-12-5KV-630A-BE-FM-MET-CU-N1A-SAR-M1 Metal Enclosed Switchgear is designed for reliable, safe and convenient power distribution at industrial work sites. This switchgear includes one load interrupting disconnect switch and one automatic transfer switch. Designed for floor mounting installations. This bottom feed switchgear is protected by a NEMA 1A 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-12-5KV-630A-BE-FM-MET-CU-N1A-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 5 KV AC, the switchgear features a manual operating handle. This bottom feed disconnect carries a 25 kA at 5 KV AC interrupt rating.
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 switches for safety. Operators can inspect the switches through the dead front via a vented cover. Removing the dead front allows access to the switches
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 1A rated for protection against water, moisture and debris. This rating allows the fused disconnect to be used in indoor/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-12-5KV-630A-BE-FM-MET-CU-N1A-SAR-M1 can be customized to meet specific operating and power requirements. Example of customizations include:
• Making the disconnect switches 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.


CAUTION
WARNING
WARNING
WARNING
CAUTION
HIGH VOLTAGE


CAUTION
HIGH VOLTAGE





Frequently Asked Questions (FAQ)