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MPD-MES-VCB-3P4W-16-380Y.220-2000A-BE-FM-MET-CU-N3R-M1

Metal Enclosed Switchgear, 2000 Amp, 380Y/220 V AC, 3-Pole 4-Wire, 1 IN 6 OUT, Floor Mount, Bottom Entry, Copper Bus, NEMA 3R

Product ID: 324528

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



Image: MPD-MES-VCB-3P4W-16-380Y.220-2000A-BE-FM-MET-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-MES-VCB-3P4W-16-380Y.220-2000A-BE-FM-MET-CU-N3R-M1 Metal Enclosed Switchgear

Unit Type: Metal Enclosed Switchgear - Vacuum Disconnect Switch
Line-In: N/A (customer provided)
Line-In Cord Cap: N/A (customer provided)
Line-In Connections: N/A
Line-In Orientation: N/A

Nominal Voltage: 380Y/220V AC

Rated Max Voltage: 1.2 kV

Rated BIL Voltage: 30 KV

Continuous And Load Interrupting Current: 2000A

Short-Time And short-Circuit Interrupting Current: 50 KA

Phase: 3-Phase

Features Of Every Vertical Section

Structural design and anchorage adequate to resist loads imposed by 125 mph wind.
Space heater operating at one-half or less of rated voltage, sized to prevent condensation, controlled by thermostats to maintain temperature of each section above expected dew point.
Louvers equipped with insect and rodent screens and filters, and arranged to permit air circulation while excluding rodents and exterior dust.
Weatherproof ground-fault circuit interrupter duplex receptacles
Skid Mounted: Mount each shipping group on an integral base frame as a complete weatherproof unit

Frequency: 60 Hz (60-Cycles)
Wire: 4-wire
Neutral Connection: Included

Metering Section:

Consists Of Pre-wired Form 9S ring-type meter socket (13-jaw)
Consists Of Pre-wired revenue-grade CTs with 400:5 ratio and a TRF of 3.0 to accommodate up to 1200A
Consists Of Meter test bypass switch

Main Breaker Protective Features:

Adjustable trip settings

Ground fault protection
Bonding jumper between neutral and ground is installed inside the main breaker compartment and furnished with a ground fault current sensor
Incoming: (1) 380V, 2000A CB
Outgoing: (3) 380V, 300A, (3) 380V, 60A CBs
Provisions for Additional Breakers: Included, (6) Provisions [(3) 380V, 300A, (3) 380V, 60A CBs]
Support Frame And Enclosure Base Material: Powder Coated Steel
Enclosure Finish: Munsell™ 5BG 7.0/0.4 Light Grey (ANSI #70)
Enclosure Type: NEMA 3R Ventilated, Weatherproof
Mounting: Integral skid mounting frame, designed for mounting on a concrete pad, suitable to allow skidding or rolling of the switchgear in any direction, and with provision for anchoring the frame to the pad
Dimensions: 196.85"-L x 59.06"-W x 110.24"-H
Weight: 10,000 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.

Ratings

ANSI and IEEE Standards for Switchgear

NEMA 3R Indoor/Outdoor Use

Complies With IEEE C37.74
Complies With IEEE C37.60
Complies With IEEE C2
Complies With IEEE C37.20.3
Complies With Utility Company's (PSEG) Primary Metering Specification Standard CS-8735
Complies With IEEE C57.12.28

Complies With IEEE C37.2

Complies With IEEE 1815
Complies With IEEE 386

Complies With IEEE C62.11

Made in the USA

Special Orders - Special Requirements

Contact us for special requirements

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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-16-380Y.220-2000A-BE-FM-MET-CU-N3R-M1 Metal Enclosed Switchgear is designed for reliable, safe and convenient power distribution at industrial work sites. Designed for floor 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-16-380Y.220-2000A-BE-FM-MET-CU-N3R-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 600V AC, the switchgear features a manual operating handle. This bottom feed disconnect carries a 50 kA at 380Y/220V AC interrupt rating. The switchgear comes with and accepts three 2000-amp switches.

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 switches 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-16-380Y.220-2000A-BE-FM-MET-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 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

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