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MPD-MCS-VCB-3P3W-22-5KV-2000A-BE-FM-REL-CU-N3R-M1

Metal Clad Switchgear, 2000 Amp, 5 kV AC, 3-Pole 3-Wire, 2 IN 2 OUT, Floor Mount, Bottom Entry, Copper Bus, NEMA 3R

Product ID: 335126



Image: MPD-MCS-VCB-3P3W-22-5KV-2000A-BE-FM-REL-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-3P3W-22-5KV-2000A-BE-FM-REL-CU-N3R-M1 MV Metal-Enclosed Switchgear

Unit Type: Medium Voltage Metal Clad Switchgear
Maximum Voltage: 4.76 kV AC
Voltage Class: 5 kV
Rated BIL Voltage: 90 KV

Power Frequency Withstand, 1 minute: 19 kV RMS

Corona Extinction Voltage: ≥3.5 kV RMS
Main Bus Current Rating: 2000A
Short-Circuit Current: 40 KA, RMS, Sym.
Phase: 3-Phase
Wire: 3-wire
Frequency: 60 Hz (60-Cycles)
System ground: Solidly Grounded
Incoming (Line / Mains) Type: Power Cables
Switching Cycles: <10000

Control Voltage: 125V DC

Status Indication: Medium voltage switchgear is ON (closed) - Medium voltage switchgear is OFF (opened) - Medium voltage switchgear tripped

Commands: Medium voltage switchgear ON - Medium voltage switchgear OFF

Control Power Transformer: Optional

Earthing switch: Optional, make-proof, manual operation

Current transformer: Included, relay class CTs (per section)

Voltage transformer: Optional

Ratings:

ANSI and IEEE Standards for Switchgear
NTRL Certified
Complies With IEEE C37.74
Complies With IEEE C37.60
Complies With Utility Company's (PSEG) Primary Metering Specification Standard CS-8735
Complies With IEEE C37.20.3
Complies With IEEE C2
Complies With IEEE C62.11
Complies With IEEE 386
Complies With IEEE C37.2
Complies With IEEE 1815
NEMA 3R Indoor/Outdoor Use

Over-current tripping: Included (via SEL-751 relays)

Under-voltage tripping: Included, (1)

Space Heaters: Included
Infrared View Ports: Included

Remote Control Panel Provisions: Included

Remote Racking Device: Optional

Cabinet 1 (Incoming Section 1):

Circuit Breaker Type: Vacuum Circuit Breaker (VCP-W40)

Circuit Breaker Frame Size: 1200A: 1200A

Circuit Breaker Current Rating: 1200A

Circuit Breaker Nominal Voltage: 5 kV AC, 3-Phase

Circuit Breaker Poles: 3-Poles

Circuit Breaker Interrupting Rating: 40kA

Circuit Breaker 3-Cycle Interrupting: Included

Circuit Breaker Shunt Trip: Included

Circuit Breaker Manual Control: Included

Circuit Breaker Electric Control: Included

Trip Unit: Included, SEL-751 Protective Relay

Spare Auxiliary Switch Contacts: Included

Protective Relays: (2) SEL-751

Current Transformers: (6) Relay Class CTs

Shorting Blocks: (2)

Lockout Relays (LOR): (2)

Breaker Control Relays: (2)

Indicating Lights: (2)

Test Switches: (2)

Primary Fuses: Not Applicable (Vacuum Circuit Breaker Design)

Surge Arrestors: Optional, station class, metal-oxide type

Power Cable Entry: Bottom

Power Cable Termination Type: Mechanical

Power Cable Termination: By Customer
Control Cable Entry: Bottom, Front
Max Wind Speed: 116 mph
Snow Load: 5 psf

Altitude: 3,300ft Above Sea Level

Humidity: up to 100%

Temperature Operating Range: -30°C to 40°C

Service Location: Indoor/Outdoor

Support Frame And Enclosure Base Material: Powder Coated Steel

Enclosure Finish: RAL7035
Enclosure Type: NEMA 3R Ventilated, Weatherproof, Non Walk-In Enclosure
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: 72" W x 95" D x 106" H
Weight: 12,000 – 16,000 lbs
Shipping Dimensions: TBD
Shipping Weight: TBD

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-MCS-VCB-3P3W-22-5KV-2000A-BE-FM-REL-CU-N3R-M1 Medium Voltage Metal Clad Switchgear provides centralized control and protection for medium voltage power distribution in demanding industrial and commercial environments. This unit consists of two incoming sections and is compatible with three-phase 5 kV AC systems. Designed for indoor and outdoor applications, the NEMA 3R rated enclosure ensures reliable operation in harsh conditions.

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

The MPD-MCS-VCB-3P3W-22-5KV-2000A-BE-FM-REL-CU-N3R-M1 medium voltage switchgear cabinet protects, controls, and isolates electrical equipment in industrial facilities. Compatible with three-phase 5 kV AC, the unit features (4) 1200A vacuum circuit breakers across dual incoming sections. The system is equipped with SEL-751 protective relays providing multi-function protection including (50) Instantaneous Overcurrent, (51) Phase Time Overcurrent, (51G) Ground Time Overcurrent, and advanced fault detection capabilities.

Enclosure Design: A ventilated design promotes natural cooling and improves performance. The enclosure is NEMA 3R rated and can be used in indoor areas.

Certification: This switchgear cabinet complies with ANSI and IEEE standards.

Applications: This switchgear is suitable for indoor and outdoor use and applications including, but not limited to, construction sites, plant maintenance, plant turnarounds, manufacturing operations, shows, exhibits, and warehouse 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