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MPD-MCS-VCB-3P4W-14-5KV-1200A-BE-FM-MET-CU-N3R-M1

MV Metal Clad Switchgear- 5 kV 3-phase, 4-wire, 1200 A, (1) Incomer, (4) 600A Outgoings - NEMA 3R - Light Grey

Product ID: 325937

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



Image: MPD-MCS-VCB-3P4W-14-5KV-1200A-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-MCS-VCB-3P4W-14-5KV-1200A-BE-FM-MET-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: 60 KV

Power Frequency Withstand, 1 minute: 19 kV RMS

Corona Extinction Voltage: 3.5 kV RMS
Main Bus Current Rating: 1200A
Short-Circuit Current: 40 KA, RMS, Sym.
Phase: 3-Phase
Wire: 4-wire
Frequency: 60 Hz (60-Cycles)
System ground: Solidly Grounded
Incoming (Line / Mains) Type: Power Cables
Switching Cycles: <10000
Control Voltage: 1-Ph. 120V AC / 60Hz, and 24V 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

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

Control Power Transformer: Included, 3-Phase, 120V AC Secondary
Earthing switch: Included, (1) make-proof, with manual operation
Current transformer: Included, (3) w/ Current Meter and (3) for controlled power factor correction 1/5 A
Voltage transformer: Included, (3) w/ Voltage Meter and (3) for controlled power factor correction L-L
Over-current tripping: Included, (1)
Under-voltage tripping: Included, (1)
Space Heaters: Included
Infrared View Ports: Included
Remote Control Panel Provisions: Included
Remote Racking Device: Included, Cord Length 25ft

Cabinet 1 (PT's):
Quantity: (3)
Rating: 5 kV -120V, 1 KVA

Cabinet 2 (Feeder 1):
Circuit Breaker Frame Size: 1200A
Circuit Breaker Current Rating: 1200A
Circuit Breaker Nominal Voltage: 5 kV AC, 3-Phase
Circuit Breaker Poles: 3-Poles
Circuit Breaker Instantaneous Short Circuit Current: 100kA
Circuit Breaker 3-Cycle Interrupting: Included
Circuit Breaker Shunt Trip: N/A
Circuit Breaker Manual Control: Included
Circuit Breaker Electric Control: N/A
Trip Unit: Included, Settable
Spare Auxiliary Switch Contacts: Included
No. Of Power Cables (Per Phase): (8)
Size Of Power Cables (Per Phase): 500 KCMIL
No. Of Conduits: (8)
Size Of Conduit: 4 inches

Cabinet 3 (Feeder 2):
Circuit Breaker Frame Size: 630A
Circuit Breaker Current Rating: 600A
Circuit Breaker Nominal Voltage: 5 kV AC, 3-Phase
Circuit Breaker Poles: 3-Poles
Circuit Breaker Instantaneous Short Circuit Current: 100kA
Circuit Breaker 3-Cycle Interrupting: Included
Circuit Breaker Shunt Trip: N/A
Circuit Breaker Manual Control: Included
Circuit Breaker Electric Control: N/A
Trip Unit: Included, Settable
Spare Auxiliary Switch Contacts: Included
No. Of Power Cables (Per Phase): (8)
Size Of Power Cables (Per Phase): 500 KCMIL
No. Of Conduits: (8)
Size Of Conduit: 4 inches

Cabinet 4 (Feeder 3):

Circuit Breaker Frame Size: 630A

Circuit Breaker Current Rating: 600A

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

Circuit Breaker Poles: 3-Poles

Circuit Breaker Instantaneous Short Circuit Current: 100kA

Circuit Breaker 3-Cycle Interrupting: Included

Circuit Breaker Shunt Trip: N/A

Circuit Breaker Manual Control: Included

Circuit Breaker Electric Control: N/A

Trip Unit: Included, Settable

Spare Auxiliary Switch Contacts: Included

No. Of Power Cables (Per Phase): (8)

Size Of Power Cables (Per Phase): 500 KCMIL

No. Of Conduits: (8)

Size Of Conduit: 4 inches

Cabinet 5 (Feeder 4):

Circuit Breaker Frame Size: 630A

Circuit Breaker Current Rating: 600A

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

Circuit Breaker Poles: 3-Poles

Circuit Breaker Instantaneous Short Circuit Current: 100kA

Circuit Breaker 3-Cycle Interrupting: Included

Circuit Breaker Shunt Trip: N/A

Circuit Breaker Manual Control: Included

Circuit Breaker Manual Control: Included

Circuit Breaker Electric Control: N/A

Trip Unit: Included, Settable

Spare Auxiliary Switch Contacts: Included

No. Of Power Cables (Per Phase): (8)

Size Of Power Cables (Per Phase): 500 KCMIL

No. Of Conduits: (8)

Size Of Conduit: 4 inches

Primary Fuses: Current-limiting bolt-in single-barrel type suitable for installation in the interrupter switch fuse holders without modification, rated 4.76kV maximum, 720E amperes, capable of interrupting 37.5kA symmetrical

Surge Arrestors: 2.55kV rms MCOV, fully shielded, dead-front, metal-oxide type, station class

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

Special Orders - Special Requirements

Contact us for special requirements

to allow skidding or rolling of the switchgear in any direction, and with provision for anchoring the frame to the pad

Dimensions: 192"-W x 48"-D x 84"-H

Weight: 14,000 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.

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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-3P4W-14-5KV-1200A-BE-FM-MET-CU-N3R-M1 Medium Voltage Metal Clad Switchgear provides centralized access to breakers in rugged work sites. This unit consists of seven cabinets and is compatible with three-phase 5 kV AC. Designed for indoor/outdoor applications, the NEMA 3R system features four branch breakers.

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

The MPD-MCS-VCB-3P4W-14-5KV-1200A-BE-FM-MET-CU-N3R-M1 Medium voltage switchgear cabinet protects, controls and isolates equipment in industrial facilities. Compatible with three-phase 5 kV AC, the unit features a 4 x 600A Outgoing Circuit Breakers. The primary switch has Multi-Function Protection Relay with the following (50) Instantaneous Overcurrent, (51) Phase Time Overcurrent & (51G) Time Delay Ground Overcurrent.

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

Export Control Classification Number (ECCN): EAR99

Links (Click on the below items to view):

- **HigResPic1**(https://www.larsonelectronics.com/images/product/HigResPic1/325937.JPG)
- **ISO 9001 Certification**(http://larsonelectronics.com/images/pdfdocs/ISO9001.PDF)
- **Business Certificate**(https://www.larsonelectronics.com/images/pdfdocs/w9.PDF)
- **Shipping Time Map**(https://www.larsonelectronics.com/images/product/ShippingTimeMap/ShippingTimeMap.pdf)