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MPD-MCS-VCB-3P3W-14-38KV-1200A-40K-DO-EH-BUS-S.R.M.-CU-N12-DF-WOSP-M1

Metal Clad Switchgear, Vacuum Circuit Breaker, 3-Ph, 3-Wire, 1 In / 4 Out / 1 Metering Section, 38kV, 1200A Feeders, Floor-Mounted, Surge Arresters + Protective Relays + Meter, E-House, NEMA 12

Product ID: 339702

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



Image: MPD-MCS-VCB-3P3W-14-38KV-1200A-40K-DO-EH-BUS-S.R.M.-CU-N12-DF-WOSP-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-14-38KV-1200A-40K-DO-EH-BUS-S.R.M.-CU-N12-DF-WOSP-M1
Metal Clad Switchgear

Unit Type: Metal Clad Switchgear, Vacuum Circuit Breaker Switchgear
Configuration: 3-Phase, 3-Wire
Assembly Type: One (1) Main Incoming, Four (4) Outgoing Feeders
Voltage Class: 38kV Maximum (34.5kV System)
Frequency: 60Hz
Main Bus Rating: 2000A
Feeder Rating: 1200A
Short Circuit Rating: 40kA Symmetrical
Momentary Rating: 108kA
BIL Rating: 150kV
Mounting Style: Draw-Out Type
Mounting Configuration: E-House

Cable Entry: Bus Connection

Protection & Monitoring: Relay Package

Bus Material: Copper

Made in the USA

Features of Every Assembly
Draw-Out Vacuum Circuit Breaker Construction
Metal Clad Dead Front Construction
Copper Main Bus Construction
Front Accessible Compartments
Factory Assembled & Tested
Suitable for E-House Installation
Final Control Philosophy Subject to Customer Approval

Ratings & Approvals
Designed in accordance with ANSI C37.20.2, IEEE C37 Series, NEC and NEMA standards
Suitable for Medium Voltage Power Distribution Applications
All grounding shall comply with applicable state and local codes and NEC requirements

Enclosure Type: E-House
Front Type: Dead Front

Vacuum Circuit Breaker Package
One (1) Draw-Out Vacuum Circuit Breaker
Four (4) Draw-Out Vacuum Circuit Breakers
Main Breaker Rating: 2000A
Feeder Breaker Rating: 1200A
Voltage Class: 38kV Maximum
Vacuum Interruption Technology
Stored Energy Operating Mechanism
Local Operating Capability
Mechanical Position Indication
Breaker Truck Position Indication
Motorized Racking Provisions

Protection & Metering Package
Main Protection Relay
Feeder Protection Relays
Protection Current Transformers
Metering Current Transformers
Potential Transformer Provision
Test Switches
Control Power Transformer
Breaker Control Switches
Breaker Status Indication
Voltage, Current & Frequency Monitoring
Communications Provisions

Bus System
2000A Copper Main Bus
Copper Ground Bus
Tin-Plated Bus Connections
Insulated Bus Supports
Medium Voltage Insulation System
Fully Isolated Bus Compartments

Construction
Heavy Gauge Steel Construction
Metal Clad Assembly
Dead Front Design
Floor Mounted Construction
Lockable Access Doors
Industrial Powder Coat Finish
Lifting Provisions Included
Indoor Switchgear Installed Within E-House

Dimensions & Shipping
Overall Dimensions: TBD
Approximate Weight: TBD
Shipping Dimensions: TBD
Shipping Weight: TBD

Shipping
Shipped as Part of Complete E-House
Final Shipping Configuration Subject to Approved Design
Crated Shipment Available Upon Request

Other Specs
Stored Energy Operating Mechanism
Draw-Out Vacuum Circuit Breakers
Mechanical & Electrical Interlocks
Breaker Position Indication

Special Orders - Special Requirements
Contact us for special requirements
Toll Free: 1-800-369-6671
Intl: 1-903-270-1187
Fax: 1-903-765-7664

Lockable Access Doors
Industrial Powder Coat Finish
Lifting Provisions Included

E-mail: sales@larsonelectronics.com

Special Features
E-House Mounted Switchgear
Draw-Out Vacuum Circuit Breakers
Dead Front Metal Clad Construction
2000A Copper Main Bus
Four (4) 1200A Feeder Breakers
Front Accessible Compartments
Relay Protection Package
Factory Assembled & Factory Tested
ANSI/IEEE Medium Voltage Construction
Suitable for Utility and Industrial Power Distribution

Customer Specific Requirements
Final vacuum circuit breaker manufacturer, protection relays, metering equipment, CT/PT ratios, communications protocol, short-circuit ratings, cable termination arrangement, E-House layout, control philosophy, testing requirements, and all owner-specific requirements shall be finalized during detailed engineering review and customer approval.

Larson Electronics manufactures a wide variety of custom medium-voltage 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 engineered. The specifics for this configuration are listed in the specification table and applicable drawings.

Made in the USA

The Larson Electronics MPD-MCS-VCB-3P3W-14-38KV-1200A-40K-DO-EH-BUS-S.R.M.-CU-N12-DF-WOSP-M1 Metal Clad Switchgear is a custom-engineered medium-voltage switchgear assembly designed to provide reliable power distribution, switching, and protection for industrial and utility applications. The assembly consists of one incoming draw-out vacuum circuit breaker and four outgoing draw-out vacuum circuit breakers housed within a metal clad dead front switchgear lineup designed for installation inside an E-House. Designed for operation on 34.5kV systems with a maximum voltage class of 38kV, the switchgear incorporates a 2000A copper main bus, 1200A feeder breakers, a 40kA symmetrical short-circuit rating, and a bus connection arrangement for centralized medium-voltage power distribution.

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

The **MPD-MCS-VCB-3P3W-14-38KV-1200A-40K-DO-EH-BUS-S.R.M.-CU-N12-DF-WOSP-M1** is designed for medium-voltage power distribution applications requiring dependable switching, feeder protection, and system reliability. The assembly combines draw-out vacuum circuit breaker technology, compartmentalized metal clad construction, microprocessor-based protection provisions, and front-accessible maintenance into a coordinated medium-voltage switchgear lineup suitable for installation within an E-House.

Vacuum Circuit Breaker Package:

The switchgear incorporates one incoming draw-out vacuum circuit breaker and four outgoing draw-out vacuum circuit breakers. The main breaker is rated 2000A continuous current, while each outgoing feeder breaker is rated 1200A continuous current. All breakers are designed for 38kV class service and incorporate vacuum interruption technology with stored-energy operating mechanisms for dependable opening and closing operations. The draw-out construction allows each breaker to be withdrawn for inspection, testing, maintenance, or replacement while minimizing disruption to the remaining lineup.

Protection & Metering:
The switchgear incorporates a relay protection package together with protection current transformers, metering current transformers, control power provisions, breaker control switches, and communications provisions to support system protection and monitoring. Final relay selection, CT/PT ratios, communications architecture, and control philosophy shall be established during detailed engineering review and customer approval.

Bus System:
The assembly utilizes a 2000A copper main bus together with a continuous copper ground bus and insulated bus supports to distribute power throughout the switchgear lineup. The bus system is integrated within the metal clad construction and is designed to support the specified continuous current rating while providing reliable electrical performance for medium-voltage distribution applications.

Assembly Construction:
The switchgear is furnished as a complete metal clad assembly incorporating one incoming breaker, four outgoing feeder breakers, protection provisions, front-accessible compartments, and bus connection arrangements for installation within an E-House. The integrated design provides centralized switching, protection, monitoring, and power distribution for medium-voltage electrical systems.

Construction:
The switchgear is fabricated from heavy-gauge steel utilizing metal clad dead front construction suitable for installation inside an E-House. Construction features include front-accessible compartments, lockable access doors, lifting provisions, manufacturer's standard industrial finish, and compartmentalized construction designed to maximize personnel safety and equipment reliability.

Cable Connections:
The switchgear is configured for bus connection to integrate with the E-House power distribution system. Final bus configuration, conductor sizes, termination methods, and internal routing shall be verified during detailed engineering review and customer approval.

Dimensions & Shipping:
Overall equipment dimensions, approximate weight, shipping dimensions, and shipping weight shall be determined during final engineering. The switchgear is typically shipped as part of the complete E-House assembly or in sections suitable for field installation. Final shipping configuration shall be based on the approved general arrangement drawings and manufacturing design.

Other Features:

Additional equipment features include stored-energy operating mechanisms, breaker truck position indication, mechanical and electrical interlocks, lockable access doors, lifting provisions, and manufacturer's standard industrial finish to support operation, maintenance, and equipment servicing.

Special Features:
This switchgear incorporates draw-out vacuum circuit breakers, relay protection provisions, copper main bus construction, front-accessible compartments, and metal clad dead front construction. The assembly is intended for industrial and utility medium-voltage power distribution applications requiring reliable switching, protection, and operational flexibility.

Ratings & Approvals:
The switchgear is designed in accordance with applicable ANSI, IEEE, NEC, and NEMA standards for medium-voltage metal clad switchgear. The assembly is suitable for indoor installation, with grounding provisions intended to comply with applicable NEC requirements and local electrical codes. The equipment is intended for installation at elevations up to approximately 6,035 feet, with project-specific altitude derating applied in accordance with the manufacturer's recommendations and applicable industry standards. Final certification shall be in accordance with the selected manufacturer's design.

Customer Specific Requirements:
Final vacuum circuit breaker manufacturer, protection relays, CT/PT ratios, communications protocol, bus configuration, cable terminations, control philosophy, E-House layout, testing requirements, and all owner-specific requirements shall be finalized during detailed engineering review and customer approval.

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 applicable drawings.

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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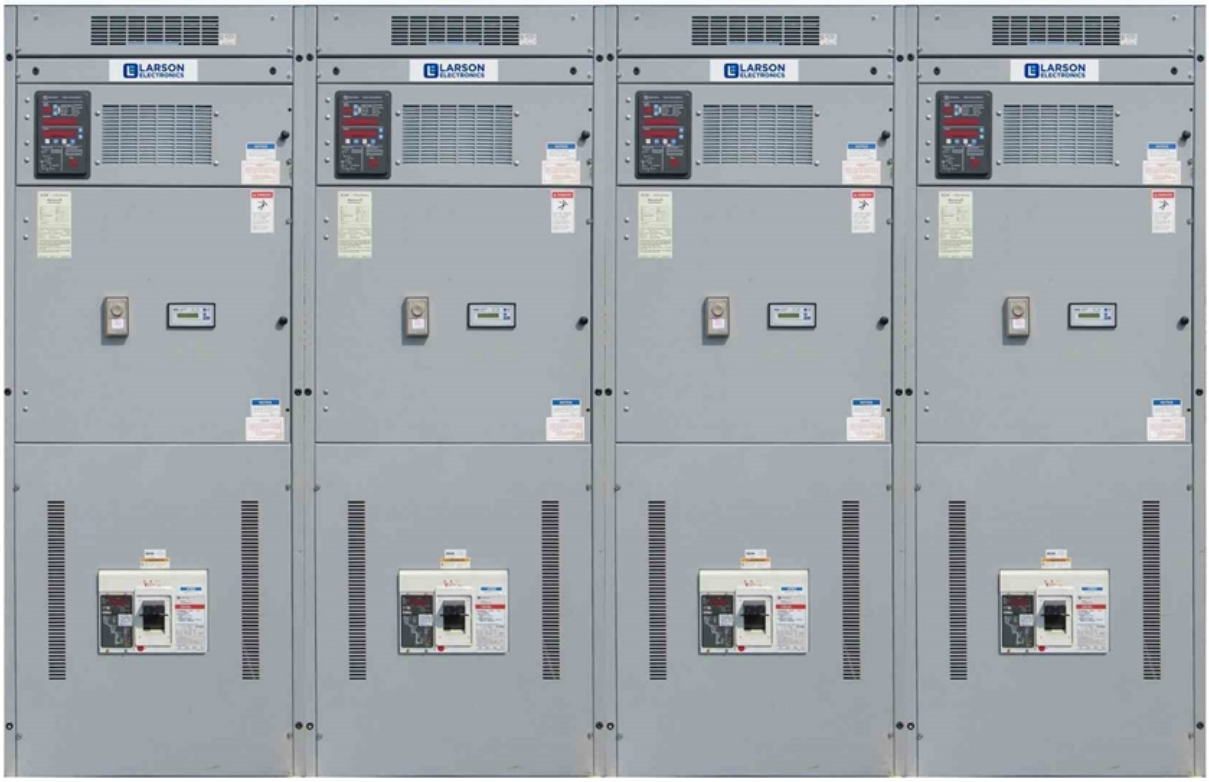


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- **Video1**(https://www.youtube.com/watch?v=b5iyTFrkRes)
- **ISO 9001 Certification**(http://larsonelectronics.com/images/pdfdocs/ISO9001.PDF)
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