Larson Electronics LLC
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MPD-MES-VCB-3P3W-X7.1S-15KV-1200A-25K-FX-FM-N3R-DF

15kV Class Metal-Enclosed Switchgear, 1200A Bus, 7 × 200A Fixed-Mounted Vacuum Circuit Breaker Feeder Sections with SEL-751 Protection, 1 × 600A Future Connection Provision, NEMA 3R Outdoor

Product ID: 344081

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



Image: MPD-MES-VCB-3P3W-X7.1S-15KV-1200A-25K-FX-FM-N3R-DF

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-X7.1S-15KV-1200A-25K-FX-FM-N3R-DF Metal-Enclosed Switchgear

Unit Type: Metal-Enclosed Switchgear, Fixed-Mounted Vacuum Circuit Breaker

Assembly Type: Incoming Cable Section / 7 Outgoing Feeders / 1 Future Connection Provision
Phase/Wiring: 3-Phase, 3-Wire, 60Hz
System Voltage: 12.47kV Nominal, 15kV Insulation Class
BIL: 95kV

Main Bus Continuous Current: 1200A

Feeder Breaker Rating: 200A

Short-Circuit Interrupting Rating: 25kA Symmetrical

Momentary (Peak) Rating: 65kA
Mounting: Fixed Type, Floor-Mounted
Enclosure Type: NEMA 3R, Outdoor
Front Type: Dead Front

Made in the USA

Features of Every Assembly

Fixed-Mounted Vacuum Circuit Breaker Construction
Metal-Enclosed Dead Front Construction
Separately Constructed, Bolted-Together Rigid Structure
Grounded Steel Barriers Between Bus, Breaker, and Cable Compartments
Front-Accessible Compartments
Protection/Control Devices Mounted on Front-Hinged Doors
Suitable for Outdoor Installation, NEMA 3R

Ratings & Approvals

Designed in accordance with IEEE C37.20.3
Circuit breakers comply with IEEE C37.04, C37.011, C37.11

Feeder Breaker Sections (Qty 7, Identical)

200A, 25kA Fixed-Mounted Vacuum Circuit Breaker per Cell

Electrically Operated — Stored-Energy Mechanism, Open/Close via Protection Relay/Control Circuit
Silver-Plated Stationary Contacts in Cycloaliphatic Epoxy Support Bushings
Viewing Window, Breaker Position Indication
Maintenance Access Requires De-Energizing the Section (No Live Racking/Withdrawal)
CTs: 200/5, Relay-Accuracy, Front-Accessible
Dedicated SEL-751 Protective Relay per Cell

Future Connection Provision
Quantity: One (1), 600A Bus-Rated Spare Compartment/Bus Stub
No Breaker, Relay, CTs, or Control Wiring Installed — Reserved Capacity Only
Future 200A Additions Do Not Consume This Provision
Blank, Removable Compartment Cover

Protection & Relay Configuration
SEL-751 Feeder Protection Relay — Quantity Seven (7), One per 200A Breaker Position
ANSI Device Functions: 50/51 (Phase Overcurrent), 50N/51N (Ground Overcurrent), 46 (Negative Sequence Overcurrent), 79 (Reclosing), 25 (Sync-Check) — as enabled per coordination study
Includes: Relay, Mounting, Wiring, Test Switches, and CTs per Position

Control Power
24VDC (Base Case, SEL Standard)
125VAC (Priced Alternate)

Main Bus
Silver-Plated, Bolted Copper, Full-Length, 1200A Continuous
Epoxy-Insulated, Fluidized Bed Process
Flame-Retardant Cycloaliphatic Epoxy Standoff Insulators
Continuous Copper Ground Bus, Full Lineup Length

Cable Compartment
Cable Lug Type and Entry Orientation: TBD, Pending Final Engineering per Project Drawings

Dimensions & Shipping
Overall Dimensions: 264"W × 78"D × 84"H (estimate)
Approximate Weight: 6,500 lbs (estimate)
Shipping Dimensions: TBD
Shipping Weight: TBD

Special Features
Fixed-Mount Construction, SEL-751 Protection per Feeder, Reserved 600A Future Connection Provision

Customer Compliance
This configuration is offered to satisfy the customer's medium-voltage metal-enclosed switchgear requirement. Final arrangements, sizes, ratings, settings, configuration, and installation details will be finalized during detailed engineering review and customer approval prior to release for manufacture.

UL Listing or ANSI equivalent type-test certification provided at order
All grounding shall comply with NEC Section 250 and applicable state/local codes

Shipping
Shipped on pallet or skid
Crated shipment available upon request
Final shipping configuration subject to approved design

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 applicable drawings.

Made in the USA

The Larson Electronics MPD-MES-VCB-3P3W-X7.1S-15KV-1200A-25K-FX-FM-N3R-DF Metal-Enclosed Switchgear is a custom-engineered medium-voltage switchgear assembly designed to provide reliable power distribution, switching, and protection for critical microgrid distribution systems. The assembly consists of an incoming cable section, seven outgoing fixed-mounted vacuum circuit breakers, and one reserved 600A future connection provision, housed within a floor-mounted, NEMA 3R, metal-enclosed dead-front enclosure suitable for outdoor installation. Designed for operation on 12.47kV Wye systems at 15kV insulation class, the switchgear incorporates a 1200A silver-plated bolted copper main bus, 200A feeder breakers, a 25,000A symmetrical short-circuit rating, and a 65,000A momentary rating for distribution-level power switching and protection.

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

The assembly is furnished as separately constructed cubicles bolted together to form a rigid, freestanding, integrated structure, with grounded steel barriers separating all bus, breaker, and cable compartments. Protection and control devices are mounted on front-hinged doors of each breaker compartment.

Vacuum Circuit Breaker Package:
Each of the seven feeder breakers is rated 200A continuous, 25kA symmetrical, fixed-mounted within its compartment, with silver-plated stationary primary disconnecting contacts mounted in cycloaliphatic epoxy support bushings. Each compartment includes a viewing window for breaker position confirmation without opening the door. All breakers incorporate vacuum interruption technology with a stored-energy operating mechanism, electrically operated for both closing and tripping via the protection relay and control circuit, with contact closing speed independent of control voltage and operator input. Because the breakers are fixed-mounted, maintenance access requires de-energizing the section rather than racking the breaker to a test or disconnected position while the bus remains live.

Future Connection Provision:
One 600A bus-rated compartment is reserved for future expansion, provisioned with a blank, removable cover. No breaker, relay, current transformers, or control wiring are installed in this position. This reserved capacity is structurally independent of the seven feeder positions, so future 200A additions do not consume it.

Protection:
Protection is provided by SEL-751 protective relays on each feeder breaker, incorporating phase and ground overcurrent (50/51, 50N/51N), negative sequence overcurrent (46), reclosing (79), and sync-check (25) functions as enabled per the project's protection coordination study. Each relay position includes dedicated mounting, control wiring, test

switches, and current transformers.

Control Power:
The standard control power arrangement is 24VDC. A 125VAC control power arrangement is available as a priced alternate.

Bus System:
The assembly utilizes a silver-plated, bolted copper main bus rated 1200A continuous, insulated full length with epoxy coating applied by the fluidized bed process, running the full length of the lineup. The bus is supported by flame-retardant, track-resistant cycloaliphatic epoxy standoff insulators. A continuous copper ground bus extends the full lineup length.

Cable Compartment:
Cable lug type and cable entry orientation are to be finalized during detailed engineering review per the approved project drawings.

Construction & Enclosure:
The enclosure utilizes metal-enclosed dead-front construction suitable for outdoor NEMA 3R installation, with front-accessible compartments, lockable access doors, and lifting provisions.

Ratings & Approvals:
Designed to comply with IEEE C37.20.3 Metal-Enclosed Switchgear standard. Circuit breakers comply with IEEE C37.04, C37.011, and C37.11. All grounding shall comply with NEC Section 250 and applicable state and local codes.

Customer Compliance:
This equipment is offered to satisfy the customer's medium-voltage metal-enclosed switchgear requirement. The final arrangements, sizes, ratings, settings, configuration, and installation details of this equipment will be established in accordance with detailed engineering review, applicable project documentation, and customer approval prior to manufacture.

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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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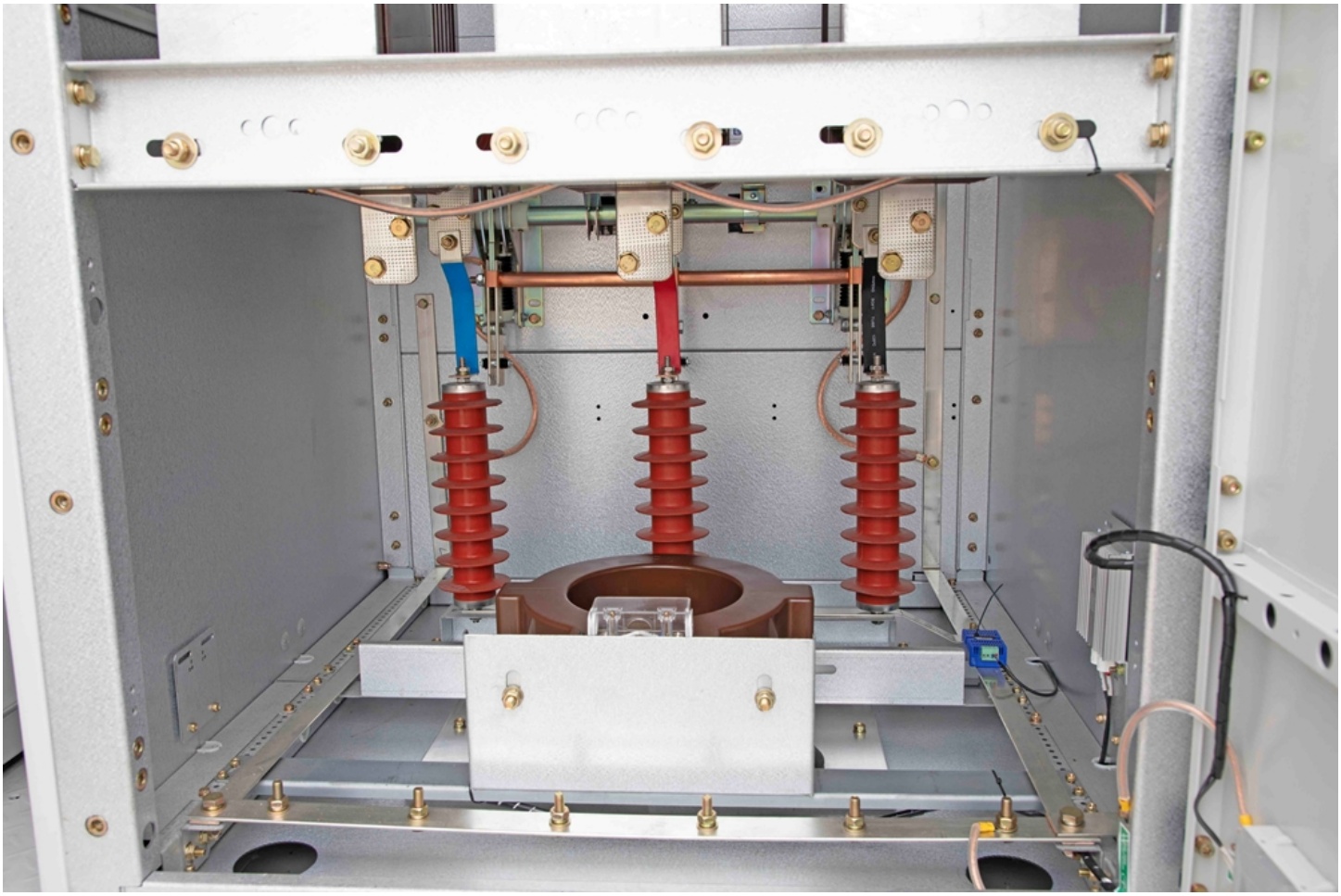


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Export Control Classification Number (ECCN): EAR99

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