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MPD-MES-VCB-3P3W-11-15KV-600A-BE-FM-REL-CU-N3R-M2

Metal Enclosed Vacuum Circuit Breaker Switchgear, 600 Amp, 15 KV AC, 3-Pole 3-Wire, 1 IN 1 OUT, Floor Mount, Bottom Entry, Copper Bus, NEMA 3R

Product ID: 335337



Image: MPD-MES-VCB-3P3W-11-15KV-600A-BE-FM-REL-CU-N3R-M2

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-11-15KV-1200A-BE-FM-MET-CU-N3R-M2 Metal Enclosed Switchgear

Unit Type: Metal Enclosed Switchgear, Vacuum Circuit Breaker Switchgear
Line-In Connections: Live Front, Terminal Lugs, Accepts 750MCM-1/0
Line-In Orientation: Bottom Feed
Voltage Rating: 15 KV AC Class, 12.47kV/7.2kV, 3 Phase
BIL Rating: 95 KV
Frequency: 60 Hz
Current: Alternate 3 Phase Current
Protection Method: N/A
Protection Type: N/A
Protection Fuses: N/A
Bus Rating: 600 A
Continuous Current Rating: 600 A
Interrupting Fault Current Rating: 25 kA
Short Circuit Current Rating: 25 kA
Bus Type: Tinned Copper
Insulators: Cycloaliphatic epoxy

Ratings

NRTL Listed Service Equipment
NRTL Listed to UL 891
NEMA 3R Rated for Indoor/Outdoor Use

Made in the USA

Bay #1 (Load & Source Ways)

(1) 15kV, 600A Vacuum Circuit Breaker, Draw-Out Type, Stored Energy Mechanism
(1) Two-Position Visible Load Break Disconnect Switch, 600A, Manual Operator
(3) 15kV, 600A Bushings for Source Side Cable Terminations
(3) 15kV, 600A Bushings for Load Side Cable Connections
(3) Protection CTs, 1200:5 MR C200 Current Transformers
(1) SEL-751 Microprocessor Protection Relay

(1) Control Power Transformer (CPT), 15kVA, 12470-120 VAC
Ground Pads: One 2-Hole Ground Pad in Source and Load Compartments with 600A Ground Bus
Control Cabinet: Integrated Control Compartment
Space Heaters: Optional with Thermostat
Metering Current & Potential Transformer (CT/PT): Protection CTs Included
Line-Out Connection: Live Front, Terminal Lugs, Accepts 750MCM-1/0
Line-Out Orientation: Bottom Feed
Lifting Brackets: Included, Fitted on the Top of the Enclosure
Form Factor: Rectangular Pad-Mounted Metal Enclosure with Lockable Doors
Panel Configuration: 1 Incoming Feeder, 1 Outgoing Feeder
Accessories: Racking Tool and Draw-Out Rails, CPT Primary Fuses, 101 Switch for Breaker Open/Close, Relay Test Switches (ABB FT-1), 86 Lockout Relay, Electroswitch Series 24 with Lighted Nameplate
Mounting: Pad Mount/Floor Mount
Enclosure Material: Heavy Gauge Steel
Enclosure Finish: ANSI Standard Outdoor Finish
Enclosure Type: NEMA 3R
Dimensions: 91.93"H x 75.59"W x 53.94"D
Weight: 4620 lbs
Shipping Dimensions: -
Shipping Weight: -
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.

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
E-mail: sales@larsonelectronics.com

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-3P3W-11-15KV-600A-BE-FM-REL-CU-N3R-M2 Metal Enclosed Switchgear is designed for reliable, safe, and convenient medium voltage power distribution at industrial work sites. This switchgear features a 15kV class, 600 amp vacuum circuit breaker with microprocessor-based protection relay and an integral visible load break disconnect switch. Designed for floor or pad mounted installations, this bottom feed switchgear is protected by a NEMA 3R rated steel enclosure with a ventilated design for indoor and outdoor applications.

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

The **MPD-MES-VCB-3P3W-11-15KV-600A-BE-FM-REL-CU-N3R-M2** medium voltage switchgear provides a safe and reliable way for operators in industrial settings to control and distribute electrical power. Compatible with 15 kV AC systems (12.47 kV nominal), this switchgear utilizes a draw-out vacuum circuit breaker with stored energy trip/close mechanism and SEL-751 microprocessor protection relay for overcurrent and ground fault protection. A two-position manual load break disconnect switch provides visible isolation of the circuit for maintenance and safety.

Operation: The switchgear features a front control compartment with protected breaker controls and rear cable terminations accessible through lockable doors. Operators can open or close the vacuum circuit breaker using the control switch located on the front panel. The draw-out breaker design allows for safe maintenance and servicing.

Enclosure Design: The switchgear is protected by a heavy-duty steel enclosure with ANSI green finish. A ventilated design promotes natural cooling and improved performance. The

enclosure carries a NEMA 3R rating, providing protection against rain, moisture, and debris, making the equipment suitable for indoor or outdoor installations.

Certification: This switchgear is NRTL listed to UL 891 dead front switchboards and NRTL listed for service equipment.

Mount: Operators can mount the switchgear on pads or floors for permanent installations in substations, industrial facilities, or utility distribution systems.

Customization: The MPD-MES-VCB-3P3W-11-15KV-600A-BE-FM-REL-CU-N3R-M2 can be customized to meet specific operating and power requirements. Example of customizations include:

• Making the disconnect switches 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.

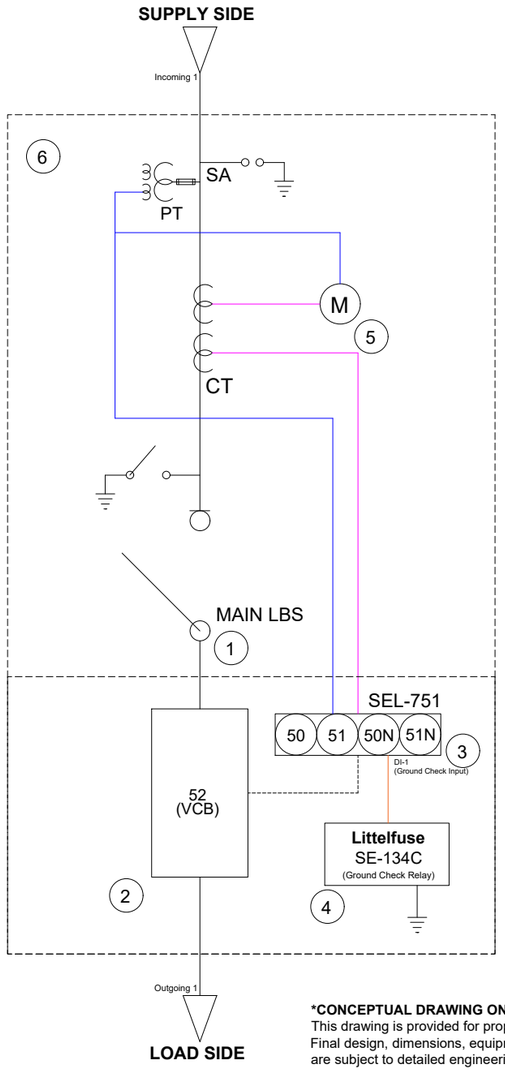
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4		2026.07.03

MPD-MES-VCB-3P3W-11-15KV-600A-BE-FM-REL-CU-N3R-M3

LARSON ELECTRONICS®

SKU: MPD-MES-VCB-3P3W-11-15KV-600A-BE-FM-REL-CU-N3R-M3

Unit Details: Metal Enclosed Switchgear with Visible Load Break Disconnect and Draw-Out Vacuum Circuit Breaker, 3-Φ, 3-Wire, 1 In / 1 Out, 15kV Class (12.47kV Nominal), 600A Continuous, 25kA Interrupting, Bottom Entry / Bottom Exit, Surge Arresters + SEL-751 Relay + SE-134C Ground Check Relay + Power Meter, Copper Bus, NEMA 3R, Live Front



CONCEPTUAL DRAWING ONLY
This drawing is provided for proposal and reference purposes only.
Final design, dimensions, equipment arrangement, ratings, and component selection are subject to detailed engineering review, customer approval, and manufacturing standards.

SINGLE LINE DIAGRAM
MV Switchgear by Larson Electronics

① **VISIBLE LOAD BREAK DISCONNECT:**
Main Incoming LBS
15kV Class, 12.47kV Nominal
600A Continuous
Integral Earthing Switch
15kV Class Surge Arresters
- Visible Open Isolation
- Manual Operation
- Voltage Presence Indicator (L1, L2, L3)
- Capacitive Test Points
- Open / Closed / Grounded Position Indication
- Live Front Terminal Lugs

② **VACUUM CIRCUIT BREAKER:**
52
15kV Class
600A Continuous
25kA Interrupting Rating
- Draw-Out Type
- Stored Energy Mechanism
- Electrically Operated
- Open / Close / Trip Indication

③ **PROTECTION RELAY:**
SEL-751
Protection CT: 3 x 1200:5A, C200
Functions: 50/51, 50N/51N
- SELogic Ground Check Interface
- Trip Input from Littelfuse Relay
- Test Switches Included

④ **GROUND LOOP CHECK RELAY:**
Littelfuse SE-134C
Ground Loop & Ground Check Monitoring
Pilot Wire Continuity Monitoring
Ground Conductor Integrity Monitoring
- Hardwired Interface to SEL-751
- Initiates Main VCB Trip upon Ground Check Failure

⑤ **POWER METER:**
CT: 3 x 1200:5A, Cl.0.3
PT: 3 x 15kV:120V, Cl.0.3 (Shared)
- Displays: V, I, PF, kW, kWh, VA, VAR

⑥ **ENCLOSURE & BUS:**
Single Assembly
NEMA 3R
600A Copper Bus
95kV BIL
Floor Mounted
Bottom Entry / Bottom Exit

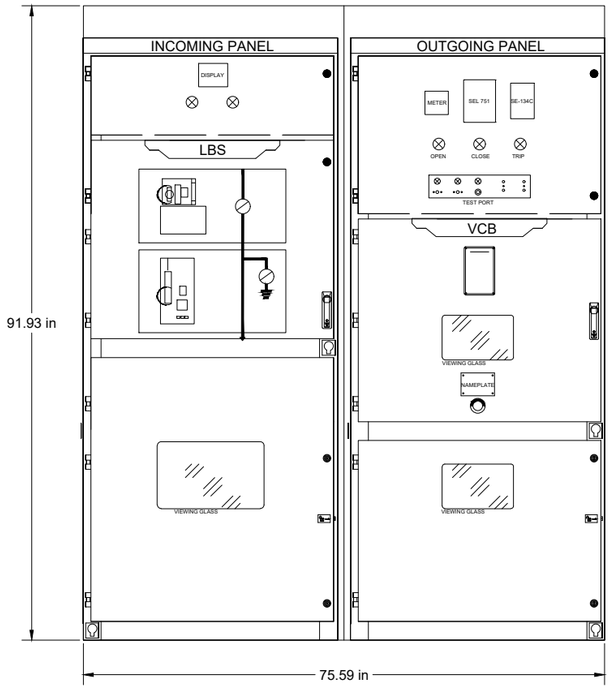
Front Accessible: LBS Controls, VCB, Relay, Meter
Rear Accessible: Live Front Cable Terminations, CT, PT, Surge Arresters

LARSON ELECTRONICS	TITLE: MPD-MES-VCB-3P3W-11-15KV -600A-BE-FM-REL-CU-N3R-M3		
	DRAWN BY: JMD	DATE: 06-15-2026	REV: C
9419 E US HWY 175, KEMP, TX 75143	CHECKED BY: R.DOMETITA	SHEET #: 1 OF 2	DRAWING #: 101

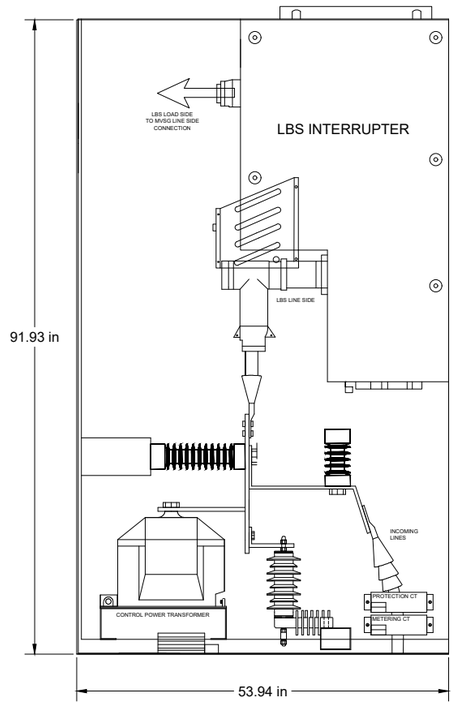
NOTE : THIS DRAWING MAY NOT REPRESENT THE FINAL DESIGN. ANY ORDER SHALL REFERENCE THIS DRAWING AND CLEARLY NOTE ALL REQUESTED CHANGES.

STANDARD PANEL VIEW
MV Switchgear by Larson Electronics

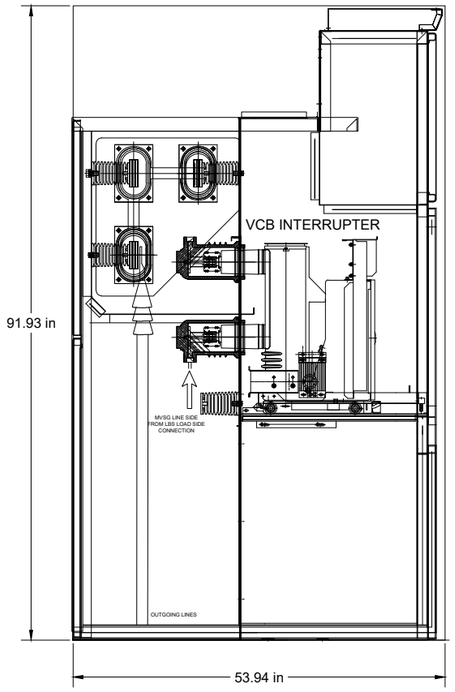
FRONT VIEW



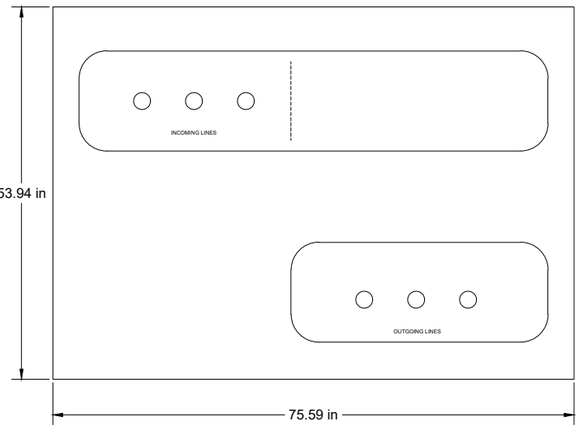
SIDE VIEW (L - LBS)



SIDE VIEW (R - VCB)



BOTTOM VIEW



Specification	Value
Voltage Rating	15 kV (12.47 kV / 7.2 kV)
Phase	3 Phase, 60 Hz
Continuous Current	600 A
Interrupting Rating	25 kA
Circuit Breaker Type	Draw-Out Vacuum Circuit Breaker, 600A
Disconnect Switch	600A Visible Load Break Disconnect Switch (Manual Operation)
Current Transformers	Protection CTs: 3 x 1200:5A, C200
Control Power Transformer	Control Power Transformer: 15kVA, 12470V / 120V
Enclosure Type	NEMA 3R (Indoor/Outdoor) Steel Enclosure
Bus Rating	600 A Copper Bus
Dimensions	91.93 in H x 75.59 in W x 53.94 in D
Front Type	Live Front
Switch Configuration	Visible Load Break Disconnect + Draw-Out Vacuum Circuit Breaker

NOTES:

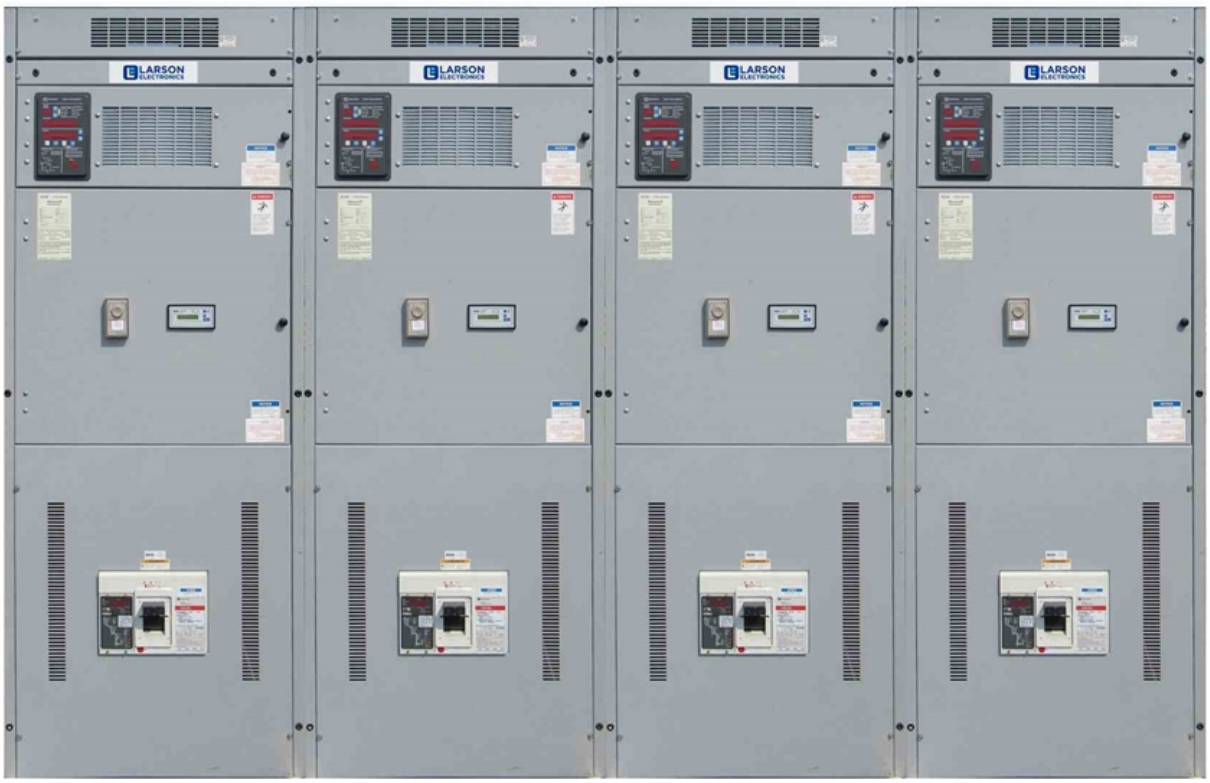
1. Source and load cable terminations shall be Live Front terminal lug type.
2. Visible load break disconnect provides visible isolation and load switching capability for maintenance operations.
3. Single assembly configuration with integrated source and load compartments.
4. Refer to the corresponding specification sheet for complete equipment details.
5. Final arrangement subject to engineering review and customer approval.

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Frequently Asked Questions (FAQ)

There are no Faqs