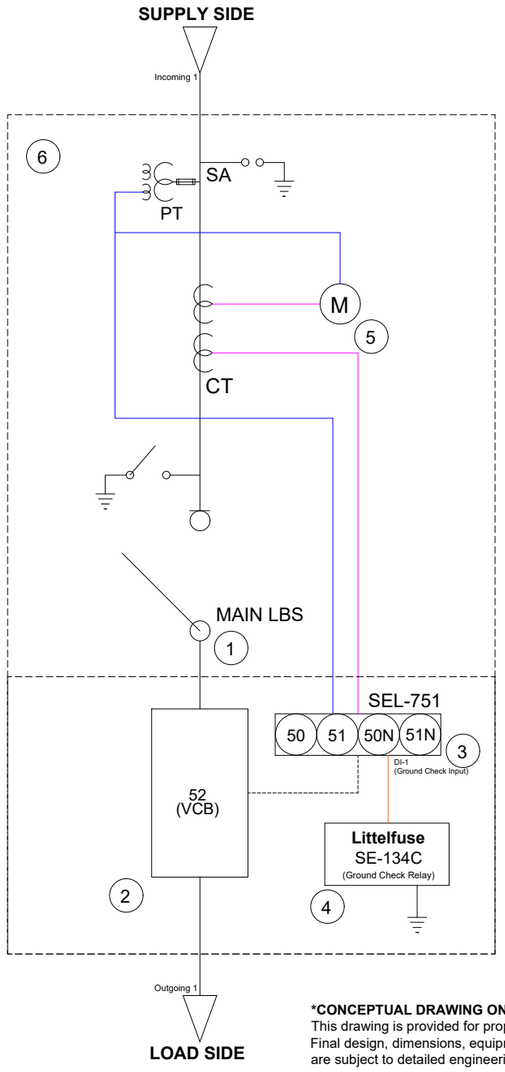
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4		2026.07.03

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

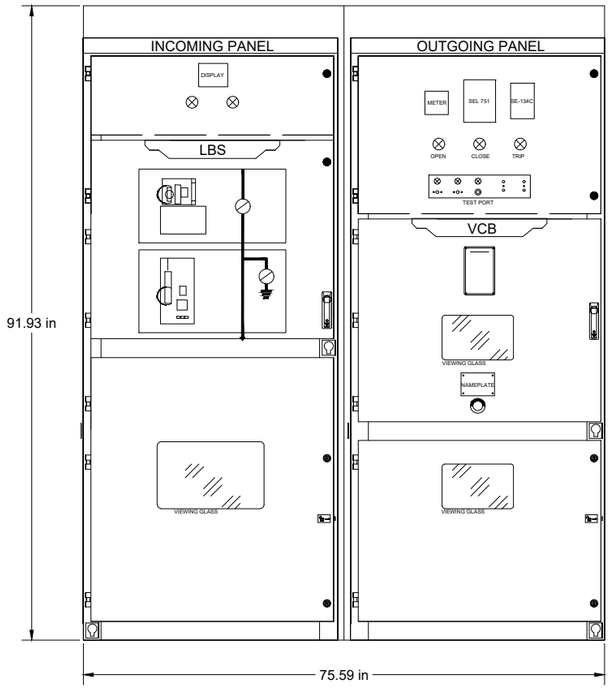
Front Accessible: LBS Controls, VCB, Relay, Meter
Rear Accessible: Live Front Cable Terminations, CT, PT, Surge Arresters

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

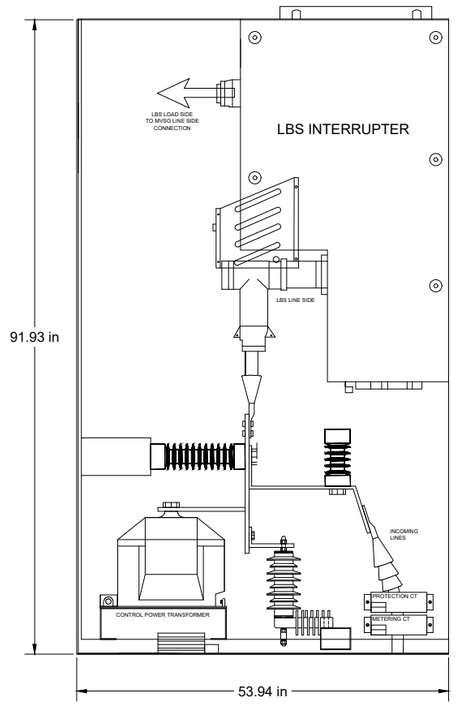
NOTE : THIS DRAWING MAY NOT REPRESENT THE FINAL DESIGN. ANY ORDER SHALL REFERENCE THIS DRAWING AND CLEARLY NOTE ALL REQUESTED CHANGES.

STANDARD PANEL VIEW
MV Switchgear by Larson Electronics

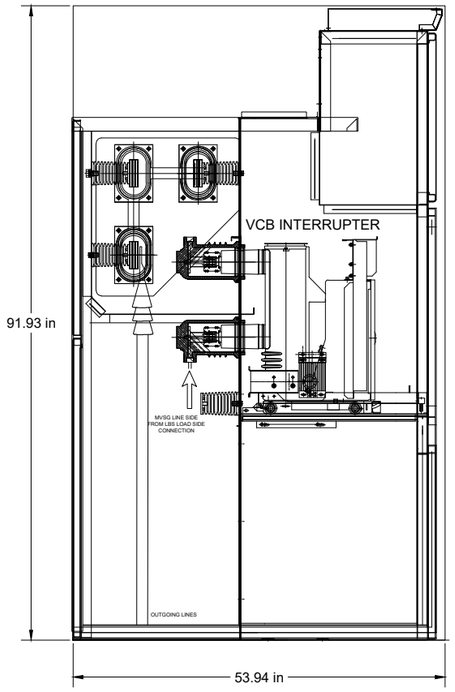
FRONT VIEW



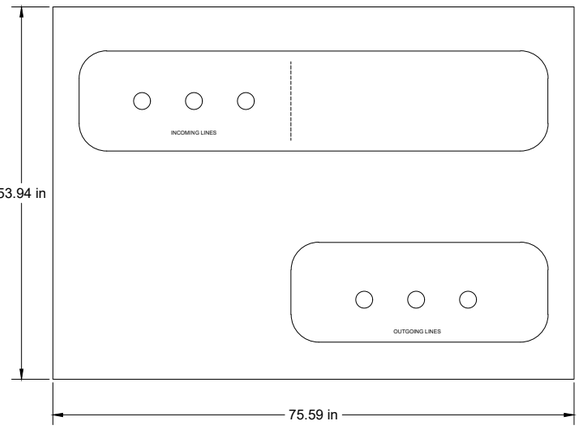
SIDE VIEW (L - LBS)



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.

LARSON ELECTRONICS
9419 E US HWY 175,
KEMP, TX 75143

TITLE: MPD-MES-VCB-3P3W-11-15KV -600A-BE-FM-REL-CU-N3R-M3		
DRAWN BY: JMD	DATE: 06-15-2026	REV: C
CHECKED BY: R.DOMETITA	SHEET #: 2 OF 2	DRAWING #: 101