REV	DESCRIPTION	DATE

MES-VCB-3P4W-21-15KV-1200A-40K-DO-FM-BEBE-S.R.M-N3R-M1

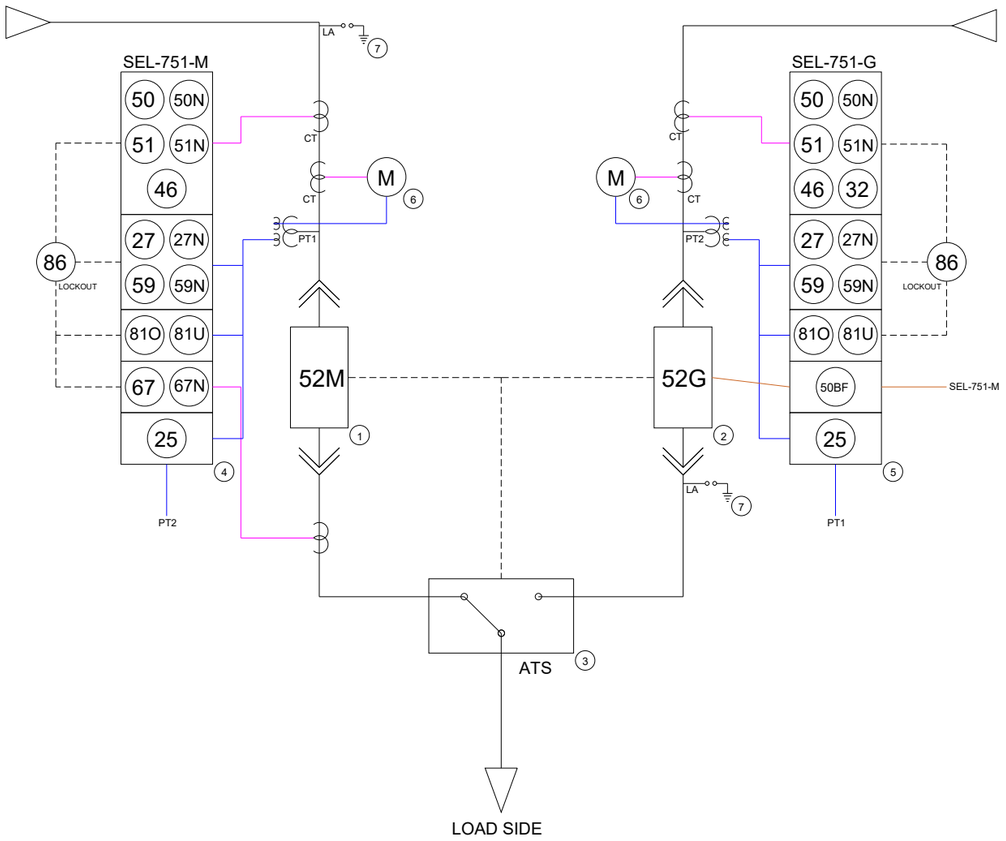
LARSON ELECTRONICS®

SKU: MPD-MES-VCB-3P4W-21-15KV-1200A-40K-DO-FM-BEBE-S.R.M.-N3R-M1

Unit Details: Metal Enclosed Switchgear, Vacuum Circuit Breaker Switchgear, 3 Pole/3 Phase, 4 wire, 2 In/1 Out, 15kV, 1200A, 40 kA, Draw-Out Type, Floor-Mounted, Bottom Entry/Bottom Exit, SurgeArr + Relay + Meter + CT/PT, Automatic Transfer Controls, Copper, NEMA 3R, Dead Front, Model 1

UTILITY SUPPLY (CNP):
12.45-13.8kV, 3P4W

GENERATOR SUPPLY



SINGLE LINE DIAGRAM
MV Switchgear by Larson Electronics

① **Vacuum Circuit Breaker (Main):**
15kVAC, 3-Ph, 60-Hz
1200A (Cu), 40kA
BIL = 95kV
Ctrl Voltage: 120V
NEMA 3R, Rack-In/-Out
Local/Remote
Pilot Light Indicators (O/C/T)

② **Vacuum Circuit Breaker (Gen-Set):**
15kVAC, 3-Ph, 60-Hz
1200A (Cu), 40kA
BIL = 95kV
Ctrl Voltage: 120V
NEMA 3R, Rack-In/-Out
Local/Remote
Pilot Light Indicators (O/C/T)

③ **Automatic Transfer Switch (ATS):**
1200A, Close Transition (≤100ms)
Utility & Gen-Set Interlock

④ **Protection Relay (Main):**
SEL 751
CT - Protection Core: 1200:5 A, C200 (Ph), 200:5 A, C200 (N)
CT - Metering Core: 1200:5 A, Accuracy Class 0.3
PT1 – Protection Core: 15kV/120-240V, Class 3P, 3V0 Output for 27N/59N/67N
PT1 - Metering Core: 15kV/120/240 V, Accuracy Class 0.3
Test Switches & PT Fuses Included
Functions:
50/51, 50N/51N, 46, 67/67N
27/59, 27N/59N, 81O, 81U, 25
Lockout (86) & Breaker Failure (50BF)
SCADA-Ready, IEC 61850

⑤ **Protection Relay (Gen-Set):**
SEL 751
CT - Protection Core: 1200:5 A, C200 (Ph), 200:5 A, C200 (N)
CT - Metering Core: 1200:5 A, Accuracy Class 0.3
PT2 – Protection Core: 15kV/120-240V, Class 3P, 3V0 Output for 27N/59N/67N
PT2 - Metering Core: 15kV/120/240 V, Accuracy Class 0.3
Test Switches & PT Fuses Included
Functions:
50/51, 50N/51N, 46, 32, 67/67N
27/59, 27N/59N, 81O, 81U, 25
Lockout (86) & Breaker Failure (50BF)
SCADA-Ready, IEC 61850

⑥ **Power Meter:**
SEL 735 (P, V, I, f, pf, kWh, VA, VAR)
CT - Metering Core: 1200:5 A, Accuracy Class 0.3
PT1 - Metering Core: 15kV/120/240 V, Accuracy Class 0.3
SCADA-Ready

⑦ **Surge Arrestor:**
27kV, 22kV (MCOV)
Per Feeder or Whole Bus

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

TITLE			
MPD-MES-VCB-3P4W-21-15KV-1200A-40K-DO-FM-BEBE-S.R.M.-N3R-M1			
DRAWN BY	DATE	REV	
J.DORMAL	06-05-2026	A	
CHECKED BY	SHEET #	DRAWING #	
	1 OF 1	101	