

MV- Switchgear Solutions

Engineered Medium Voltage Switchgear Systems – up to 38 kV

Indoor & Outdoor Applications – NEMA 1 / NEMA 3R

At SRi, we specialize in custom-configured Metal Clad Switchgear up to 38 kV, fully engineered for safety in industrial, utility, and infrastructure sectors. Our switchgear combines modularity, full compliance with ANSI/IEEE/NEMA standards, and reliable mechanical and electrical performance.





Nema 1, 87" tall x 85" deep 2 high 5KV

General Capabilities

- Rated Voltage: Up to 38 kV
- Current Rating: Up to 4000 A
- Short-Circuit Rating: Up to 63 kA Sym.
- up to 170KA (2s peak withstand rating)
- Enclosures: NEMA 1 (indoor) or NEMA 3R (outdoor), rain-tight, vented with filter accessible without entering high voltage compartment.
- Epoxy coated Bus System with C110 copper bus, silver or tin-plated, sized for rated current with optional expansion joints



Nema 1A Relay Panel

Control & Protection Architecture

- Separate relay panels and control panels are located a safe distance away
- Relay Panel isolation ensures operational safety and full relay maintenance access even during servicing
- Relay Panels: Real-time protection, metering, event capture (IEEE C37.90) SCADA interface

Circuit Breaker Technology

All breakers are Draw-out Vacuum Circuit Breakers, with heavy-duty mechanical racking systems, allowing safe insertion/removal under de-energized conditions.

- Draw-out Mechanism:
 - Four positions: Connected, Test, Disconnected, removed
 - Safety shutters isolate primary disconnects
 - Secondary control contacts are self-coupling in connect positions
- Racking System Options:
 - Manual lever-operated
 - Worm-gear mechanical
 - Motorized remote racking, built-in (optional)



Nema 3R 15KV switchgear



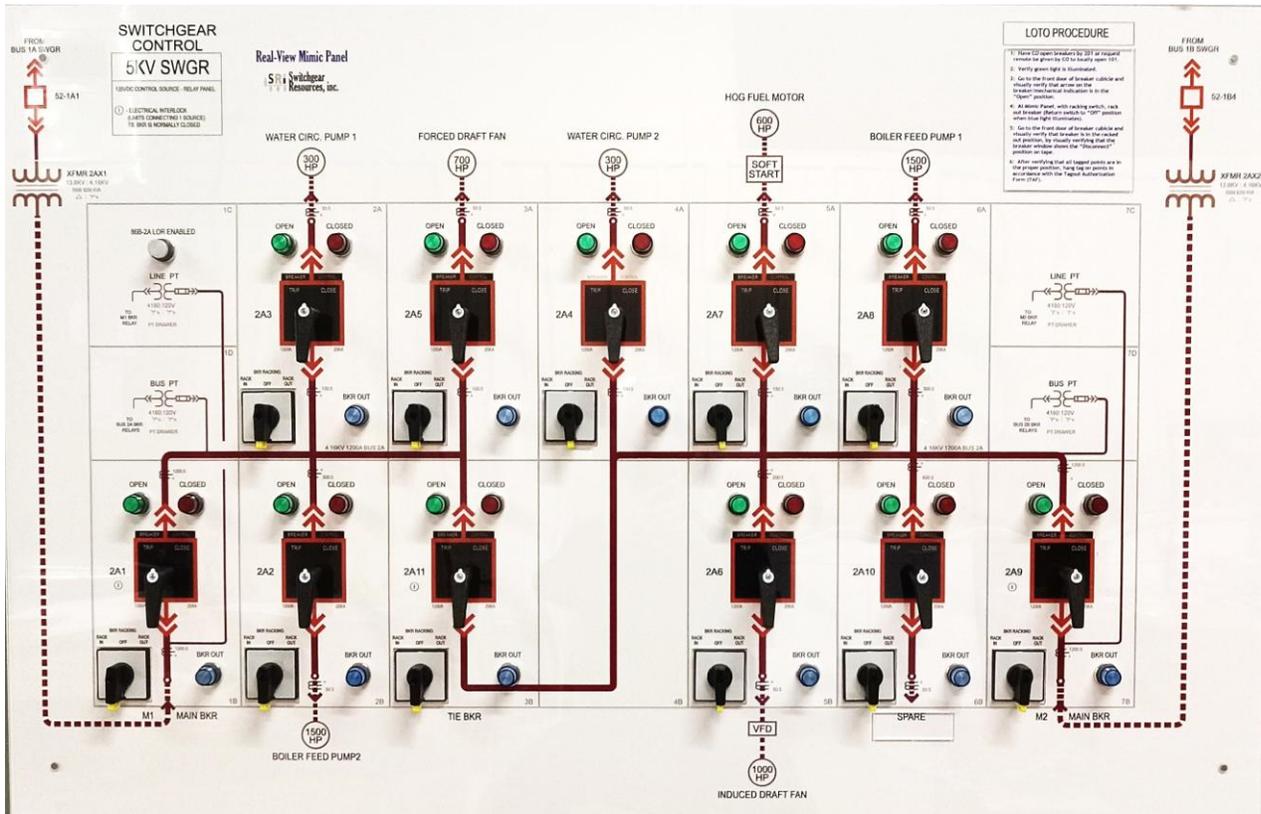
Nema 1 5KV switchgear

Voltage & Insulation Ratings Table

Max Rated Voltage (kV)	Power Frequency Withstand (kV, 1 min)	Impulse Withstand BIL (kV)
4.76	19	60
15	36	95
27	60	125
38	80	150/170

Control & Protection Architecture

- Control Panels: LOTO (Lockout/Tagout) Implemented via built-in racking controls with logic interlocks. This means always ready without external racking setup time.
- Panel isolation ensures operational safety and control continuity



Switchgear Resources, inc. delivers full system integration, including detailed engineering, fabrication, factory testing, and field support. All configurations are tailored to your installation footprint, existing cabling infrastructure, and modernization requirements.

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