METAL ENCLOSED SWITCHGEAR 5/15/25KV

Metal Enclosed Switchgear

RIC power corp.
RELIABILITY
INTEGRITY
CUSTOMER FOCUSED

A simplified, cost effective solution for power distribution applications when space savings, reliability and low initial investment are of the highest priority. RIC Power's Metal Enclosed switchgear is defined by a simple approach to the arrangement of the main electrical components within the HV circuit which allow for the smallest possible footprint.

RIC's Metal Enclosed switchgear is highly configurable for your specific application due to the design freedom granted by Metal Enclosed switchgear standards, allowing more options and creativity in meeting the strictest of project requirements.

Typical 15kV Service Entrance LBS and Fixed Breaker Cell (side wall removed)

Product Elements

Load Break Switch (LBS): Complete with (2) independent arc extinguishing systems, the LBS can be coupled with current limiting fuses, a fixed circuit breaker or used independently depending on the specific application's requirements.

Circuit Breaker: Designs requiring a circuit breaker will utilize a fixed vacuum breaker helping to minimize the overall switchgear footprint.

Custom Design Solutions: For situations with unique space or cell design requirements, RIC Power can provide a design based on the concepts found in the Metal Enclosed series, but geared towards overcoming the specific requirements of your project. Using 3D modeling software, RIC Power is able to reduce leads times typically associated with customized project.

Indoor/Outdoor: RIC Power's Metal Enclosed switchgear is available in both indoor and outdoor designs.

Outdoor enclosures are designed to NEMA 3R standards to protect against the ingress of rain, sleet, snow and dust. In addition, cells encompass additional design features making it suitable for use in an outdoor environment.

NEMA 3R "Skin Tight" Enclosure

Protection & Control Elements (P&C): RIC Power can custom tailor a P&C package suited to meet the needs of each unique project.

Standard Features

- Front viewing window for visual confirmation of LBS knife position.
- Busbar support structure configured for
- optimum heat dissipation and strength under fault conditions.
- Ground ball studs where applicable for safe maintenance practices.
- Interlocks to prevent access into lower
- compartment for fuse replacement.
- Isolated instrument compartment.
- Sloped roof, cell heater, door wind-stopm washable filters, light box and tamper proof door hardware (outdoor).
- Polyolefin heat shrunk busbar c/w booted bus connections (optional).
- Rear infrared viewing ports (optional).

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Applications & Specifications

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Applications

- Oil, Gas, Pulp, Paper, Marine and Mining
- Department of National Defense
- Municipal and General Industries
- Data Centres
- Hospitals and Laboratories
- Solar Power Systems
- SCADA and Control Systems
- OEM Applications

Standards

CSA 22.2 No. 31

Ratings

Metal Enclosed Product Ratings	Nominal Voltage (kV)	Maximum Available Ampacity (A)	Rated Voltage Withstand / BIL (kV)	Breaker Interrupting Rating, rms (kA)	LBS Fault Closing Rating, rms (kA)
5kV	4.16	2000	19/60	31.5	40
15kV	12.47	2000	36/95	29	40
	13.8	2000	36/95	29	40
	14.4	2000	36/95	29	40
25kV	27.6	800	60/125	16	40

Other ratings available upon request.

Standard Cell Types

- Fused Load Break Switch
- Load Break Switch & Fixed Breaker
- Load Break Switch Only
- Metering
- Transition

Typical Dimensions (in)

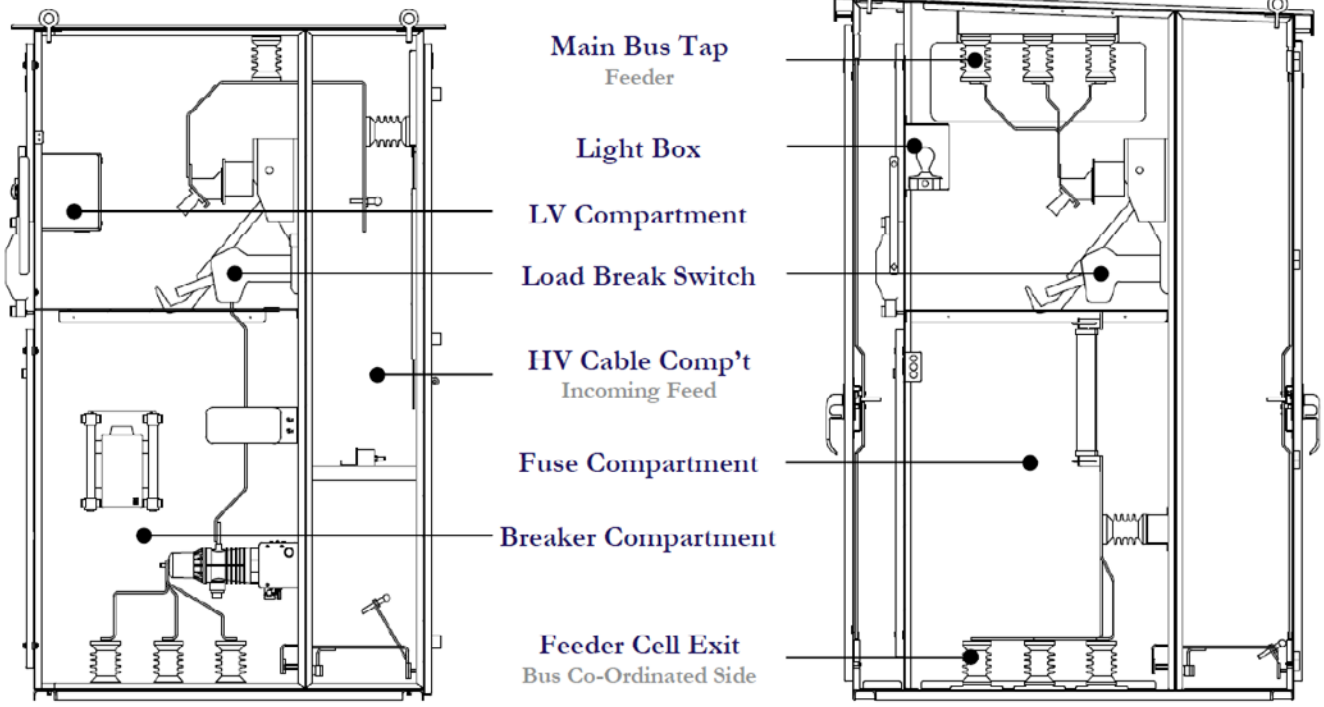
Indoor

5kV: 53D x 38W x 91.5H
15kV: 53D x 38W x 91.5H
25kV: 68D x 48W x 91.5H

Outdoor

5kV: 60D x 42W x 95H
15kV: 60D x 42W x 95H
25kV: 75D x 52W x 95H

Custom dimensions available upon request.



15kV Service Entrance Cell | LBS & Breaker (Side Walls Removed)

15kV Feeder Cell | Fused LBS (Side Walls Removed)