

PowVac-AR™ 38kV Switchgear

Arc Resistant Metal-Clad Switchgear for 38kV Applications

DESIGN CONCEPT

Powell's medium voltage PowVac 38-AR switchgear design concept combines PowVac 38kV circuit breakers with metal-clad PowVac switchgear structures that are designed and fabricated by Powell. Instrument transformers, metering and relaying are installed within the structure to provide a finished product that meets all applicable ANSI and IEEE industry standards.

PowVac 38kV circuit breakers utilize vacuum interrupters with a combined breaker and structure short-circuit rating up to 40kA.

INDUSTRY STANDARDS

PowVac 38-AR MV Switchgear has been tested to and conforms to the requirements of IEEE C37.20.7 for arc resistant construction and applications. Certified test reports are available upon request.

THIRD-PARTY CERTIFICATIONS

UL or CSA labeling can be provided with an on-site factory inspection, if required.

Available Ratings

- Circuit Breakers up to 3000 amp (1200 amp maximum for Type 2C)
- Short-time current withstand up to 40kA, 2-seconds
- Internal Arcing Short-Circuit Current: 40kA for Type 2B, 31.5kA for Type 2C
- BIL Rating up to 150kV / Extended rating 200kV phase-to-phase

Engineered to Order

Multiple Cubicle Configurations

ANSI Type 2B and 2C Construction Available

Meets all Applicable ANSI and IEEE standards for Arc Resistant Construction

Tubular or Flat Bar Copper Main Bus

Closed-Door racking

Fluidized Bed Epoxy Insulation

Removable Bus Joint Boots

UL and CSA Labeling Available if required



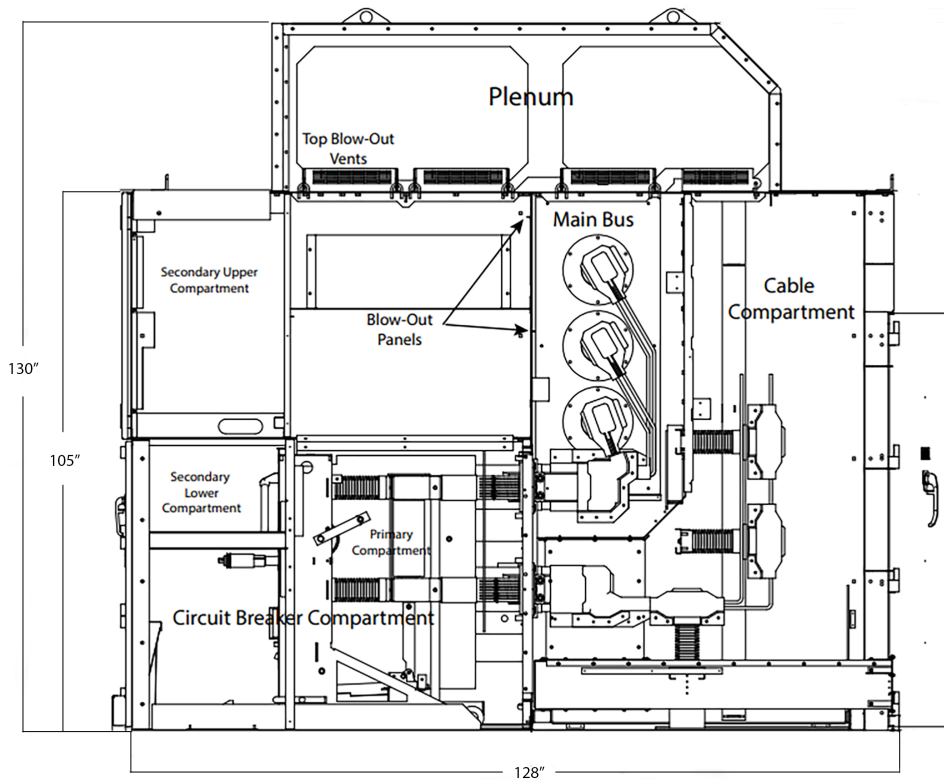
POWLVAC 38-AR STANDARD CONFIGURATIONS, 1200 AMP, 2000 AMP, AND 3000 AMP, 40KA

One-High Design	Two-High Design	One-High Design	Two-High Design	One-High Design
Instrument Upper	Rollout Upper	Instrument Upper	Rollout Upper	Instrument Upper
Breaker Lower	Breaker Lower	Rollout Lower	Rollout Lower	Fuse Rollout Lower
Instrument Door	PT Rollout	Instrument Door	PT Rollout	Instrument Door
	Instrument Door		Instrument Door	
1200A, 2000A or 3000A Circuit Breaker	1200A, 2000A or 3000A Circuit Breaker	PT Rollout	PT Rollout	CPT Fuse Rollout

Note 1: Cubicle Width: 40-inches wide for 1200A/2000A breaker sections and 54-inches for 3000A breaker sections

Note 2: 38kV, Type 2C arc resistant construction available in one-high design only, 1200 Amp maximum current rating, with a 31.5kA internal arcing fault short-circuit current rating.

Typical Section View






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