VESTA-AR
MV Metal-Clad Arc-Resistant Switchgear

VESTA-AR™ medium voltage metal-clad arc-resistant switchgear with mechanically or magnetically actuated circuit breaker technology is designed to meet the needs of customers who demand the highest quality power distribution assembly with the smallest footprint (24”W x 96”H x 60”D).

VESTA-AR fulfills the requirement for a switchgear assembly that makes efficient use of available floor space and minimizes the time required for inspection, repair and maintenance of equipment. IEM’s arc resistant technology ensures a safe and reliable solution for maintenance personnel and facility in the event of an arc flash.

METAL-CLAD ARC-RESISTANT SWITCHGEAR

- Voltage 5-15kV; 95kV BIL
- Ampacity 600A – 2000A; 25/31.5/40/50kA SCCR, 25/40kA 2B arc-rating
- Dimensions 600A/1200A; 25/31.5kA: 24”W x 60”D
- Dimensions 2000A; 25/31.5kA: 30”W x 72”D
- Breaker options include ABB VMAX, VM1, VD4, and Siemens SION 3AE3
- Front accessibility; Rear access required for 30” minimum maintenance
- Draw out breaker, PT & CPT
- Front accessible 600V CT’s and front connected cables
- Shortest breaker pole spacing between phases
- Front and rear viewing windows
- Epoxy insulated bus bar configuration optimized for maximum heat dissipation
- Plenum design incorporated into structural configuration - No additional room height requirement
- UL & cUL Listed or CSA & usCSA Certified; Type 2A and 2B in accordance with ANSI/IEEE standards 37.20.7

VESTA-AR™

Compact footprint

Optional magnetically-actuated circuit breaker

Front Accessibility

Rear Viewing Windows

Insulated Bus Bar System

UL Listed and CSA certified; Meets ANSI, IEEE Standards

Seismic Tested to Worst Case Response

OPTIONS:

Remote Racking

Earthing Truck

Active Arc Mitigation

Front Accessibility

Full front accessibility for cable connections and current transformers (CT); this design feature ensures ease of maintenance, minimal usage of floor space and creates a safe environment.

Magnetically Actuated Breaker

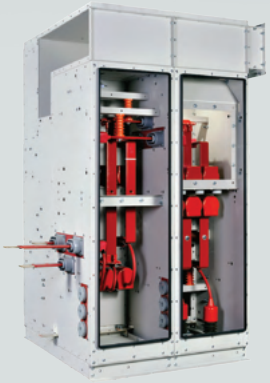
Magnetically actuated breakers operate up to 30,000 times without maintenance. These breakers feature far fewer parts and much simpler construction and are among the most reliable in the industry.

Rear Viewing Windows

Larger viewing casement allows complete access to viewing of the bus bar compartment for maintenance to assess any signs of overheating of the bus.

Insulated Bus Bar System

Medium Voltage insulating and support system with specialty designed structure for current transformers (CT's). Epoxy insulated bus as standard.



Testing

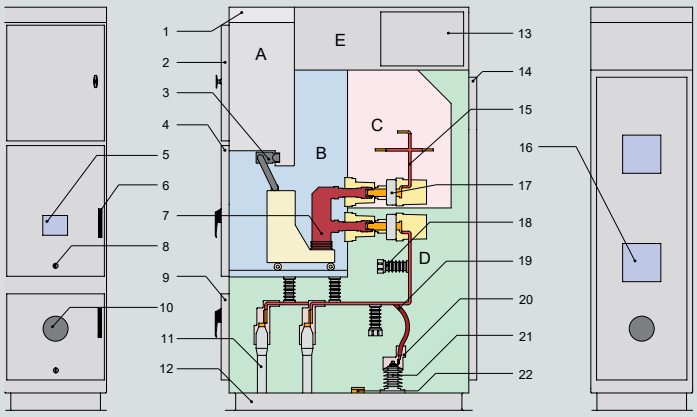
Rigorous testing shows fully reinforced and sealed joints, hinges and latches, which reduce the risk of damage to maintenance personnel and other existing equipment in the event of an arc flash.

Technical Specifications

UL & cUL Listed or CSA & usCSA Certified, Meets or exceeds type 2A and 2B in accordance with ANSI/IEEE 37.20.7.

Multiple configurations available.

VESTA CONSTRUCTION DETAILS:



A Low-voltage compartment
B Mid compartment
C Central compartment
D Bottom compartment
E Exhaust compartment

1 Wire-way
2 Low-voltage door
3 Breaker plug connector
4 Mid compartment door
5 Viewing window - front
6 Door Handle
7 Medium-voltage breaker
8 Circuit breaker racking hole
9 Bottom compartment door
10 Infrared viewing window
11 Cables

12 Base
13 Exhaust plenum
14 Back door
15 Epoxy insulated busbars
16 Viewing window - back
17 Current transformers
18 Standoff insulators
19 High-voltage cable
20 Bus boots
21 Surge arrestors
22 Grounding busbar

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