VESTA-AR
MV Metal-Clad Arc-Resistant Switchgear

VESTA-AR™ medium voltage metal-clad arc-resistant switchgear with mechanically and 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; 25/31.5kA
- Dimensions 600A/1200A; 25/31.5kA: 24”W x 60”D
- Dimensions 2000A; 25/31.5kA: 30”W x 72”D
- Magnetically actuated breaker—up to 100,000 operations
- Front accessibility; Rear access required for maintenance
- Draw out breaker, PT & CPT
- Front accessible 600V CT’s and front connected cables
- Shortest breaker pole spacing between phases
- Infrared viewing ports - allow access to thermal monitoring
- Front and rear viewing windows
- Epoxy insulated bus bar configuration optimized for maximum heat dissipation
- Plenum design incorporated into structural configuration - No additional height requirement
- UL & cUL Listed; Type 2A and 2B in accordance with ANSI/IEEE standards 37.20.7

OPTIONS:
- Remote Racking
- Ground and Test Device
- Infrared (IR) Viewing Ports
- Continuous Wireless Thermal Monitoring
- Active Arc Mitigation (UFES)
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 100,000 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.

Infrared (IR) Viewing Ports (Optional)
Front and rear infrared viewing ports allow maintenance personnel to easily access thermal monitoring of the equipment without having to open the enclosure.

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, Meets or exceeds type 2A and 2B in accordance with ANSI/IEEE 37.20.7.

Multiple configurations available.

VESTA CIRCUIT BREAKER RATINGS:

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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