

# AREVA: Safety-Related Supplier of Siemens Medium-Voltage Vacuum Roll-in Replacement Circuit Breakers



Ratings from 5-38kV, 250-1, 500 MVA, 1,200-3,000 amperes

## AREVA is now an official channel

The U.S. nuclear industry requires reliable replacement circuit breakers with the rigorous testing that meets our industry's needs. Now you can enhance your system reliability and performance with Siemens medium-voltage vacuum roll-in replacement circuit breakers with robust testing and project management. AREVA is now an official channel to market for safety-related Siemens medium-voltage vacuum roll-in replacement circuit breakers.

The fortitude of AREVA's Commercial Grade Dedication program and seismic and environmental qualification capabilities translates into increased confidence that you will receive the safety and quality products you need.

Roll-in replacement breakers provide a cost-effective way to upgrade to current vacuum technology while increasing equipment reliability and minimizing downtime.

## Siemens has designs for most major breaker models including:

Manufacturer	Model
ABB/ITE	HV, HK
Siemens/ Allis-Chalmers	AM, MA, MB/MBV, MC/ MCV, MSV/FA, FB, FC/ FCV, FSV, GMI
Federal Pacific	DST2, MOP
General Electric	AM, AMH
McGraw Edison	PSD
Westinghouse	DH, DHP

*Other manufacturers, models and ratings can be engineered by Siemens.*



## Features & Benefits

- AREVA's nuclear 1E-rated world-class commercial grade dedication program, application engineering and project management
- AREVA's seismic qualification and testing at our recently expanded U.S. Technical Center in Lynchburg, Virginia
- Siemens extensive replacement breaker and retrofit experience — more than 2,400 projects since 1983
- Increased reliability and performance
- Reduced operating and maintenance expenditures
- Reduced downtime, minimal changeover time during upgrade
- Preserved investment in existing cubicles
- Improved employee safety with new technology

**Siemens**  
Business Partner  
of AREVA for  
Energy Management  
Customer Service

## AREVA's Safety-Related Program including Commercial Grade Dedication Testing and Seismic and Environment Qualification

- With more than 20 years of Commercial Grade Dedication (CGD) experience, AREVA offers the best value, highest reliability and industry-leading quality in CGD services. Fully aligned with EPRI's latest "Guideline for the Acceptance of Commercial-Grade Items in Nuclear Safety-Related Applications" (2014), our CGD services give you the best value by doing it right, the first time. We have a Center of Excellence for Electrical Commercial Grade Dedication in Cranberry Township, Pennsylvania.
- In addition, our recently expanded U.S. Technical Center in Lynchburg, Virginia, provides the world-class seismic and environment qualification. We have a core team providing high-quality solutions in a cost-effective manner.

## Why Siemens Breakers?

### Long operational life

- Siemens replacement breakers have an expected life of 30,000 mechanical operations and a maintenance interval of 10 years or 10,000 mechanical operations, which far exceeds most operational requirements in industrial and utility applications.

### Direct interchangeability

- Siemens replacement breakers, including those that utilize the patented MOC-Saver™ design, are interchangeable with no adjustments required from cubicle to cubicle, regardless of the number of MOC switch banks within the existing cubicles.

### Extensive experience

- Siemens has supplied thousands of medium-voltage replacement breakers from the manufacturing facility in Wendell, North Carolina, successfully completing more than 2,400 projects since 1983. More than 1,000 breakers are located in nuclear 1E-rated applications.

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### Standardization design

- Siemens uses the 3AH operator for the complete family of more than 150 different medium-voltage replacement breaker designs, including spare parts and training requirements. More than 600,000 3AH series circuit breakers are in service worldwide.

### 3AH operator features

- Spring charge motor mechanism – lifetime lubricated gear box
- Operating linkage – machine parts versus stamped metal
- Change-out of components – easily accessible
- Vacuum contact erosion – indication easily verifiable

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