

# MCR & MBR Medium Voltage Replacement Circuit Breakers

ANSI 7.2/15kV at 500–1000 MVA, 1200-3000 Amperes

Replacement breakers provide a cost-effective way to upgrade your system capabilities while saving you from costly maintenance and lost productivity while preserving your investment in existing cubicles and cables.

Siemens provides the experience your company needs to successfully extend the life of your equipment. Our circuit breakers are manufactured using the same fixtures as the original Allis-Chalmers and Siemens-Allis breakers.

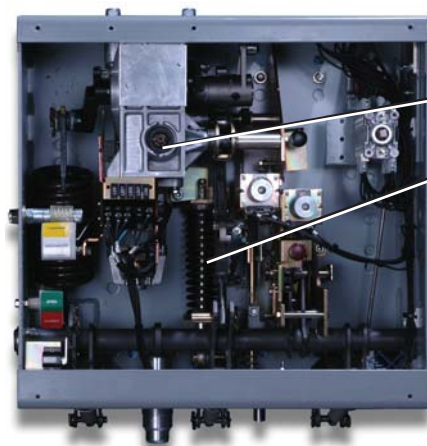
## Why Replacement Breakers?

- Increased Reliability and Performance
- Reduced Operating and Maintenance Expenditures
- Reduced Downtime, Minimal Changeover Time During Upgrade
- Preserved Investment in Existing Cubicles
- Improved Employee and Environmental Safety

## Why Siemens?

**Siemens Offers the Best Vacuum Circuit Breaker in the Industry.**

- Superior Performance, Longer Service Life
  - 10,000 full load operation, 10-year maintenance cycle
- Standard Operator on All Siemens Replacement, Medium Voltage Distribution, and Outdoor Vacuum Circuit Breakers
  - Reduced part count and inventory
  - Minimized maintenance training required
- Extensive Replacement Breaker Experience – 750+ projects since 1983
  - Over 300,000 3AF/H series circuit breakers in service worldwide
  - Nuclear 1E Rated (350+ breakers)
  - Design, Production Testing per ANSI, IEEE
- Full Range of Service Capabilities by Skilled Factory-Trained Engineers and Technicians



## 3AH Operator Features:

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

## Siemens Type MCR & MBR Medium Voltage Vacuum Circuit Breakers For Allis-Chalmers/Siemens-Allis Type MC/MCV & MB/MBV

The following circuit breakers are available as pre-engineered designs.

Replacement Circuit Breaker	Nominal Voltage Class	Nominal 3-Phase MVA Class	Maximum Voltage	Voltage Range Factor	Interrupting Time	Full Wave Withstand Test Voltage	Continuous Current (60 Hz)	Short Circuit Current (at max. kV)	Close and Latch Capability	Nominal Weights
			E	K				I	1.6 x KI	
	kV	MVA	kV rms		Cycles	kV Peak	Amperes	kA rms	kA rms	lbs.
7 MBR - 500	7.2	500	8.25	1.25	5	95	1200, 2000	33	66, 77	875
7 MBVR - 500	7.2	500	8.25	1.25	5	95	1200, 2000	33	66, 77	875
15 MCR - 500	13.8	500	15.0	1.3	5	95	1200, 2000	18	37, 58	860
15 MCVR - 500	13.8	500	15.0	1.3	5	95	1200, 2000	18	37, 58	860
15 MCU - 1000	13.8	1000	15.0	1.3	5	95	1200, 2000	37	77	1200

Dimensions (Inches)					
	7 MBR - 500	7 MBVR - 500	15 MCR - 500	15 MCVR - 500	15 MCU - 1000
A	79.75	79.75	79.75	79.75	79.75
B	28.75	28.75	28.75	28.75	28.75
C	10.00	10.00	10.00	10.00	10.00
D	33.00	33.00	33.00	33.00	33.00
E	43.36	43.36	43.36	43.36	43.36

### Contact Us

To find out more about Siemens replacement breakers, please contact your local Siemens representative or (800) 347-6659 regarding your site specific application.

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