

ABB Roll-in Replacements for General Electric Circuit Breakers

RMVAC™



The ABB Advantage

RMVAC™ replacement circuit breakers from ABB utilize the ABB AMVAC® medium voltage circuit breaker as the primary operating element. This roll-in replacement circuit breaker brings all the benefits of increased performance with reduced maintenance intervals. It features encapsulated vacuum interrupter assemblies, providing maximum protection from dust and humidity, greatly reducing the potential for tracking and partial discharge (corona). The need for lubrication is virtually eliminated, while providing the capability of performing over 100,000 operations without replacement of mechanism parts.

General Electric Types and Ratings

Voltage	Type	Current Rating	MVA
5	AM 4.16	1200/2000	100-350
5	AM 5	1200/2000	100-350
5	AMH 4.76	1200/2000	100-350
15	AM 13.8	1200/2000/3000	500-1000
15	AM 15	1200/2000/3000	500-1000

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The ABB Difference

RMVAC breakers provide the following features:

- ▶ **Steel Frame Construction**—RMVAC circuit breaker frames feature rugged steel construction, weighted so that they may be easily and safely connected during the racking process. Interlocking will assure that circuit breakers are mechanically and electrically blocked from closing during racking. **No modification of the existing circuit breaker compartments** will be necessary to install these roll-in replacement circuit breakers.
- ▶ **Magnetically Actuated Breaker Element**—The operating mechanism consists of a magnetic actuator, control module with sensor systems, storage capacitor and supplementary components for emergency manual opening. Applying this leading edge technology provides owners with a longer life circuit breaker that is virtually maintenance free.
- ▶ **Accelerated Circuit Breaker Timing**—The magnetic actuator mechanisms in this offering feature 3-cycle opening time, a key advantage for new roll-in replacement breakers connected to the existing cables and bus work. Faster opening speeds reduce electrical and mechanical stresses on the bus work and cabling during short circuit events.
- ▶ **Non-hygroscopic Bushings**—All circuit breaker bushings will be new and feature track resistant, non-hygroscopic epoxy construction, which will not absorb water.
- ▶ **All New Components**—The breaker element, interlocks, primary finger clusters, draw-out assembly, secondary disconnects and fully rated ground contact assembly and wiring are new.
- ▶ **Design Testing per ANSI**—RMVAC replacement circuit breakers conform to the applicable portions of ANSI C37.59, C37.04 and C37.06.
- ▶ **Production Testing per ANSI**—Production testing of the roll-in replacement elements is in accordance with the applicable portions of ANSI C37.09. Each breaker is cycled 300 times before leaving the factory.

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