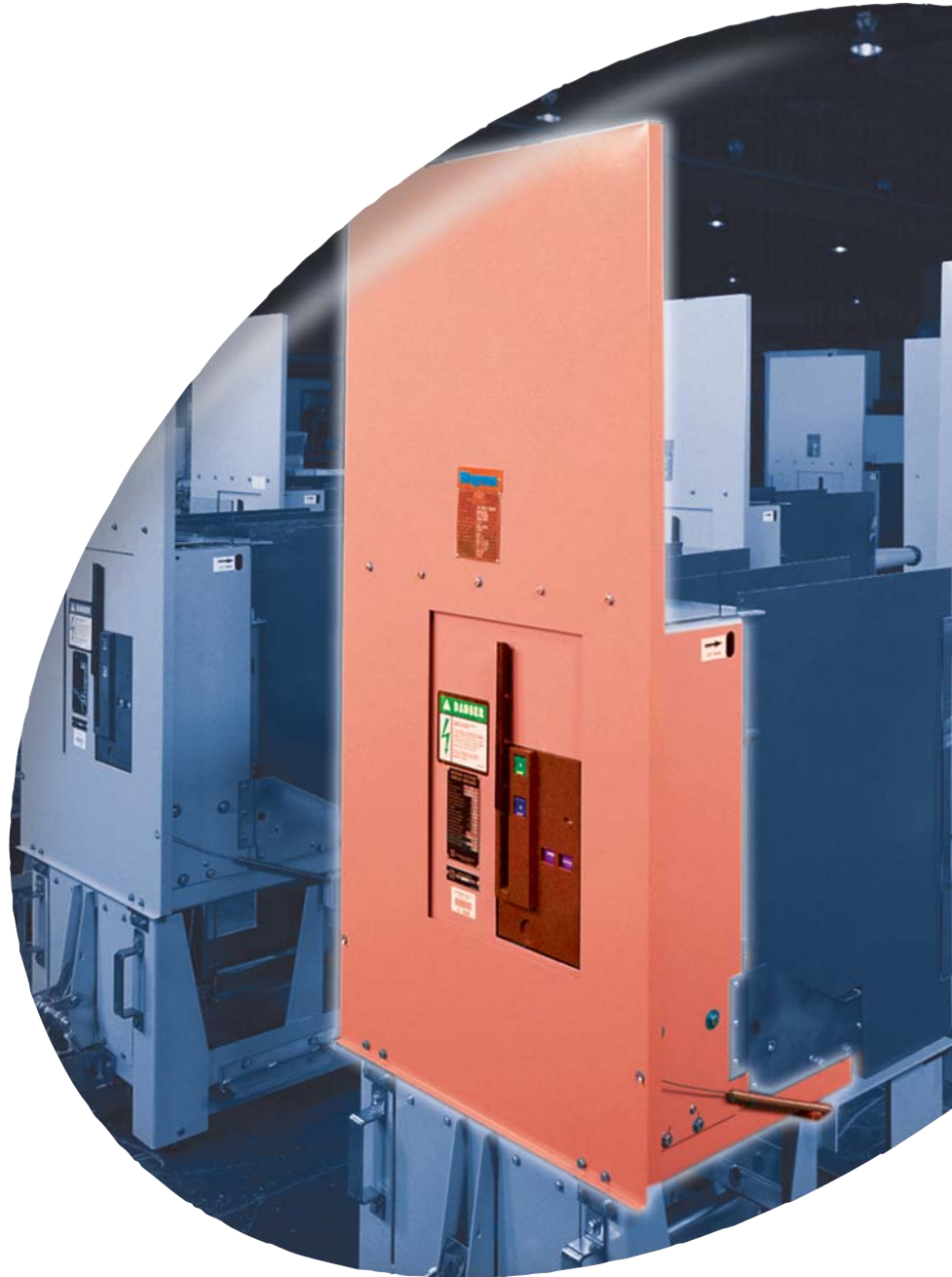


*5 and 15kV Magnum™ Direct  
Roll-In Replacement Circuit Breakers*

Modernize and Extend the Life of  
Medium Voltage Switchgear



## Schneider Electric Offers Innovative Solutions to Reduce Costs and to Extend the Life of Electrical Equipment

Aging facilities require infrastructure upgrades that can be costly in terms of both down time and new equipment replacement. But you won't always need to choose full replacement — you have options.

Magnum™ Direct Roll-In Replacement Circuit Breakers provide you the capability to modernize and extend the life of your existing medium voltage switchgear, saving dollars and down time. Designed to fit into the existing switchgear cell without modification, tested to ANSI standards, and built with totally new components, Magnum circuit breakers are a state-of-the-art solution for switchgear upgrades. And to further simplify the modernization process, Magnum circuit breakers are available for most leading brands of medium voltage switchgear.

Our highly trained services staff is dedicated to providing you a broad range of innovative products and services to solve your power management problems. Contact your local service sales engineer for more information about modernizing your switchgear using Magnum Direct Roll-In Replacement Circuit Breakers.

**From top to bottom:  
Magnum™ Direct Roll-In  
Replacement Circuit  
Breakers for General  
Electric, Westinghouse  
and Allis-Chalmers  
switchgear.**



## Direct Roll-In Replacement Circuit Breakers

Magnum Direct Roll-In Replacement Circuit Breakers from Square D are a family of products which are used to upgrade existing medium voltage switchgear to current electrical standards. Every Magnum circuit breaker is designed and tested to assure it meets applicable ANSI standards. Schneider Electric offers designs that can be installed in equipment made by General Electric, Allis-Chalmers, Siemens/Allis, Westinghouse, Cutler-Hammer, ITE/ABB, FPE and McGraw Edison.

Magnum Circuit Breakers will correctly interface with the existing compartment cell and maintain safety interlocks inherent in the original equipment design. Each Magnum circuit breaker is manufactured using totally new components including state-of-the-art vacuum or SF<sub>6</sub> arc interruption technology. Once the installation is complete, the switchgear upgrade has been completed at a fraction of the cost and installation time required for new.

## Benefits of the Magnum Circuit Breakers upgrade:

- Enhanced electrical system reliability
- Reduced costs for equipment upgrades
- Less down time for installation
- Reduced maintenance and operating costs
- National support from the Square D service network assures many years of reliable operation for the modernized equipment.

## Square D® Services Provides Reliable Solutions

The Square D Services organization offers the industry's widest range of reliable products and industry-leading services. With global resources and a dedicated national service network, Schneider Electric can assure reliable equipment solutions backed by the industry's top electrical engineering talent — no matter where the equipment is ultimately installed and used.

# Magnum™ Direct Roll-In Replacement Circuit Breakers

Magnum™ Circuit Breakers for GE® Magne-Blast AM® Switchgear									Manufactured 1955–Present
Replacement Breaker		Nominal		Voltage	Insulation Level		Current	Interrupting Time	
Magnum Type	Voltage Class	3-Phase MVA Rating	Max. Voltage	Volt. Range Factor	Withstand Test Volt.	Continuous at 60Hz	Short Circuit at Rated Max. kV		
Vacuum	SF <sub>6</sub>	kV	MVA	kV rms	K	kV Peak	Amperes	kA rms	Cycles
N/A	5GYB	4.16	100	4.76	1	60	600, 1200	20	5
5GTC	5GYC	4.16	Fused	4.76	N/A	60	400	Fused	5
5GWB	5GYB	4.16	250	4.76	1.24	60	1200, 2000	29	5
5GWB	5GYB	4.16	350	4.76	1.19	60	1200, 2000, 3000	41	5
8GWB	8GYB	7.2	500	8.25	1.25	95	1200, 2000, 3000	33	5
15GWB	15GYB	13.8	500	15	1.3	95	1200, 2000	18	5
15GWB	15GYB	13.8	750	15	1.3	95	1200, 2000	28	5
15GWB	15GYB	13.8	1000	15	1.3	95	1200, 2000, 3000, 4000	37	5

Magnum™ Circuit Breakers for Westinghouse DH® Switchgear									Manufactured 1939–1963
Replacement Breaker		Nominal		Voltage	Insulation Level		Current	Interrupting Time	
Magnum Type	Voltage Class	3-Phase MVA Rating	Max. Voltage	Volt. Range Factor	Withstand Test Volt.	Continuous at 60Hz	Short Circuit at Rated Max. kV		
Vacuum	SF <sub>6</sub>	kV	MVA	kV rms	K	kV Peak	Amperes	kA rms	Cycles
5WWB	5WYB	4.16	250	4.76	1.24	60	1200, 2000	29	5
5WWB	5WYB	4.16	350	4.76	1.19	60	1200, 2000	41	5
8WSB	N/A	7.2	500	8.25	1.25	95	1200, 2000	33	5
15WSB	N/A	13.8	500	15	1.3	95	1200, 2000	18	5
15WSB	N/A	13.8	750	15	1.3	95	1200, 2000	28	5

Magnum™ Circuit Breakers for Westinghouse DHP® Switchgear									Manufactured 1963–Present
Replacement Breaker		Nominal		Voltage	Insulation Level		Current	Interrupting Time	
Magnum Type	Voltage Class	3-Phase MVA Rating	Max. Voltage	Volt. Range Factor	Withstand Test Volt.	Continuous at 60Hz	Short Circuit at Rated Max. kV		
Vacuum	SF <sub>6</sub>	kV	MVA	kV rms	K	kV Peak	Amperes	kA rms	Cycles
5WWB	5WYB	4.16	350	4.76	1.19	60	1200, 2000	41	5
15WWB	15WYB	13.8	500	15	1.3	95	1200, 2000	18	5
15WWB	15WYB	13.8	750	15	1.3	95	1200, 2000	28	5

Magnum™ Circuit Breakers for ITE® Type HV Multimite® Switchgear									Manufactured 1940–1965
Replacement Breaker		Nominal		Voltage	Insulation Level		Current	Interrupting Time	
Magnum Type	Voltage Class	3-Phase MVA Rating	Max. Voltage	Volt. Range Factor	Withstand Test Volt.	Continuous at 60Hz	Short Circuit at Rated Max. kV		
Vacuum	SF <sub>6</sub>	kV	MVA	kV rms	K	kV Peak	Amperes	kA rms	Cycles
N/A	5IYB	4.16	250	4.76	1.24	60	1200	29	5

Magnum™ Circuit Breakers for ITE/ABB HK® Metal-Clad Switchgear									Manufactured 1965–Present
Replacement Breaker		Nominal		Voltage	Insulation Level		Current	Interrupting Time	
Magnum Type	Voltage Class	3-Phase MVA Rating	Max. Voltage	Volt. Range Factor	Withstand Test Volt.	Continuous at 60Hz	Short Circuit at Rated Max. kV		
Vacuum	SF <sub>6</sub>	kV	MVA	kV rms	K	kV Peak	Amperes	kA rms	Cycles
8ISB	N/A	7.2	500	8.25	1.25	95	1200, 2000	33	5
15ISB	N/A	13.8	500	15	1.3	95	1200, 2000	18	5
15ISB	N/A	13.8	750	15	1.3	95	1200, 2000	28	5

## Magnum™ Circuit Breakers for Allis-Chalmers and Siemens-Allis Switchgear Using Ruptair® Magnetic Air Circuit Breakers

Manufactured 1944–Present

Replacement Breaker		Nominal		Voltage	Insulation Level		Current	Interrupting Time	
Magnum Type		Voltage Class	3-Phase MVA Rating	Max. Voltage	Volt. Range Factor	Withstand Test Volt.	Continuous at 60Hz	Short Circuit at Rated Max. kV	
Vacuum	SF <sub>6</sub>	kV	MVA	kV rms	K	kV Peak	Amperes	kA rms	Cycles
5AWB	5AYB	4.16	250	4.76	1.24	60	1200, 2000	29	5
5AWB	5AYB	4.16	350	4.76	1.19	60	1200, 2000	41	5
15AWB	15AYB	13.8	500	15	1.3	95	1200, 2000	18	5
15AWB	15AYB	13.8	750	15	1.3	95	1200, 2000	28	5
15AWB	N/A	13.8	1000	15	1.3	95	1200, 2000	37	5

## Magnum™ Circuit Breakers for FPE Switchgear using DST-2® Circuit Breakers

Manufactured 1953–1978

Replacement Breaker		Nominal		Voltage	Insulation Level		Current	Interrupting Time	
Magnum Type		Voltage Class	3-Phase MVA Rating	Max. Voltage	Volt. Range Factor	Withstand Test Volt.	Continuous at 60Hz	Short Circuit at Rated Max. kV	
Vacuum	SF <sub>6</sub>	kV	MVA	kV rms	K	kV Peak	Amperes	kA rms	Cycles
5FWB	N/A	4.16	250	4.76	1.24	60	1200, 2000	29	5
5FSB	N/A	4.16	350	4.76	1.24	50	1200, 3000	41	5
15FWB	N/A	13.8	500	15	1.3	95	1200, 2000	18	5
15FSB	N/A	13.8	750	15	1.3	95	1200, 2000	28	5

## Magnum™ Circuit Breakers for McGraw Edison M-E® Switchgear

Manufactured 1965–Present

Replacement Breaker		Nominal		Voltage	Insulation Level		Current	Interrupting Time	
Magnum Type		Voltage Class	3-Phase MVA Rating	Max. Voltage	Volt. Range Factor	Withstand Test Volt.	Continuous at 60Hz	Short Circuit at Rated Max. kV	
Vacuum	SF <sub>6</sub>	kV	MVA	kV rms	K	kV Peak	Amperes	kA rms	Cycles
15MWB	N/A	13.8	500	15	1.3	95	1200, 2000	18	5
15MWB	N/A	13.8	750	15	1.3	95	1200, 2000	28	5

### To Order a Magnum Circuit Breaker . . .

- Obtain complete nameplate data of original circuit breaker element (and switchgear, if possible) for identification purposes.
- Determine quantity and type of Magnum circuit breaker required, including desired element (vacuum or SF<sub>6</sub>) and any desired rating upgrades.
- Identify any special delivery or other requirement(s) for the installation.
- Provide your local Square D® Services representative with this information in order to confirm price and delivery for Magnum Direct Replacement Circuit Breakers.

# Magnum™ Direct Replacement Circuit Breakers Deliver Better Value

## Reduced Costs for Equipment Upgrades

- New circuit breakers installed in existing switchgear
- Available in both 5kV and 15kV versions
- Utilizes new vacuum and SF<sub>6</sub> arc interruption technology
- Upgraded MVA ratings are available
- Installation expense is a fraction of new equipment costs

## Less Down Time for installation

- Rolls into the existing cell with no modifications
- Complete factory testing, backed by standard equipment warranty
- Installation overseen by trained technician

## Enhanced Equipment Reliability

- Designed to meet ANSI/IEEE C37.59 standards
- Manufactured with completely new components
- High dielectric strength, moisture resistant, primary insulation
- Nuclear certification available

## Reduced Maintenance and Operating Costs

- Maintenance-free vacuum and SF<sub>6</sub> bottles
- New, easy-to-maintain operating mechanism
- No bulky arc chutes to handle and maintain
- Reduced need for obsolete spare parts

## Available for Most Manufacturer's Equipment

- General Electric
- Allis-Chalmers and Siemens/Allis
- Westinghouse and Cutler-Hammer
- ITE/ABB
- McGraw Edison
- FPE

Magnum™ 15kV vacuum  
circuit breaker for  
ITE/ABB switchgear



The Magnum operating  
mechanism  
is simple to inspect  
and maintain



## Services Available

Anywhere throughout the U.S. and Canada, any time, day or night, for any type of equipment!

**Allis-Chalmers**

**Cutler-Hammer**

**Federal Pacific**

**Federal Pioneer**

**General Electric**

**ITE/ABB**

**McGraw Edison**

**Merlin Gerin**

**Modicon**

**Siemens/Allis**

**Square D**

**Telemecanique**

**Westinghouse**

Schneider Electric Services is a leading source for refurbishment and analysis of electrical equipment in North America today. Our offices are located in most major metropolitan areas in the U.S. and Canada.

Contact your Square D sales engineer for additional information, call us at 1-888-778-2733 or visit [www.SquareD.com](http://www.SquareD.com).



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