



Power/Vac[®] VL Vacuum Replacement Breakers for GE Magne-Blast Type AM

Guideform Specification

GE Power/Vac circuit breakers shall be used in the vacuum replacement of Magne-Blast Vertical Lift Air Magnetic Circuit Breakers.

The replacement breaker shall be a direct roll-in assembly featuring all new components, including Power/Vac vacuum circuit breaker, frame, interlock mechanisms and bushings shipped completely assembled for immediate insertion into an existing GE Magne-Blast vertical lift breaker compartment.

Replacement breaker shall meet all applicable ANSI/IEEE industry and design testing requirements for new general purpose breakers, including interface/interlocks, dielectric, momentary, temperature rise and mechanical life:

ANSI C37.54	Conformance Test Procedures
ANSI C37.04	Rating Structure for High-Voltage Circuit Breakers
ANSI C37.09	Standard Test Procedures for High-Voltage Circuit Breakers
ANSI C37.20.2	Standard for Metalclad Switchgear

Production Testing:

Each replacement breaker shall undergo standard production tests including 300 mechanical operations, final adjustment, one minute high potential, min/max control voltage and timing/travel curves.

Technical Requirements:

Provide ANSI tested replacement breaker assemblies rated:

<input type="checkbox"/> 1200A (95kV BIL)	<input type="checkbox"/> 2000A (95kV BIL)	<input type="checkbox"/> 3000A* (95kV BIL)
<input type="checkbox"/> Normal (37kA)	<input type="checkbox"/> (58kA) momentary for 500MVA applications	
<input type="checkbox"/> Normal (58kA)	<input type="checkbox"/> (77kA) momentary for 750MVA applications	
	<input type="checkbox"/> (77kA) momentary for 1000MVA applications	

*Consult factory for availability of: 3000A, 4.16kV 250-350MVA, M26, AM75, AMH or Class 1E applications.

Replacement breaker shall be equipped to operate on the following control voltages:

Trip voltage: 48Vdc 125Vdc 250Vdc Capacitor Trip

Close voltage: 48Vdc 125Vdc 250Vdc 115Vac 230Vac

Charge voltage: 48Vdc 125Vdc 250Vdc 115Vac 230Vac

Roll-in breaker assembly shall be direct electrical and mechanical replacement for existing GE Magne-Blast circuit breaker:

Type AM _____ - _____ - _____ Serial No. _____

Model No.

Replacement breaker __ will / __ will not be equipped with Surge Suppressors (recommended for feeder breakers serving low BIL loads — i.e. motors, dry type transformers, generators).

Documentation:

Manufacturer shall supply components summary and wiring diagram for replacement breaker.

Manufacturer shall supply complete instructions for installation and maintenance as well as renewal parts information.

Manufacturer shall ensure availability of exact replacement parts for a minimum of ten years after product obsolescence and functional replacement parts for twenty years after product obsolescence.

Replacement breakers shall receive manufacturer's standard warranty of 18 months after shipment or one year after in service startup, whichever occurs first.



GE Electrical Distribution & Control

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