Eaton has been an industry leader for more than 40 years, providing UL® 347 certified medium-voltage control. When it comes to controlling and protecting medium-voltage motors, the Ampgard™ family is the premier high-performance choice.
## Ampgard has a dedicated aftermarket sales team that has access to your original order information. Using this information, the sales team can identify the exact parts required to maintain or upgrade your existing starters.

Replacement parts are available for three generations of Ampgard starters. The original Ampgard design was built from the 1950s to the 1960s. The second generation design (now known as Classic Ampgard) was introduced in the 1960s and remained in production through the early 2000s. The current generation of Ampgard was introduced in 2005. The aftermarket team can also quote parts for SC9000™ medium-voltage drives.

### Ampgard

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<td>1955–1962</td>
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<td>SC9000 MV drive</td>
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*Manufacture point moved from Buffalo, NY to Asheville, NC in 1978

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**Classic Ampgard**

**Air to vacuum retrofit**

**Ampgard**

A legacy of reliability for more than 4 decades

EATON Medium-voltage motor control
All major starter components are manufactured by Eaton, providing increased reliability and equipment support.

- Vacuum contactors
- Isolation switches
- Power fuses
- Control power transformers
- Potential transformers

With a wide selection of starter types at voltages from 2.3 kV to 13.8 kV and ratings up to 8000 hp, Eaton is equipped to provide an Ampgard starter specifically designed for your critical application including:

- Full voltage
- Reduced voltage—reactor
- Reduced voltage—autotransformer
- Reduced voltage—solid-state
- Two-speed, two-winding
- Two-speed, one-winding
- Synchronous
- Reversing

Increased reliability and equipment support
Protective relays

E-series relays for traditional applications

- EMR-3000 for current protection
- EMR-4000 for current and voltage protection
- URTD for temperature protection

Enclosures

Ampgard motor control solutions are all seismic certified and available in an enclosure type for nearly every operating environment:

- NEMA® 1—general purpose
- NEMA 1G—general purpose with gasketed doors
- NEMA 12—dust-tight
- NEMA 3R—outdoor (non-walk-in)
Arc flash solutions

**Arc-resistant Ampgard AR**
Arc-resistant Ampgard AR™ is available for applications requiring increased operator protection. Extensively tested to IEEE® C37.20.7-2007 requirements for Type 2B accessibility, Ampgard AR incorporates the key features of traditional models, plus:

- Rear arc chamber, roof flaps and plenum to allow arc gasses to flow away from the operator
- Strengthened front doors and latches to ensure doors remain closed
- Insulated main bus minimizes risk of bus fault
- Low-voltage control compartment verified to meet arc-resistant requirements (Type 2B)

Ampgard AR arc-resistant can be close-coupled with the following, for a coordinated, tested, arc-resistant customer solution:

- ArcGard™ arc-resistant metal-clad switchgear
- Arc-resistant metal-enclosed medium-voltage switches
- SC9000™ EP arc-resistant medium-voltage drive

**Ampgard remote operator**
The Ampgard remote operator enables users to open or close the starter’s isolation switch through the use of a pushbutton station operated up to 30 feet from the starter, allowing the user to remain out of the starter arc flash zone.

- The remote operator is easily attached to the front of an Ampgard starter when the isolation switch needs to be opened or closed
- 120 Vac is required for operation
- All starter mechanical interlocks remain operational during use

Ampgard AR arc-resistant close-coupled with SC9000 EP arc-resistant drive
Manufacturing flexibility

Multiple manufacturing sites develop and manufacture customized products and solutions locally and provide you with local access to witness tests and inspections, in-depth technical skills and market knowledge.

Integrated disconnect
- Eaton VCP-W main breaker
  - 1200 A, 2000 A, 3000 A, 50 kA
  - Metal-enclosed, totally front accessible
  - Optional remote racking
- LBS switch for main, tie or feeder disconnect applications
  - 600 A, 1200 A, fusible and non-fusible

Double-bus design
Double-bus design for close-coupling with medium-voltage drives for synchronous transfer applications

Synchronous transfer with medium-voltage drive

Main breaker

LBS

Asheville, NC

Edmonton, Canada

Portland, OR
About Eaton’s Electrical Engineering Services & Systems

Eaton's Electrical Engineering Services & Systems is one of the largest and most experienced industrial service organizations in North America. With more than 1500 highly trained professionals in 60 engineering service locations throughout the U.S. and Canada, Eaton's Electrical Engineering Services & Systems has complete local, national and international capabilities to provide a full range of electrical, civil and mechanical equipment services. In addition, Eaton provides an additional year of warranty, beyond our standard warranty, when site acceptance testing and power system studies are performed by Eaton’s Electrical Engineering Services & Systems field service organization. This broad range of service capabilities has established us as a leader in the engineering service industry.