

Ampgard medium voltage motor control



EATON	
AMPGLARD® Medium	
Starter Type	Interlocking
Rated Voltage	13800V
Rated Load	8000 HP
Control Voltage	125
General Order	MCR000
Drawing Ref.	

15 kV medium voltage starter



Powering Business Worldwide



Ampgard 15 kV

Medium voltage motor starter

The premier medium voltage solution

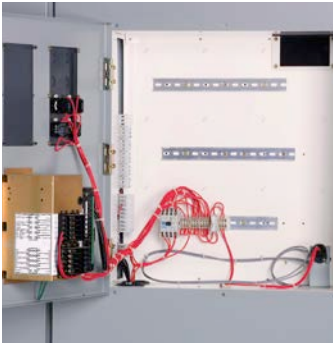
The Ampgard® 15 kV medium voltage motor starter has user-friendly features and capabilities you have come to expect from Eaton's medium voltage motor control product offering. Highly innovative, its enhanced design provides long life with reduced maintenance as compared to traditional 15 kV starting methods using circuit breakers. The reduced footprint without the need for rear access minimizes floor space.

The Ampgard series has been the industry leader in NEMA® medium voltage control for over 30 years and is available in ratings to 15 kV. When it comes to protecting and controlling medium voltage motors, Ampgard 15 kV is the premier solution.



15 kV starter

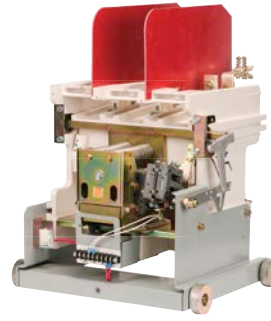




Low voltage compartment



Low voltage compartment door



15 kV stab-in contactor

The Ampgard advantage

Features

- Front-accessible design—can be installed against a wall
- Dimensions—standard structures are 36.00 W x 92.00 H x 30.00 D inches including a 12.00-inch top-mounted main bus compartment
- Conduit area that easily accommodates two 500 kcmil cables per phase
- Large, easily accessible low voltage panel completely isolated from the medium voltage compartment
- Standard viewing window for visual verification of isolation switch operation
- Large instrument door that offers generous mounting area to accommodate large relays
- Best in the industry isolation switch life—10,000 operations
- 36 kV dielectric withstand
- 75 kV BIL / 95 kV BIL with lightning arresters
- UL®/cUL®, IEC, CSA® certified

Protection and dependability

The Ampgard 15 kV starter controls 250 to 7500 hp motors and offers full coordination between the fuse and contactor, providing seamless protection. Advanced protection for the motor can be provided by the optional EMR series of motor protection relays. The Ampgard 15 kV lightweight contactor makes it easy to handle and maintain. The SL contactor solid-state control board allows field setting of dropout time for minimum opening time or maximum ride-through.

Additional features include:

- Top-mounted main bus compartment for ease of installation and maintenance
- Incoming cable pull section (typically 24.00 inches [609.6 mm] wide) recommended
- 1000, 1200 and 2000 A main bus ratings
- Main bus is insulated copper with tin or silver plating
- 300 A stab-in contactor with bolted main fuses, for use with motors with a maximum of 300 full load amperes

Starter types:

- Full voltage
- Reduced voltage reactor
- Reduced voltage autotransformer

SL contactor

Features

- Voltage—15 kV
- Continuous current—300 A
- Contactor interrupting rating—5000 A at 15 kV
- BIL—75 kV
- Control voltages (field adjustable):
 - 110, 220 Vac, 50 Hz
 - 120, 240 Vac, 60 Hz
 - 125 Vdc
- Dropout time (field adjustable):
 - 50 ms
 - 130 ms
 - 250 ms
 - 330 ms
- Third-party certification—UL, KEMA, CSA
- Optional mechanical latch—many coil voltages

• Long life guarantees high quality:

- 100,000 electrical operations
- 1 million mechanical operations

• Motor/load types:

- Squirrel-cage induction motors
- Synchronous motors
- Wound-rotor motors
- Transformer feeders

• Fully applicable to:

- Full voltage starting
- Reduced voltage starting

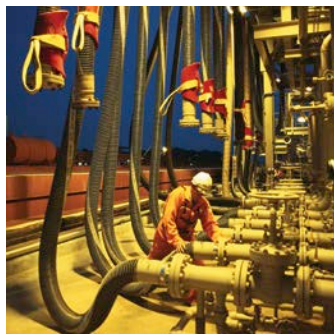
• The perfect choice for harsh-duty applications:

- HVAC
- Mining
- Pulp and paper
- Petrochemical
- Automotive
- Many others

• Design and test standards—UL 347B, IEC 60470, CSA C22.2

Technology

The “SL” contactor family incorporates world-class Eaton vacuum interrupters.





SL family of vacuum contactors provide:

- Increased safety, reliability and production
- Improved performance, especially in dusty and corrosive environments
- Reduced maintenance, downtime and unit weight
- Quiet operation
- Low watts loss
- High quality and long life

It's in our DNA

In 1982, Eaton introduced its first vacuum contactor. Used to replace popular air-break contactors of its day, the "SJ" medium voltage contactor quickly revolutionized the world of medium voltage control. Since that time, vacuum contactors have become the standard of the industry and Eaton, a market leader.



Full voltage 15 kV starter—door open

For more information, visit Eaton.com/Ampgard or contact your local sales office.

Eaton
1000 Eaton Boulevard
Cleveland, OH 44122
United States
Eaton.com

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