

Medium voltage soft starter



General information

- THE MINE POWER SOLID STATE STARTER is a motor controller that integrates the solutions of the best brands in motor control and protection systems.
 - We work with specialist brands and high-quality components, which, together with the quality and experience of MINE POWER, create a product of superior value to the rest of the market.
 - Solid state starters, commonly known as soft starters, provide great benefits by reducing, avoiding or controlling mechanical and electrical system failures.
- Welded hoists all around, greater resistance in maneuvers. In addition, they allow the installation of the cabinet without the need to drill the interior and facilitate the assembly on any surface, from concrete walls, boards or partitions.
 - The lower flange positioned at 45 degrees allows the operator visibility of the receptacle directional locks for proper connection. In addition, it avoids having to tilt and lift, since the connecting action is pushing.
 - Removable bottom flange and side knockouts for voltage supply.
 - Possibility of mounting glands or receptacles in the lower part and voltage presence detector.
 - Time-proven contactor technology and 400-amp power.
 - One of the main features of vacuum contactors is their low maintenance. In addition, the special contact surface material provides long service life, even under external operating conditions.

Description

- Highly durable, industrial, safe operating lever with door lock and lock holder for the use of LOTO (Log-Out Tag-Out) security procedure.
- Door lock to prevent the equipment from being opened when energized.



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Description

- The main coils operate with a very low temperature rise, so that the insulation lifetime is enhanced.
- Roller bearings on the main shaft provide trouble-free operation and long service life.
- It maintains a high level of isolation, due to
 - the main busbar, located in a separate behavior, above the alignment.
- The vertical busbar is in the area behind the starter and auxiliary compartments.
- The load cables are isolated from the starter in double-high sections.
- A low voltage vertical cable channel is provided for isolation of the control wiring used by the customer.
- Utilizes CLS power fuses, with special time/current characteristics for motor service. The fuse is coordinated with the contactor and overload relay characteristics to provide maximum usage and protection.



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Product features

- 200A and 400A current capacity.
- Operating voltage 2.4 kv 4.16 kv
- Weight 800 kg / 1,764 lbs
- Electronic systems, high-efficiency power mototronics.
- Power fuse protection for CLS Eaton model motor.
- Safety disconnecter with lock and locking device.
- Additional protection with motor protection relay (additional).
- Possibility of integrating programmable logic control (PLC) and network monitoring system (additional).
- Modular cabinet features, for different arrangements.

Application

- Starting and protection of medium voltage electric motors.
- Starting and protection of medium voltage pumping systems.



Equipment specifications

Protection degree	Material	Finish
Nema 1 o N3R	Carbon steel sheet ASTM A36 12 gauge in structure and 14 gauge in covers	Electrostatic paint ANSI 61 gray color

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Benefits

- Eliminates shaking of mechanical components.
- Avoid shaft coupling and shaft damage.
- Prevents motor and winding failure.
- Stops high-pitched noises and drive shaft breakage.
- Prevents water hammering in pipes.
- Smoothly stops pumping motors.
- Reduces pressure so that valves close gently.
- Avoids over-voltage wave.
- Reduces starting current peaks.
- Reduces voltage drop at motor start-up.
- Safety for operators.

Standards

AMPGARD starters are designed, assembled, and tested in accordance with the following standards:

- NEMA/ANSI ICS3
- EEMAC E14-1
- UL 347
- CSA _ C22.2 N° 14

The main components (contactor, isolation switch and fuses) are UL certified.


Complementary product:

SEL, EATON, SCHNEIDER or ABB motor protection relays.

Electric arc detection. Integration of mobile enclosures in containers or POWER HOUSE.

Integration to communication network systems (ethernet, modbus, profibus, etc.).

MINE POWER®

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