Product Focus

Ampgard® SC 9000™
Medium Voltage Adjustable Frequency Drive

Reliability Matters

Eaton's Ampgard SC 9000 medium voltage adjustable frequency drive combines innovative technology with the reliable design and construction you've come to expect with Ampgard products. Designed for use with induction or synchronous motors at 2400 to 4160 volts and up to 5000 horsepower, the Ampgard SC 9000 delivers maximum benefits while being the smallest medium voltage drive in the industry.

Extensively tested manufactured, and assembled to ISO 9001: 2000 certification standards, the SC 9000 has been designed and constructed for use in the most rigorous, demanding applications.

Frame "C"
1250 - 1750HP @ 2400V
2250 - 2500HP @ 4160V

Features

The Ampgard SC 9000 boasts a robust feature set that puts it ahead of the competition:

- Smallest footprint per HP in the industry
- Clean and quiet operation (runs at a 75db noise level or less)
- Modular roll-in/roll-out inverter
- Easily integratable with other Ampgard Products
- Internal 480V power supply
- Fully integrated drive utilizing highly efficient variable speed operation

Benefits

The Ampgard SC 9000's features bring a host of benefits for any operation:

- Requires less equipment room space compared to other manufacturers.
- Minimize noise pollution
- Time and cost savings due to low mean time to repair (MTTR)
- Allows maximum use of equipment room space and reduced installation costs
- No need for external auxiliary power supplies (3 wires in - 3 wires out)
- Reduced power consumption thru out speed range while maintaining .97 or greater power factor

Product Offering

The Ampgard SC 9000 utilizes leading edge technology to deliver real world benefits:

- LED Keypad (Monitor/modify parameters and view running Values)
- 9000XDrive (Upload/ download parameters and other operator functions)
- 9000XLoad (Upload system, application, and optional card software)

Communications compatibility

- ModBus
- CanBus
- ProfiBus DP
- LonWorks
- CANopen
- DeviceNet

Powering Business Worldwide

Ampgard® SC 9000™
Medium Voltage Adjustable Frequency Drive

Standards

Eaton designs all Ampgard products, including the SC 9000, to the highest of standards:

- ISO 9001: 2000

Applications

The SC 9000's rugged design makes it the perfect choice for many speed control applications including harsh duty industries such as:

- HVAC
- Pulp and paper
- Petrochemical
- Water/waste water
- Utility
- Cement
- Minerals and mining

Specifications

Power Semiconductors	IGBT's, diodes
Line-side Converter	24-pulse diode rectifier
Inverter	Encapsulated IGBT power modules
Control	Sensorless closed-loop Fully digital signal processor
Power Section Isolation	Fiber-Optic Cable
Noise Level	75dB (A)
Efficiency	>96% (with integral transformer)
Service Duty	
Standard	110% for 1 min. every 10 min.
Optional	150% for 1 min. every 10 min.
Input Frequency	60Hz ±5%
Output Frequency	0-120Hz
Output Voltage	2400V/4160V
Speed Regulation	0.1% without tach feedback 0.02% with tach feedback
Power Loss Ride-through	5 cycles
Ambient Temperature	0 to 40°C
Altitude	0-3,300ft.

Eaton Corporation
Corporate Headquarters
1111 Superior Avenue
Cleveland, OH 44114-2584
United States
877-ETN-CARE (877-386-2273)
Eaton.com

© 2009 Eaton Corporation
All Rights Reserved
Printed in USA
Publication No. SA02004002E / 3PC
November 2009

Powering Business Worldwide