



AC Motor Controllers 24/36V/48V, 250 to 400A

The Nano series AC motor controllers are designed for use in a wide variety of low to medium power mobile applications including material handling, airport ground support, industrial, utility, and many other. The units are extremely compact and have been designed for the highest reliability. The small size and high efficiency of these controllers allows installation in compact spaces without degradation of performance.

Typical Applications

- Small warehouse lift truck applications
- Class III Stackers
- Utility vehicles for Ground Support Equipment
- Turf Equipment
- Aerial lifts

Additional Features

- Designed for highest reliability
- Integrated logic circuit
- Wide operating temperature range -40 to 85°C
- Fully compliant with CANopen
- Self characterization of motor
- Advanced flux vector control
- Sensorless control for select applications
- Autocheck - system diagnostics
- Hardware and software failsafe/watchdog operation
- 24V unit with built-in DC lift pump controller



Model N2425-P30 24V/250A with integral 300A DC pump controller



*Model N2440 24V/400A or
Model N4825 48V/250A*



Partner with Performance™



CANopen compliant

Nano comes standard with CANopen (CANopen profiles DS301, DS401 and DS402 are supported). This allows easy interconnection of controllers to each other and with other devices, such displays and driver controls. CANopen also allows the user to wire the vehicle to best suit him since inputs such as the throttle can be connected to any of the controllers on the vehicle and the demand value will be passed over the CANopen bus to the relevant motor control. Sevcon Drive Wizard provides the user with an intuitive and graphical method of configuring the data paths within the vehicle.

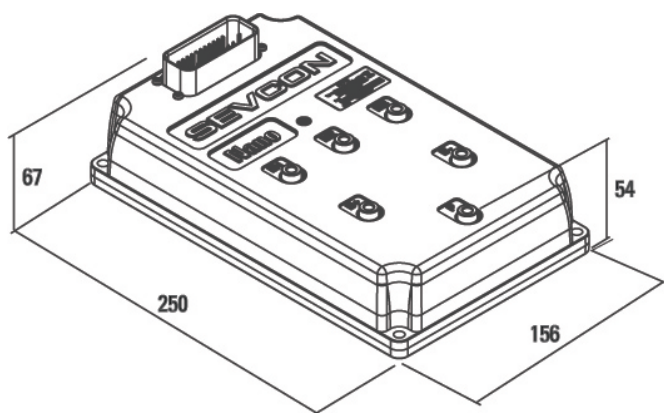
Enhanced integral I/O

Nano comes with a cost-effective, fully-integrated set of inputs and outputs (I/O) designed to handle a wide range of vehicle requirements. This eliminates the need for additional external I/O modules and connectors

Self-characterization of motor parameters

Sevcon's unique Self Characterization capability enables Nano to automatically define and optimize parameters for the connected AC motor. This feature provides quick set-up and allows customers to select motor suppliers of their choice without worrying about compatibility between controller and motor.

Dimensions



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Current ratings

| Model | AC | | DC | |
|-----------|-------|--------|-------|--------|
| | 1 min | Boost* | 1 min | Boost* |
| N2440 | 400 A | 450 A | n/a | n/a |
| N4825 | 250 A | 300 A | n/a | n/a |
| N2425-P30 | 250 A | 300 A | 300 A | 350 A |

*time for boost period is typically up to 10 sec duration

General Specifications

- 8 digital inputs
- 3 Analogue inputs, including 1 as a motor thermistor
- 7 contactor/solenoid drive outputs, 2A each
- Dual motor encoder input
- 10V or 5V output encoder supply output -100mA
- Sealed to IP66
- Ambient Operating Temperature: -30°C to +40°C
- Storage Temperature: -40°C to +70°C
- Designed to meet : EN1175-1:1998, ISO 3691, UL583 and ASME/ANSI B56.1 :1993



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