

AMCI *ADVANCED
MICRO CONTROLS INC.*

STEPPER MOTION

**AMCI NEXUS
Controllers**



Drives



Motors

www.amci.com

AMCI Motion Product Line

SOLUTIONS

AMCI has a variety of stepper motion solutions that have been proven to survive the industrial environment. Superior engineering design and quality manufacturing ensure a robust product that will perform reliably for many years. These new products are designed and built with the same focus; years of dependable service.

The new AMCI ControlLogix™ Stepper modules extend our family of Allen-Bradley plug-in solutions. The Nexus stepper controllers and the SD17098I provide high-level stepper/indexer control with a variety of network interfaces: ControlNet, Ethernet, and Profibus.

Nothing works better than a matched system. For guaranteed performance, check out our full line of stepper motors and drives. Connect any AMCI stepper motor to one of our high-performance stepper drives for the torque you need; year after year.



ControlLogix Stepper Controller Modules

The newest addition to our PLC module solutions is the Stepper Controller for the ControlLogix system. The 3202 module is a 2 axis controller with encoder verification and the 3204 is a 4 axis controller. Motion profile parameters include trapezoidal & S-curve acceleration, and blended move capability.

FEATURES:

2 or 4 axis controller in a single slot module

Encoder feedback for move verification is included on the 3202

Up to 1 MHz output pulse train

1 MHz for encoder pulses (250 kHz quadrature)



NEXUS Stepper Controller

Take advantage of the new powerful automation networks and connect the Nexus Stepper Controller to distribute your motion control solutions. ControlNet, Ethernet I/P and Profibus are currently supported. The NX1F2 is a 2 axis controller with encoder verification and the NX1F4 is a 4 axis controller.

FEATURES:

Encoder feedback for move verification is standard

Up to 250 kHz output pulse train

1 MHz for encoder pulses (250 kHz quadrature)

Differential outputs for low noise connection

Panel or DIN rail mounting



NEXUS Stepper Indexer/Controller

Combines a powerful 9.8 Amp Stepper Drive, a built-in indexer and an industrial network connection all in one unit. ControlNet, Ethernet I/P and Profibus are currently supported. Selectable current, step resolution and all configuration parameters and motion profiles are quickly sent to the unit over the network. This also allows the Drive to be located close to the motor for better performance.

FEATURES:

9.8 Amp Stepper Drive

Built-in Indexer/controller

Network connected, ControlNet, Ethernet I/P and Profibus

Digital I/O for external functions and logic outputs

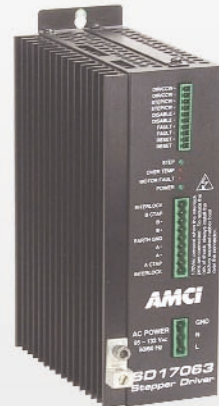
AMCI Motion Product Line

SD17063 Stepper Drive

A virtually bullet-proof drive with outstanding features. The 6.3 amps rms of output current and 170 V dc motor supply bus provides even the large size 42 motor with plenty of power. Readily accessible DIP switches are an integrated feature that enable easy motor current and microstepping selection.

FEATURES:

- Speeds up to 50 rps (3000 rpm)*
- 16 user-selectable step resolutions up to 50,800*
- Input frequency up to 2 MHz*
- 170 V bus*
- Output rms current up to 6.3 A, selectable in 0.1 A increments*
- Automatic current reduction*
- User-selectable output waveform for increased performance*
- Fault output for user diagnostics*



SD17040 Stepper Drive

The SD17040 has the ability to interface to any controller that produces step and direction or clockwise/counter-clockwise pulses. This self-contained stepper drive has its own power supply, full and half step sequencer, two switching amplifiers, and optoisolation circuits. Phase current and full or half step motion are selected by a series of DIP switches accessible on the top of the SD17040.

FEATURES:

- Speeds up to 50 rps(3000RPM)*
- Full or half step motion*
- 170 V dc motor bus*
- Output current – 0.9 A to 4.0 A selectable with DIP switches in 0.1 A increments*
- Amplifier disable input*
- Fault output*
- 0% or 50% idle current*

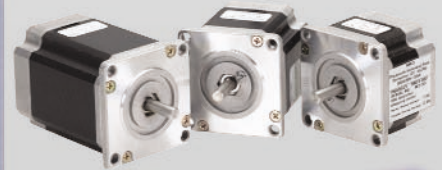


Stepper Motors

Our stepper motors generate the highest torque, greatest speed and best reliability the industry offers. Take a closer look at any of our (3) motor sizes and you will appreciate the attention to detail, build quality, and drive-to-motor compatibility that this product family offers.

FEATURES:

- Available in NEMA 23, NEMA 34, and NEMA 42*
- Designed for 170 V operation*
- 1000 line encoder feedback available*
- 10 ft. shielded cable included*



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