AMCI products are uniquely designed to provide the best PLC integration available. Unlike other products that require a separate software package for configuration or operation, AMCI’s PLC-based products are programmed using your PLC’s software - nothing new to buy or learn! Our expertise with the leading PLC manufacturers is unmatched when it comes to high performance Motion Control technology.

**Programming**

**Embedded Switch** - The embedded switch provides a network connection for additional axes of motion without increasing the nodes on your existing ethernet switch. DLR topology for EtherNet/IP provides a fault tolerant connection that can detect a break in the network and redirect the network traffic maintaining communication and system uptime.

**Native Software** - Programming is performed by the same software used to configure your host PLC/PAC, eliminating the need to learn new software and/or language foreign to your controls environment. The results are seamless integration, intuitive troubleshooting, and valuable time savings.

- Use your PLCs native software
- No new software to buy or learn
- Tightest integration available

**Available Networks** - Choose from the following networks (shown on the right)

**Resources**

AMCI provides a myriad of resources on their website in an effort to provide the best PLC integration possible. Available resources include configuration files, sample programs, 2D & 3D drawings, User-Defined Function Blocks (UDFB's), Add-On Instructions (AOI's), informative webinars & tutorials, and much more.

**Resources Include**

- Configuration Files (EDS)
- Sample Programs
- 2D & 3D Drawings
- Webinars & Tutorials
- and much more...
SMD Series At-A-Glance

Advances in motor and drive technology have enabled smarter, more affordable PLC-based automation. AMCI’s SMD Series integrated stepper motors provide a motion control solution that is designed to streamline the proposal, installation, and commissioning of your motion axis. For over 10 years, AMCI has been engineering integrated motion technologies that fill a gap in the market like no other product.

**SMD17E2**

- **Input Voltage:** 24 to 48 Vdc
- **Motor Current:** 2.0 Amp/phase
- **Package Size:** NEMA 17
- **Holding Torque:** 80 oz-in torque
- **Encoder:** Incremental or Absolute

**SMD23E2 & SMD24E2**

- **Input Voltage:** 24 to 48 Vdc
- **Motor Current:** 3.4 Amp/phase
- **Package Size:** NEMA 23 or 24
- **Holding Torque:** 130 oz-in to 350 oz-in
- **Encoder:** Incremental or Absolute

**SMD34E2**

- **Input Voltage:** 24 to 80 Vdc
- **Motor Current:** 5.4 Amp/phase
- **Package Size:** NEMA 34
- **Holding Torque:** 450 oz-in to 1100 oz-in
- **Encoder:** Incremental or Absolute
What’s Inside the SMD?

We take the drive and motor out of the cabinet and put them right on the motor, reducing wiring and system costs.

We manufacture and 100% test all SMD Series products in-house to ensure reliability and the fastest turnaround.

SMD24E2-350
Stepper Motor
- High Torque
- NEMA Sizes 17 to 34

SMD34E2-1100
Stepper Motor
- High Torque
- NEMA Size 34

Stepper Controller
- Fully Programmable

Stepper Drive
- DC-Powered
- 2.0 - 5.4 Amp

Modbus

EtherNet/IP

What’s Inside the SMD?

We take the drive and motor out of the cabinet and put them right on the motor, reducing wiring and system costs.

We manufacture and 100% test all SMD Series products in-house to ensure reliability and the fastest turnaround.
Integrated motors benefit many different industries including:

- Medical
- Pharmaceutical
- Life Sciences
- Lab Automation
- Imaging
- Printing
- Packaging
- Material handling
- Labeling

**Industries**

**Features**

All of AMCI’s SMD Series packages offer the following options:

- Encoder: Incremental or Absolute Multi-turn
- Connector: M12
- Protection: IP50, IP64, or IP67*
- *IP67 not available with NEMA 17
- Embedded Switch
  - EtherNet/IP supports Device Level Ring (DLR)

**Compact Size**

Integrated motors provide a single compact unit for measurable space savings that can reduce the size of your machine footprint.

**Benefits**

- full torque at rest
- no tuning required
- smooth motion
- cost effective
- real time control
- excellent repeatability
- low maintenance

**Application Examples**

**Rapid Changeover**

The low cost of the SMD Series provides a path for automating manual operations without the high cost of other motion solutions.

**Packaging**

The SMD Series is a great choice for the simple, repetitive motion profiles of packaging applications. Plus, benefit from plug and play PLC integration that cannot be matched.

**Vision Systems**

The SMD Series’ microstepping delivers precise positioning and full torque at rest. This eliminates the dither present in other motion solutions for crisp, repeatable imaging.

**Medical Equipment**

The SMD Series supplies loads of power for tight spaces. The compact design eliminates the separate drive and controller reducing cabinet space.
Delivering a Complete Solution

AMCI’s selection of gearboxes, connectors, and approved cord sets simplify the ordering process and guarantee 100% compatibility.

Available Accessories:
- Gearboxes (not avail with NEMA 17)
- Cord sets
- Connectors

## Ordering Information

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<th>Part Number Character</th>
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