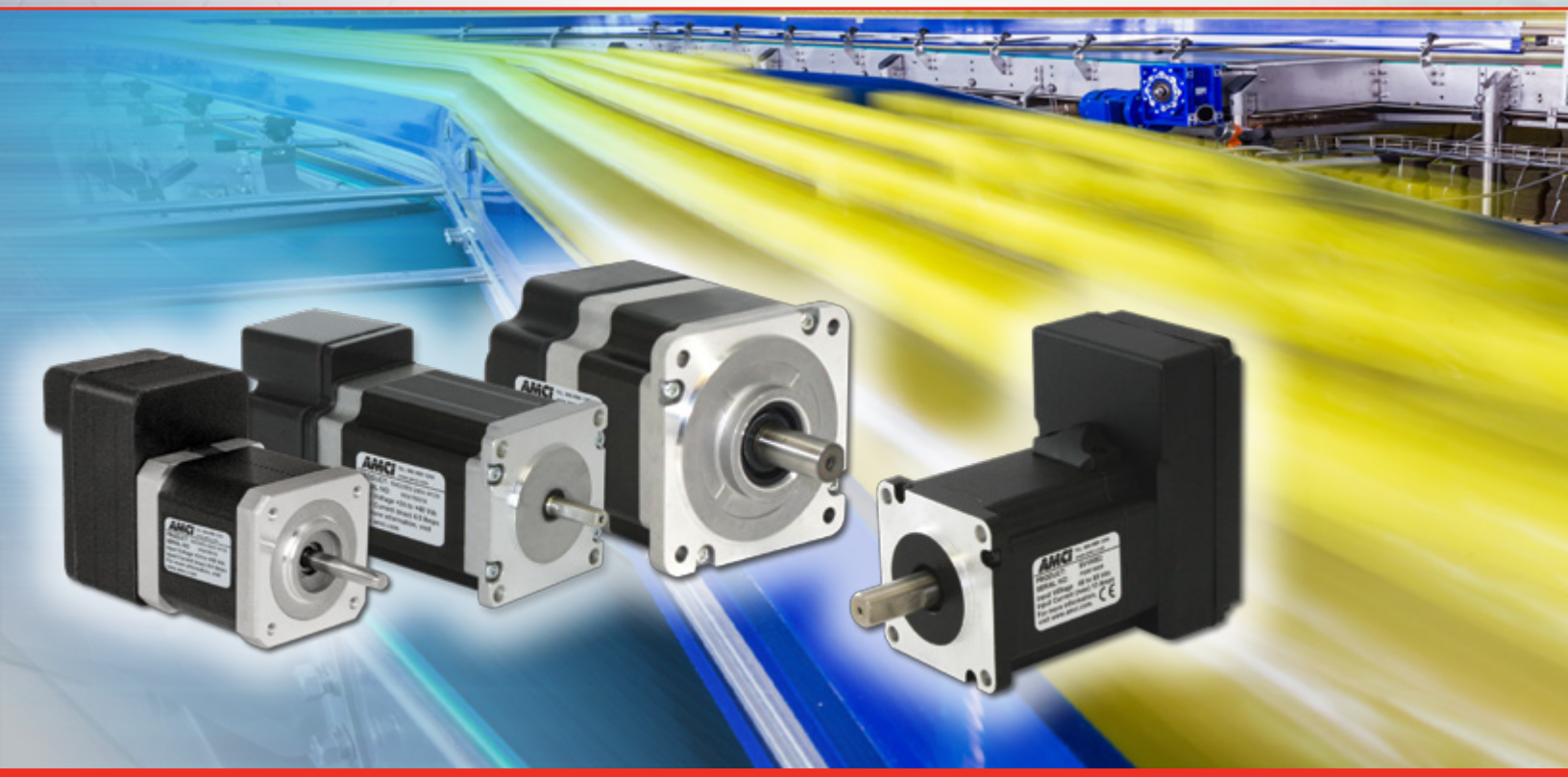
Integrated Motor Packages

3-in-1 Motor + Drive + Controllers



EtherNet/IP™ Modbus PROFINET EtherCAT®

AMCI ADVANCED MICRO CONTROLS INC.

www.amci.com

PLC-Based by Design

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.

Network Features

Dual-Port Networking - An embedded network switch simplifies product daisy chaining, adds flexibility to any network architecture, and supports redundant protocols like DLR (device level ring) and MRP (media redundancy protocol).

Web Server - A quick and simple screen allows you to select your network type and configure your IP address

Native Software - Programming is performed by the same software used by 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

EtherNet/IP Modbus EtherCAT PROFINET

Resources

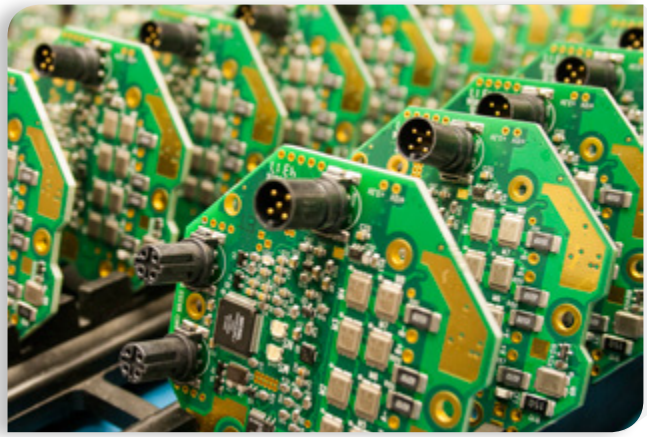
AMCI provides a myriad of resources on their website in an effort to provide the best PLC integration possible. Available resources include configuration files, sample programs, 2D & 3D drawings, User-Defined Function Blocks (UDFB's), Add-On Instructions (AOI's), informative webinars & tutorials, and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

Resources Include

- Configuration Files (EDS, GSDML)
- Sample Programs
- 2D & 3D Drawings
- Webinars & Tutorials
- and much more...

Integrated Motors At-A-Glance

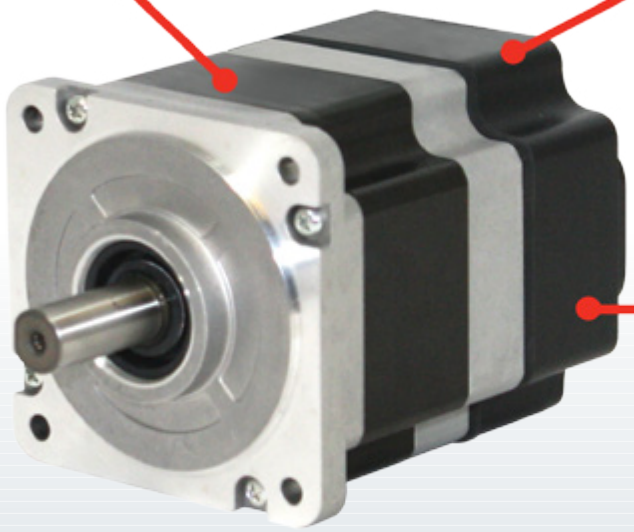
Advances in motor and drive technology have enabled smarter, more affordable PLC-based automation. AMCI's integrated stepper and servo motor packages provide a motion control solution that is designed to streamline the proposal, installation, and commissioning of your motion axis. For over 10 years,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



We manufacture and 100% test all integrated motors in-house to ensure reliability and the fastest turnaround.

Motor
Stepper or Servo

Controller
Fully Programmable



Drive
DC-Powered

EtherNet/IP

Modbus

PROFINET

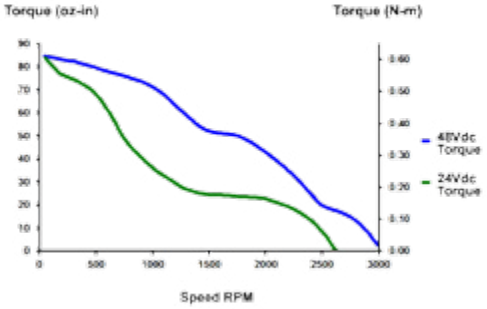
EtherCAT

Integrated Stepper Motors

SMD17X

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

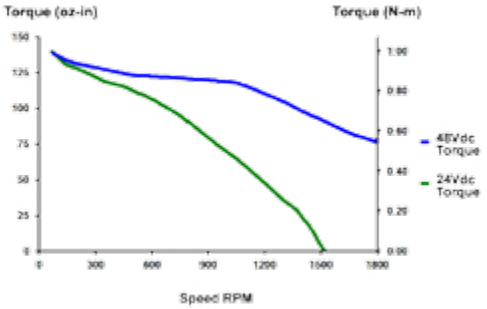
SMD17X-80



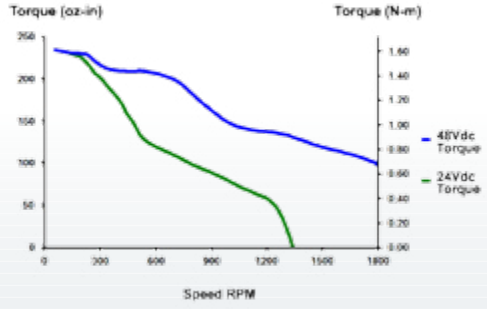
SMD23X & SMD24X

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

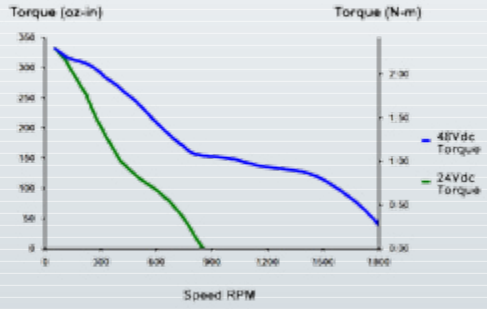
SMD23X-130



SMD23X-240



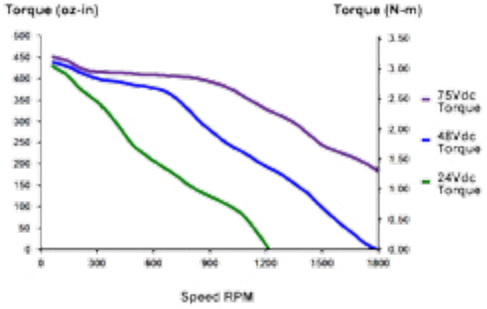
SMD24X-350



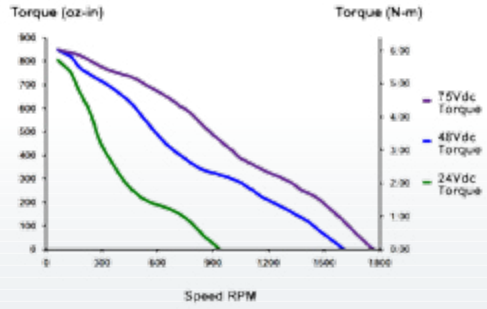
SMD34X

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

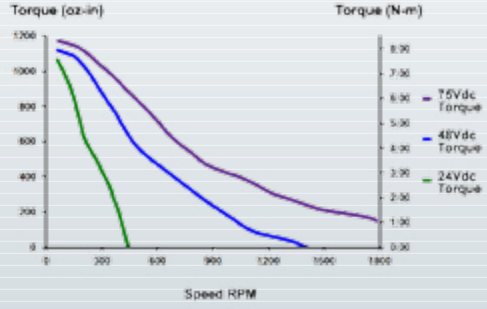
SMD34X-450



SMD34X-850



SMD34X-1100

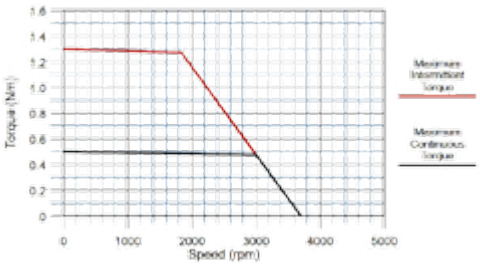


Integrated Servo Motors

SV160X

Input Voltage: 48 to 80 Vdc
Motor Current: 10.5 Amps Peak
Package Size: 60 mm
Torque: 0.5 Nm Continuous
1.3 Nm Peak
Encoder: Absolute

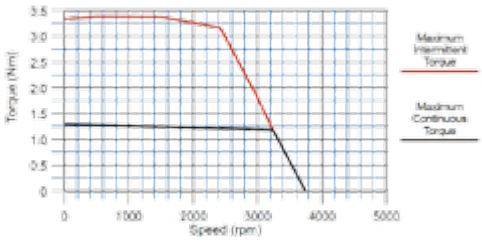
SV160X



SV400X

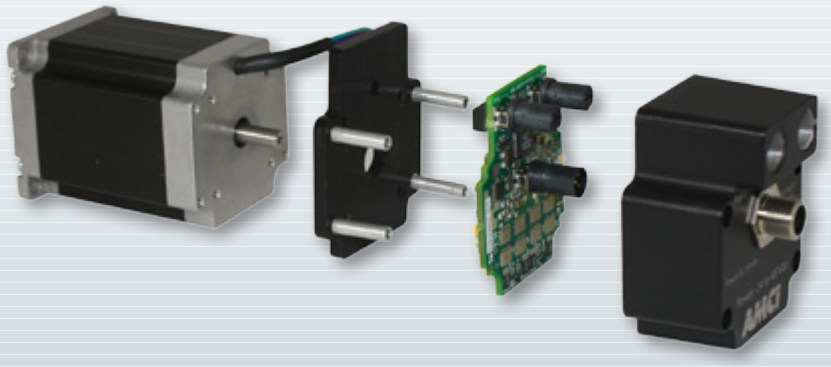
Input Voltage: 48 to 80 Vdc
Motor Current: 25.7 Amps Peak
Package Size: 60 mm
Torque: 1.3 Nm Continuous
3.5 Nm Peak
Encoder: Absolute

SV400X



What's Inside Our Integrated Motors?

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



Features

All of AMCI's integrated motor packages offer the following options:

- Encoder: Incremental* or Absolute Multi-turn
- Connector: M12
- Protection: IP50, IP64, or IP67*
  **only available with integrated stepper (not servo)*
- Embedded Switch
  - EtherNet/IP supports Device Level Ring (DLR)
  - Profinet supports Media Redundancy Protocol (MRP)

Compact Size

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

Industries

Integrated motors benefit many different industries including:

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

Benefits

- full torque at rest
- smooth motion
- cost effective
- real time control
- excellent repeatability
- low maintenance

Application Examples

Rapid Changeover

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

Packaging

Integrated motors are 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.

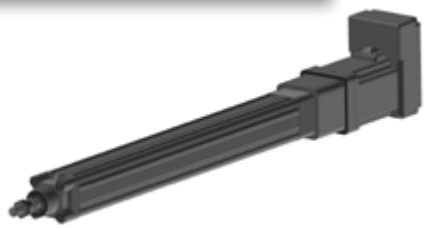
Medical Equipment

Integrated motors supply loads of power for tight spaces. The compact design eliminates the separate drive and controller reducing cabinet space.

What's New At AMCI

Transform your factory with AMCI's space-saving, energy-improving integrated motors paired with linear actuators that provide guaranteed compatibility.

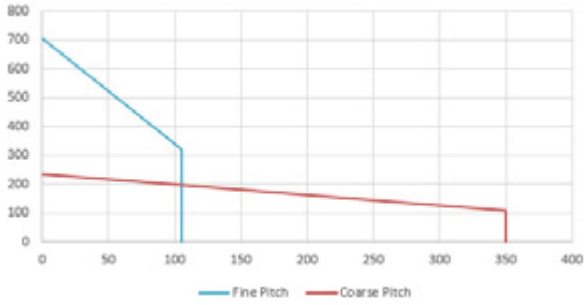
L3 Series Actuator



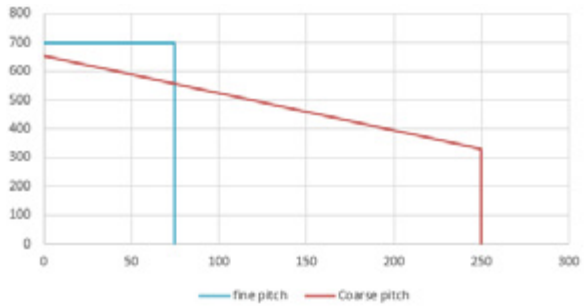
Input Voltage: 48 Vdc

Actuator Pitch
Coarse Pitch: 10mm I Fine Pitch: 3mm

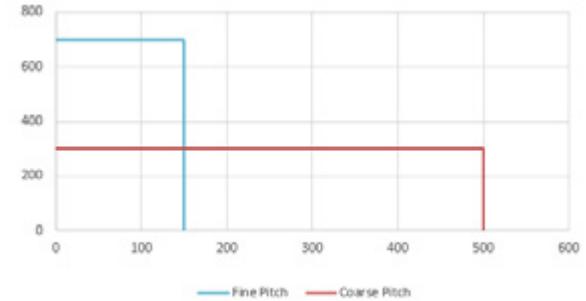
SMD17X-80-L3
Force (N) vs Speed (mm/s)



SMD23X-240-L3
Force (N) vs Speed (mm/s)



SV160X-L3
Force (N) vs Speed (mm/s)

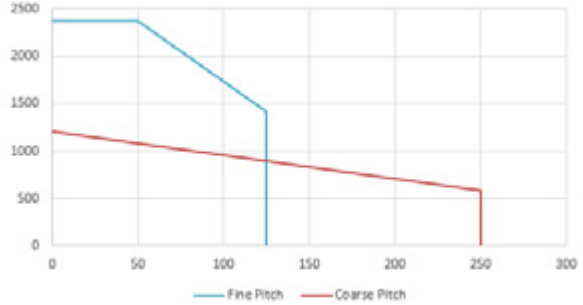


L4 Series Actuator

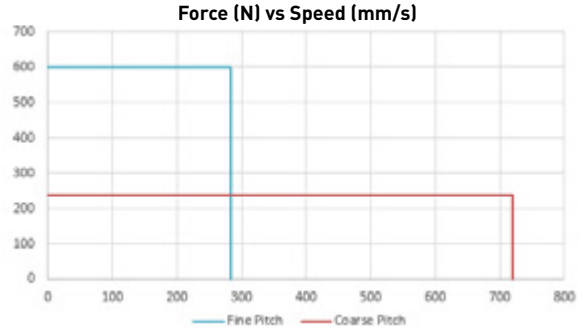
Input Voltage: 48 Vdc

Actuator Pitch
Coarse Pitch: 12.7mm I Fine Pitch: 5mm

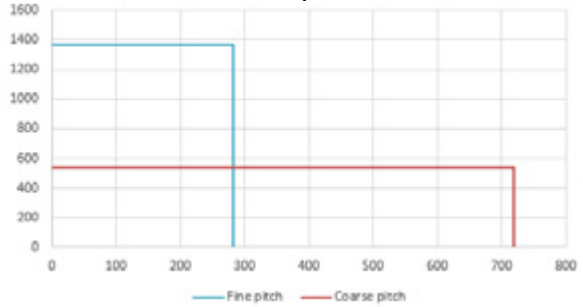
SMD34X-450-L4
Force (N) vs Speed (mm/s)



SV160X-L4
Force (N) vs Speed (mm/s)



SV400X-L4
Force (N) vs Speed (mm/s)



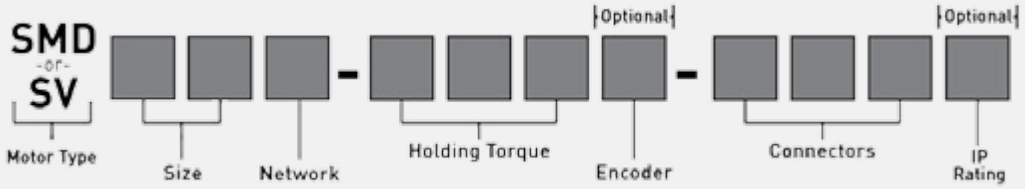
Delivering a Complete Solution

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

Available Accessories:

- Linear Actuators
- Gearboxes
- Cord sets
- Connectors

Ordering Information



Stepper		
Motor Type	**SMD = Integrated Stepper Motor Package**	
Size	**17** = NEMA size 17 **23** = NEMA size 23	**24** = NEMA size 24 **34** = NEMA size 34
Network	**E2** = EtherNet/IP, Modbus-TCP, and Profinet w/Embedded Switch **K** = EtherCat w/Embedded Switch	
Holding Torque	**80** = 80 oz-in torque rating (NEMA 17) **130** = 130 oz-in torque rating (NEMA 23) **240** = 240 oz-in torque rating (NEMA 23) **350** = 350 oz-in torque rating (NEMA 24)	**450** = 450 oz-in torque rating (NEMA 34) **850** = 850 oz-in torque rating (NEMA 34) **1100** = 1100 oz-in torque rating (NEMA 34)
Encoder	**E** = Incremental encoder **A** = Absolute multi-turn encoder *blank = no encoder*	
Connectors	**M12** = M12 connectors	
IP Rating	**P** = IP67 rating **S** = IP64 rating *blank = IP50 rating* (not available with NEMA 34)	

Servo		
Motor Type	**SV = Integrated Servo Motor Package**	
Size	**160** = 160 watt	**400** = 400 watt
Network	**E2** = EtherNet/IP, Modbus-TCP, and Profinet w/Embedded Switch	

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