

Networked Stepper Drives

Integrated Drive + Controllers

Advances in controller and drive technology have enabled smarter, more affordable PLC-based automation. AMCI's integrated stepper drives provide a motion control solution that is designed to streamline the proposal, installation, and commissioning of your motion axes. These AC powered networked drive/controllers provide a feature-rich solution with a narrow, compact design and versatile mounting options.

These cost-effective integrated stepper drives are programmed directly from the PLC using the PLC's native software (eg. Logix commands through RSLogix500, Studio 5000, Unity Pro) so there is no other software to learn or buy. For over 20 years, AMCI has been a trusted source of stepper motion control products for those using Allen-Bradley, Schneider, Omron, Siemens, and other PLCs, filling a gap in the market like no one else.



Features at a Glance

Reduce System Costs: Integration reduces stepper control system costs by eliminating the need for a separate stepper controller in your PLC - we've built the controller into the drive.

Built-in Ethernet Switch: The embedded switch provides a network connection for additional devices and eliminates the need for an external ethernet switch.

Dual Port Networking: Dual port networking offers DLR for EtherNet/IP & MRP for Profinet. Benefit from a fault tolerant connection that can detect a break in the network and redirect the network traffic maintaining communication and system up-time.

Programming is Easy: 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!

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Networked Drives At-A-Glance

SD17060E2



SD31045E2



Specifications

Network Availability



E2 Technology

EtherNet/IP, Modbus-TCP & Profinet
w/Embedded Switch

Supply Voltage

95-132 Vac, 50/60 Hz, 10 Amps Max.

95-264 Vac, 50/60 Hz, 10 Amps Max.

Auxiliary Inputs (3)

Programmable differential optically isolated inputs
Off State Voltage: 0 to 1.5 Vdc
On State Voltage: 3.3 to 27 Vdc

Fault Output

Open collector/emitter
30 Vdc max & 20 mA max

Current Rating

6.0 Arms (average) / 8.5 A (peak)

4.5 Arms (average) / 6.4 A (peak)

Available Commands

- Both networked drive models available with:
- Absolute Move
 - Relative Move
 - Hold Move
 - Resume Move
 - Immediate Stop
 - Homing
 - Jogging
 - Registration Move
 - Indexed Move
 - Blend Moves
 - Reset Errors
 - Preset Position
 - Preset Encoder Position
 - Electronic Gearing (when configured to use quadrature encoder)

Motor Step per Revolution Resolution

Programmable to any value between 200 and 32,767 steps per revolution

Output Current

1.0A - 6.0A rms selectable in 0.2 amp increments, programmable

1.0A - 4.5 A rms selectable in 0.2 amp increments, programmable

Idle Current

0% to 100% after 1.5 seconds without a step

Motor Connections

Eight lead series or parallel, six lead series or center tapped, or four lead motors using a four pin motor connector.

Device Level Ring (DLR)



AMCI's integrated network drives are designed with a built-in Ethernet switch. The embedded switch provides a network connection for additional axes of motion without increasing the nodes on your existing ethernet switch. DLR topology provides a fault tolerant connection that can detect a break in the network and redirect the network traffic maintaining communication and system uptime.

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940-8SD11

08/17