

# 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.

Designed to provide the best PLC integration possible, these cost-effective integrated stepper drives are programmed directly from your PLC using the PLC's existing software, 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.

**DLR (Device Level Ring):** DLR topology provides a fault tolerant connection that can detect a break in the network and redirect the network traffic maintaining communication and system up-time. (EtherNet/IP version)

**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

#### SD17060 Networked Series



#### SD31045 Networked Series



### Specifications

<b>Network Availability</b>	<ul style="list-style-type: none"> <li>- EtherNet/IP &amp; Modbus-TCP w/Embedded Switch</li> <li>- Profinet w/Embedded Switch</li> <li>- Profibus</li> </ul>	
<b>Supply Voltage</b>	95-132 Vac, 50/60 Hz, 10 Amps Max.	95-264 Vac, 50/60 Hz, 10 Amps Max.
<b>Auxiliary Inputs (3)</b>	Programmable differential optically isolated inputs Off State Voltage: 0 to 1.5 Vdc On State Voltage: 3.3 to 27 Vdc	
<b>Fault Output</b>	Open collector/emitter 30 Vdc max & 20 mA max	
<b>Current Rating</b>	6.0 Arms (average) / 8.5 A (peak)	4.5 Arms (average) / 6.4 A (peak)
<b>Available Commands</b>	Both networked drive models available with: <ul style="list-style-type: none"> <li style="width: 50%;">-Absolute Move</li> <li style="width: 50%;">-Indexed Move</li> <li style="width: 50%;">-Relative Move</li> <li style="width: 50%;">-Blend Moves</li> <li style="width: 50%;">-Hold Move</li> <li style="width: 50%;">-Reset Errors</li> <li style="width: 50%;">-Resume Move</li> <li style="width: 50%;">-Preset Position</li> <li style="width: 50%;">-Immediate Stop</li> <li style="width: 50%;">-Preset Encoder Position</li> <li style="width: 50%;">-Homing</li> <li style="width: 50%;">-Electronic Gearing (when configured to use quadrature encoder)</li> <li style="width: 50%;">-Jogging</li> <li style="width: 50%;">-Registration Move</li> </ul>	
<b>Motor Step per Revolution Resolution</b>	Programmable to any value between 200 and 32,767 steps per revolution	
<b>Output Current</b>	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
<b>Idle Current</b>	0% to 100% after 1.5 seconds without a step	
<b>Motor Connections</b>	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 available 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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