

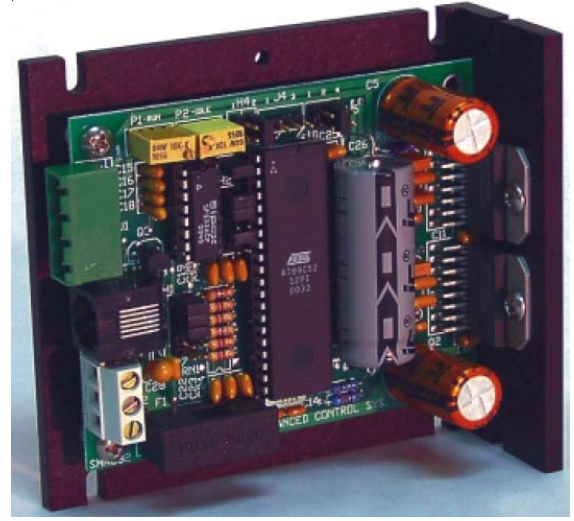


SMC-32A

Serial Machine Controller

Ministepping Integrated Driver/Controller

The **Advanced Control Systems** SMC-32A Serial Machine Controller is a cost effective solution for the drive and control of any stepping motor driver machine. The SMC-32A is controller by a host computer using simple ASCII commands. The SMC-32A generates constant stepping rates as well as trapezoidal type velocity profiles. Acceleration, deceleration and top speed are all programmable. The SMC-32A supports two limit inputs and home position inputs and is designed to operate reliably in adverse industrial environments. Several SMC-32A Driver/Controllers can be interconnected and controlled by a single communications port for multi-axis operation.



SMC-32A Features

- Adjustable Motor Winding Current
0.125 - 3.00 Amps/Phase
- Adjustable Idle Current Reduction
- Motor Current Shut Off Switch
- Five Address Inputs - 0 to 31 Address Range
- Home, Limit +, Limit - Control Inputs
- Manual Jog Control Inputs
- RS-232 Serial Communications up to 57.6k Baud
- Inputs/Outputs - TTL/TTL 20mA Sink
- Byte Structure - 10 Bit ASCII Characters; Start Bit, 8 Data Bits, Stop Bit, No Parity
- Nonvolatile Memory For Operational Variables

SMC-32A Specifications

Electrical

- Drive Current - 0.125 - 3.00 Amps/Phase - Trim Pot Adjustable
- Logic Power Supply - 5VDC Input +/- 5% @ 50mA Typical
- Motor Power Supply - 12 to 40VDC @ up to 2Amps
- Idle Current - 0 to 3.00Amps/phase - Trim Pot Adjustable

Motor Requirements

- 2-Phase Bi-Polar Stepping Motors, or
- 4-Phase Motors Connected as 2-Phase
- 4, 6 or 8 Leads
- 0.125 - 3.00Amp Winding Current

Motor Operating Mode

- Bi-polar Chopper Drive
- Full Step; 2 Phases On
- Full Step; 1 Phase On
- 2,3,4,5,6 or 8 Ministeps per Full Step

Environmental Requirements

- Operating Temperature -28C to 60C (-20F to 140F)
- Storage Temperature -95C to 71C (-40F to 160F)
- Humidity <95% Non-Condensing

Dimensions

- 4.0 x 3.65 x 1.5" (100 x 93 x 38mm)

Mass

- 8.7oz. (0.25kg.)

