

Si3540

AC Microstep Drive w/ Si Programming



Product Features

- *Si Programmer™ compatible indexer/drive*
- *AC input 110V or 220V switch selectable, 50-60 Hz*
- *DC bus voltage 35 VDC full load, 40 VDC nominal*
- *Software selectable motor current from 0.2-3.5 amps/phase*
- *Software selectable microstep resolution and idle current reduction*
- *Eight optically isolated digital inputs*
- *Four optically isolated digital outputs*
- *RS-232 for PC/MMI communications*
- *Pluggable screw terminal connectors*
- *Dual MOSFET H-bridge, 3 state, pulse width modulated amplifier switching at 20-30 kHz*
- *Ideal for 4, 6 or 8 leaded step motors NEMA sizes 11, 14, 17 and 23*
- *Optional operator interface (MMI) allows users to enter specific motion parameters*
- *SCL mode for streaming serial commands from host controller*



Description

The Si3540 is a programmable stepper drive/indexer packaged in a rugged steel case. Integral heat sink, mounting brackets, and mating connectors are included with each drive. The Si3540 is recommended for use with NEMA 11, 14, 17, and 23 frame motors and comes with all operating software necessary to create a complete stepper motion solution.

The Si3540 includes our Si Programmer™ software for quick set up and easy programming. Si programming is ideal for stand-alone operation. For more experienced users with software development expertise, the Si3540 also operates in SCL mode, which permits controlling the drive and motor by streaming serial commands from a host PC or PLC, thus allowing the user to command all drive functions from the host software application.

Multiple axis applications are handled by our SiNet™ Hub multi-axis controllers and the SiNet Hub Programmer™ software application, which give users the ability to control up to 8 drives from a single program. You can also use our MMI operator interface to allow machine operators to enter specific motion parameters.

Factory set for 110 VAC operation, the Si3540 can be set by the user for 220 VAC operation with a single switch. Pluggable screw terminal blocks are provided for I/O, motor, and AC power connections. Mating connectors, programming cable, and software are provided with each drive.

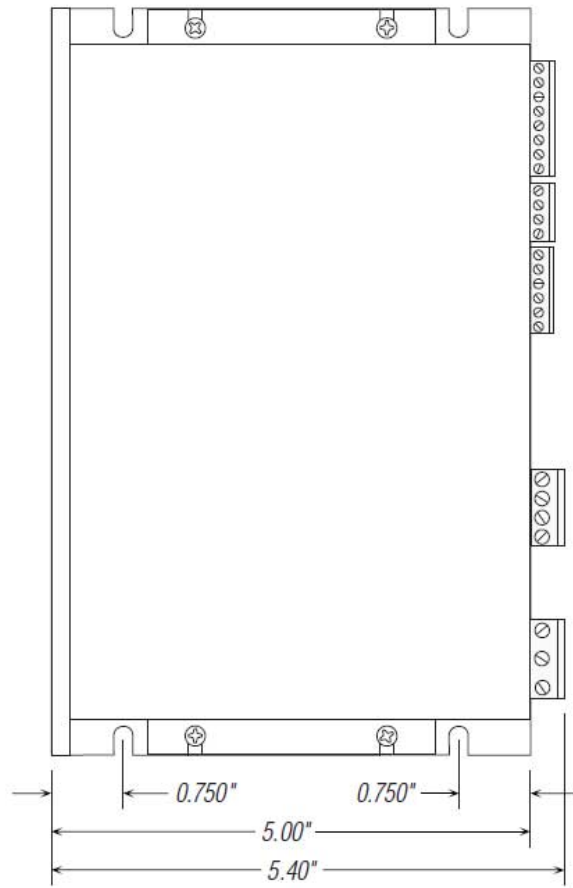
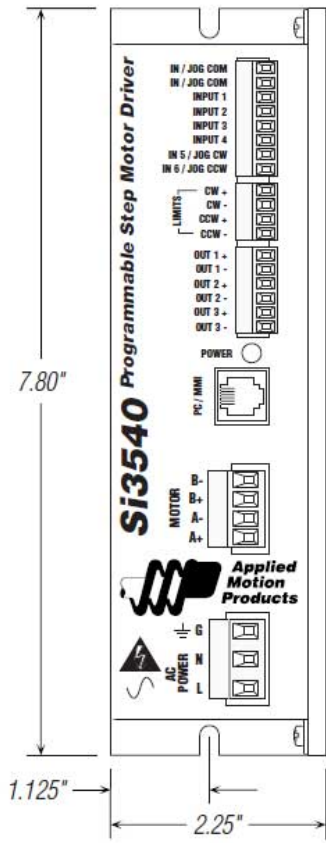
Specifications

Model Number	Si3540
Part Number	5000-046
Supply Voltage	110/220 VAC
Supply Voltage Type	AC
Control Modes	<ul style="list-style-type: none">• Streaming Commands• Si Programming• SiNet Hub Compatible
Output Current	0.2-3.5 A/phase
Communication Ports	<ul style="list-style-type: none">• RS-232
Encoder Feedback	No
Step Resolution	<ul style="list-style-type: none">• Microstepping
Idle Current Reduction	0, 25, 50 or 100%
Setup Method	Software setup
Digital Inputs	8
Digital Outputs	4
Analog Inputs	NA
Dimensions	7.8 x 5.0 x 2.25 inches
Weight	64 oz
Operating Temperature Range	0-70 °C
Ambient Temperature Range	0-50 °C
Ambient Humidity	90% max, non-condensing
Status LEDs	1 red (power)
Circuit Protection	NA

Software

Software Downloads	<ul style="list-style-type: none">• SCL Utility• Si Programmer™
Sample Code	<ul style="list-style-type: none">• scldemo.zip

Mechanical Outline



Mechanical Outline - Optional MMI

