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Find the *Tolomatic Axidyne MSS* at our website: *Click HERE*

Axidyne® MSS Microstepping Controller/Drive

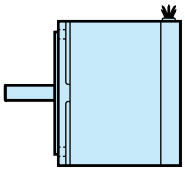
FEATURES / SPECIFICATIONS



Tol-O-Matic's MSS stand-alone microstepping controller/drive system is absolutely the simplest and most cost-effective way to provide single axis motion to Tol-O-Matic's stepper motor/actuator systems. The Tol-O-Motion™ MSS software allows sophisticated programming to be achieved by even the most novice user, through icons arranged in a simple, easy to follow format. Once programmed over the RS232 the PC may be removed and program interaction achieved through I/O or the PIT (Panel Mount User Interface).

COMPATIBILITY:

SYSTEM:	STEPPER
MOTORS:	MRS
DRIVE:	MSD MSS
CONTROLLER:	MSS
INTERFACE:	PIT



MSS FEATURES

- Motor Current: 0.5 to 5.5 amps/phase, (software selectable)
- Drive Voltage: 80 Vdc (from internal linear, toroidal power supply)
- Input Voltage: 115 or 230 Vac (switch selectable)
- Microstep Resolution: 13 resolutions, 2000 to 50800 steps/revolution (software selectable)
- Automatic idle current reduction: 0%, 25%, 50% or 100% (software selectable)
- Connectors: pluggable, screw terminal connectors are included.
- Two optically isolated limit switch inputs can be used as inputs, (7 - 8)
- CW and CCW jog inputs can be used as inputs, (5 - 6)
- Four general purpose, opto-isolated inputs
- Drive fault output (activated by overcurrent or over-temperature condition)
- 3 general purpose, optically isolated outputs for interfacing to other equipment
- Uses Tol-O-Motion MSS Software with absolute positioning, single-step program execution
- CE compliant

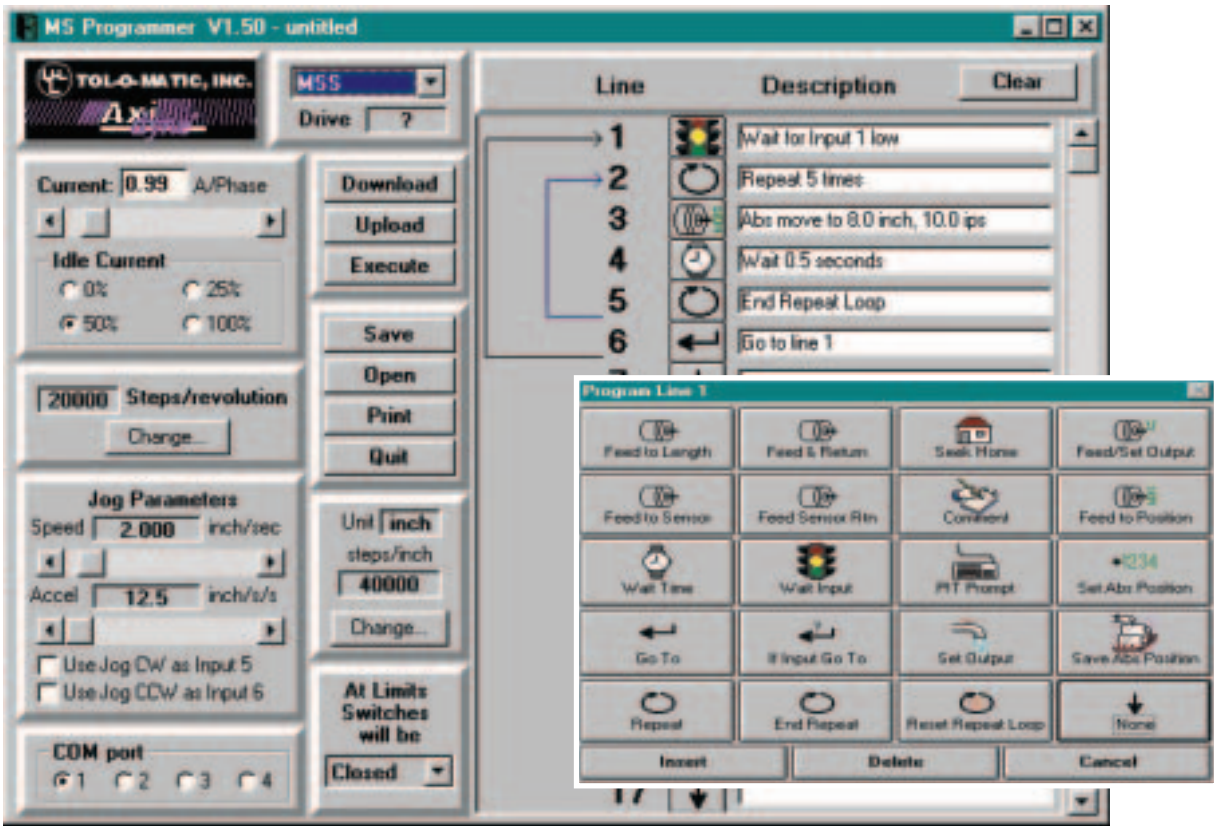
MSS SPECIFICATIONS

Power	
	Input Current (AC line): Varies with motor & load
	6.0A max. at 115 Vac
	Input Voltages (AC line): 115 or 230 Vac, 50-60Hz (switch selected)
	Input Fuses
	(AC line):6.3A time lag, TR5 style
	Motor Current Output: 0.5 - 5.5 A / phase peak
	Internal Bus Voltage: 80 Vdc (unregulated)
Parameter Ranges	
	Distance:1 to 16,000,000 steps
	Speed:.025 to 50 revolutions per second (in any microstep resolution)
	Acceleration:1 to 3000 rev/sec/sec (limited by accel torque)
	Deceleration:1 to 3000 rev/sec/sec (set independently from acceleration, limited by decel torque)
	Time Delays:0.1 to 25.5 seconds
	Microstep Resolution: 2000-50800 steps/rev
Inputs*	
	Input 1-4,Optically isolated, 5 - 24 Vdc, 20 mA max CW Jog, CCW Jog:2200 Ohms internal resistance
	CW Limit, can be configured for sinking (NPN)
	CCW Limit:or sourcing (PNP) signals.
Outputs*	
	Outputs 1-3:Optically isolated, 24 Vdc max, 100mA
Environment	
	Maximum Case Temp.: 167° F (75° C)
	Ambient Temp. Range: 32° to 113° F (0 to 45° C)

**** NOTE: External 5-24 Vdc power supply required for operation.***

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MSS PROGRAMMING SOFTWARE



Main Programming Screen

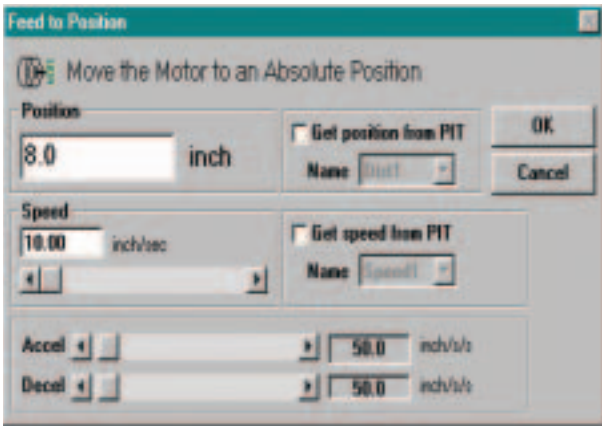
Programmable by RS232 connection to a PC running Windows 95, 98, NT, 2000 or XP. Programming software and cable included. Programming is very easy to learn and requires no previous programming experience.

Programs can be up to 100 lines long. Instructions are powerful, so 100 lines can provide the user with a sophisticated program. For example, in one program line the motor can be moved until a sensor changes state, then fed a precise distance to stop, delayed and returned to the starting point. Distances, delays, feed and return speeds, acceleration and deceleration parameters are all included in the single program instruction. The same move can take 10 program lines or more on other indexers. There are a total of 16 different instructions, including input/output, branches, loops and motion commands. These instructions can be combined to make a nearly infinite variety of programs, meeting the demands of a wide range of applications.

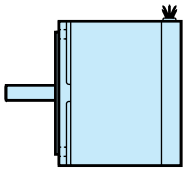
The main programming screen is shown above. On the right of the screen are the 100 program lines. In the center are command buttons and on the left are global parameters such as microstep resolution and jog. Clicking on a program step icon brings up a sequence of dialog boxes, making program selection and parameter setting easy.

Once programmed, the cable can be removed and the indexer-drive will run stand alone. Programs and parameters are stored internally in non-volatile memory. Upon power up, the drive automatically senses the connection to the Windows programming software. If no connection is detected, the program is automatically executed starting on line 1.

The MSS also allows program interaction to take place using the PIT user interface.



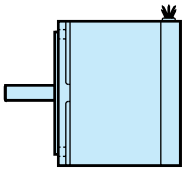
Dialog box for setting Feed to position

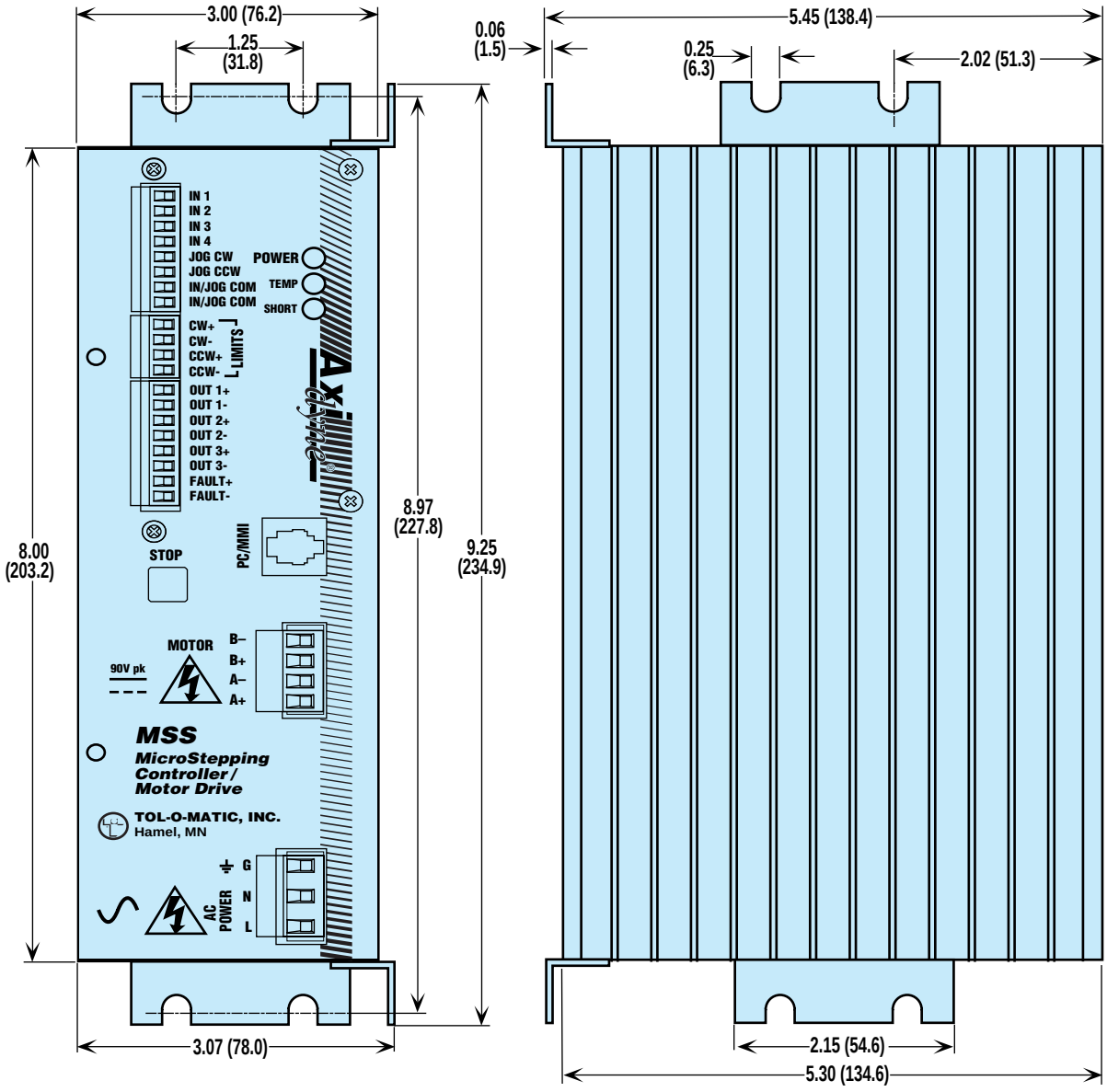


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DIMENSIONS

MSS MICROSTEPPING CONTROLLER/DRIVE





Unless otherwise noted, all dimensions shown are in inches (Dimensions in parenthesis are in millimeters)

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