

TSM23S/Q

Integrated Step Servo Motor

920-0074B

Quick Set-Up Guide

Requirements

You will need these items to set-up the TSM23S/Q:

- A 12 - 70 volt DC power supply.
- a small flat blade screwdriver for tightening the connectors (included)
- a PC running Microsoft Windows XP, Vista, or Windows: 7/8/10/11
- Software: Step-Servo Quick Tuner
- a programming cable (included)

Connect the Power Supply

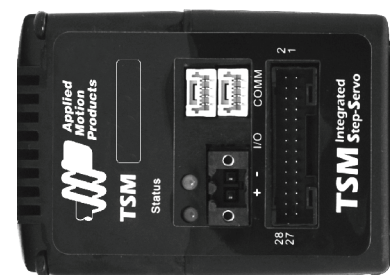
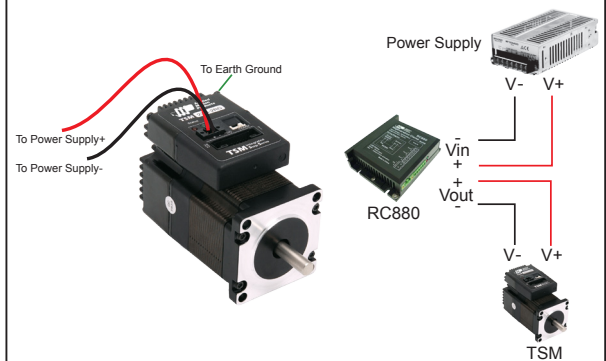
- Connect the power supply "+" terminal to the drive "+" terminal & the power supply "-" terminal to the drive "-" terminal using 16 to 20-gauge wire.
- Be careful not to reverse the wires. Reversing the connection may open the internal fuse and void the warranty.
- If a regulated power supply is being used, there may be a problem with regeneration that can be solved with the use of an Applied Motion Products RC880 Regeneration Clamp. Please see the Applied Motion Products web website or the TSM23S/Q Hardware Manual for more information.

Configure the Drive

- Install the "Step-Servo Quick Tuner" software application.
- Connect the drive to PC using the programming cable.
- Run the software application.
- Apply power to the drive.
- The software will communicate with the drive and display the model & firmware version.
- Follow the steps on the "Step-Servo Quick Tuner" to set up. For Q models, use Step Servo Quick Tuner's "Q Programming" tab to create and download Q programs.
- For TruCount Absolute encoder setup, please refer to Appn0052 Absolute encoder setup guides.

I/O

- 8 optically isolated digital inputs, 5 to 24 volts
- 1 analog input, 0 to 5 volts.
- 4 optically isolated digital outputs.
- Please see the Applied Motion Products website or the TSM23S/Q Hardware Manual for more Information.



Safety Instructions



- **DO NOT** apply power until all connections to the drive have been made
- Only qualified personnel should assemble, install, operate, or maintain this equipment.
- Read all available documentation before assembly and operation.
- It is vital to ensure that all system components are connected to earth ground.
- This product contains electrostatically sensitive components that can be damaged by incorrect