



Requirements

To begin, make sure you have the following equipment:

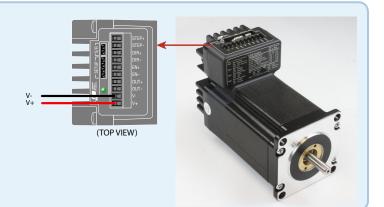
- A small flat blade screwdriver for wiring and configuring the DIP switches (included).
- DC Power Source, 12-70VDC
- · For more detailed information, please download and read the STM23R Hardware Manual, available at www.applied-motion.com/support/manuals.

Step 1

Connect the drive to the DC power source. The STM23R will accept DC power from 12-70VDC.

Per the diagram at the right, connect the red wire to the positive output terminal on the power supply, typically marked V+, and the black wire to the negative terminal, typically marked V-.

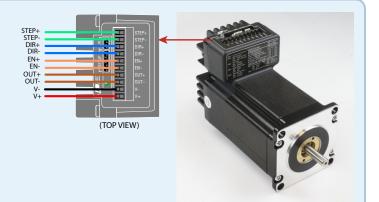
(Do not apply power until all connections to the drive have been made)



Step 2

Connect input signals to the drive. STEP and DIR are required, EN and OUT are optional.

• See the STM23R Hardware Manual for circuit connection details and examples.



Step 3

 Set the motor's running current using switches 1 and 2. This is the percentage of full current that the motor will use when the shaft is rotating. 	1 2	1 2	1 2	1 2
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100%

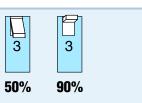
90%

70% 50%

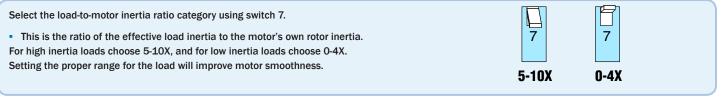
Step 4

Set the motor's idle current using switch 3.

• This is the percentage of running current that the motor will use when the shaft is not rotating. Choose 90% for maximum holding torque or 50% to reduce motor heating.



Step 5



Step 6

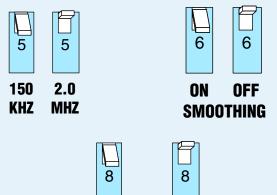
Select the desired step resolution (steps/rev) using switches 1-4, located on a second block of 4 switches.

1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4
200	400	800	1600
1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4
3200	6400	12800	25600
1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4
1000	2000	4000	5000
1 2 3 4	1 2 3 4	1 2 3 4	1234
8000	10000	20000	25000

Step 7

Optional settings. The default settings for these switches are typically sufficient. See the STM23R Hardware Manual for details on these functions.

- a) [Switch 5] Step Pulse Noise Filter
- b) [Switch 6] Step Smoothing Filter
- c) [Switch 8] Step Pulse Type (Step/Direction is default)



CW PULSE/ STEP/ **CCW PULSE**

DIR

Step 8

 Optionally, you can test motor operation by activating switch 4 to initiate a self test move. The self test move continually rotates the motor forward and backward 2-1/2 revolutions. 	4 4 4 0N 0FF SELF TEST
If you have any questions or comments, please call Applied Motion Products Customer Support: (800) 525-1609, or visit us online: www.applied-motion.com.	Applied Motion Products 404 Westridge Dr. Watsonville, CA 95076 Tel: 800-525-1609 Fax: 831-761 -6544 www.applied-motion.com