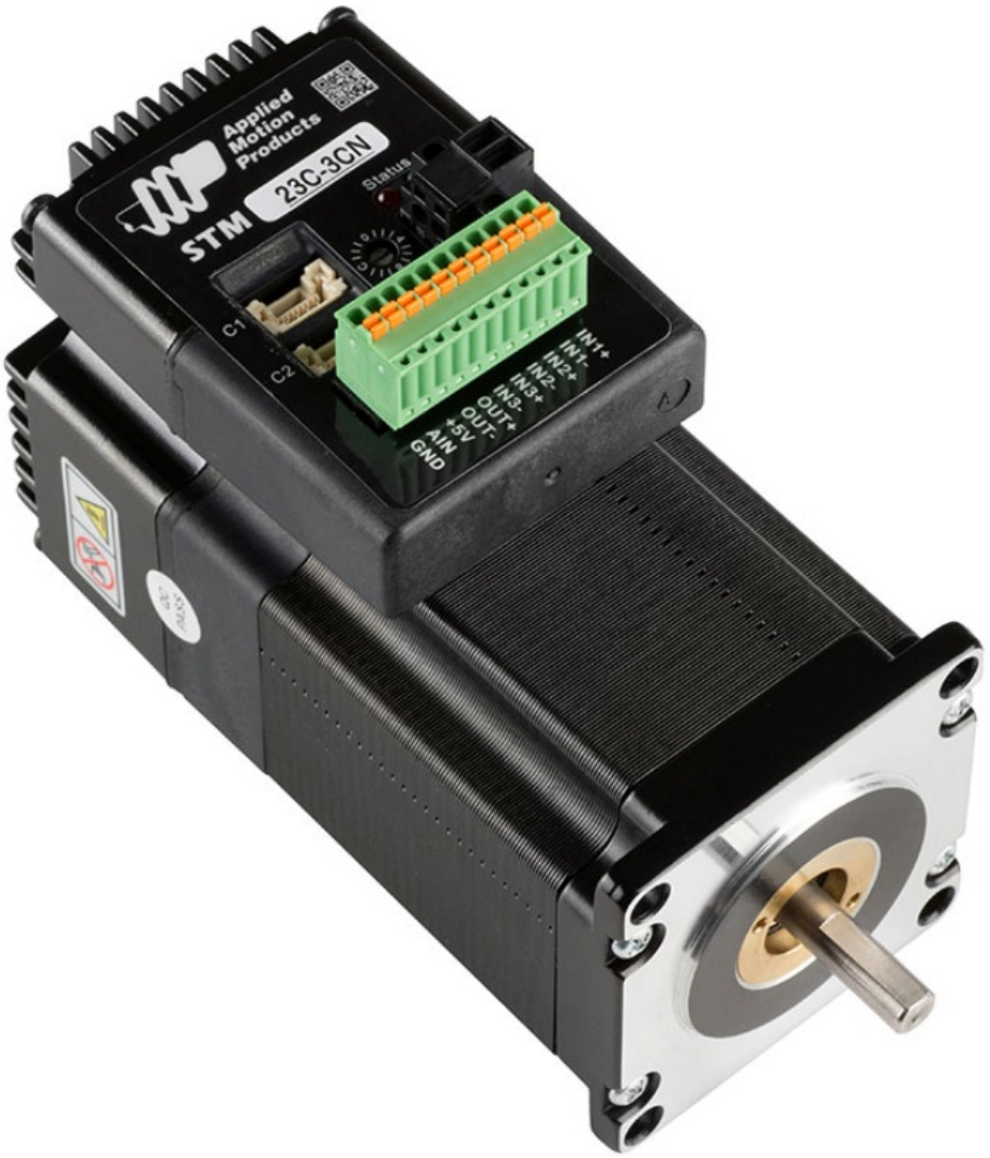
STM23C/24C Integrated CANopen Drive+Motor with Encoder User Guide

Contents [hide

STM23C/24C Integrated CANopen Drive+Motor with Encoder

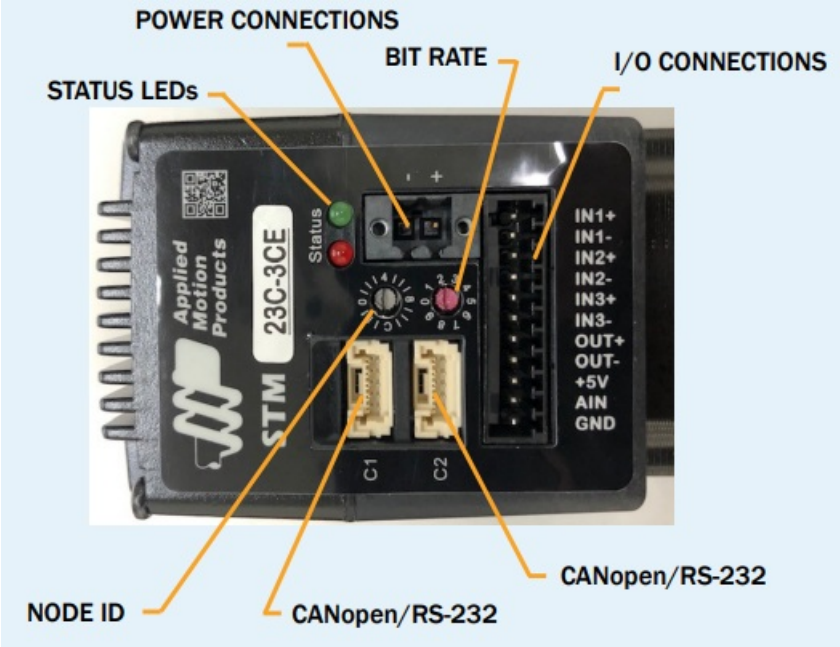


Requirements

To begin, make sure you have the following equipment:

- A small flat blade screwdriver for tightening the power connector (included).
- A personal computer running Microsoft Windows XP, Vista, 7/8/10/11.
- ST Configurator™ software (available at www.applied-motion.com).
- CANopen programming cable (to host) (included)
- CANopen daisy-chain cable (motor to motor)
- RS-232 cable for connecting to a PC so you can configure the settings on your motor using ST Configurator™ (included)
- For more detailed information, please download and read the STM23 Hardware Manual or STM24 Hardware Manual, available at **www.appliedmotion.com/support/manuals**.

Wiring



- Wire the drive to the DC power source.

  Note: Do not apply power until Step 3.

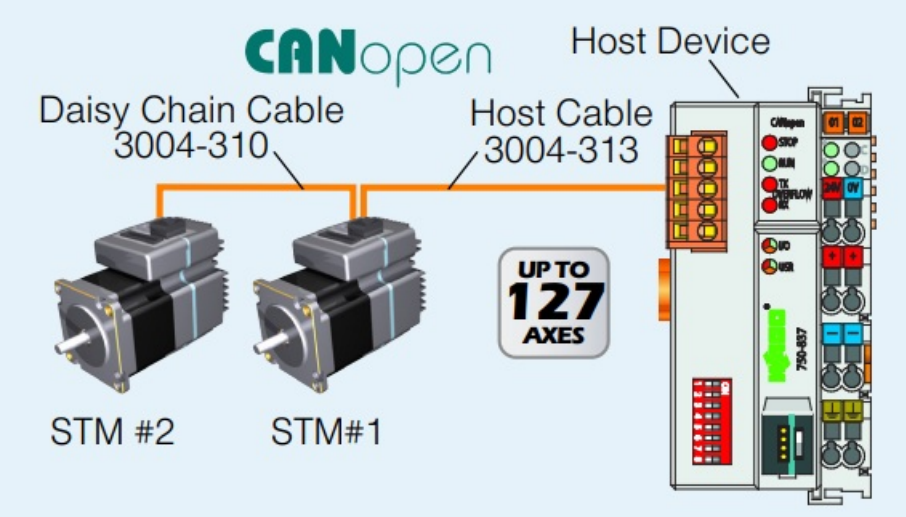
  The STM23C and STM24C accept DC supply voltages between 12 and 70 volts DC. If using an external fuse we recommend the following:

  STM23C: 4 amp fast acting

  STM24C: 5 amp fast acting

  See the STM23 and STM24 Hardware Manuals for more information about power supply and fuse selection.
- Connect I/O as required by your application. Cable part number 3004-318 can be used for this purpose
- **Connect to the CAN network.**

  Cable part number 3004-310 connects one motor to the next (daisy chain) in the CAN network.



- **Set Bit Rate and Node ID**

  Bit rate is set using a ten-position rotary switch. See Bit Rate table for settings. Node ID is set using a combination of a sixteen-position rotary switch and a software setting in ST Configurator. The sixteen-position rotary switch sets the lower four bits of the Node ID. ST Configurator sets the upper three bits of the Node ID. Valid ranges for the Node ID are 0x01 through 0x7F. Node ID 0x00 is reserved in accordance with the CiA 301 specification.

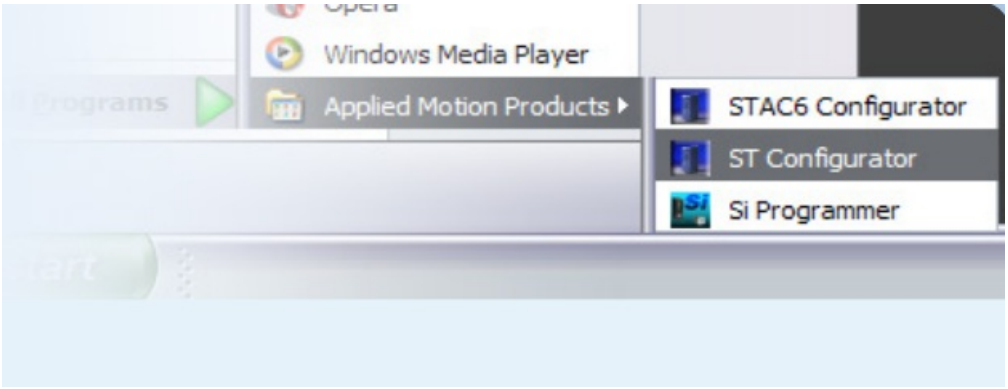
  Note: Node ID and Bit Rate are captured only after a power cycle or after a network reset command has been sent. Changing the switches while the drive is powered on will NOT change the Node ID until one of these

conditions has also been met.

- Connect the RS-232 programming cable (included) between the motor and the PC.

Switch Setting	Resultant Bit Rate
0	1 Mbps
1	800kbps
2	500 kbps
3	250 kbps
4	125 kbps
5	50 kbps
6	20 kbps
7	12.5 kbps
8	n/a
9	n/a

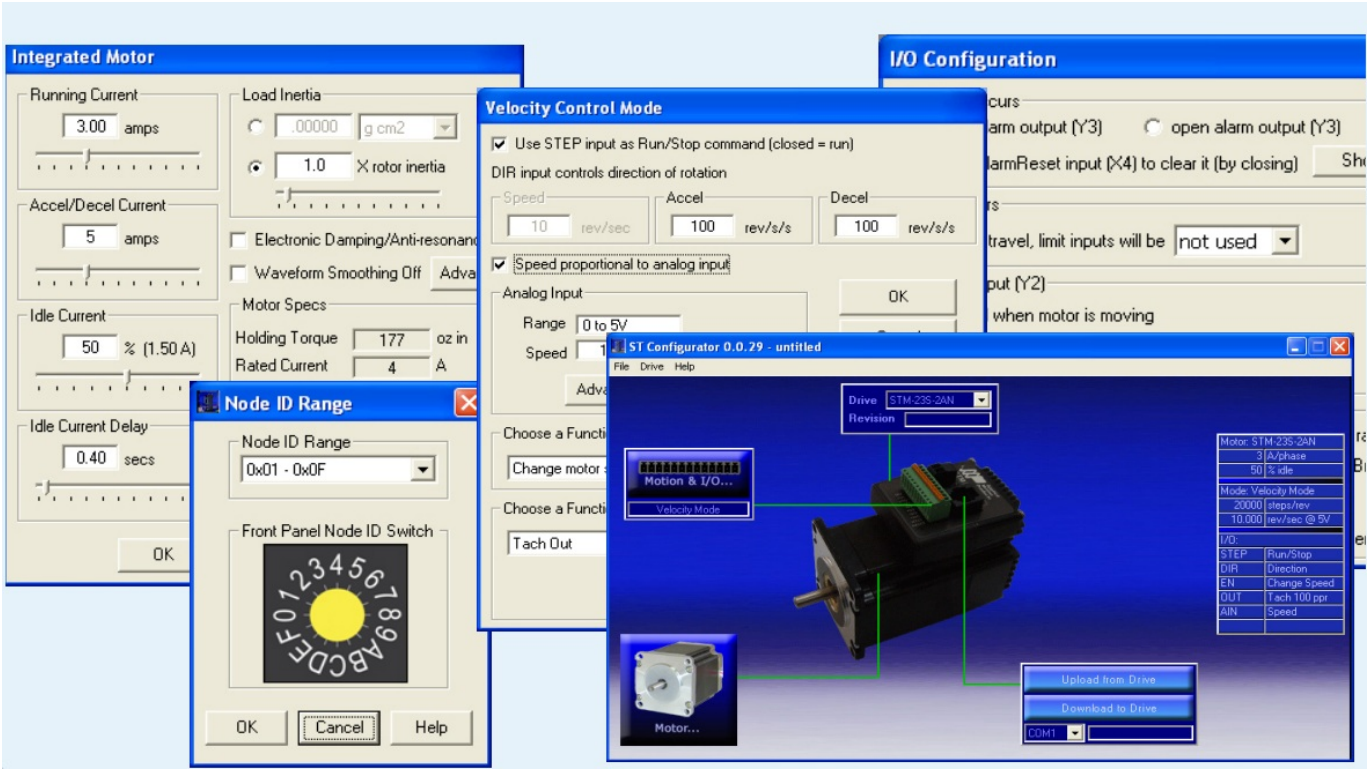
ST Configurator



- Download and install ST Configurator™ software, available at www.applied-motion.com.
- Launch the software by clicking Start/Programs/Applied Motion Products/ST Configurator
- 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.

Configuration

- **a)** Apply power to the drive.
- **b)** Use the ST Configurator™ to set up the motor current, limit switches, encoder functionality (if applicable) and Node ID.
- **c)** The ST Configurator™ includes a self-test option (under the Drive menu) to verify that the STM23C or STM24C and power supply are correctly wired and configured.
- **d)** When the configuration is complete, exit the ST Configurator™. The drive will automatically switch to CANopen Mode.

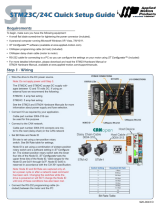


If you have any questions or comments, please call Applied Motion Products Customer Support: (800) 525-1609, or visit us online at applied-motion.com.

STM23C/24C Quick Setup Guide

18645 Madrone Pkwy
Morgan Hill, CA 95037
Tel: 800-525-1609
applied-motion.com

Documents / Resources

	ST STM23C/24C Integrated CANopen Drive+Motor with Encoder [pdf] User Guide STM23C 24C, STM23C, STM24C, STM23C 24C Integrated CANopen Drive Motor with Encoder, Integrated CANopen Drive Motor with Encoder, Integrated CANopen Drive Motor, CANopen Drive Motor with Encoder, Drive Motor with Encoder, Encoder Drive Motor

References

- Applied Motion
- Applied Motion
- Product Manuals by Type | Applied Motion