

# SMC-3B

## Stepper Motor Controller

The SMC-3B motion controller from ORLIN Technologies is a compact and economical solution for driving and controlling stepper motors up to 6A phase current.

The optional encoder input allows closed loop operation for increased accuracy.

Adjustable microstep motor control enables quiet, uniform running behaviour and reduces system resonances while increasing resolution. In addition to standard 2-phase motors, the SMC-3B has the ability to drive 3-phase and 5-phase stepper motors and BLDC motors.

Up to 256 controllers may be connected to one host for multiple axis operation



### Technical Data

Operating Voltage	12 to 72V DC
Phase Current	Nominal 6A, peak 9A
Interface	RS485 or CANopen
Operating Modes	RS485: Position, speed, flag position, cycle direction, analogue, joystick CANopen: Position, homing mode, velocity mode, interpolated position mode (compliance with CAN standard DS402)
Microstepping	1/1, 1/2, 1/4, 1/5, 1/8, 1/10, 1/32, 1/64, adaptive microstep, feed constant
Step Frequency	16 kHz in full step, corresponding multiples in microstep (eg up to 1mHz at 1/64)
Inputs	6 digital inputs (TTL), 1 analogue input +10 / -10 V (10 bit)

<b>Outputs</b>	3 digital outputs (open drain)
<b>Encoder resolutions</b>	192, 200, 256, 400, 500, 512, 1000, 1024, 2000, 2048
<b>Position Monitoring</b>	Yes, depending upon encoder
<b>Current Reduction</b>	Adjustable 0 to 100%
<b>Protection Circuits</b>	Overvoltage, undervoltage and temperature > 75° C
<b>Temperature Range</b>	0° C to +40° C

## Accessories

Interface Adaptors: RS485 – USB, RS485 – RS232 etc

Interface Cables

## Dimensions:

