

## MotorCtrlBoard MCB 500



### datasheet

MotorCtrlBoard MCB 500 is a motor controller and amplifier board designed for brushless dc motors.

The board provides output power of 500 Watt, sine commutation and various communication interfaces.

Amplifier and control circuitry are fully optoisolated.

The board is controlled by Microchips latest controller generation, a dsPIC30F6010.

The package size of MCP 500 is only 75 mm x 60 mm x 35 mm (length x width x height). In most cases it is possible to integrate board and motor to get a very compact and noise insensitive drive package.

Neobotix offers to adapt the board to customer specific requirements concerning hardware and software. Please contact Neobotix for details.

### Technical Data of MCB 500

- 16 Bit DSP Microcontroller dsPIC 30F6010 from Microchip, 20 MIPS/ 30 MIPS
- power and logic circuitry fully optoisolated
- single supply voltage logic +5 V/ 200 mA
- supply voltage power +12 V - +48 V, dependent on motor type
- maximum output power 500 Watt
- quadrature encoder interface
- hall sensor interface
- communication with host by RS232 or CAN interface
- digital current, velocity and position control
- PWM output for safety brake
- amplifier temperature measurement
- motor temperature measurement
- 4 general purpose digital inputs/ outputs
- 4 general purpose analog inputs