

# MD298

## Dual DC Motor Drivers



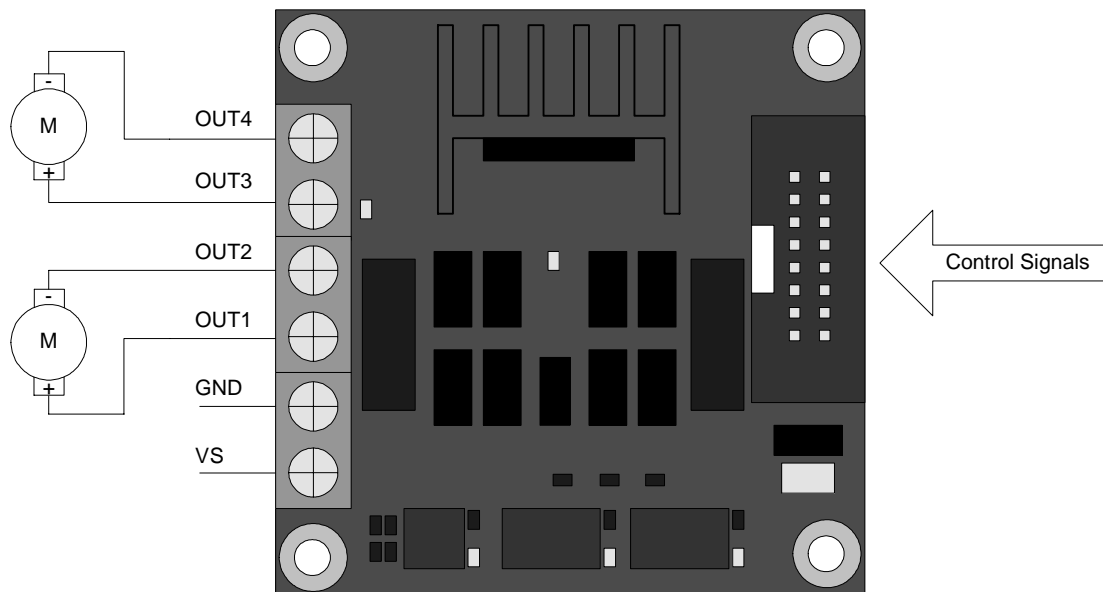
### FEATURES

- Dual H-BRIDGE DC Motor Drivers
- Operating Power Supply Voltage Up to 46V
- DC Current Up to 2 Amp per Channel
- Up to 40KHz PWM frequency
- Over Temperature Protection
- Over Current Protection
- Free wheeling diodes
- TTL input signals

MD289 is dual H-BRIDGE motor drivers for DC motor. The board uses L298 for driver chip and uses fast recovery diodes for free wheeling. The over temperature protection circuit is built-in L298 chip. Also this board has over current protection circuit on board.

The board supports operating power supply voltage or motor voltage up to 46 volt and can supply motor current, up to 2 Amp per channel.

### BOARD CONNECTOR



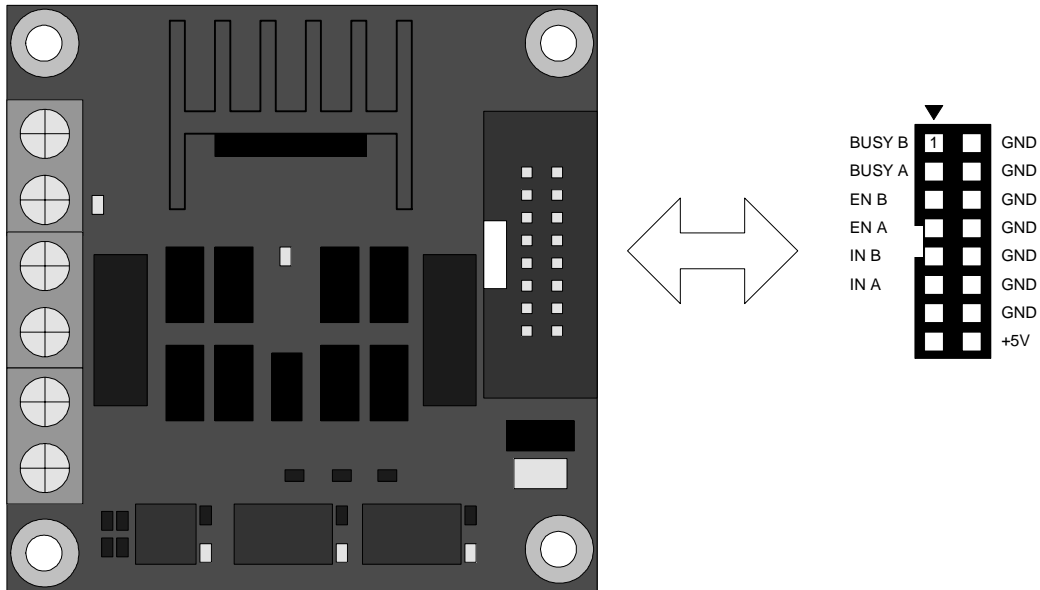
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**INPUT SIGNALS**

MD298 has IDC-16 connector input signal for controlling motor. The input signal compose of:

- IN A** [IN] : pwm signal for motor1
- IN B** [IN] : pwm signal for motor2
- EN A** [IN] : enable/disable motor1
- EN B** [IN] : enable/disable motor2
- BUSY A** [OUT] : over current status signal of motor1
- BUSY B** [OUT] : over current status signal of motor2

\* refer to schematic for details of signals

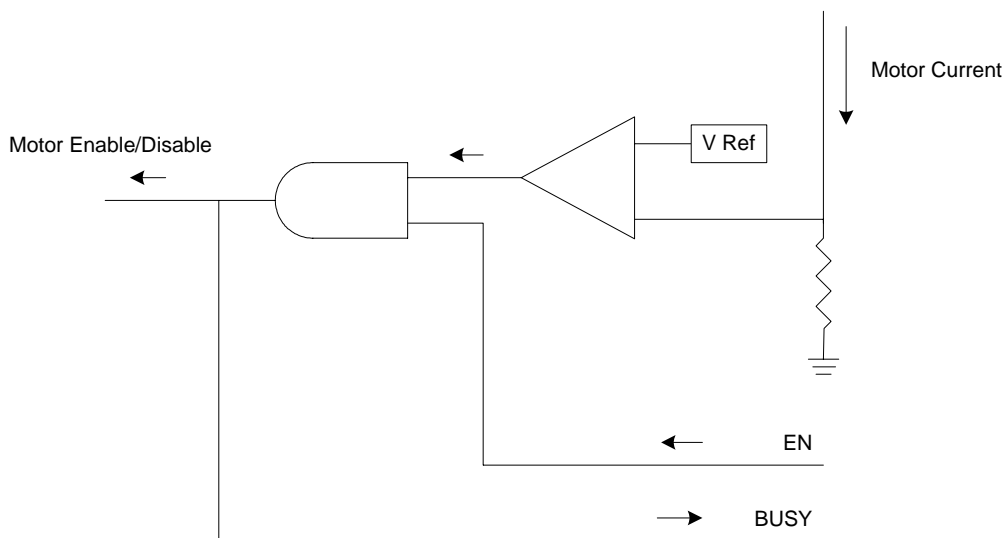


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**OVER CURRENT PROTECTION**

Over current protection circuit is used to shut down motor when motor current more than 2 Amp for protecting driver. When motor current more than 2 Amp and EN is high logic, motor is shut down and BUSY is low logic until motor current lower than 2 Amp.

\*You must disable (EN = 0) motor when BUSY signal is low logic, for protecting driver in long time.

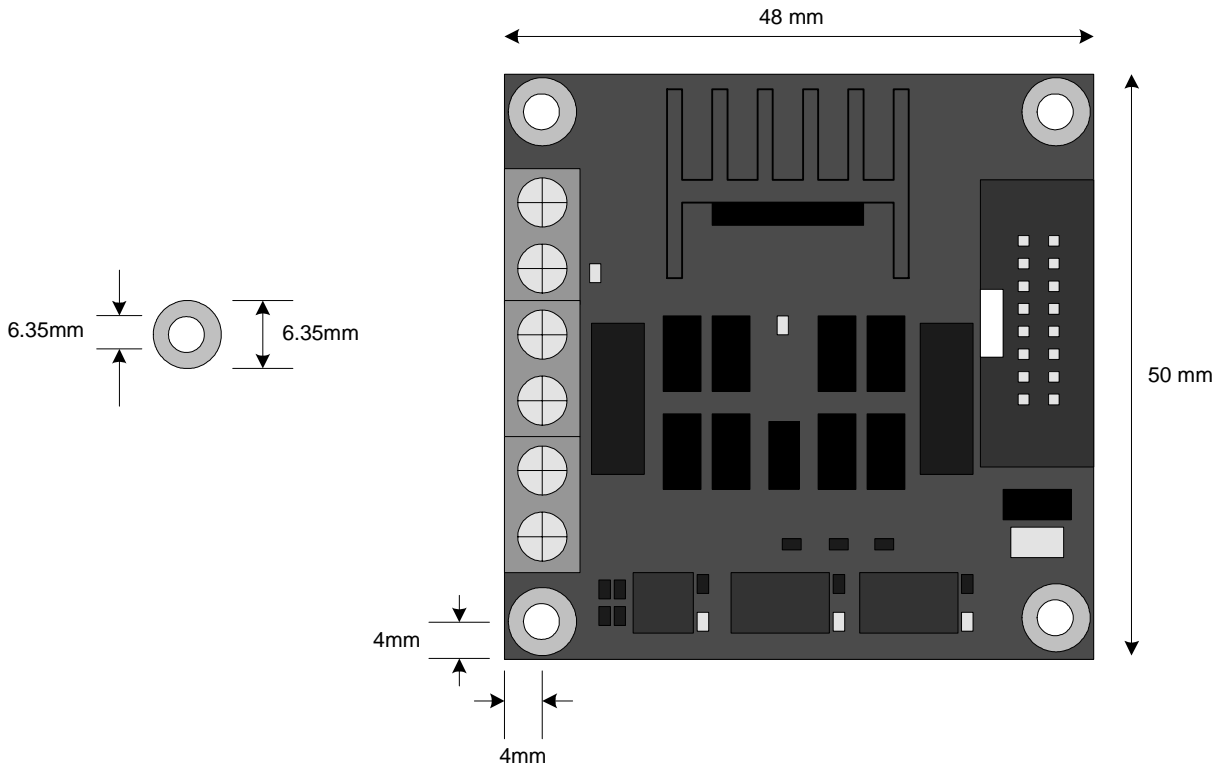


The relation between EN and BUSY signals are:

- EN=0, BUSY=0 => DISABLE MOTOR
- EN=1, BUSY=0 => OVER CURRENT
- EN=1, BUSY=1 => RUN MOTOR

**\* You must bring driver to DISABLE MOTOR when signal state is OVER CURRENT.**

**BOARD DIMENSION**



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