cython Motor driver diagram MD10C datasheet

Description

DC brushed motor is the most commonly used and widely available motor in the market. Getting the motor to rotate is fairly easy, just connect the two terminals to power source and it will start spinning, that's the beauty of DC brushed motor. Yet, if you want to control the speed, direction, activation and automate all these functions, check out this tutorial: 5 easiest ways to control a DC motor. And a motor driver is one of the ways. MD10C is one of Cytron's motor driver series which offers easy to use features.

Features

- Bi-directional control for one Brushed DC motor (Single Channel).
- Support motor voltage ranges from **5V to 30VDC**.
- No Reverse Polarity Protection at Vmotor, please double check the polarity before power up.
- Regenerative Braking.
- Maximum current up to **13A continuous** and **30A peak** (10 seconds).
- 3.3V and 5V logic level input, compatible with Arduino and Raspberry Pi.
- Solid state components provide faster response time and eliminate the wear and tear of mechanical relay.
- Fully NMOS H-Bridge for better efficiency and no heat sink is required.
- Speed control PWM frequency up to 20KHz (output frequency is same as input frequency).
- Support both Locked-Antiphase and Sign-Magnitude PWM operation. **Note that it is not "RC PWM"
- The new MD10C can be powered from a single power source and **NO additonal Vin is required**.
- Dimension: 75mm x 43mm

MD10C 10Amp DC Motor Driver Rev3.0