

FEATURES

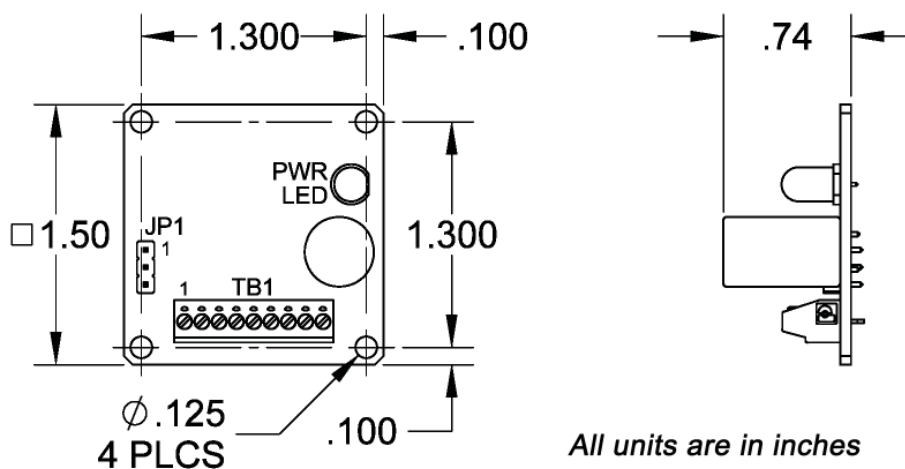
- **Current Limit Set at 3.0 Amps**
- **External Potentiometer Speed Control**
- **0.5V to 5V External Voltage Speed Control**
- **2-Quadrant Operation**
- **Open-Loop Velocity Mode**
- **Cycle by Cycle Short Circuit Protection**
- **Requires 8 - 35VDC**
- **Freewheel and Direction Inputs**
- **TTL-CMOS Compatible Inputs**
- **Compact Size (1.50" X 1.50" X 0.712")**
- **Screw Type Terminal Block**



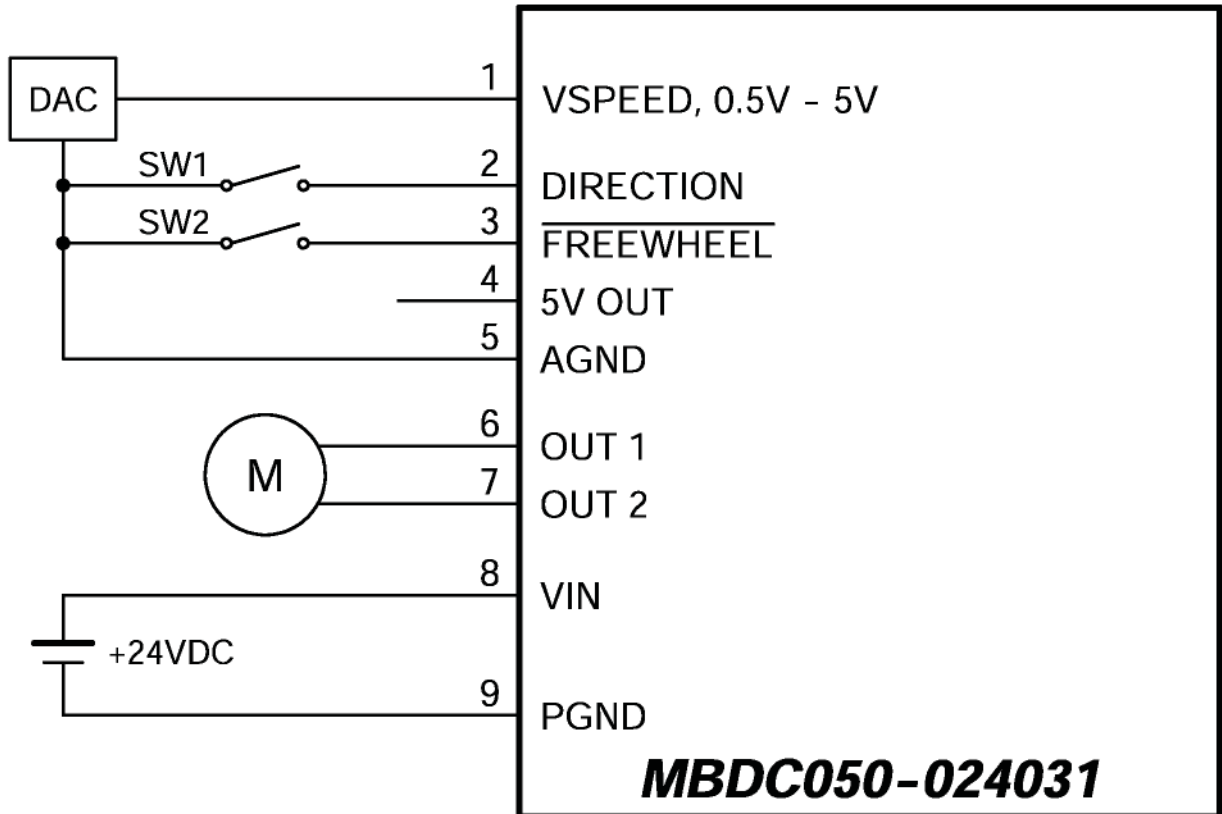
DESCRIPTION

The MBDC050-024031 driver is designed to drive DC brush motors at peak currents of up to 3.0A and 35V. An optional external potentiometer (10K) or external voltage (0.5-5VDC) can be used to control the speed as well. The direction of the motor can be present by the direction control input. To disable energy from the motor, there is a Freewheel input that can be grounded.

DIMENSIONS



L010613



Vspeed Control: (TB1, Pin 1):	0VDC - Motor Stopped 5VDC - Max Speed (6VDC max)
Control Inputs (TB1, Pins 2-3):	TTL-CMOS Compatible Logic "0" = 0-0.8VDC Logic "1" = Open
Direction Control (TB, Pin 2):	Logic "1" (open) - Clockwise Logic "0" - Counterclockwise
Freewheel: (TB1, Pin 3)	Logic "1" (open) - Motor is Enabled Logic "0" - Motor is de-energized and will coast
+5VDC Output: (TB1, Pin 4)	10mA Maximum
Power Requirements	8VDC (min) - 35VDC (max)
Output Current Rating: (TB1)	3.0 amperes peak maximum operating current.
Operating Temperature:	0°C to 70°C

Model #	Description
MBDC050-024031	BDC Driver, 3A, 8-36V
PSA24V2.7A	DC Power Supply 24VDC at 2.7 Amps