MDC100-050101 - Brushless DC Driver



- Maximum Current Limit Setting from 1.0-10.0 Amps
- Internal or External Potentiometer Speed Control
- 2-Quadrant Operation
- Hall Sensor Feedback
- Constant Velocity Mode
- Short Circuit Protection
- Requires 20-50 VDC
- · Brake, Disable and Direction Inputs
- TTL-CMOS Compatible Inputs
- Dual Mounting Option
- CE Certified and RoHS Compliant

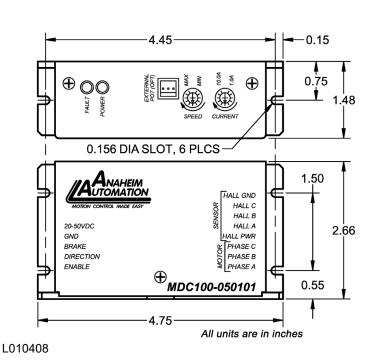


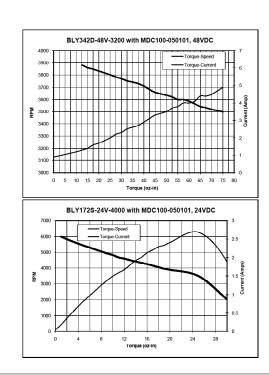
The MDC100-050101 driver is designed to drive DC Brushless motors at currents of up to 10A (peak) and 50V. Using hall sensor feedback, a constant velocity mode can be selected. The driver is protected against over current (cycle-by-cycle), hall sensor error and under voltage. When an error occurs, a fault light is turned on to notify the user.

Include on the driver is an internal potentiometer to control the maximum phase current allowed into the motor and an internal potentiometer to control the speed of the motor. An optional external potentiometer (10K) or external voltage (1.5-4VDC) can be used to control the speed as well. The direction of the motor can be preset by the direction control input. Other inputs to the drive include a dynamic brake and a motor disable input. When using the brake input, it overrides all other inputs into the driver.

Ideal Applications:

Automated machinery or processes that involves food, cosmetic, or medical packaging, labeling, or tamper-evident requirements, electronic assembly, robotics, factory automation, special filming and projection effects, medical diagnostics, inspection and security devices, conveyor and material handling systems, pump flow control, XY and rotary tables, equipment upgrades or whenever speed control is required.





4985 E. Landon Drive Anaheim, CA 92807

Tel. (714) 992-6990

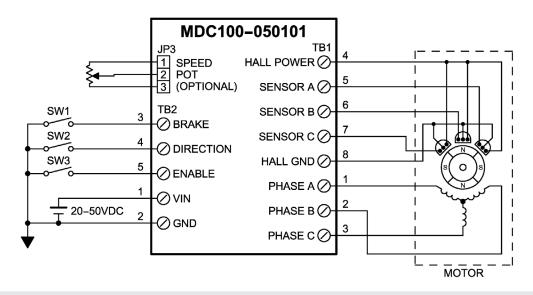
Fax. (714) 992-0471

www.anaheimautomation.com

Maximum Open

Loop Motor Speed





Power Require-20-50 VDC ments: **Output Current** 1.0-10 Amps (Peak) 0.5 - 5.0 Amps (Continuous) Range: Hall Sensor Power 6.25V @ 30mA (Max) Outputs: Control Inputs: (TB2, Pins 3-5) TTL-CMOS Compatible Logic "0" = 0.0 - 0.8VDC Logic "1" = Open Internal/External Speed Potentiometer: 30% - 100% Speed: External Voltage: 1.5V - 4V (TB2, Pin 3) Logic "1" (open) - Motor will not run and if running will decelerate rapidly Brake: Logic "0" = Motor will run Enable: Logic "1" (open) - Motor is Enabled Logic "0" - Motor is de-energized and will coast **Direction Control:** (TB2, Pin 4) Logic "1" (open) - Clockwise Logic "0" - Counterclockwise Operating Tem-0°C to +70°C perature: 2 pole: 30,000 RPM Maximum Closed 4 pole: 15,000 RPM Loop Motor Speed 6 pole: 11,250 RPM

Model #	Description
PSAM24V2.7A	DC Power Supply 24VDC at 2.7 Amps
PSA40V4A	DC Power Supply 40VDC at 4.0 Amps
PSA40V8A	DC Power Supply 40VDC at 8 Amps

8 pole: 7,500 RPM

50,000 RPM