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Find the *Anaheim Automation MDC151-050301* at our website: *Click HERE*

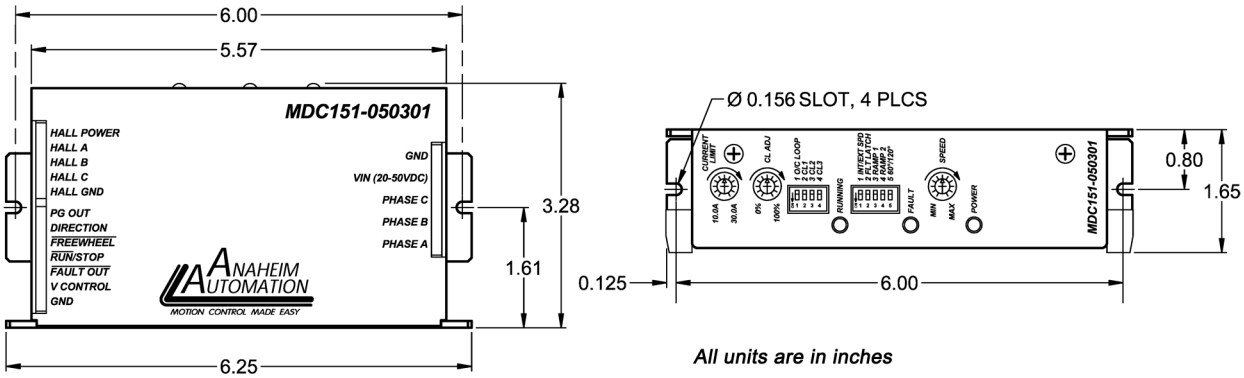
MDC151-050301 - Brushless DC Controller

FEATURES

- ***Maximum Current Limit Setting from 10.0-30.0 Amps***
- ***Internal or External Potentiometer Speed Control***
- ***0V to 5V External Voltage Speed Control***
- ***2-Quadrant Operation***
- ***Hall Sensor Feedback***
- ***Constant Velocity Mode***
- ***Short Circuit Protection***
- ***Requires 20-50VDC***
- ***Run/Stop, Freewheel and Direction Inputs***
- ***TTL-CMOS Compatible Inputs***
- ***Dual Mounting Option***
- ***CE Certified and RoHS Compliant***



DIMENSIONS



All units are in inches

DESCRIPTION

The MDC151-050301 driver is designed to drive DC brushless motors at currents of up to 30A (peak) and 50V. Using hall sensor feedback, a constant velocity mode can be selected. The driver is protected against over current (cycle-by-cycle or latched), hall sensor error and under voltage. When an error occurs, a fault light notifies the user. If the fault latchg is enabled and an error occurs the fault output goes low to notify the user. Included on the driver is an internal potentiometer to control the speed of the motor. An external voltage (0-5VDC) 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 run/stop and a motor freewheel input. When using the run/stop input, there are three ramp up/down profiles from standstill to select from. The run/stop input overrides all other inputs into the driver.

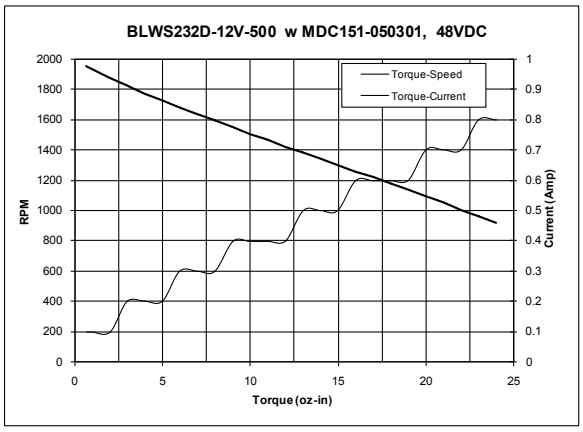
Ideal Applications:
Automated machinery or processes that involve food, cosmetic, or medical packaging, labeling, or tamperevident requirements, electronic assembly robotics, factory automation, special filming, and project effects, medical diagnostics, inspection and security devices, conveyor and material handling systems, pump flow control, XY and rotary tables, equipment upgrades or whenever speed control is required.

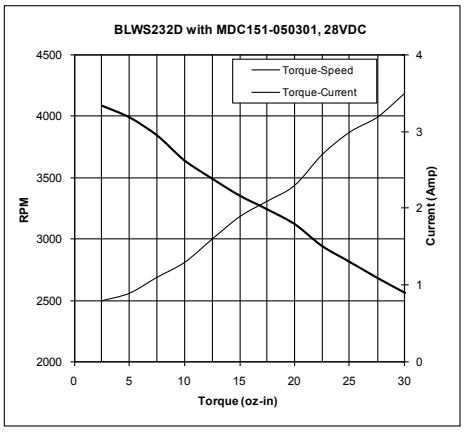
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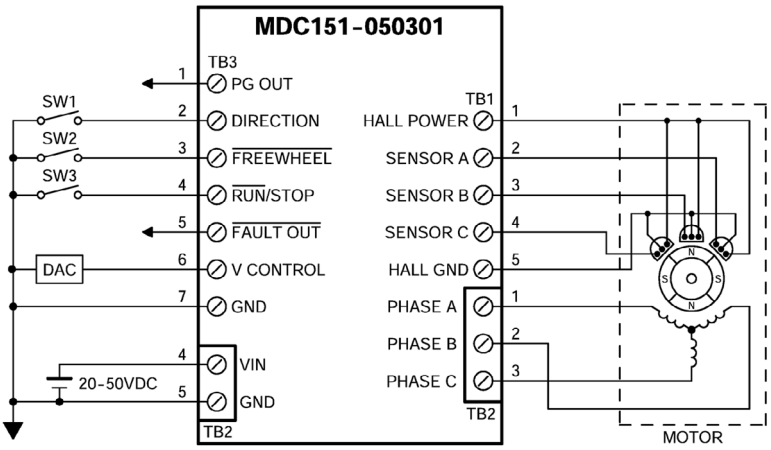
TORQUE CURVES





SPECIFICATIONS/WIRING DIAGRAM

Control Inputs: (TB3, Pins 2-4)	TTL-CMOS compatible Logic "0" = 0-0.8VDC Logic "1" = Open
Direction Control: (TB3, Pin 2)	Logic "1" (open) - Clockwise Logic "0" - Counterclockwise
Freewheel: (TB3, Pin 3)	Logic "1" (open) - Motor is Enabled Logic "0" - Motor is de-energized and will coast
Run/Stop: (TB3, Pin 4)	Logic "1" (open) - Motor will not run and if running will decelerate accordingly to ramp dip switch setting Logic "0" - Motor will run and will accelerate according to ramp dip switch
V Control: (TB3, Pin 4)	To control the speed of the motor with an external DC Voltage, INT/EXT SPD switch (SW1-POS1) must beswitch to the ON position. (0VDC (min) - 5VDC (max))
Control Outputs: (TB3, Pins 1 and 5)	TTL-CMOS Compatible These outputs are able to sink 50mA.
Speed Output: (TB3, Pin 1)	A 5V signal pulse out is available at a rate of 4 pulses for 1 revolution of an 8-pole motor, 3 pulses for 1 revolution of a 6-pole motor, and 2 pulses for 1 revolution of a 4-pole motor. 8-pole motor RPM = 15 * PG OUT (in Hz) 6-pole motor RPM = 20 * PG OUT (in Hz) 4-pole motor RPM = 30 * PG OUT (in Hz)
Fault Output: (TB3, Pin 5) *Enabled when fault latch is enabled.*	Logic "1" (5V out) - Status good, normal operation. Logic "0" - One of the three fault conditions listed in the 'Fault Protect' section has occur. When a fault is detected, the Fault Output (Pin 5) goes low.



ORDERING INFORMATION

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 8.0 Amps

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