

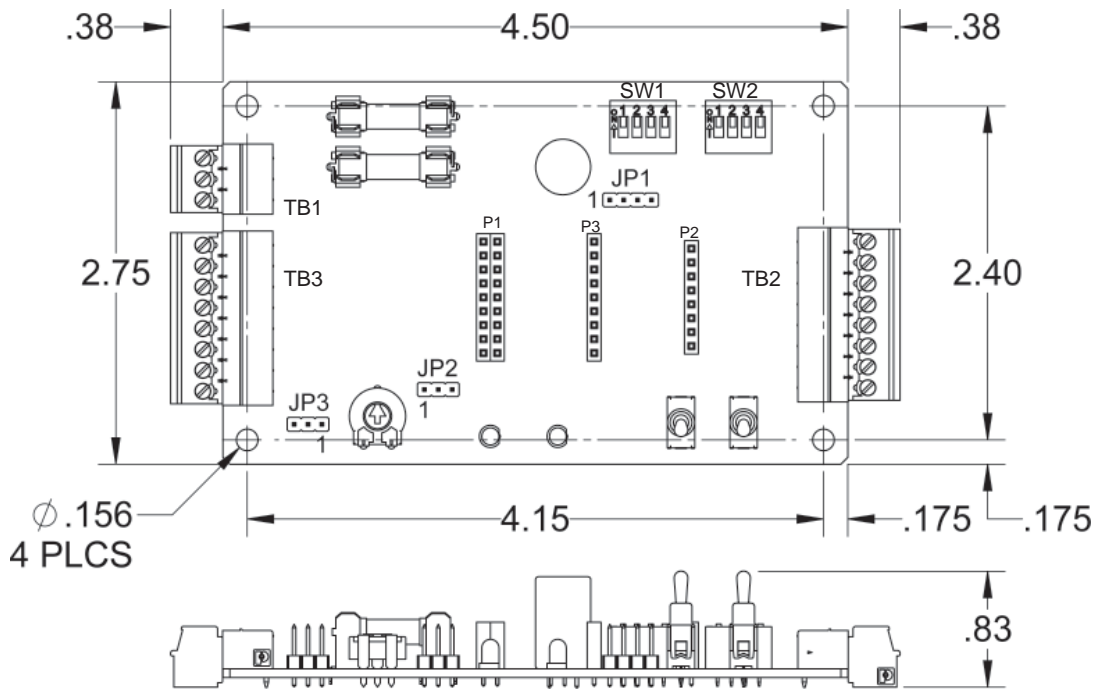
MDC020-EVALBD Evaluation



FEATURES

- **Single-Axis System**
- **Suitable for Use With:**
 - MDC020-024031*
 - MDC020-050101*
 - MBDC020-024031*
- **RoHS compliant**

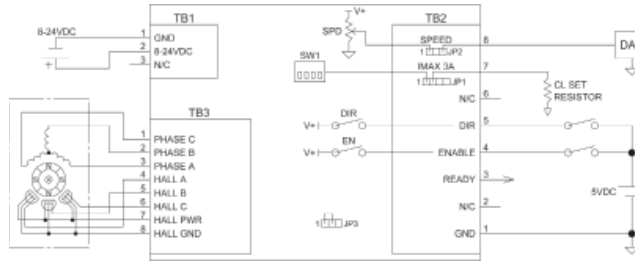
DIMENSIONS



DESCRIPTION

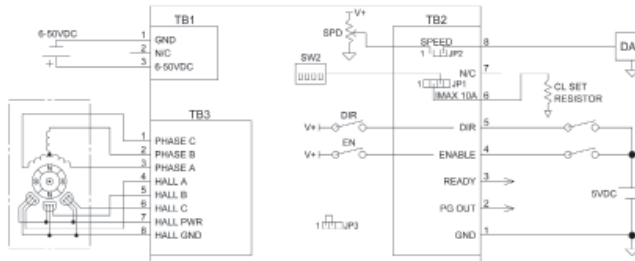
The MDC020-EVALBD is a Brushless and Brush DC Speed Controller Evaluation Board that can be used with the MDC020-024031, MBDC020-024031 or MDC020-050101 controller for immediate start-up and testing. Also included are terminal blocks for easier motor connections, onboard switches to control direction and stopping, and a potentiometer to control speed. With an MDC020-024031 or MBDC020-024031 controller, the allowable input voltage range is 8-24VDC; with a continuous output current of 1.5A (3A Peak). With an MDC020-050101 controller, the allowable input voltage range is 6-50VDC; with a continuous output current of 5A (10A Peak).

MDC020-024031 hookup (Board placed on P2 and P3)



*JP3 on position 2-3 for MBDC020-024031 hookup

MDC020-050101 hookup (Board placed on P1 and P2)



*JP3 on position 2-3 for MBDC020-050101 hookup

JP1	
POSITION 1-2	SW1 current setting for 3A peak drivers
POSITION 2-3	SW2 current setting for 10A peak drivers
POSITION 3-4	External resistor current setting

JP2	
POSITION 1-2	On board potentiometer speed setting
POSITION 2-3	External voltage speed setting

JP3	
POSITION 1-2	Brushless DC driver setting
POSITION 2-3	Brush DC driver setting

SW1				
Pos. 1	Pos. 2	Pos. 3	Pos. 4	Current Limit
ON	ON	ON	ON	0.5A
ON	ON	ON	OFF	1A
ON	ON	OFF	ON	1.5A
ON	ON	OFF	OFF	2A
ON	OFF	ON	ON	2.5A
OFF	OFF	OFF	OFF	3A

SW2				
Pos. 1	Pos. 2	Pos. 3	Pos. 4	Current Limit
ON	ON	ON	ON	0.5A
ON	ON	ON	OFF	2A
ON	ON	OFF	ON	4A
ON	ON	OFF	OFF	6A
ON	OFF	ON	ON	8A
OFF	OFF	OFF	OFF	10A

Power Requirements:	8-24VDC or 6-50VDC	Input Signal Voltage	0-5 VDC
Output Current Range:	0.5-3A (Peak) or 0.5-10A (Peak)	Storage Temperature:	0°-50° C
Driver Types:	DC Brushless and DC Brush	Absolute Maximum Driver Temperature	70°C

Model #	Description	Input Voltage	Power (Watt)
PSAM24V2.7A	24 VDC Power Supply, Up to 2.7 Amp Capability	90 - 265 VAC	65
PSAM48V4.2A	48 VDC Power Supply, Up to 1.3 Amp Capability	90 - 265 VAC	200
MDC020-024031	DC Brushless Driver, Up to 3 Amp Peak Capability	8 - 24 VDC	36
MDC020-050101	DC Brushless Driver, Up to 10 Amp Peak Capability	6 - 50 VDC	175
MBDC020-024031	DC Brush Driver, Up to 3 Amp Peak Capability	8 -24 VDC	36

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