## MDC010-050101 Brushless Speed Controllers

- Digital Closed or Open Loop Speed Controller
- 6-50 VDC Voltage Range
- Maximum Speed of 80,000 RPM
- Continuous Output Current of 5A (10A Peak)
- Protection Against Thermal Overload
- Small Open Board Design
- Motor Blockage Protection
- Status Indication
- Easy Connectivity/Integration into Motherboard
- CE Certified and RoHS Compliant


The MDC010-050101 Speed Controller has a very compact design with a high efficiency 1-Quadrant digital output driver which offers a operating voltage of 50VDC, while maintaining a rated output current of a 5A (10A Peak). The controller also offers a large number of inputs and outputs such as the speed monitor, current limiting, speed ranges, direction of rotation, enable, operating status, etc. While offering all these features the MDC010-050101 offers many protective features against overcurrent, undervoltage, and overvoltage, short circuit and thermal overload to ensure the controller runs efficiently and effectively. The MDC010-050101 delivers a maximum speed of 80,000 RPM to the shaft of the Brushless DC Motor. Anaheim Automation also offers an evaluation board for easy and immediate initial start-up and testing, as well as a full line of Brushless DC Motors. Please see User's Guide for complete operating instructions.


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| Power Requirements: | $6-50 \mathrm{VDC}$ |
| :--- | :--- |
| Output Current Range: | 5.0 Amps (Continuous) |
|  | 10.0 Amps (Peak) |
| Switching Frequency: | 46.8 kHz |
| Max Speed (Motor with 1 Pole Pair): | $80,000 \mathrm{RPM}$ |
| Set Value Speed: | Analogue Input (0-5V); Resolution: 1024 Steps |
| Non-condensating: | $20-80 \%$ |
| Operating Temperature: | $-10^{\circ} \mathrm{C}$ to $45^{\circ} \mathrm{C}$ |

