

REF: D21-DCSC2A

2A PWM DC Motor Speed Regulator 1.8V, 3V, 5V, 6V, 12V 2A Speed Regulator Switch 1803BK Motor Control



Description

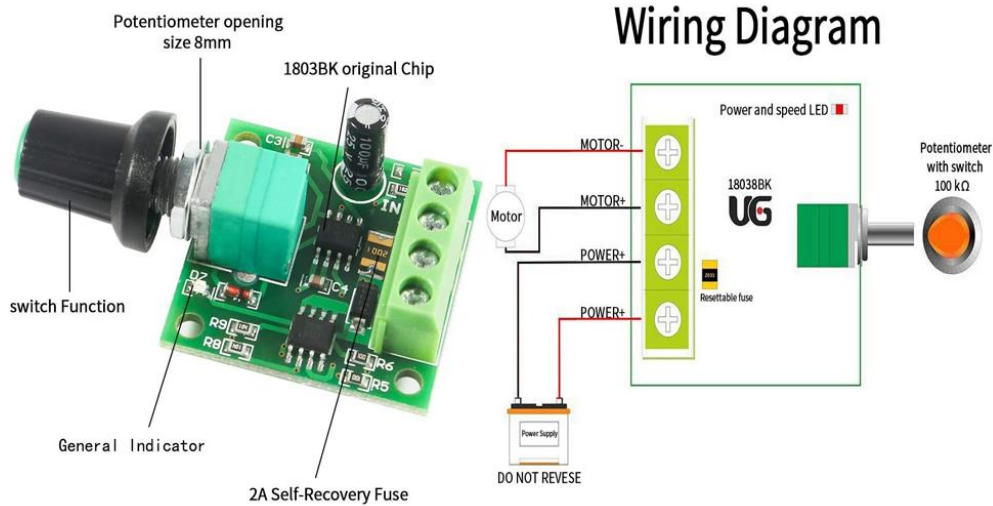
The 2A PWM DC Motor Speed Regulator 1803BK is a highly versatile and efficient motor control module designed specifically for regulating the speed of DC motors using Pulse Width Modulation (PWM) technology. This module allows for smooth and precise speed adjustment, making it ideal for applications that require variable motor speeds. It operates within a wide voltage range of 1.8V to 12V DC, which makes it compatible with a variety of low-voltage DC motors. Additionally, it supports a maximum continuous current of 2A, ensuring stable performance while preventing overheating or damage to the motor.

Specifications

- Operating Voltage: 1.8V – 12V DC (Supports a wide range of low-voltage DC motors)
- Maximum Continuous Current: 2A (Ensures stable performance without overheating)
- Peak Current: *3A (Short duration loads only, not recommended for continuous use)
- Control Method: Pulse Width Modulation (PWM) for smooth speed regulation
- PWM Frequency: Adjustable, typically around 20kHz (High efficiency and minimal noise)
- Duty Cycle Range: 0% – 100% (Allows complete speed control from stop to full speed)
- Load Power: Max 24W (At 12V, 2A full load)
- Efficiency: >90% (Minimal power loss, ensuring energy-efficient operation)

Wiring Diagram

The 2A PWM DC Motor Speed Regulator (1803BK) is a compact motor control module designed to regulate the speed of DC motors using Pulse Width Modulation (PWM). It supports a wide voltage range of 1.8V to 12V DC and a maximum output current of 2A.



Circuit diagram

The 2A PWM DC Motor Speed Regulator 1803BK is a compact and efficient motor control module that allows users to adjust the speed of a DC motor using Pulse Width Modulation (PWM). This controller is designed for low-voltage DC motors and supports input voltages of 1.8V, 3V, 5V, 6V, and 12V, with a maximum output current of 2A.

