REF: **D21-DCSC10A**

10A DC Motor Speed Controller Switch Dimmer Voltage Regulator PWM DC Speed Control Switch with Knob 12V-40V 400W


Description

The 10A DC Motor Speed Controller Switch is an advanced PWM (Pulse Width Modulation) voltage regulator specifically designed to provide precise and efficient speed control for DC motors. Utilizing PWM technology, this controller ensures smooth and stable motor operation by regulating voltage and current without generating excessive heat, thereby improving overall efficiency and extending the lifespan of the motor.

Specifications

- Operating Voltage: DC 12V - 60V (varies by model)
- Maximum Current: 10A continuous (with adequate heat dissipation)
- Power Output: Up to 600W (depending on input voltage)
- Control Method: PWM (Pulse Width Modulation)
- PWM Frequency: Typically, 15kHz - 25kHz
- Duty Cycle Range: 0% - 100% (fully adjustable)

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Digital Pin

The Digital Pin 10A DC Motor Speed Controller Switch Dimmer Voltage Regulator is a versatile device designed to control the speed of a DC motor by adjusting its voltage. It uses Pulse Width Modulation (PWM) to regulate the voltage, allowing for precise speed control of the motor. The controller has a 10A current capacity, making it suitable for a wide range of applications, including robotics, hobby projects, and industrial machinery.
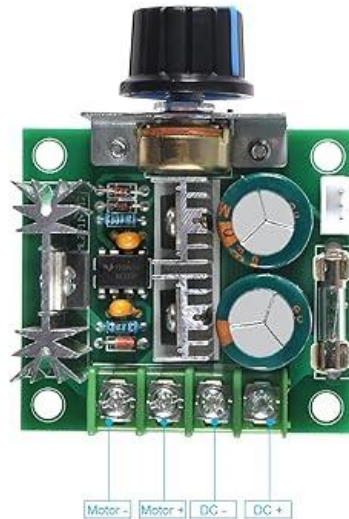
Circuit diagram

A 10A DC Motor Speed Controller Switch Dimmer Voltage Regulator PWM DC Speed Control Switch with Knob circuit diagram typically consists of several key components that work together to control the speed of a DC motor using Pulse Width Modulation (PWM). Here's a breakdown of the components and their roles: