

## I. Overview

The HHD6-E Mini DC Motor Speed Controller adopts a new-type electronic circuit. It utilizes sharp pulse triggering and controls the conduction angle of the bidirectional thyristor to adjust the output electric quantity, enabling smooth speed regulation and stable operation of DC motors. It boasts advantages like energy efficiency and high precision, and is widely applied in industries such as textile, chemical, papermaking, cable, plastic, rubber, etc. This product is suitable for speed regulation of various DC servo motors, DC shunt-excited motors, and permanent magnet DC motors.

## II. Main Technical Specifications

1. Working Voltage: AC220V 50/60Hz, voltage fluctuation range  $\pm 10\%$  Ue;
2. Rated Motor Power: 60W;
3. Armature Output Voltage: DC0~200V;
4. Excitation Output Voltage: DC200V $\pm 15\%$ ;
5. Pollution Degree: Class 3;
6. Protection Class: IP20;
7. Ambient Temperature: -5 ~ +40 ;
8. Relative Humidity: 90%;
9. Altitude: 1000m;
10. Mounting Method: 35mm guide rail ;

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## V. Usage Instructions

1. Before use, turn the external speed knob counterclockwise to the minimum position first, then connect the power supply at terminals and . Slowly turn the speed knob clockwise to the required speed. When shutting down, first turn the speed knob counterclockwise to the minimum position, then cut off the power supply at terminals and .
2. For permanent magnet DC two-wire motors, only need to connect K1 and K2; do not connect F1 and F2.

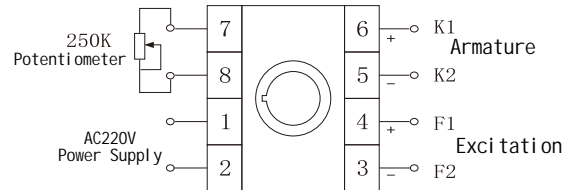
## VI. Ordering Instructions

When placing an order, please specify the product model, output voltage, power, and quantity.

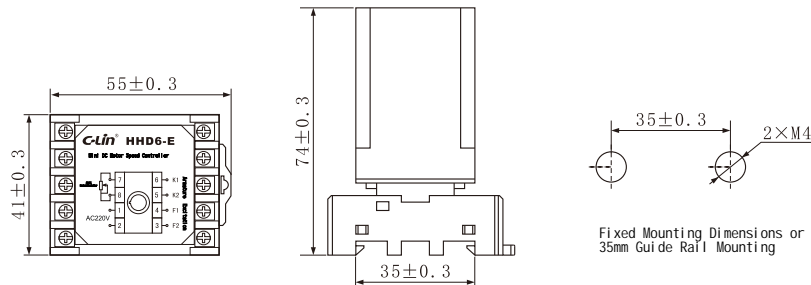
Example: HHD6-E, Output Voltage DC200V, 60W, 500 units

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## III. Wiring Diagram



## IV. Outline and Mounting Dimension Drawing (mm)



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使用说明  
Products Instructions

**HHD6-E**  
Mini DC Motor Speed Controller

Thank you very much for using C-Lin products!  
Please read the user manual before use!

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