

I. Overview

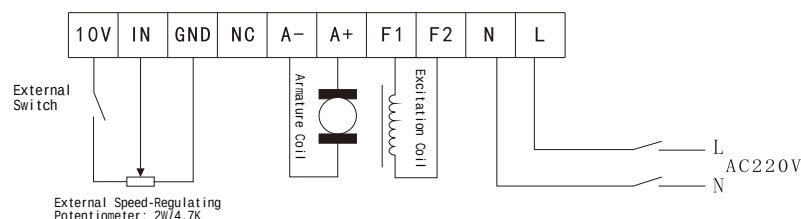
The HHD6-G DC Motor Speed Controller adopts pulse width modulation technology, and uses imported components and SMT placement technology. It features small size, low operating noise, high efficiency, high stability of armature output voltage, good followability, fast response speed, and large low-speed starting torque. It also has current limiting protection and short-circuit protection functions (to ensure that the motor can reverse frequently), and can set maximum, minimum speed and soft-start function. It uses WTH118-11 2W/4.7K potentiometer or WXD3-13 2W/4.7K potentiometer to control speed regulation. It is suitable for speed regulation of SZ series DC servo motors, ZYT series permanent magnet DC motors, J-SZ (ZYT) series DC gear motors, KC50 series DC gear motors, as well as shunt-excited and separately-excited DC motors.

II. Main Technical Parameters

1. Operating Voltage: AC220V 50Hz, allowable voltage fluctuation range is (85%~110%) U_e ;
2. Output Power and Current: 1200W 5.5A; 400W 1.8A;
3. Output Voltage: Armature: DC0~220V (adjustable); Excitation: DC220V $\pm$ 10%;
4. Signal Input: Potentiometer control (WTH118-11 2W/4.7K potentiometer or WXD3-13 2W/4.7K);
5. Soft-start Time: 0.2s~3s;
6. Pollution Degree: Class 3;
7. Protection Class: IP20;
8. Ambient Temperature: -5°C~+40°C;
9. Relative Humidity: $\leq$ 90%;
10. Altitude: $\leq$ 2000m;

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III. Wiring Diagram



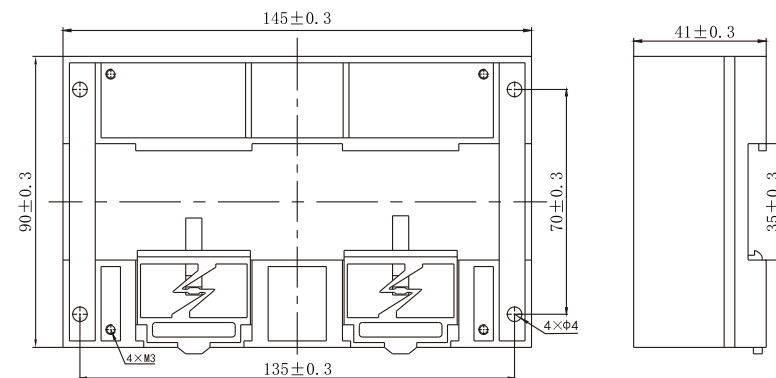
Note: For permanent magnet DC two-wire motors, only connect the armature coil terminals A- and A+; do not connect F1 and F2.

IV. Model Specifications

Model Specification	Input Voltage	Output Voltage	Output Power and Current
HHD6-G	AC220V 50Hz	DC0~220V	400W 1.8A
	AC220V 50Hz	DC0~220V	1200W 5.5A

②

V. Outline and Mounting Dimension Drawing (Outline Dimensions: 145×90×41mm)



Fixed Hole Mounting and 35mm Guide Rail Mounting

VI. Usage Precautions

1. Do not install or disassemble the controller while it is energized, to avoid personal accidents and serious injuries;
2. Before turning the device on or off, adjust the speed to the minimum position to prevent large current from being generated at the moment of switching, which may damage the product;
3. This product uses a built-in fuse for overload or short-circuit protection. If the fuse blows, replace it with a fuse of the same specification;
4. The speed controller should be kept away from dusty, high-humidity environments and equipment with excessive vibration. If the vibration is too strong, take shockproof measures.

③

VII. Ordering Instructions

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

Example: HHD6-G AC220V 1200W 500 units

 产品合格证	符合标准: _____ / _____
	检验员: <u>检01</u>
	出厂日期: 见产品或包装
	本产品经检验合格, 准予出厂。
 欣灵电气股份有限公司 XINLING ELECTRICAL CO., LTD.	


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Technical Consultation: 400-8236-775



National High-tech Enterprise Zhejiang Xinning Trade Mark

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使用说明书
Products Instructions

HHD6-G

DC Motor Speed Controller

Thank you very much for using C-Lin brand speed controller! Please read the user manual before using the product!

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