

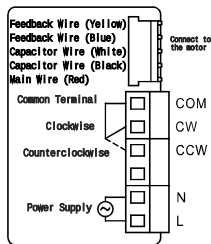
I. Overview

The US - 52A AC single - phase motor speed controller is characterized by its small volume and wide speed regulation range. It enables feedback - controlled constant speed and stepless speed regulation for single - phase motors. It is widely used in industries such as packaging and printing, instrumentation, clothing machinery, and medical machinery. This product complies with the requirements of Q/XL0031 - 2023.

II. Main Technical Data

- Operating Voltage: AC 220V, 50/60Hz; Voltage fluctuation range: (85%~110%) of the rated voltage (U_e).
- Rated Power: 6W, 15W, 25W, 40W, 60W, 90W, 120W, 180W, 200W, 250W.
- Speed Regulation Range: 90~1400 revolutions per minute (50Hz); 90~1600 revolutions per minute (60Hz).
- Pollution Degree: Class 3.
- Protection Class: Front panel IP20.
- Ambient Temperature: -25°C ~ $+55^{\circ}\text{C}$.
- Relative Humidity: $\leq 90\%$.
- Altitude: $\leq 2000\text{m}$.

III. Wiring Diagram



Wire Type	Feedback Wire	Feedback Wire	Capacitor Wire	Capacitor Wire	Main Wire
Specification	Feedback Wire	Feedback Wire	Capacitor Wire	Capacitor Wire	Main Wire
Flat Plug	Yellow	Blue	White	Black	Red
Square Plug					
C - Shaped Plug					

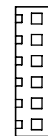
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5.If a control switch is installed between COM, CW, and CCW, the contact capacity shall be greater than 230V/10A, and the switching interval shall be greater than 1s (High voltage is dangerous, and live wiring is strictly prohibited).

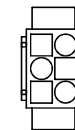
6.The panel switch only controls the start and stop of the motor, not the power supply. Please turn off the power supply if not used for a long time.

VI. Product Description

US - 52A is available with a flat plug, a square plug, and a C - shaped plug. The flat plug is the default one when leaving the factory. If a square or C - shaped plug is needed, please specify it when placing an order.



Flat Plug



Square Plug



C - shaped Plug

VII. Order Instructions

When placing an order, the product model, plug shape, power, and quantity must be clearly specified:

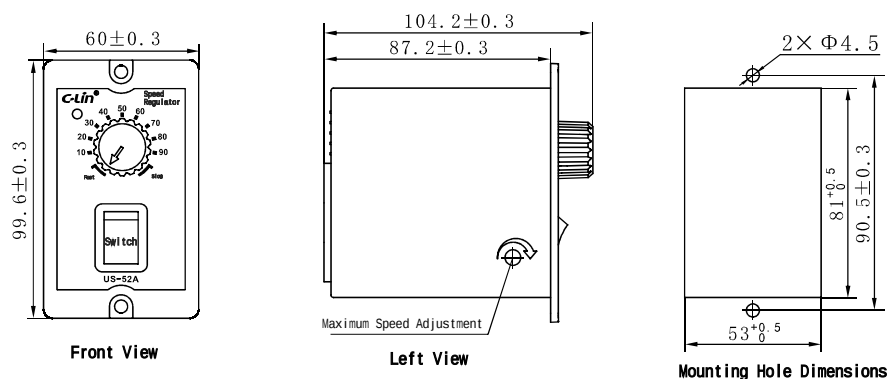
Example: US-52A, Flat Plug, 90W, 600 pieces;
US-52A, Square Plug, 90W, 600 pieces;
US-52A, C-shaped Plug, 90W, 600 pieces.

VIII. Environmental Protection and Other Legal Regulations

To protect the environment, when this product or its components are discarded, please properly dispose of them as industrial waste; or hand them over to recycling and disposal stations for classified disassembly, recycling, and reuse in accordance with relevant national regulations.

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IV. Outline and Mounting Hole Dimensions (mm)



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V. Instructions for Use

- The speed regulator has a soft-start function and starts slowly when powered on.
- This product adopts the feedback voltage control of the motor's self-contained generator. The feedback wires are the yellow and blue ones.
- If the torque or speed does not meet the requirements, please adjust the potentiometer on the side of the product. Turn clockwise to increase and counterclockwise to decrease.
- The operations for changing the motor's running direction are as follows:
 - Motor forward rotation: Connect COM to CW.
 - Motor reverse rotation: Connect COM to CCW.



C-Lin
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国家高新技术企业 浙江省名牌产品

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使用说明
Products Instructions

US-52A

Speed Regulator for AC Motor

Thank you very much for using the C-Lin brand speed regulator. Please read the instruction manual before using the product!

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