PANEL-TYPE GOVERNOR OF US SERIES USER'S MANUAL

Thanks for purchasing and using products of US system. Please make sure to carefully read the user's manual before installing and using the product for guaranteeing your safety and correct operations!

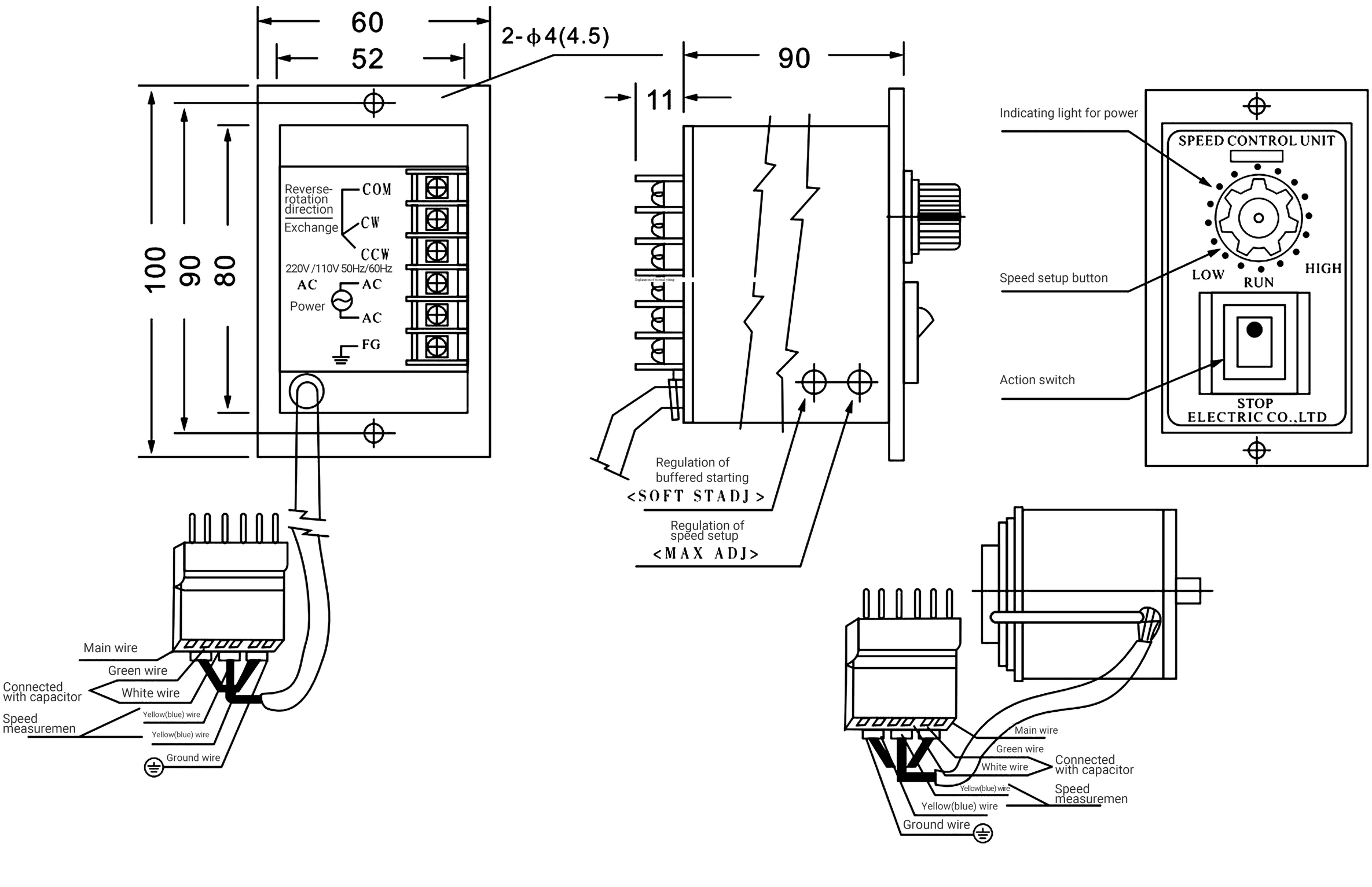
◆ General description of product:

With the novel electronic circuits and integrated components, the electronic governor of US series for AC single-phase asynchronous motor is endowed with features of small volume, high precision, wide speed regulation scope, low energy consumption, long service life, convenient application and so on. Moreover, it can be applied with single-phase asynchronous motor manufactured domestically for the purpose of constant feedback speed and stepless speed regulation. On such basis, it has been widely applied with the devices for speed regulation and driving in production line related to packaging, printing, food electronics, instrumentation, clothing machinery, medical machinery and so on.

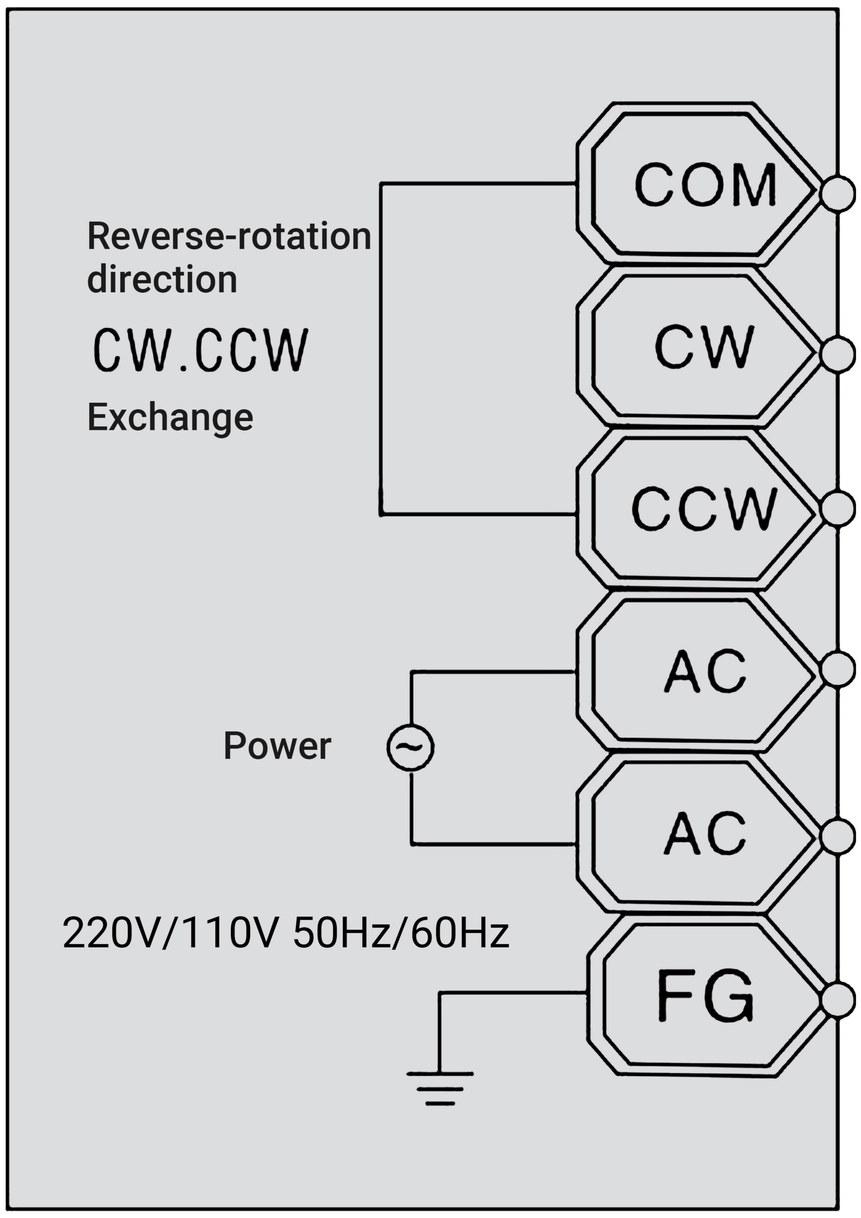
Input power	110V+/-10%			220V+/-10%		
Frequency of power	50Hz/60Hz					
Running mode	VR modulation type					
Scope of speed regulation	50Hz 90~ 1400RPM			60Hz 90~1700RPM		
Scope of working temperature	-10°C~ 50°C					
Model	206	315	425	540	560	590
US-□□□ 01(110V)	2.5UF	4.0UF	6.0UF	10UF	14UF	20UF
US-□□□ 02(220V)	1 UF	1.5UF	2UF	3UF	4UF	6UF
US-□□□ 11(110V)	3.0UF	6.0UF	8.0UF	12UF	16UF	25UF
US-□□□ 12(220V)	1 UF	1.5UF	2UF	3UF	4UF	6UF

Starting capacitor: in terms of AC110V, it adopts 250V capacitor with voltage-withstand capacity and AC220V adopts 450V capacitor with voltage-withstand capacity

◆ Explanation of external wiring:



◆ **Wiring figure for panel-type governor of US series**



Panel-type governor of US series

Rotation direction

“COM and CW” should be linked if motor needs to run forward

“COM and CCW” should be linked if motor needs to run backward

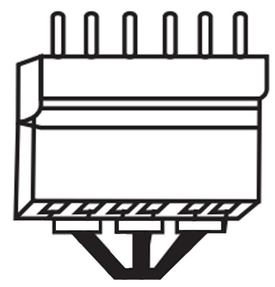
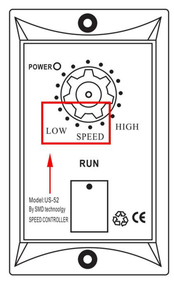
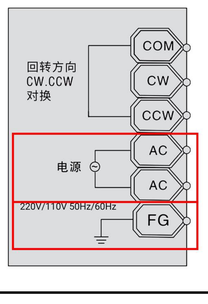
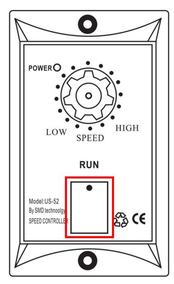
The switch “K” controlling forward and backward running of motor should be linked among “COM”, “CW” and “CCW” if motor needs to run forward and backward.

The power of the speed regulation motor must be in line with that of the governor.

Please check if the power of the governor shown on model label is in line with the motor power.

The wiring end can be changed only after motor stops during direction-changing process.

Specific steps for governor

Step 1	Point the main wire of governor to that of the motor (With mark on plug) Plug it accordingly	
Step 2	Regulate the governor knob to LOW position (on the bottom of left end) before power on . Press power-on/off button after ensuring the right position of knob.	
Step 3	Apply AC power wire of 220V/110V to the two AC ends behind the governor, then apply ground wire to the FG end behind the governor.	
Step 4	Turn on power-on/off button of the governor and regulate the speed with knob.	

◆ **Notice on use**

1.Please maintain the original wiring mode, do not change it casually.
2.Please avoid using the product within the explosive environment, flammable gas environment, corrosive environment, sites easy to get wet or around combustibles.
3.Please avoid constant vibration and excessive impact.
4.The temperature of motor outer shell may be over 70°C during normal operation of motor, so please add burning warning signs for any possible contact with motor.
5.Please regulate the knob to “0” firstly, which is to avoid permanent damage to the controller led by excessive instantaneous current in use.
6.Ensure to connect ground wire properly.
7.Please shut the power if it is not used for long time.
8.The speed regulation motor should not be kept in low-speed running for long time, which is to avoid the failure of cooling function for high-power motor fan, moreover, there is too large current for low-speed running, which leads to the burning of the motor.
9.In terms of installation, wiring, checking and other operations, they must be conducted by the relevant professional personnel.