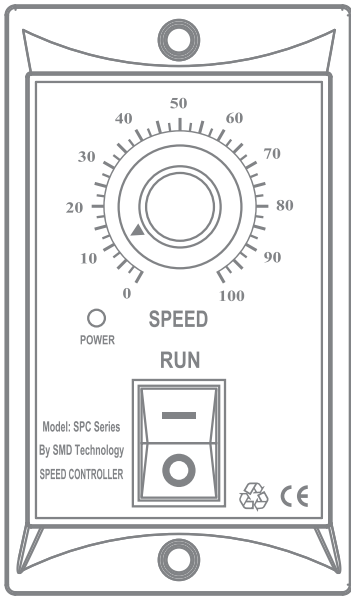


(Technical Data) EA Series Economy-Type Speed Controller

US Series Speed Controller
User Manual



- ◆ Features
 - Manufactured using SMD technology for high reliability.
 - Simple wiring and easy operation.
 - Built-in run capacitor.
 - When combined with a speed-regulating motor, it achieves a wide range of stepless speed adjustment.
- To ensure safety and proper operation, please read this manual carefully before installation and use

(Technical Data) EA Series Economy-Type Speed Controller

- ◆ Precautions for Use
 - Do not use the device in explosive atmospheres, flammable gas environments, corrosive environments, areas exposed to water, or near combustible materials.
 - Avoid continuous vibration and excessive impact.
 - During normal operation, the motor housing temperature may sometimes exceed 70°C. Therefore, in environments where the motor may be touched, please attach the warning label shown below.

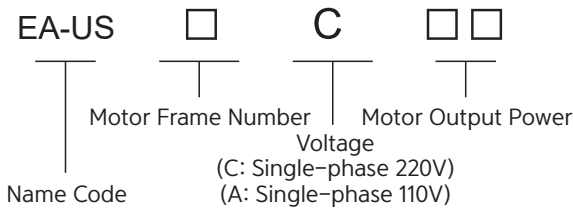


- The motor must not operate continuously under heavy load at low speed for an extended period.
- Ensure that the grounding terminal is properly grounded.
- Installation, wiring, inspection, and related tasks must be performed by qualified technical personnel.

Manufacturer: NINGBO ZHONGDA LEADER INTELLIGENT TRANSMISSION CO., LTD.
Manufacturing Address: No. 185, Xinxing 1st Road, Emerging Industrial Cluster Zone, Cixi City, Zhejiang Province
Sales Tel.: 0574-63531113/4/5
Fax: 0574-63534879
Website: WWW.ZD-MOTOR.COM

(Technical Data) EA Series Economy-Type Speed Controller

- Model Definition Rules:
- Panel Type:

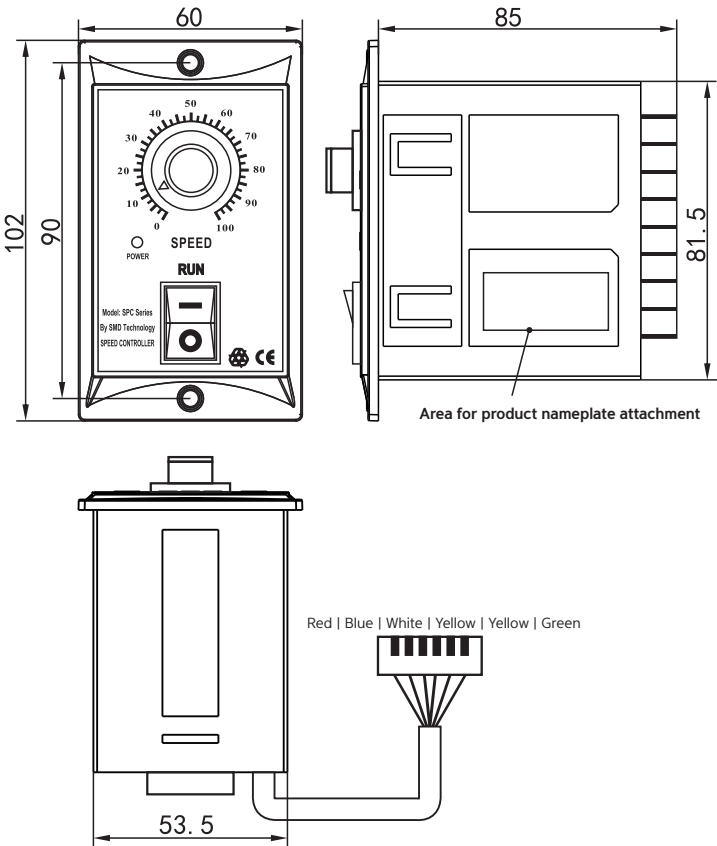


◆ Model / Performance Parameter Table

Model	Single-phase 220V	EA-US2C-6	EA-US3C-15	EA-US4C-25	EA-US5C-40	EA-US5C-60	EA-US5C-90	EA-US5C-120	EA-US6C-120	EA-US6C-140	EA-US6C-200
	Single-phase 220V	☒ D	☒ D	☒ D	☒ D	☒ D	☒ D	☒ D	☒ D	☒ D	☒ D
	Single-phase 220V	EA-US2A-6	EA-US3A-15	EA-US4A-25	EA-US5A-40	EA-US5A-60	EA-US5A-90	EA-US5A-120	EA-US6A-120	EA-US6A-140	EA-US6A-200
	Single-phase 220V	☒ D	☒ D	☒ D	☒ D	☒ D	☒ D	☒ D	☒ D	☒ D	☒ D
Applicable Motor Power		6W	15W	25W	40W	60W	90W	120W	120W	140W	200W
Applicable Motor Type		Speed-regulating motor									
Installation Method		Panel-mounted									
Speed Regulation Method		Panel Potentiometer									
Run Capacitor		Built-in (integrated in the speed controller)									
Speed Regulation Range		50 Hz: 90-1400 r/min; 60 Hz: 90-1600 r/min									
Power Frequency		50Hz ~ 60Hz									
Operating Environment		-10°C to +45°C (no freezing), below 85% RH (no condensation)									

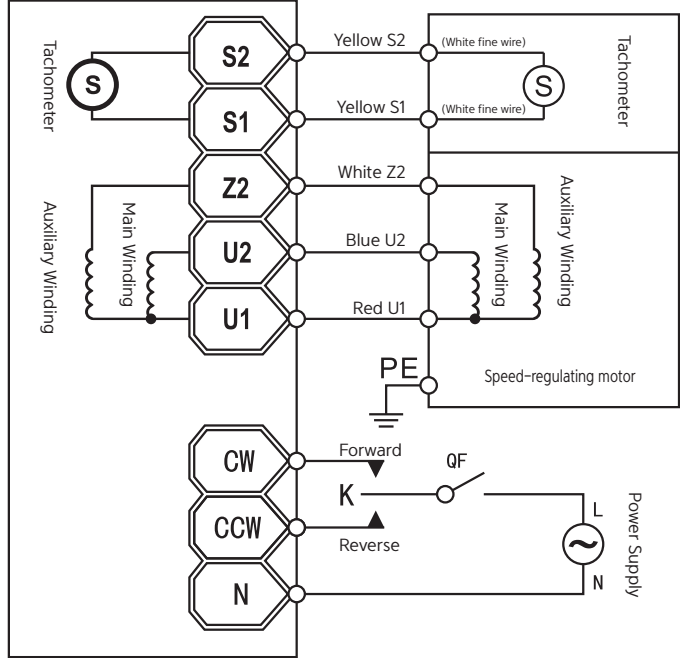
(Technical Data) EA Series Economy-Type Speed Controller

◆ Appearance and Installation:



(Technical Data) EA Series Economy-Type Speed Controller

◆ Speed Controller Wiring Diagram:



◆ Rotation Direction:
For forward rotation: Connect “L” to “CW”;
For reverse rotation: Connect “L” to “CCW”;
For both forward and reverse rotation: Connect “L”, “CW”, and “CCW” through the forward/reverse control switch “K”
Note: The contact capacity of switch “K” must be no less than 10A.

The power rating of the speed-regulating motor must match the applicable motor power rating of the speed controller. Please verify that the power shown on the controller nameplate corresponds to the motor’s power rating.

Power supply voltage must match the rated voltage of the controller. QF is a circuit breaker that protects the speed controller and the speed-regulating motor in case of a short circuit. K is the forward/reverse switch, with a current rating of 10A or above

Power Supply Voltage	Motor Power	QF Current Rating
220V	6–90W	1A
220V	120–200W	2A
110V	6–90W	2A
110V	120–200W	4A

