

SK Series Built-in SPEED CONTROLLER

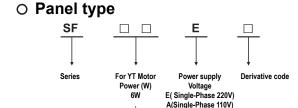
Feature

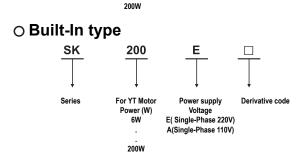
- o Using MCU digital control technology, abundant functions and excellent peformance.
- O Using digital display of menu options, more convenient to modify and set.
- Based on user's display requirement to set display ratio, automatic conversion and display target value.
- Able to achieve slow acceleration and slow deceleration.
- Able to achieve panel control and external switch control.
- Panel knob automatic matching with the highest speed, more convenience and safety to adjust and control
- Locked-rotor protection function, prevent motor and speed controller to be burn out for locked-rotor.
 (This function is to protect the overload by locked-rotor, but it can not protect the overload by unlocked-rotor)

Model

Sort	SF Series Panel Speed Controller		SK Series Built-In Speed Controller	
Power of Motor	220V	110V	220V	110V
6W	SF06E	SF06A		SKOOO A
15W	SF15E	SF15A		
25W	SF25E	SF25A		
40W	SF40E	SF40A	SK200E	
60W	SF60E	SF60A	3KZUUE	SK200A
90W	SF90E	SF90A		
120W	SF120E	SF120A		
200W	SF200E	SF200A		

■ Name Code



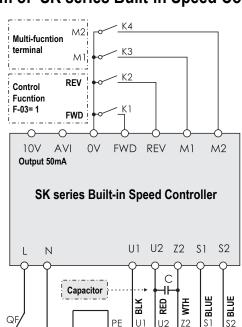


■ Specifications

Model	SF□□E	SF□□A	SK200E	SK200A	
Туре	PANEL		BUILT - IN		
Supply Voltage	Single-phase 220V	Single-phase 110V	Single-phase 220V	Single-phase 110V	
Freq	50/60Hz				
Motor	YT series Variable Speed Motor				
Capacitor	Built-in speed controller		Built-out speed controller (need connect)		
Motion control fucntion	Panel or external switch motion control, speed adust, slow acceleration, slow deceleration		Extenal switch motion control, speed adjust, slow acceleration, slow deceleration, fast stop. 4 segments speed		
Speed adj method	Panel "▲ " or "▼ " Key, Panel Knob		Panel "▲ " or "▼ " Key, Panel Knob, 0-10V analog Voltage		
Speed Range	90-3000 r/min (Users can according to the motor's pole. power frequency. use requirement to set				
Operation Ambient	Ambient Temperature: -10°C ~ +45°C (No Freezing), Ambient Humidity: Less than 85% (No Condensation)				

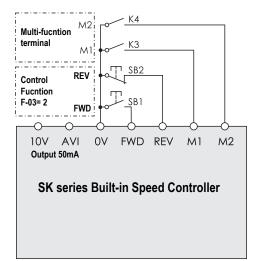
Website: www.jscc-china.com

Connection Diagram of SK series Built-in Speed Controller



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velometer



Voltage	Power	Current
220V	6~90W	1A
220V	120~200W	2A
110V	6~90W	2A
110V	120~200W	4A

Current specification

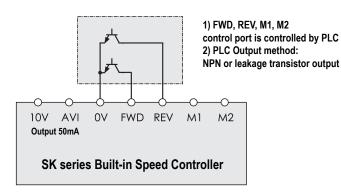
Power supply voltage must be consistent with Speed controller's power Voltage. QF for circuit breaker, in case of short circuit, it can protect Speed controller and YT Series Motor.

Capacitor's specification

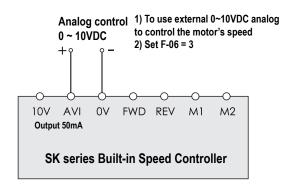
Power Voltage	220V	110V
6W	0.7µF / 450V	2.5µF / 250V
15W	1μF / 450V	4µF / 250V
25W	1.5µF / 450V	6μF / 250V
40W	2.5µF / 450V	10μF / 250V
60W	3.5µF / 450V	14µF / 250V
90W	5µF / 450V	20μF / 250V
120W	6µF / 450V	24µF / 250V
200W	10μF / 450V	40μF / 250V

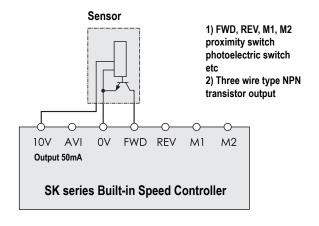
Atth.the operatng capacitor matchs the corresponding motor and it is placed in motor's package.

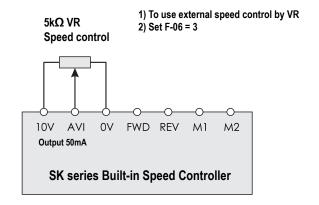
10V port's Output (max 50mA)



Power supply



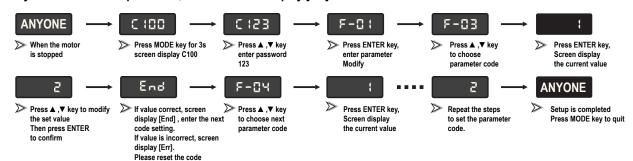






Menu of SK series Built-in Speed Controller

 Notice: For keeping sate. please modity the parameter F-03,F-05,F-29 when the motor IS in stop state, otherwise you can not set the parameter, and the screen display [Err].



Parameter of SK series Built-in Speed Controller

Parameter code	Parameter function	Setting range	Function description	Factory set value	User set value
F-01	Display content	Motor speed setting value Range speed setting value	Range speed	1	
F-02	Set range	1.0 ~ 999.9	According the target value	1.0	
F-03	Operation control mode	1. FWD/REV 2. FWD/ STOP	FWD/REV, use switch K1 K2 FWD/STOP, use knobs SB1 SB2	1	
F-04	Rotate mode	1. Allow FWD and REV 2. Allow FWD, non REV 3. Allow REV non FWD	To limit motor rotation direction, prevent equipment failureor accident. When F-03 = 2; F-04 = 2 by itself, and can not be changed by setting. if you want to change the direction of rotasion, you can set the value by F-05	1	
F-05	Direction of Rotation	Not to change to opposite direction Change to opposite direction	Easy to change the motor rotation direction, not to change the motor's wiring, make it consistent with the habits or requirement	1	
F-06	Main speed adjust mode	1. Panel ▲ ,▼ key 2. Panel knobs 3. External 0~10VDC analog	1. When the muli-function terminals of M1,M2 is closed anytime, the motor runs as segments speed, the main speed adjust is invalid. 2. The panel knob and external 0-10V analog automatically match 0-Max. speed. 3. Because the external speed control potentiometer connect with AVI input port of 0-10V analog. So when the external speed control potentiometer is used, the main speed adjust mode F-06 should choose "3".	1	
F-07	Max. speed	500 ~ 3000	Limit the maximum speed of motor	1400	
F-08	Min. speed	90 ~ 1000	Limit the minimum speed of motor	90	
F-09	FWD-start Acceleration time	0.1 ~ 10.0s	The Forward -start acceleration time of Motor	1.0	
F-10	Forward-stop mode	Free deceleration stop Quick stop Slow deceleration stop	1. When F-10=2 To change the speed of stop, change the setting value F-11 2. When F-10=3 To change the speed of stop, change the setting value F-12	1	
F-11	Intensity Quick FWD-stop	1~10	When F-10=2, this function is valid, This value set more highest, the motor stops more quick	5	
F-12	FWD stop slow deceleration time	0.1 ~ 10.0s	When F-10=3, this function is valid, This value set more highest, the motor stops more slow	1.0	
F-13	REV-start Acceleration time	0.1 ~ 10.0s	The Revertsal -start acceleration time of Motor	1.0	
F-14	Reversal-stop mode	Free deceleration stop Quick stop Slow deceleration stop	When F-14=2 To change the speed of stop, change the setting value F-15 When F-14=3 To change the speed of stop, change the setting value F-16	1	
F-15	Intensity Quick REV-stop	1~10	When F-14=2, this function is valid, This value set more highest, the motor stops more quick	5	
F-16	REV stop slow deceleration time	0.1 ~ 10.0s	When F-14=3, this function is valid, This value set more highest, the motor stops more slow	1.0	
F-17	First Segment speed	Min. speed ~ Max. speed	M1 close, motor run as the first segment speed	500	
F-18	Second Segment speed	Min. speed ~ Max. speed	M2 close, motor run as the second segment speed	700	
F-19	Third Segment speed	Min. speed ~ Max. speed	M1 and M2 close, motor run as the second segment speed	900	
F-29	Recover factory setting	No Recovery Recover the factory setting		1	
F-30	Program Version	Code + Version		02.火火	

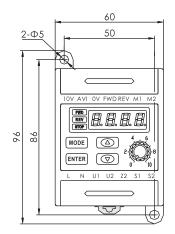
- 2. The connection of motor and controller is un-normal

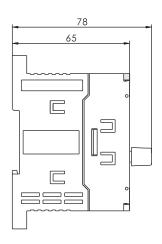
- 1. Check and debuging
- 2. To power on remove alarm

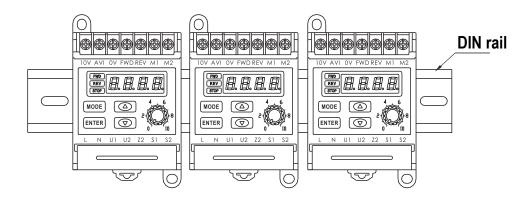
ei.: 0592-570 2588 / 400-888-7288

Website: www.jscc-china.com

Appearance/ Installation Dimension of SK series Built-In Speed Controller







Precautions



- ! Do not use in a place where there is flammable gas and/or corrosive gas.
- ! Avoid continuous vibration over impact.
- I The motor case temperature can exceed 70°C (depending on operation conditions). In case the motor is accessible during operation, please attach the following warning label so that it is clearly visible.
- ! Please connect the grounding terminal with the ground point of the equipment.
- ! Installation, connection and inspection must be performed by a qualified installer.