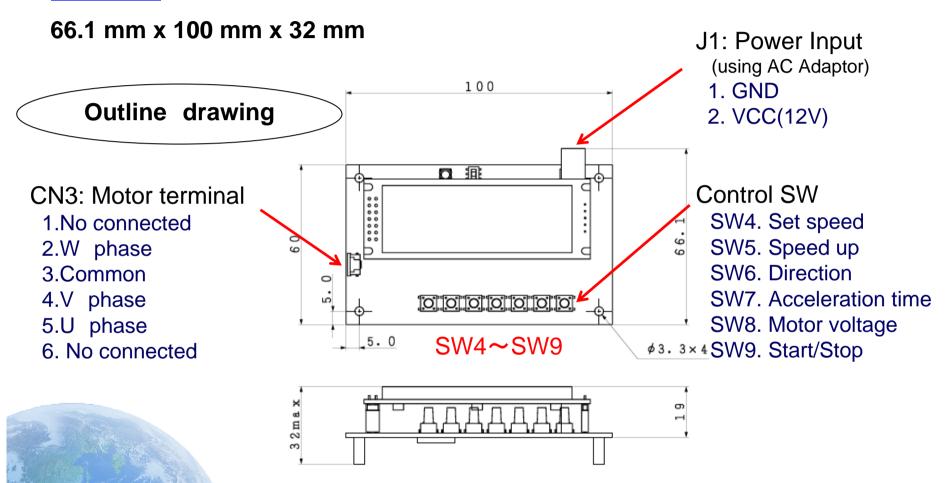


Outline



The SOD12ST drives the brushless motor with the constant frequency sinusoidal wave. Therefore, the motor can be made to drive smoothly.



Electrical characteristics

	Min.	Тур.	Max.	
Power supply voltage	11.5	12	12.5	V
Consumption current			250	mA
Output voltage	1.0		5.0	V
Output current			0.7	Α
Motor speed	100		190000	rpm
Acceleration time	1		9	S
Operating temperature range	0		50	°C
Weight		60		g

* The minimum resolution of setting the rotation speed is 60 rpm.

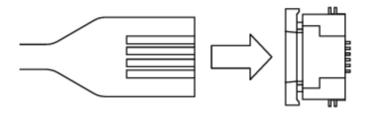
Example 1. 6059 rpm is set to 6000rpm.

Example 2. 6100 rpm is set to 6060rpm.



Connecting Instruction

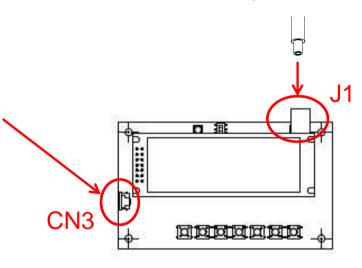
Motor cable is connected to CN3



Motor cable is inserted to CN3 the terminal side up.

AC adaptor is connected to J1

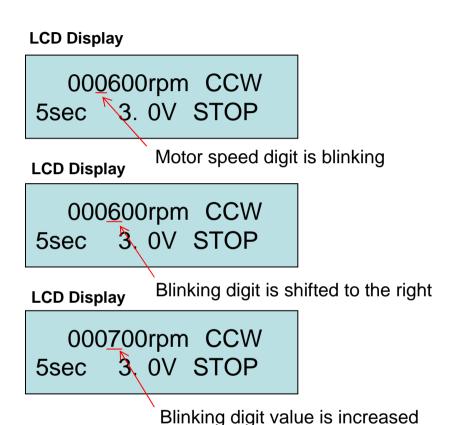
AC adaptor (DC12V)







- Motor speed setting
 - 1. Once SW4 is pressed, the motor speed value blinks. (The left-most value is blinking at first)
 - 2. Press SW4 to select the digit you want to change.
 - 3. Press SW5, the blinking digit value will increase.
 - 4. If SW4 is pressed while blinking the right-most digit value, it will be effective the speed.





Rotating direction setting

Rotating direction is set by pressing SW6. (CW / CCW)

Acceleration time setting

Acceleration time is set by pressing SW7. (Adjustable range: 1 sec to 9 sec.) In case the motor cannot be started, there is a possibility to start by increasing this value.

LCD Display

M 000600rpm CCW 5sec 3. 0V STOP

LCD Display

M 000600rpm CW 5sec 3. 0V STOP

LCD Display

M 000600rpm CW 5sec 3. 0V STOP



Motor voltage setting

Motor voltage is set by pressing SW8. Voltage setting resolution: 0.1V

LCD Display

000600rpm CCW 5sec 4.6V STOP

Operation

Motor is operated by pressing SW9. It is switched to start and stop.

*Motor is not started during speed setting.

LCD Display

000600rpm CCW 5sec 3.0V STOP

LCD Display

000600rpm CCW 5sec 3.0V RUN