1. Specifications

Driver Name	**SBDSMD-05A**
Input Voltage	AC 100 ~ 220 V ±15%
Maximum Allowable Current	3A
Frequency	50/60Hz
Speed Control Range	300~3000 RPM
Insulation Resistance	Measured value of 100MΩ at DC500V Mega Input Columns
Environment	Ambient temperature 0℃ ~ 50℃ (Is not freezing)
Speed Settings	External speed setting
Input Signal	Photocoupler
Output Signal	Open Collector
Protection	Overload / Incorrect connection -> Motor Stop

2. Functions

2-1) Display

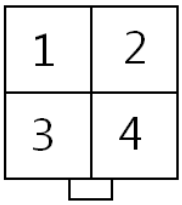
Power	- PW LED will light when you connect the power.
Fault	- FLT LED will light when the driver Incorrect connection, low voltage, overload
ALARM	- ALM LED lights come on when the overload. And the output is low.

2-2) U/I

②Dir. Out	- HIGH signal is output on CW and vice versa. (Open collector signal)
③ALARM Out	- When protective function (over current, misconnection, Motor fault) is acted, LED is turned on and motor is stopped of itself, then alarm is out.
④SPEED Out	- Pulse output is proportional to speed. - 60□: 6pulse/rev, 80□, 90□: 18 pulse/rev, SL: 12 pulse/rev.
⑤⑥⑦SPEED	- Please keep the voltage level under 5V when using another voltage source. - CW is the direction increasing a speed when using a variable resistance at #5,6,7 of U/I Connector.
⑨Direction	- Direction of rotation is changed when F/R pin is connected to GND ※ What the direction is changed at a high speed condition is so dangerous. (Please contact to us.)
⑩Break	- Free if Brk pin is connected to GND and vice versa. - Block of the motor current is flowing.(Dynamic brake) ※ This is an option. If you need this function, please contact to us.
⑪Run / Stop	- R / S terminal GND and non-contact Run, contact Stop.
⑫/INT Speed	- INT Speed (12) terminal GND (1) and contact, Variable resistor attached to the driver board to change the speed, If you do not contact EXT Speed.
⑬/ALARM RESET	- When OC LED is turned on/ Alarm Reset (13) terminal GND(1)and contact the Alarm is reset.
Slow start	- Variable resistor S/S (variable resistor is attached to the driver board) by adjusting You can adjust the speed of the motor response - Clockwise direction, the reaction speed is slow.

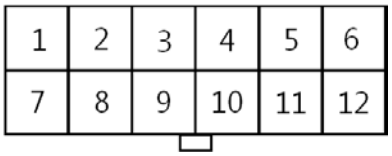
3. Connector Specifications

3-1) Power (Driver : 5557D – 04, Housing : 5264D – 04)



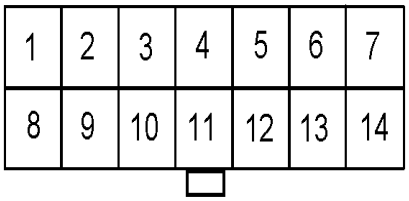
1	2	3	4
AC Input	N.C.	AC Input	FG

3-2) Motor (Driver : 5557D – 12, Housing : 5264D – 12)

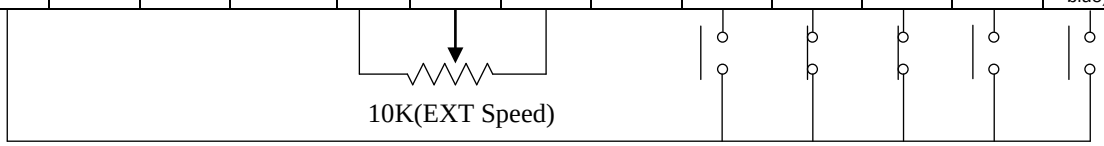


1	2	3	4	5	6
W			Hw	Hv	Hu
Motor			Hall Signal		
7	8	9	10	11	12
V	U	FG		Vcc	GND
Motor				Hall Power	

3-3) User Interface (Driver : 5557D– 14, Housing : 5264D – 14)



1	2	3	4	5	6	7	8	9	10	11	12	13	14
COM (Black)	Dir.Out (Green)	/Alarm Out (Purple)	Speed Out (Orange)	COM (Blue)	User Speed (Yellow)	HIGH (Red)	N.C	F/R (Brown)	Brk (White)	R/S (Pink)	/INT SPEED (Gray)	/Alarm Reset (Light blue)	N.C



※Tip.

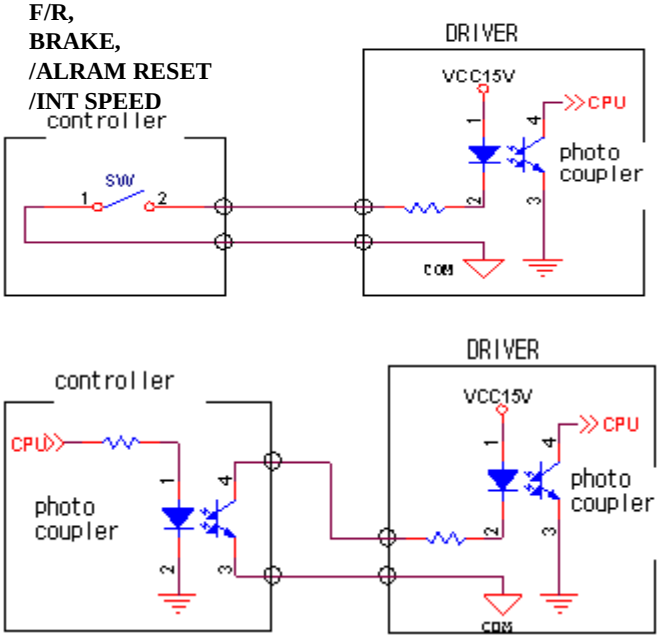
Black(1)+white(10)+Pink(11)after the connection speed, turn the variable resistor in a clockwise direction = CCW rotation

Black(1)+white(10)+Pink(11)+brown(9) after the connection speed, turn the variable resistor clockwise direction = CW rotation

4. Interface with another controller

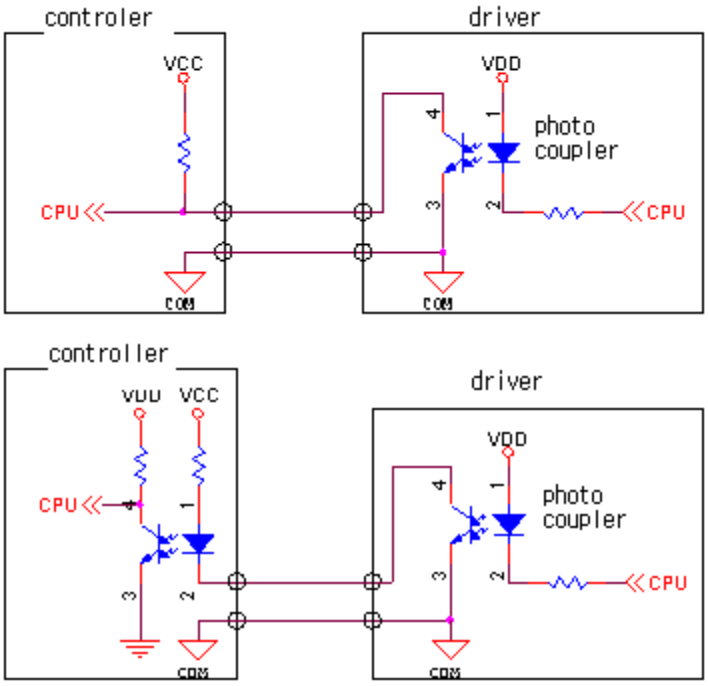
Driver Input

S/R,
F/R,
BRAKE,
/ALRAM RESET
/INT SPEED



Driver output (Open Collector)

Direction Out
ALARM Out
Speed Out



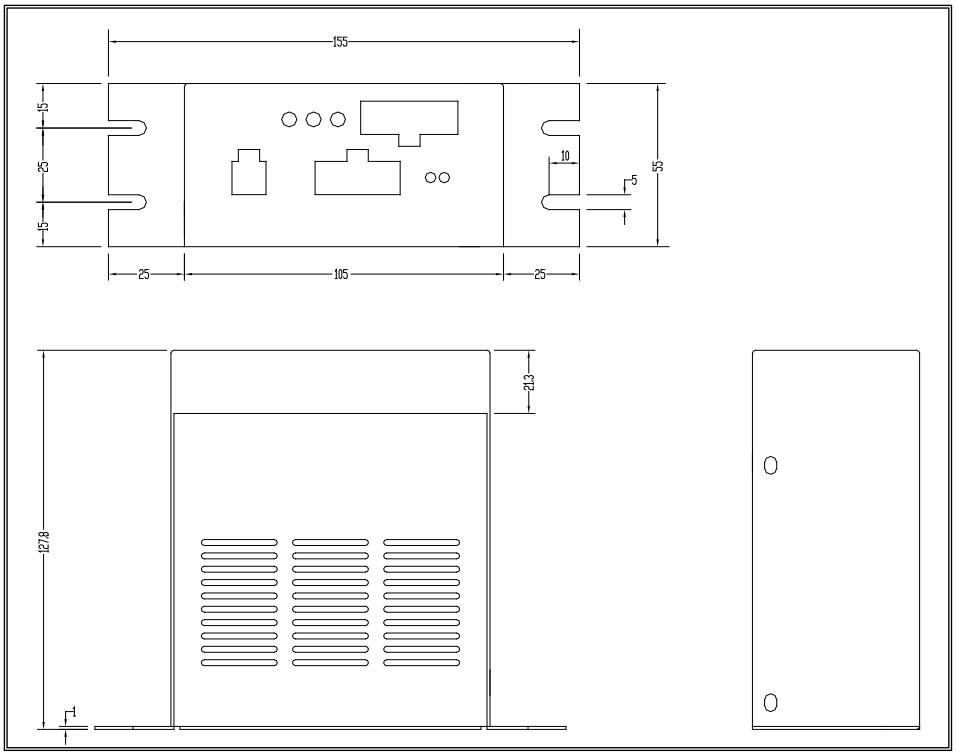
Open collector output when the driver
Controller power input conditions
VCC : DC 5V~24V
IC : 1mA~5mA

Speed Command

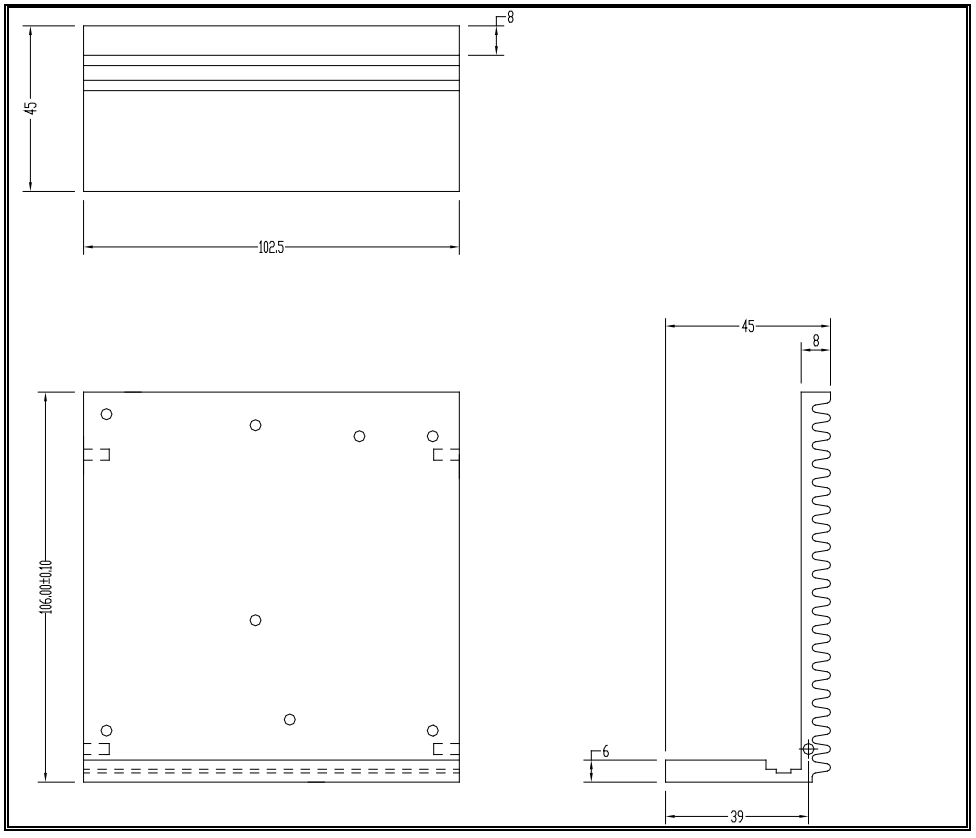
U / I Connector 6 Speed terminal of the analog voltage (0 ~ 5V) will enter.

5. Dimension

5-1) CASE



5-2) HEATSINK



5-3) Cases outside