

33C Series 3in1 Driver

Basic Installation Instructions v1.5

1. Applicable Drivers:

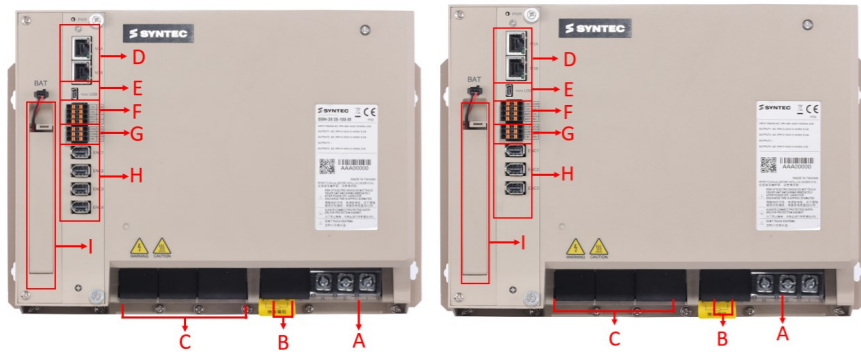
The types of applicable drivers are as follows:

Type	Product Name
1	S08-SMD33C2050-00 SMH-20/20-50-M Three-in-one Driver
2	S08-SMD33C2575-00 SMH-25/25-75-M Three-in-one Driver
3	S08-SMD33C35100-00 SMH-35/35-100-M Three-in-one Driver
4	S08-SMD33D2050-00 SMH-20/20-50-M Three-in-one Driver
5	S08-SMD33D2575-00 SMH-25/25-75-M Three-in-one Driver
6	S08-SMD33D35100-00 SMH-35/35-100-M Three-in-one Driver

2. Driver Interface Instructions

● 2575/35100 (Top View)

● 2050 (Top View)



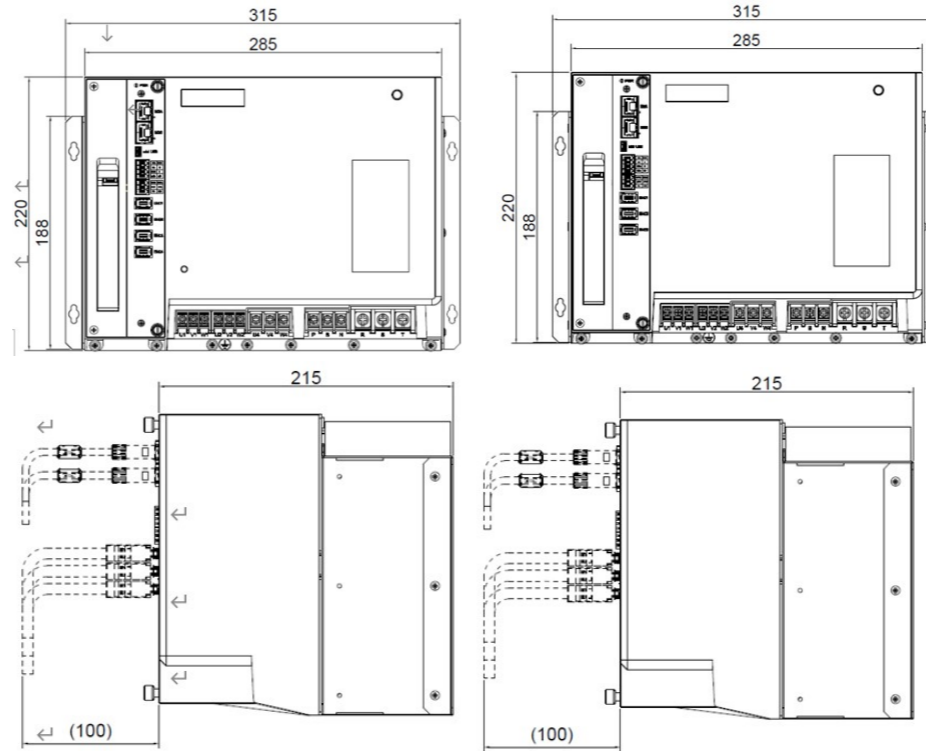
Driver Function

Label	Function	Description
A	External Power Supply	Connect to 380V three-phase electrical power (RST).
B	Regenerative Resistor	External regenerative resistor connects to P and B.
C	Machine Power Supply	3 sets in total, from the left to right are the 1 st , the 2 nd , and the 4 th axis.
D	MIII Serial Communication Port	Connect to the host controller (MIII Signal). Connect to the serial driver (MIII Signal).
E	Mini USB Port	Connect to personal computer.
F	I/O Signal Port	Connect to I/O equipment (the emergency stop, indicator lights, etc.)
G	STO Signal Port	STO interface, two sets of safety input, one set of safety function feedback
H	Encoder Feedback	From top to bottom are the 1 st port to the 4 th port connecting to motor encoders.
I	Battery for saving memory	The power supply for absolute encoders to save memory

3. Controller Specifications (Unit: mm)

● 2575/35100

● 2050

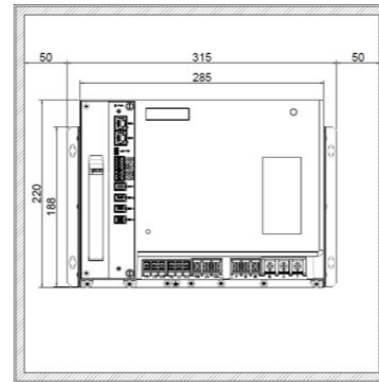


4. Installation Specifications (Unit: mm)

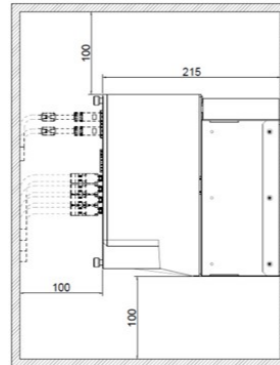
● Default Settings

● 2575/35100

(Top View)

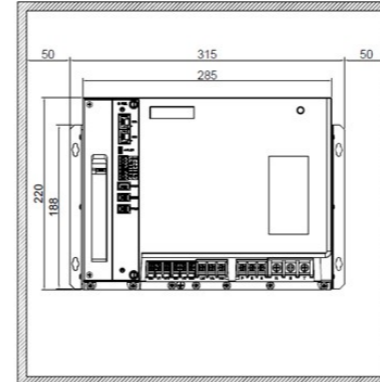


(Side View)

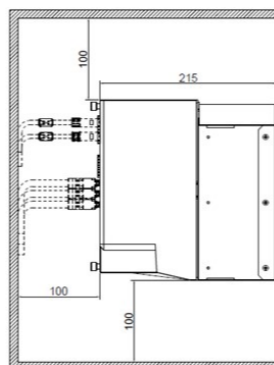


● 2050

(Top View)



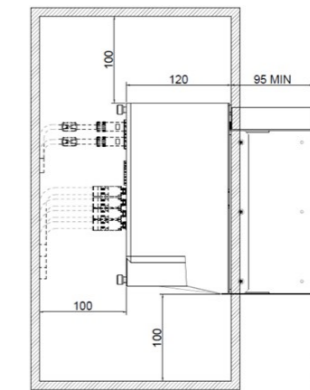
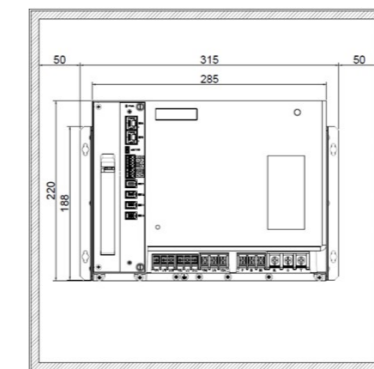
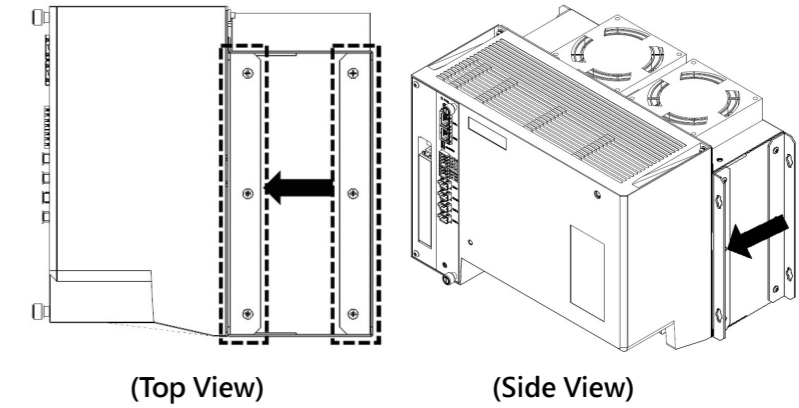
(Side View)



● Recommended Common Heat Dissipation Arrangements(Clients can adjust yourselves)

For heat dissipation, operators may remove the original L-bracket on the bottom and attach it to the middle.

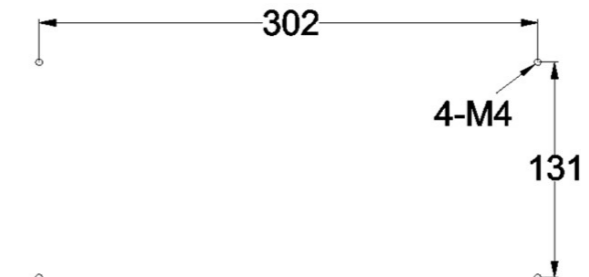
1. The hole in the middle for installing opposite.



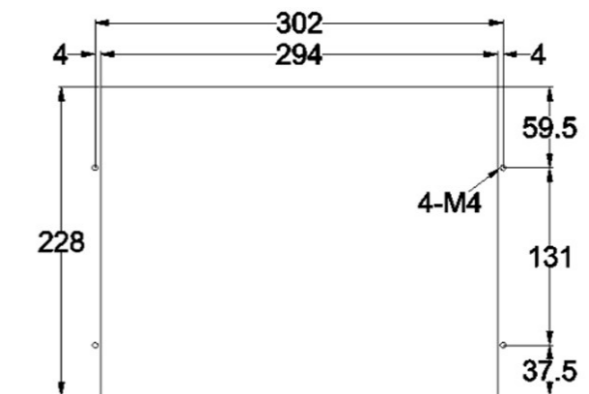
5. Common Mounting Hole Specification (Unit: mm)

Please install with M4 screws.

● Default Settings



● Recommended Common Heat Dissipation Arrangement

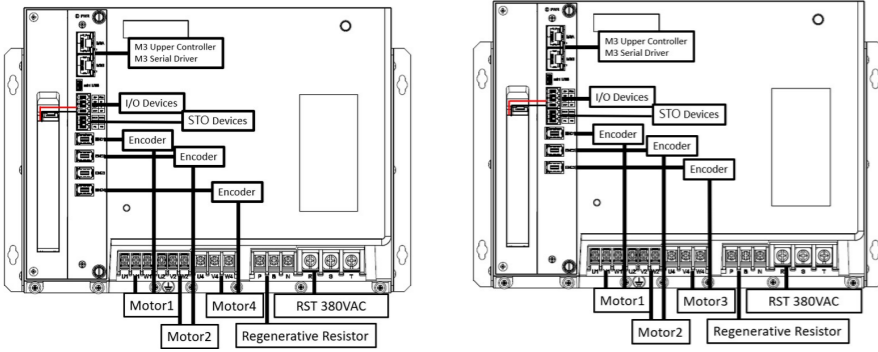


6. Basic Wiring Diagram

- Please Confirm whether the wiring of the U, V, W terminals output to the motor is correct, otherwise it may cause reversal or abnormality, and the encoder must be adjusted again.
- When wiring the host controller, either the general servo signal or the serial servo signal can be installed.

● 2575/35100

● 2050

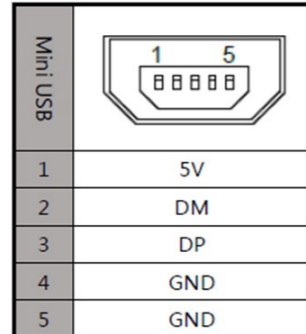
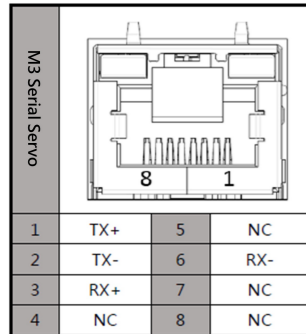


※Recommended Encoder Wire Diameter:
22AWGx2C+24AWGx2P Over 90% coverage.

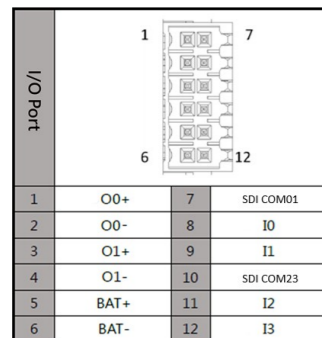
7. Interface Configurations

Please notice the value and polarities of voltages.

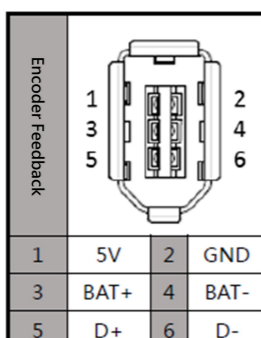
- Serial Communication Port Arrangement
- Mini USB Port Arrangement



- I/O Signal Port Arrangement



- Encoder Feedback Arrangement



8. Driver Specifications

Type	S08-SMD33C2050-00 S08-SMD33D2050-00	S08-SMD33C2575-00 S08-SMD33D2575-00	S08-SMD33C35100-00 S08-SMD33D35100-00
Input Voltage	AC 3PH 380~440V 50/60Hz		
Input Current	25A	35A	45A
Output Voltage	Axis1~Axis2	AC 3PH 0~440V 0~400Hz	
	Axis4	AC 3PH 0~440V 0~400Hz	
Rated output current	Axis1~Axis2	3.5A	5.4A
	Axis4	15A	21A
Rated Power	Axis1~Axis2	1kW	1.5kW
	Axis4	5kW	7.5kW
Terminal Specifications	RST、PBN	Wire Specifications: 10~6AWG ; Rated Torque: 2.4N-m	Wire Specifications: 8~6AWG ; Rated Torque: 2.4N-m
	U ₄ V ₄ W ₄	Wire Specifications: 12~10AWG ; Rated Torque: 1.2 N-m	Wire Specifications: 10AWG ; Rated Torque: 1.2 N-m
	U ₁ V ₁ W ₁ ~U ₂ V ₂ W ₂	Wire Specifications: 16-12AWG ; Rated Torque: 1.0 N-m	Wire Specifications: 16~12AWG ; Rated Torque: 1.0 N-m
	I/O Signal Port	Wire Specifications: 24~26 AWG	
Power Source Environment	TN System ⁽¹⁾ Allowable voltage deviation: -15% ~ +10% Allowable frequency deviation: -5% ~ +5%		
Environment Condition	Ambient Temperature	Operating: 0 to 55°C (Without condensation. With de-rating above 40°C.) Storage/Transport: -20 to 65°C	
	Ambient Humidity	Operation: Below 90% RH (without condensation) Storage / Transport: Below 90%RH (without condensation)	
	Surroundings	In door (Avoid direct sunlight), avoid corrosive gas, avoid flammable gas	
	Height	Operating/Storage Altitude (Max.): 1,000 meters (With derating, usage is possible between 1,000 m and 2,000 m.) Transporting Altitude (Max.): 10,000 meters	
Vibration	5.9 m/s ²		
Pollution Degree	2		
IP Level	IP10		
Frame Size W × H × D mm	315 x 212 x 220		
Weight	5.69 Kg	7.5Kg	

NOTE :

- (1) TN System: The neutral point of the power system is grounded directly to earth, and the exposed metal components are grounded by protective earthing conductors.