

# S08-SMD-34C Series Four-in-one Driver

## Basic Installation Instructions v1.2

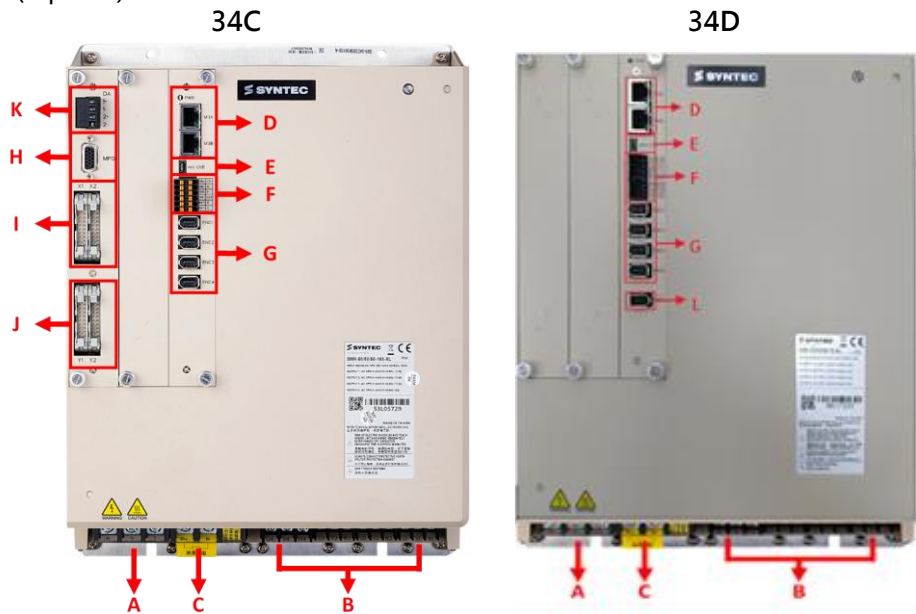
### 1. Applicable Drivers:

The types of applicable drivers are as follows:

Type	Product Name
1 S08-SMD34C2550-00	SMH-25/25/35-75-XL Four-in-one Driver
2 S08-SMD34C2550-03	SMH-25/25/35-75-XL Four-in-one Driver
3 S08-SMD34C3575-00	SMH-35/35/35-100-XL Four-in-one Driver
4 S08-SMD34C3575-03	SMH-35/35/35-100-XL Four-in-one Driver
5 S08-SMD34C50150-00	SMH-50/50/50-150-XL Four-in-one Driver
6 S08-SMD34C50150-03	SMH-50/50/50-150-XL Four-in-one Driver
7 S08-SMD34D2550-04	SMH-25/25/35-75-XL Four-in-one Driver
8 S08-SMD34D3575-04	SMH-35/35/35-100-XL Four-in-one Driver
9 S08-SMD34D50150-04	SMH-50/50/50-150-XL Four-in-one Driver

### 2. Driver Interface Specifications

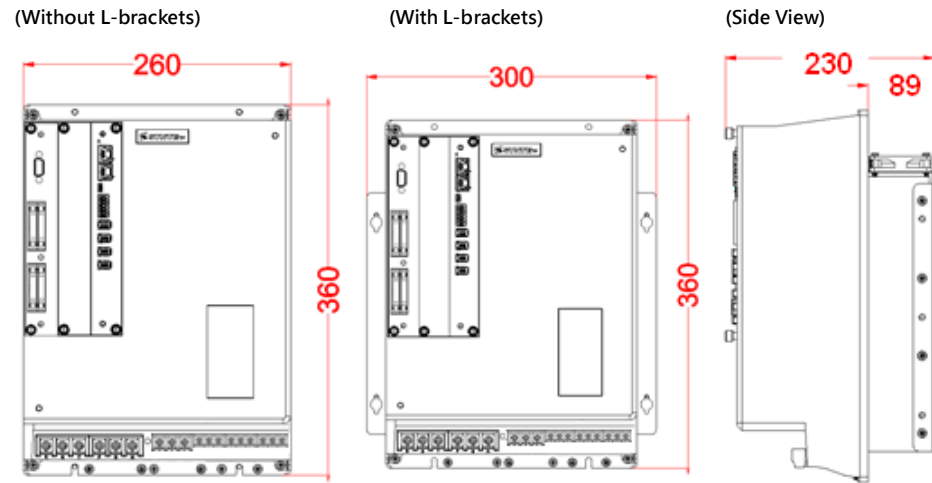
(Top View)



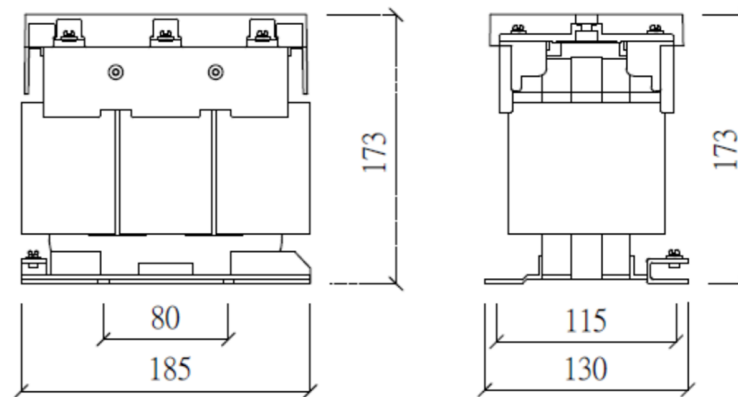
Functions	
A	External Power Supply Connect to 380V~440V three-phase AC power (RST)
B	Machine Power Supply Connect to motor and supply power (UVW) From right to left are the first axis to the fourth
C	Breaking Resistor Contact Breaking resistor contact (P-B)
D	MIII Serial Communication Port Connect to host controller (MIII Signal) Connect to serial driver (MIII Signal)
E	Mini USB Port Connect to personal computer
F	I/O Signal Port Connect I/O equipment (i.e. Emergency stop, indicator light, etc.)
G	Encoder Feedback Port From top to bottom are the first port to the fourth for connecting to motor encoders.
H	MPG Port Connect to MPG, able to connect to external MPG

	(optional, for -03 model only)	
I	X1 PORT (optional, for -03 model only)	Input interface; connect input termination board
J	Y1 PORT (optional, for -03 model only)	Output interface; connect output termination board
K	D/A Port	Two sets of D/A output interface
L	Encoder Feedback Port	The second feedback port of the fourth axis

### 3. Driver Specifications (Unit: mm)

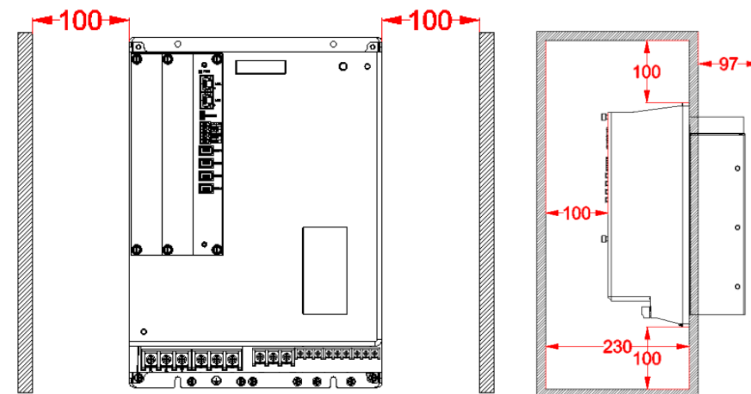


(Inductor)

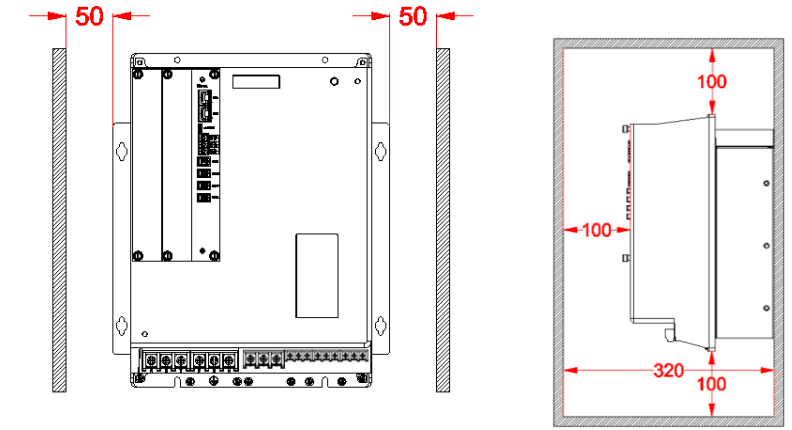


### 4. Installation Specifications (Unit: mm)

(Without L-brackets)



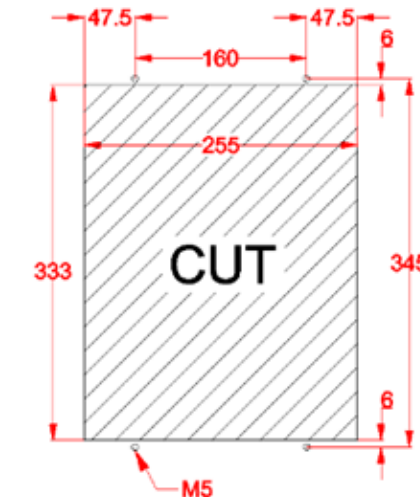
(With L-brackets)



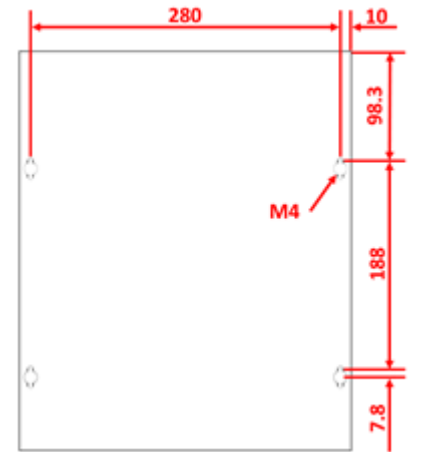
### 5. Mounting Hole Specifications (Unit: mm)

Please install with M5 or M4 screws.

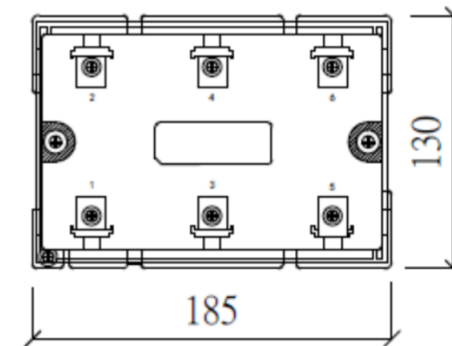
(Without L-brackets)



(With L-brackets)

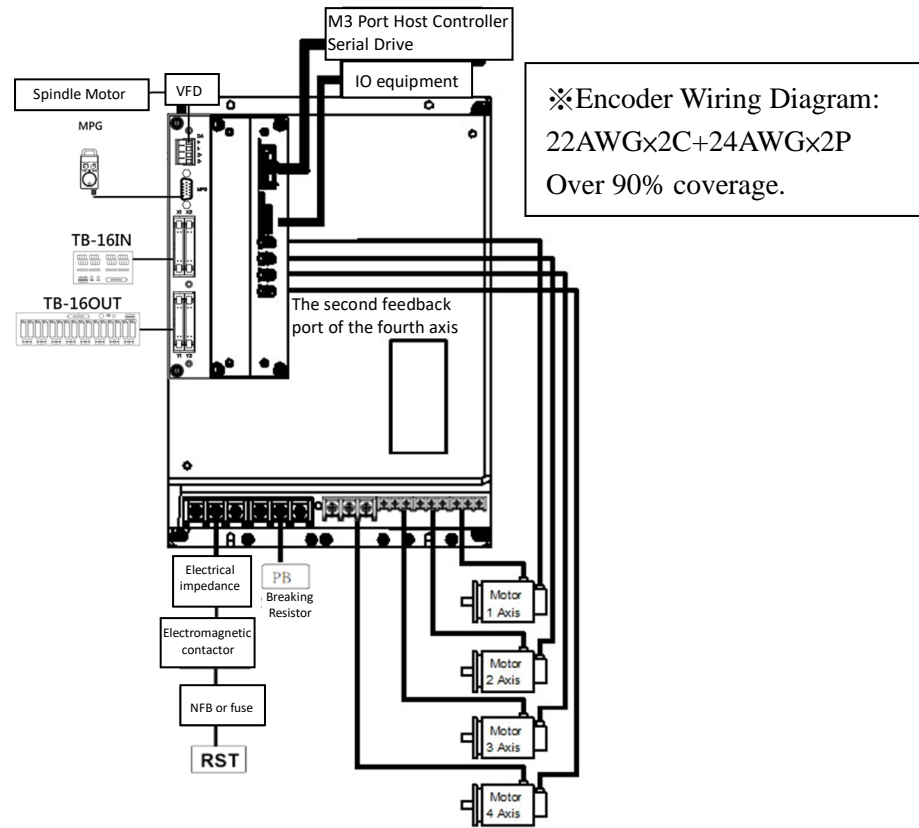


(Inductor)



- 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.
- Inductor input: All AC inductors should be connected behind the magnetic contactor (MC) and the residual-current device (RCD).

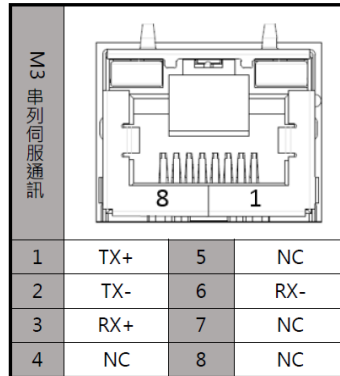
## 6. Basic Installation Instructions



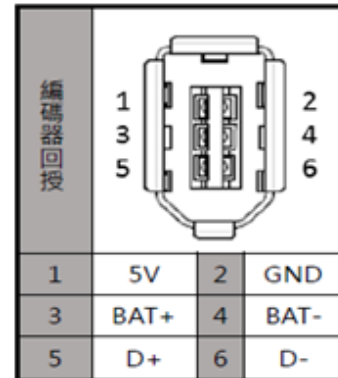
## 7. Interface Configurations

Please notice the value and the polarities of voltages.

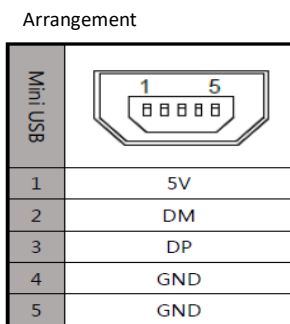
### ● Serial Communication Port Arrangement



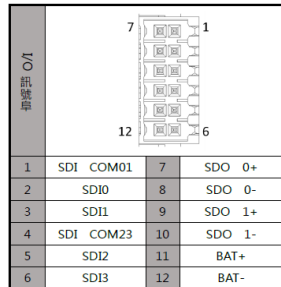
### ● Encoder Feedback Arrangement



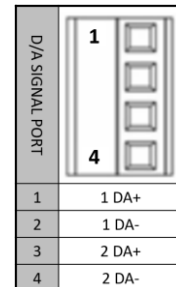
### ● Mini USB Communication Port Arrangement



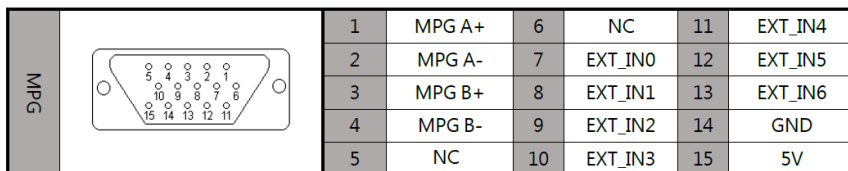
### ● I/O Signal Port Arrangement



### ● D/A Signal Port Arrangement



### ● MPG Port Arrangement



### ● X1 Interface Arrangement

INPUT	PIN	SIGNAL	PIN	SIGNAL
1	1	EXT 24V	2	EXT 24V
3	3	EXT GND	4	EXT GND
5	5	INPUT7	6	INPUT15
7	7	INPUT6	8	INPUT14
9	9	INPUT5	10	INPUT13
11	11	INPUT4	12	INPUT12
13	13	INPUT3	14	INPUT11
15	15	INPUT2	16	INPUT10
17	17	INPUT1	18	INPUT9
19	19	INPUT0	20	INPUT8

### ● X2 Interface Arrangement

INPUT	PIN	SIGNAL	PIN	SIGNAL
1	1	EXT 24V	2	EXT 24V
3	3	EXT GND	4	EXT GND
5	5	INPUT23	6	INPUT31
7	7	INPUT22	8	INPUT30
9	9	INPUT21	10	INPUT29
11	11	INPUT20	12	INPUT28
13	13	INPUT19	14	INPUT27
15	15	INPUT18	16	INPUT26
17	17	INPUT17	18	INPUT25
19	19	INPUT16	20	INPUT24

### ● Y1 Interface Arrangement

OUTPUT	PIN	SIGNAL	PIN	SIGNAL
1	1	EXT 24V	2	EXT 24V
3	3	EXT GND	4	EXT GND
5	5	OUTPUT7	6	OUTPUT15
7	7	OUTPUT5	8	OUTPUT14
9	9	OUTPUT4	10	OUTPUT13
11	11	OUTPUT4	12	OUTPUT12
13	13	OUTPUT3	14	OUTPUT11
15	15	OUTPUT2	16	OUTPUT10
17	17	OUTPUT1	18	OUTPUT9
19	19	OUTPUT0	20	OUTPUT8

### ● Y2 Interface Arrangement

OUTPUT	PIN	SIGNAL	PIN	SIGNAL
1	1	EXT 24V	2	EXT 24V
3	3	EXT GND	4	EXT GND
5	5	OUTPUT23	6	OUTPUT31
7	7	OUTPUT22	8	OUTPUT30
9	9	OUTPUT21	10	OUTPUT29
11	11	OUTPUT20	12	OUTPUT28
13	13	OUTPUT19	14	OUTPUT27
15	15	OUTPUT18	16	OUTPUT26
17	17	OUTPUT17	18	OUTPUT25
19	19	OUTPUT16	20	OUTPUT24

## 8. Driver Specification

Type	S08-SMD34C2550-00	S08-SMD34C3575-00	S08-SMD34C50150-00
	S08-SMD34C2550-03	S08-SMD34C3575-03	S08-SMD34C50150-03
Input Voltage	3PH 380~440V 50/60Hz		
Input Current	38A	55A	80A
Input Wire Diameter (Min.)	AWG #8	AWG #6	AWG #4
Output Voltage	Axis1~Axis3: SV 3PH 0~440V 0~400Hz Axis4: SP 3PH 0~440V 0~400Hz		
Rated Output Current	Axis1~Axis2: 5.4A	8.4A	11.9A
Rated Power	Axis3: 8.4A	8.4A	11.9A
	Axis4: 27A	34A	34A
	Axis1~Axis2: 1.5kW	2kW	3kW
Terminal Specifications	Axis3: 2kW	2kW	3kW
	Axis4: 7.5kW	11kW	18.5kW
	RST, PBN	Wire Specifications: 65A 8~4AWG(Str)/85A 4AWG(Sol); Operating Temperature: -40°C~+130°C; Rated Torque: 2.4N·m	
Terminal Specifications	U <sub>4</sub> V <sub>4</sub> W <sub>4</sub>	Wire Specifications: 10~8 AWG; Operating Temperature: -40°C~+130°C Rated Torque: 1.8N·m	
	U <sub>1</sub> V <sub>1</sub> W <sub>1</sub> ~U <sub>3</sub> V <sub>3</sub> W <sub>3</sub>	Wire Specifications: 24~12 AWG; Operating Temperature: -40°C~+130°C Rated Torque: 1.0N·m	
	I/O Signal Port	Wire Specifications: 24~26 AWG; Operating Temperature: -40°C~+115°C	
Power Source Environment	TN System <sup>(1)</sup> Allowable voltage deviation: -15% ~ +10% Allowable frequency deviation: -5% ~ +5%		
Environment Condition	Temperature	Operating: 0°C ~ 55°C (Not condensed. If the ambient temperature exceeds 45°C, the air circulation system must be activated.) Storage/Transporting: -20~65°C (Not frozen)	
	Humidity	Operating: Below 90% RH (Not condensed) Storage/Transporting: Below 90% RH (Not condensed)	
	Surrounding Area	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 <sup>2</sup>		
Pollution Degree	2		

IP Level	IP10
Frame Size W x H x D mm	360 x 230 x 300 (Without L-brackets)
Weight	9.5Kg (Without L-brackets)

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.

## 9. Inductor Specification

Type (AC inductor)	S11-RCT-32T1-80A	
Rated Capacity (kW)	30	
Rated Current (A)	80	
Rated Inductance (mH)	0.26	
Rated Voltage (AC)	Three-phase 380~440V/ 50~60Hz	
Three-phase Balance Rate	±3%	
Voltage Deviation	±10%	
Environment Condition	Temperature	Operating: -10~+60°C (Not frozen) Storage/Transporting: -10~+60°C (Not frozen)
	Humidity	Operating: Below 80%RH (Not condensed) Storage/Transporting: Below 80%RH (Not condensed)
	Surrounding Area	In door (Avoid direct sunlight), avoid corrosive gas, avoid flammable gas)
	Height	Operating/Storage Altitude (Max.): 1,000 meters Transporting (Max.): 10,000 meters
	Vibration	9.8m/s <sup>2</sup> (1G) · 98 m/s <sup>2</sup> (10G)