B01-SMD34E-03

34E&34F Series 4in1 Driver

Basic Installation Instructions V1.3

1. Applicable Drivers:

The types of applicable drivers are as follows:

	Type	Product Name
1	S08-SMD34E2550-00	SMH-25/25/35-75-XL Four-in-one Driver
2	S08-SMD34E3575-00	SMH-35/35/35-100-XL Four-in-one Driver
3	S08-SMD34E50150-00	SMH-50/50/50-150-XL Four-in-one Driver
4	S08-SMD34E2550-04	SMH-25/25/35-75-XL Four-in-one Driver
5	S08-SMD34E3575-04	SMH-35/35/35-100-XL Four-in-one Driver
6	S08-SMD34E50150-04	SMH-50/50/50-150-XL Four-in-one Driver
7	S08-SMD34F2550-00	SMH-25/25/35-75-XL Four-in-one Driver
8	S08-SMD34F3575-00	SMH-35/35/35-100-XL Four-in-one Driver
9	S08-SMD34F50150-00	SMH-50/50/50-150-XL Four-in-one Driver
10	S08-SMD34F2550-04	SMH-25/25/35-75-XL Four-in-one Driver
11	S08-SMD34F3575-04	SMH-35/35/35-100-XL Four-in-one Driver
12	S08-SMD34F50150-04	SMH-50/50/50-150-XL Four-in-one Driver

2. Driver Interface Specifications

(Top View)

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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	STO Signal Port	STO interface, 2 sets of safety inputs, 1 set of safety feedback.
H	Encoder Feedback Port	From top to bottom are the first port to the fourth for connecting to motor encoders.
I	battery for saving memory	As the power source for absolute encoders to save memory
J	Encoder Feedback Port	The second feedback port of the fourth axis

3. Driver Specifications (Unit: mm)

S08-SMD34x50150 (x is the representative of the series)

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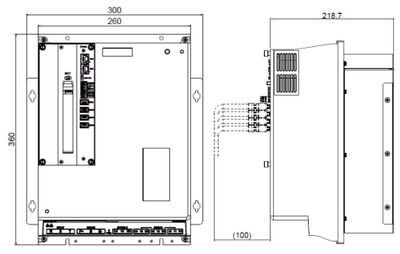

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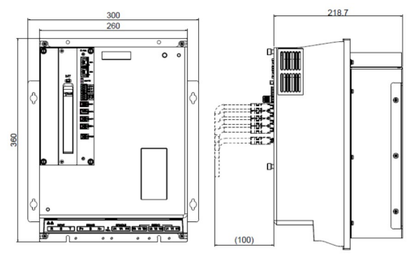

S08-SMD34x3575/ S08-SMD34x2550 (x is the representative of the series)

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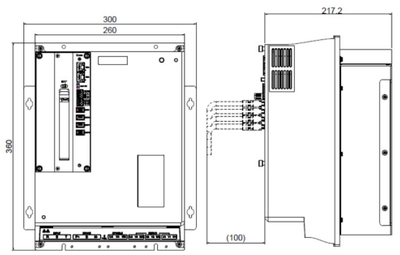

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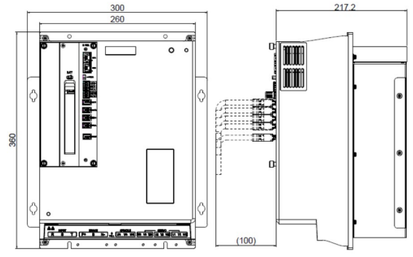
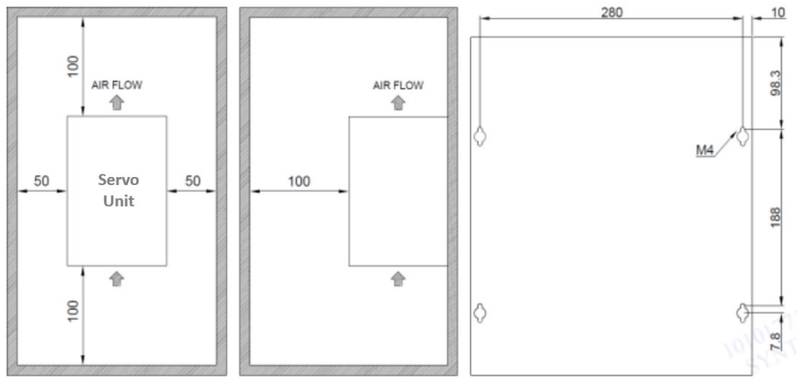


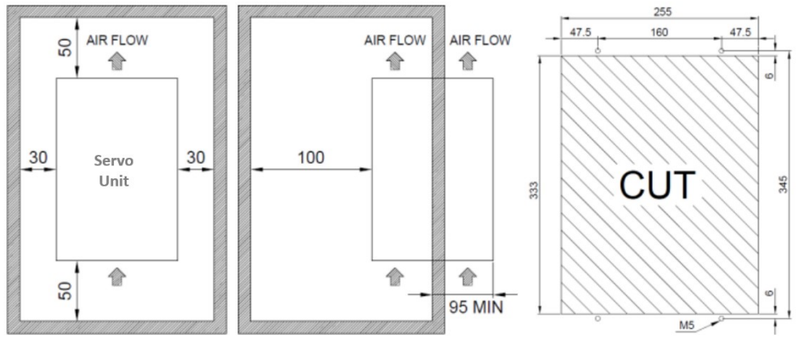
4. Installation& Mounting hole Specifications, please install with M5 or M4 screws.

(Unit: mm)

Built-in installation of the whole machine

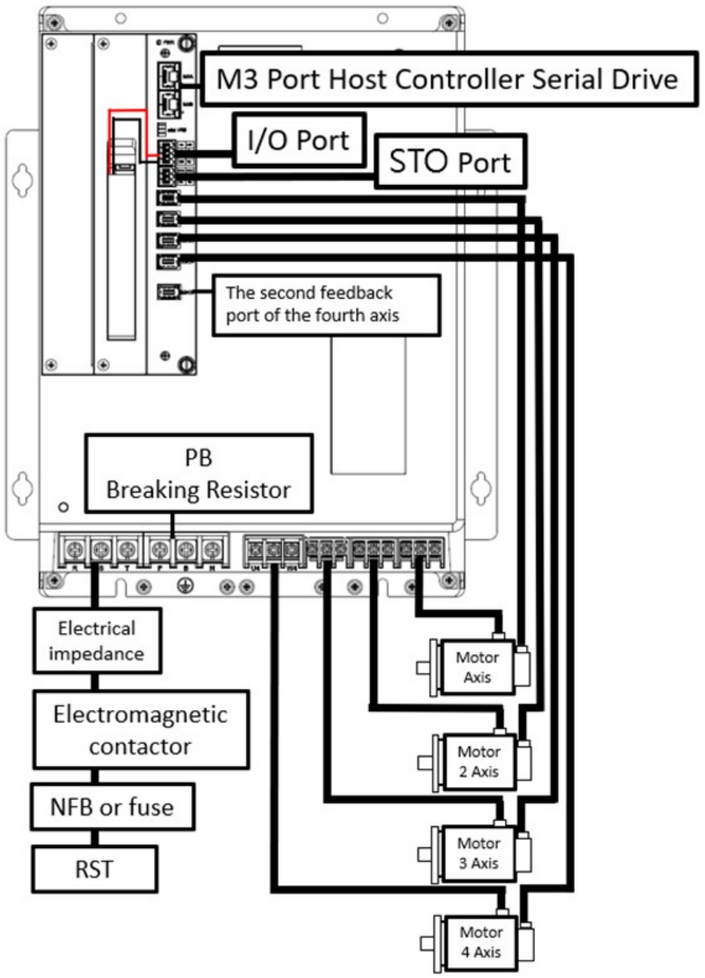


Embedded installation



5. Basic Installation Instructions

- 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)**.

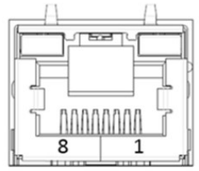


※Recommended Encoder Wire Diameter:
22AWGx2C+24AWGx2P
Over 90% coverage.

6. Interface Configurations

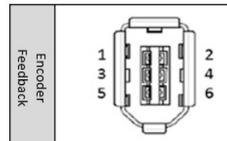
Please notice the value and the polarities of voltages.

● Serial Communication Port Arrangement



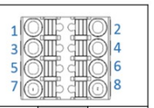
1	TX+	5	NC
2	TX-	6	RX-
3	RX+	7	NC
4	NC	8	NC

● Encoder Feedback Arrangement



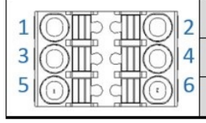
1	SV	2	GND
3	BAT+	4	BAT-
5	D+	6	D-

● I/O Port Arrangement



1	O0+	2	COM
3	O0-	4	I0
5	BAT+	6	I1
7	BAT-	8	NC

● STO Port Arrangement



STO	PIN	SIGNAL	PIN	SIGNAL
	1	STO-B	2	STO-A
	3	STO-COM	4	STO-COM
	5	STO-FB-	6	STO-FB+

7. Driver Specification

Type		S08-SMD34E2550-00 S08-SMD34E2550-04 S08-SMD34F2550-00 S08-SMD34F2550-04	S08-SMD34E3575-00 S08-SMD34E3575-04 S08-SMD34F3575-00 S08-SMD34F3575-04	S08-SMD34E50150-00 S08-SMD34E50150-04 S08-SMD34F50150-00 S08-SMD34F50150-04
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
	Axis3	8.4A	8.4A	11.9A
	Axis4	27A	34A	34A
Rated Power	Axis1~Axis2	1.5kW	2kW	3kW
	Axis3	2kW	2kW	3kW
	Axis4	7.5kW	11kW	18.5kW
Terminal Specifications	RST、PBN	Wire Specifications: 8~6AWG; Rated Torque: 2.4N-m	Wire Specifications: 6AWG; Rated Torque: 2.4N-m	
	$U_4V_4W_4$	Wire Specifications: 10 AWG; Rated Torque: 1.2 N·m		
	$U_1V_1W_1$~$U_3V_3W_3$	Wire Specifications: 16~10AWG; Rated Torque: 1.0 N-m		Wire Specifications: 14~12AWG; Rated Torque: 1.0N-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)		
	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^2		
Pollution Degree		2		
IP Level		IP10		
Frame Size W × H × 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.