

# **380V Generation II Driver**

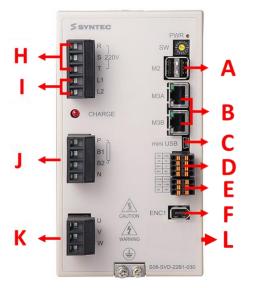
## Basic Installation Instructions v1.2

### **1.** Applicable Types as follows:

		Туре	Product Name		
	1	S08-SVD32B1-020	2KW Generation II-Uniaxial SIZE B		
	2	S08-SPD32D1-050	5KW Generation II-Uniaxial SIZE C		
	3	S08-SPD32B1-075	7.5KW Generation II-Uniaxial SIZE C		
	4	S08-SPD32B1-110	11KW Generation II-Uniaxial SIZE D		
	5	S08-SPD32B1-185	18.5KW Generation II-Uniaxial SIZE D		
		S08-SPD32B1-110	11KW Generation II-Uniaxial SIZE D		

## 2. Driver Interface Notifications





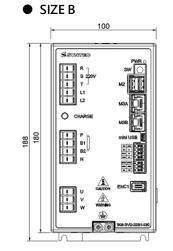
SIZE C Top View

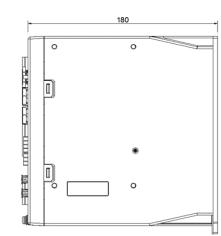
## SIZE D Top View

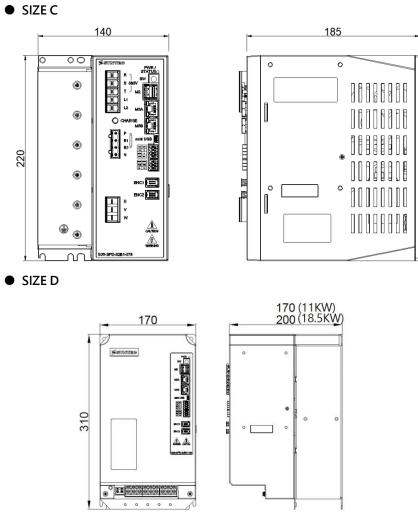


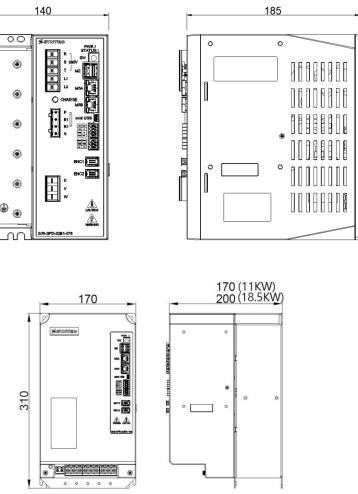
	A	M2 Host Control Serial	Connect to host controller		
		Communication Port	Serial Communication Port 10Mbps (Either M2 or M3)		
	В	M3 Host Control Serial	Connect to host controller		
		Communication Port	Serial Communication 100Mbps (Either M2 or M3)		
	С	Mini USB Port	Connect to personal computer		
		I/O Signal Port	Connect to I/O equipment (Emergency stop, indicator		
	D	External Battery Connection	lights, etc.)		
		Port	Connect to output battery of absolute encoder.		
	E		STO interface, 3 sets of safety inputs and one set of		
		STO Signal Port	safety function feedback		
	F	Encoder feedback 1 (ENC1)	Connect to motor encoder		
	G	Encoder feedback 2 (ENC2)	Connect to load encoder		
	Н	External power Supply (RST)	Connect to 3-phase AC 380V		
	I	Controller Board Power Supply (L1 L2)	If there are safety requirements, the controlled source can be independently supplied from L1 & L2 and connect to single-phase AC. The input voltage must be the same as RST.		
	J	Regenerative Resistor	<ul> <li>Two connection methods of SIZEA, SIZEB, optional:</li> <li>a) Connect the external regenerative resistor to P &amp; B2.</li> <li>b) The built-in brake is to short circuit B1 and B2</li> <li>SIZE C: external regenerate resistor connects to P and B2</li> <li>SIZE D: external regenerate resistor connects to P and B</li> </ul>		
	К	Motor Power Source (UVW)	Connect to the motor and supply power.		
	L		The driver can connect to expansion module, i.e., ABZ		
		Evenning Madula constant	encoder connector expansion module, ADDA		
		Expansion Module connector	expansion module etc. If there are any needs,		
			please contact Syntec sales staff.		

## 3. Controller Specifications (Unit: mm)

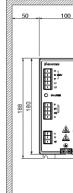




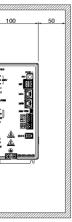


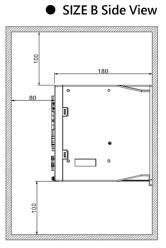


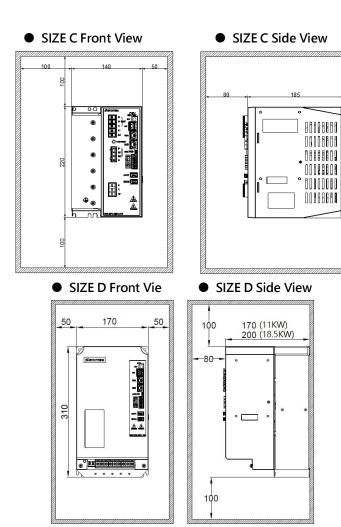
# 4. Installation Specifications (Unit: mm)



# • SIZE B Front View



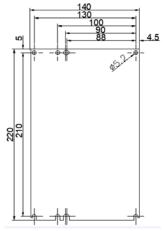




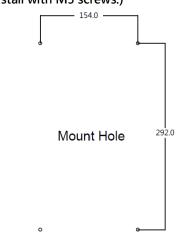
- 5. Mounting Hole Specifications (Unit: mm)
  - SIZE B (Please install with M4 screws.)



• SIZE C (Please install with M5 screws.)

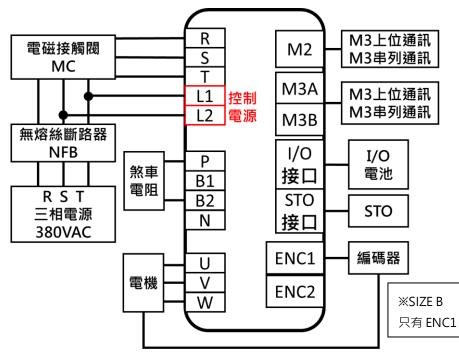


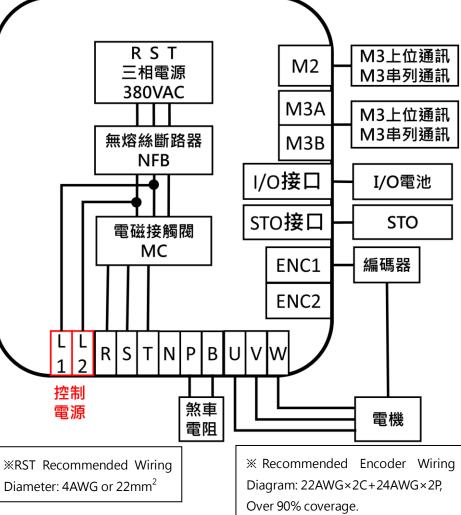
#### • SIZE D (Please install with M5 screws.)



- 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.
- In case the use of independent controlled source, please connect the sources (L1, L2) • of the control plate to either of the three RST terminals before the magnetic contactor (MC).
- The default settings of B1 and B2 are short circuit with built-in braking resistors. If • the processing requires a high load factor, it is recommended removing the short circuit wiring and apply an external high wattage braking resistor between P and B2.
- When wiring the host controller, either M2 Serial Communication Port or M3 Serial • Communication Port can be installed.

#### • SIZE B & SIZE C





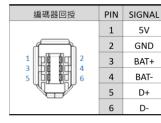
• SIZE D

7. Interface Configurations Please notice the value and polarities of voltages.

• M2 Serial Communication Port

M2	PIN	SI
$\bigtriangledown$	1	
	2	
	3	
	4	

• Encoder Feedback Arrangement



• Setting Number Settings

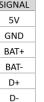
站號設定	PIN	SIGNAL	PIN	SIGNAL	l I					
	0	N/A	8	站號 8		I/O 通訊埠訊號	PIN	SIGNAL	PIN	SIGNAL
	1	站號 1 站號 2	9 A	站號 9 站號 10			1	00+	2	СОМ
6F012 07773 07773	3	站號 3	В	站號 11			3	00-	4	10
81 S	4	站號 4 站號 5	C D	站號 12 站號 13		5 0 6	5	BAT+	6	11
	6	站號 6 站號 7	E	站號 14 站號 15		7 0 8	7	BAT-	8	NC

Notice : Contact capacity of output is DC30V, 200mA. Do not use in overload condition

STO Signal Port

GNAL					
	STO	PIN	SIGNAL	PIN	SIGNAL
D-	1 011 - 110 2	1	STO-B	2	STO-A
D+	3 OIP - IO 4	3	STO-COM	4	STO-COM
	5 <u>OIE</u> <u>IO</u> 6	5	STO-FB-	6	STO-FB+

 M3 Serial Communication Port
 Mini USB Port Arrangement M3 PIN SIGNAL



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

Mini USB	PIN	SIGNAL
	1	5V
	2	DM
	3	DP
	4	GND
	5	GND

• I/O Signal Port Arrangement