

# **SAVCH SDA2 Series Servo System High Performance Purpose Instruction Manual**

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**SAVCH SDA2 Series Servo System High Performance Purpose** 



#### **Company Profile**

Savch Electric Co., Ltd was set up in Quanzhou, Fujian province in 2001 and established a research and development center in Shanghai. It is one of the first few companies to develop and produce motor drives in China. In 2005, it became China's top ten inverter brands. The company relies on a strong R & D team and world-class power electronics production and quality control system (OEM for top international brand) to provide customers with high-performance servo drives, inverters, computer controllers and other industrial control products. The company focuses on the frontier technology fields of "industrial intelligence, energy saving, green energy", and adheres to the core goal of "creating value for customers", and establishes a technical R&D team that highly conforms to customer industry characteristics and highly integrated mechatronics and provide more efficient and resource-efficient system solutions for various industries customers. For the pass years, the company has established a global equal and close cooperation agent system, and customer service system with user satisfaction as an indicator, widely used in ceramics, packaging, textile, dyeing and finishing, engineering upgrading, lifting, road, CNC machine tools, glass, mining, petroleum, shipbuilding, military and even farming and animal husbandry and other equipment fields.

SDA2 Series is a new high performance general purpose servo system (motor & drive), which can be widely used in a large industry, such as laser marking machine joint robot, linear mechanical hands, wood machinery, glass machinery, injection molding machinery, welding and cutting equipment, ceramic equipment, textile equipment, testing equipment, cable equipment, lithium battery equipment, electronic manufacturing equipment, milling machines, grinding machines, CNC lathes, food production lines, packaging production line, engraving and milling machine, engraving machine, high light machine, around line machine, warp knitting machine, labeling machine, veneer machines etc.

#### **High Performance**

- Response frequency up to 1.2kHz
- Support 17/20bit encoder
- Max input/output pulse is 4Mpps
- Low cogging torque
- · 3 times overload ability
- Analog command resolution is 16bit (optional)

#### Intelligent

- · Identification of Load Inertia
- Automatic/Manual Notch filter
- Real-time Automatic Gain Adjustment

Automatic/Manual Vibration Suppression control

#### **Practical**

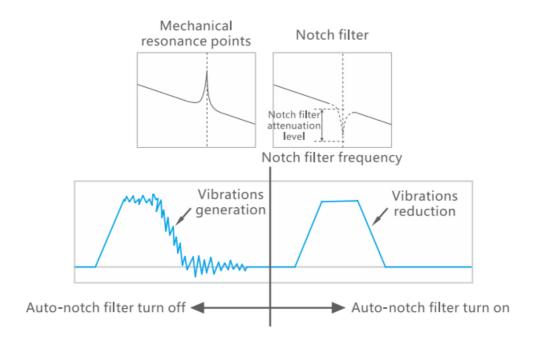
- Friction Torque Compensation
- Input/Output Signal Assigned
- · Gain switch
- · Torque limit change
- Interrupt position control
- · Built-in Regeneration resistance
- Electronic Cam Control
- Motor and drive miniaturization
- · Gantry synchronization control
- Fully closed-loop control
- · High flexibility internal location programming mode
- Support CANopen, EthercA=r.'¢' to realize multi-axis high response synchronization control

#### Safe

- Safe Torque Off (STO) function (optional)
- · Consideration for environment and Compliant with ROHS Directives, improve environmental performance
- Motor Enclosure Level with IP65/67, meet the waterproof and dustproof requirement
- This contents of catalog is only for selecting products models and types, when using a product, read the users'
  manual beforehand to use the product correctly.
- Products introduced in this catalog haven't been designed or manufactured for such applications in a system or
  equipment that will affect human bodies or lives clients, who want to use the products introduced in this catalog
  for special systems or device such as for military, aerospace and medical use, and traffic control are requested
  to consult SAVCH's Sales Center.
- Clients are requested to prepare safety measures when they apply the products introduced in this catalog to such systems or facilities that will affect human lives or cause severe damage to property if the products become faulty.

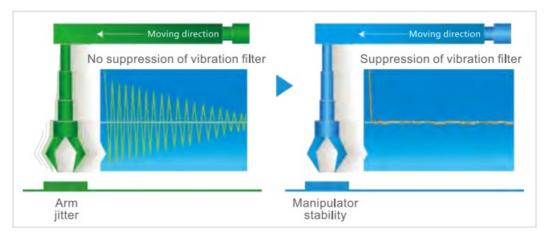
#### **Notch Filter (Auto-Notch Filter)**

- When the mechanical resonance is detected, the notch filter will be automatically set.
- When the automatic notch filter is opened, it can carry out detection operation, so it can also deal with the time variation of the resonance frequency.



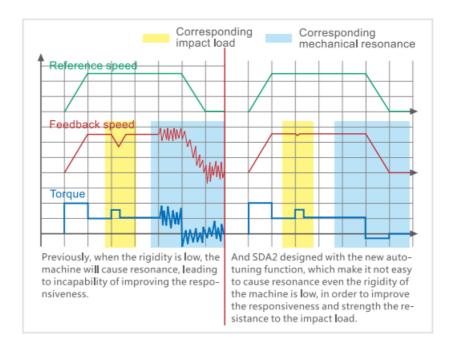
#### **Mechanical Vibration Suppression**

- The standard is equipped with the newly designed vibration suppression control function, which can maximize the suppression of the vibration of machinery.
- It can solve the problem of vibration of the low rigidity machine in the front of the robot arm, and realize the stable operation of the machine.



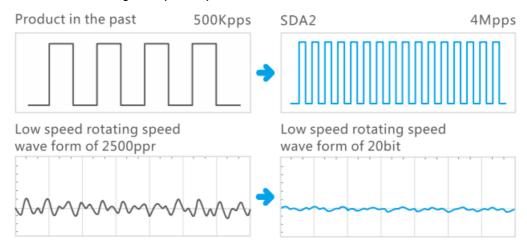
#### **New Auto-Tuning Function**

• Newly designed auto-tuning function greatly improves the SDA2 auto-adaptive performance. Even the machine is with low rigidity, it can also carry on the most appropriate adjustment.



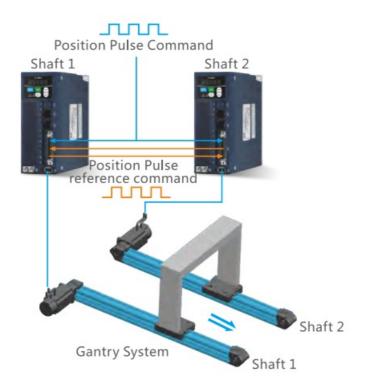
#### **High Precision Control**

• Command pulse input and output feedback frequency are both up to 4Mpps and equip with 20bit incremental encoder, 1.04million for one round, which can realize the high precision positioning and make a more smooth operation and more stable during low speed operation.



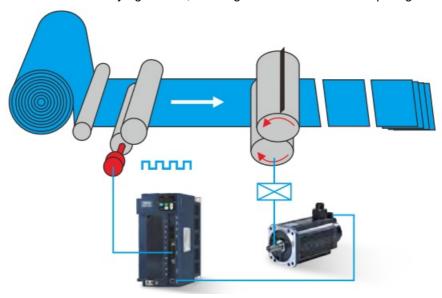
#### **Gantry Synchronization Control**

• The two servos alternately sample the feedback position to adjust the motor speed in real time to achieve the purpose of dual-axis position synchronization, which is suitable for the gantry system.

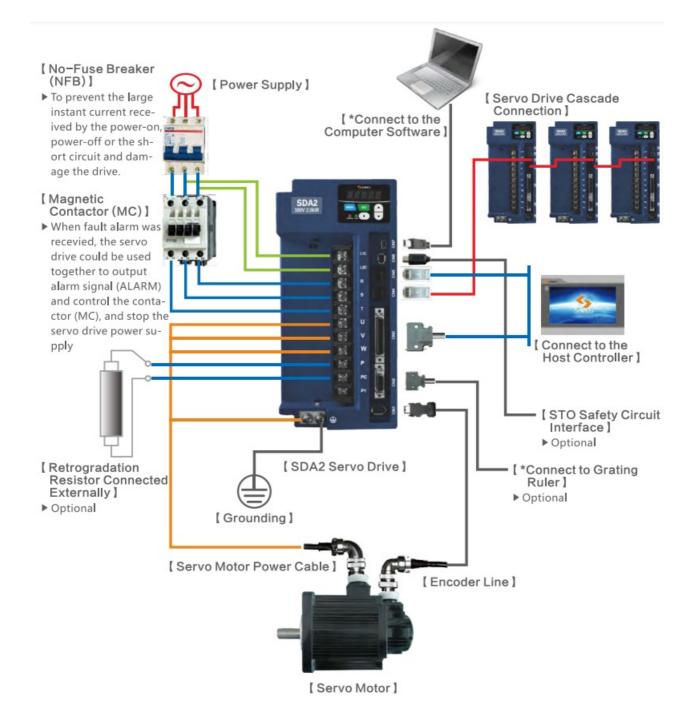


#### **Electronic Cam Control**

• Electrically simulating the work of the mechanical cam can reduce the mechanical input, and can easily change the cam curve to achieve the purpose of eliminating the need to replace the mechanical cam and maintenance-free. It can be used for flying shears, chasing or other occasions requiring master-slave control.



## **System Structure Diagram**

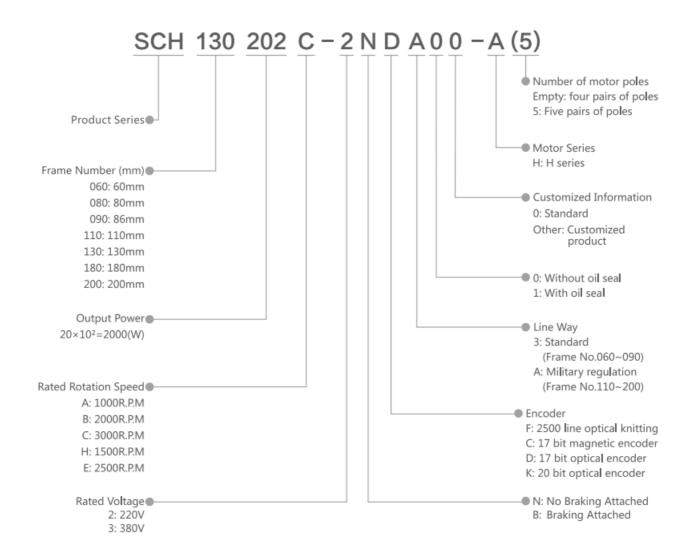


#### **Installation Notes:**

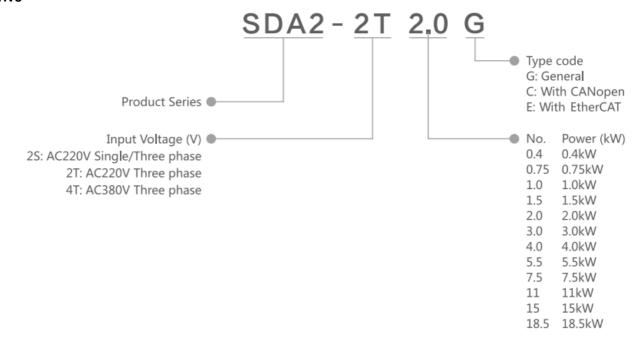
- Check the R, S, T and the LIC ,L2C power supply and connecting wire
- Check the servo motor output U, V, W terminal phase wires (Unable to run when the connection is wrong)
- External connected retrogradation resistor is the selective spare, adopt according to the actual needs
- When fault or emergent stop was received, cut the power supply of magnetic contactor (MC) through ALARM output to stop the power supply of drive.
- · indicates being developed

#### **Model Description**

#### **Servo Motor**



#### **Servo Drive**



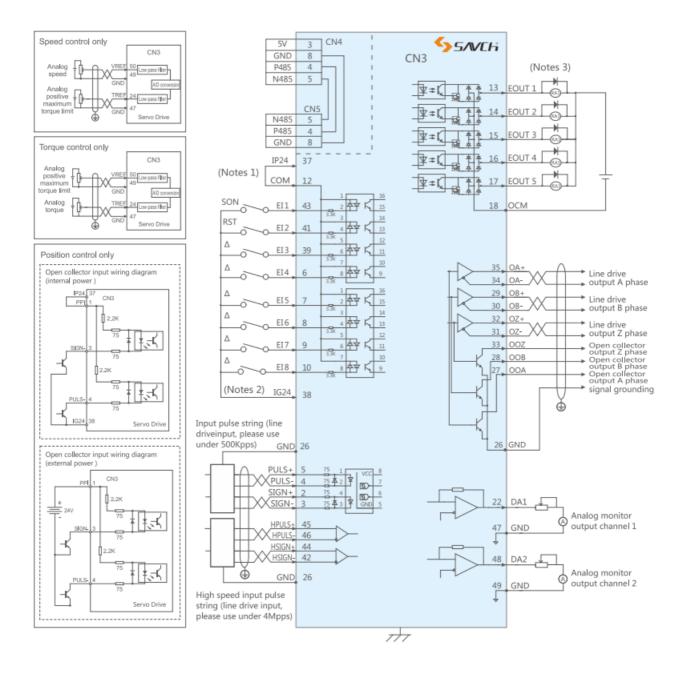
#### **Servo Drive Specification**

#### **Common Specifications**

Item		Specifications			
Input Power		Single/three phase 220V, three phase 380V			
		Voltage variation range (-15%~+10%) 50/60Hz			
Cooling Method		Fan cooling			
Main Circ	cuit Control Mode	IGBT PWM sine wave mode			
F	eedback	17-bit (standard) / 20-bit			
Co	ntrol Mode	①Position control ②Speed control ③ Torque control ④Position/speed mode switch ⑤Position/torque mode switch ⑥Speed/torque mode switch ⑦Positioning operation mode			
	Max input pulse frequency	Low speed pulse: Max input 500kHz (Line drive input), Max input 200kHz (Open collector input)			
		High Speed pulse: Max input 4MHz (Line drive input)			
Position	Command pulse input mode	①Command pulse/command signal ②Forward rotating pulse and reverse rotating pulse ③A/B phase orthogonal pulse			
Control	Command control mode	①External command pulse input control ②Internal position data control ③Communication command control			
	Electronic gear	Electronic Gear N/M times (N:1~4194304)/ (M:1~4194304)			
	Torque limitation	Parameter control (Forward rotating and reverse rotating can be set respectively)/ External analog torque control			
	Analog command input	VREF DC0~±10V			
	Speed variation rate	±1r/min or below (load range 0~100%)			
	Speed range	1:5000			
Speed Control	Acceleration and deceleration time setting	Acceleration time and deceleration time can be set respectively, and have two groups, and can accelerate and decelerate with S curve			
	Speed control mode	External analog input/Internal speed setting			
	Torque Limitation	Parameter control (Forward rotating and reverse rotating can be set respectively)/ External analog torque control			
Torque	Analog command input	TREF DC0~±10V			
Control	Torque Limitation	Parameter control/External analog speed limitation			
	Input	EI1~EI8 8 lines input, the function can be set freely according to the parameter			
Digital Input/	Outrat	Encoder pulse outputs by frequency division, A/B/Z phase output by line drive and open collector (Total 6 lines)			
Output	Output	EOUT1~EOUT5 5 lines output, the function can be set freely according to the parameter			
	Monitor	Feedback speed, reference speed, reference torque, motor current, feedback of current location, Location Difference, reference pulse frequency, Feedback Pulse Accumulation, Reference Pulse Accumulation, VREF input voltage, TREF input voltage, input terminal signal, output terminal signal etc			
Protectio	n (Alarm display)	Overcurrent (oc1, oc2), Over speeding (oS), Overvoltage(Hv), Memory Error (dE), Encoder Error(Ec), Overload (oL1, oL2), Main circuit under voltage (Lu), EI Repeat (ctE), Deviation overflow (oF), Servo motor drive overheat (AH) etc.			
	Site location	Indoors (Avoid direct sunlight), No corrosive gas (Avoid smoke, methane)			
Applica-	Ambient Temperature	$0\sim50^{\circ}\text{C}$ (When the ambient temperature is higher than the required one, please introduce air circulation)			
tion Environ-	Storage Temperature				
ment	Relative humidity	RH 90% lower (No condensation)			
	Altitude Atmospheric pressure	Lower than 1000m 86~106kPa			
	Vibration	© 0.5G			
	11013(1011				

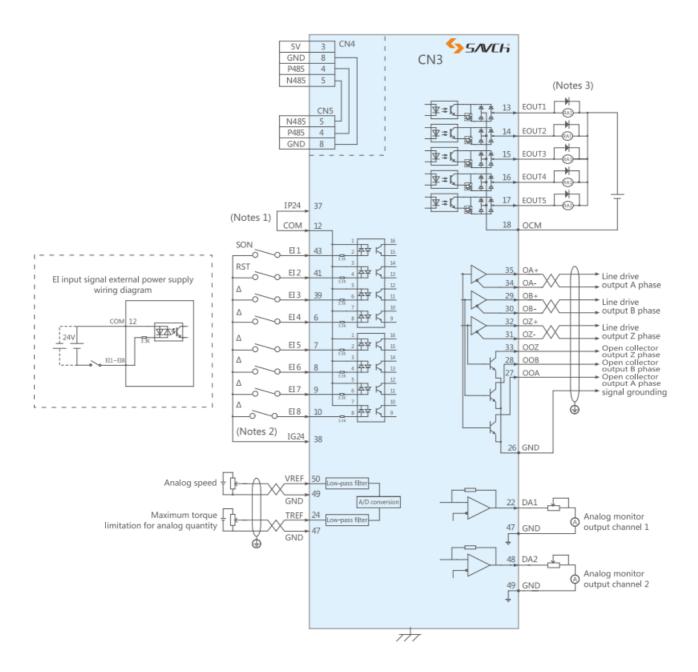
# **Wiring Diagram**

## **Position Control Standard Wiring Diagram**



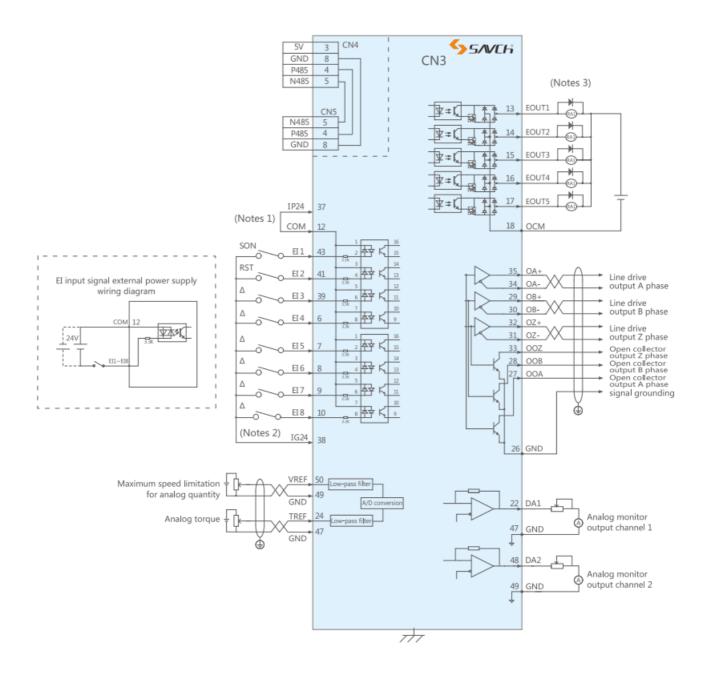
- **Notes 1:** When the external power supply are adopted, do not connect the COM with IP24, external power supply 24V connected to COM.
- Notes 2: The EI input terminal that is marked I1 indicates that the initial function is not defined, user can set the required
  - function according to the "User Manual".
- **Notes 3:** The diode installation direction could not be connected by the wrong way, max working voltage 24V, max output current S0mA; the current value of external relay ring should be lower than 80mA. When the current value is greater than 80mA, the power should be supplied externally.
- **Notes:** The above picture is the reference picture for the selected model, please read the manual and relevant wiring guidance carefully.

#### **Speed Control Standard Wiring Diagram**



- Notes 1: When the external power supply are adopted, do not connect the COM with IP24, external power supply 24V connected to COM.
- Notes 2: The EI input terminal that is marked I1 indicates that the initial function is not defined, user can set the required function according to the "User Manual".
- Notes 3: The diode installation direction could not be connected by the wrong way, max working voltage 24V, max output current S0mA; the current value of external relay ring should be lower than 80mA. When the current value is greater than 80mA, the power should be supplied externally.
- **Notes:** The above picture is the reference picture for the selected model, please read the manual and relevant wiring guidance carefully.

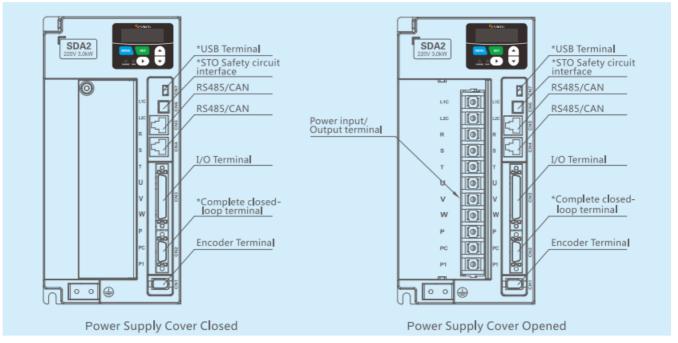
#### **Troque Control Standard Wiring Diagram**



- **Notes 1:** When the external power supply are adopted, do not connect the COM with IP24, external power supply 24V connected to COM.
- Notes 2: The EI input terminal that is marked I1 indicates that the initial function is not defined, user can set the required function according to the "User Manual".
- **Notes 3:** The diode installation direction could not be connected by the wrong way, max working voltage 24V, max output current S0mA; the current value of external relay ring should be lower than 80mA. When the current value is greater than 80mA, the power should be supplied externally.
- **Notes:** The above picture is the reference picture for the selected model, please read the manual and relevant wiring guidance carefully.

#### **Servo Drive External Appearance**

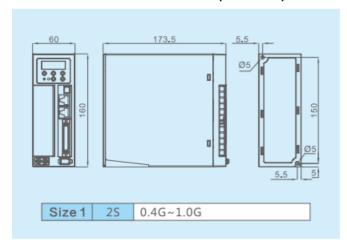
#### **Front View**

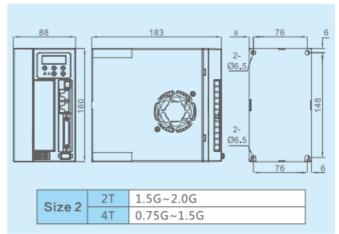


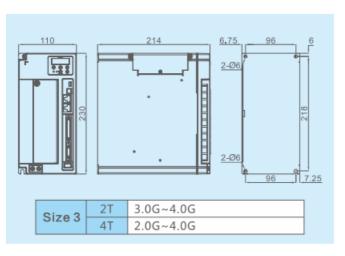
Note: \* indicates being developed

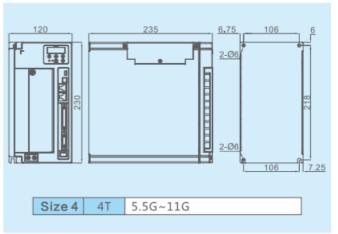
Note: \* indicates being developed

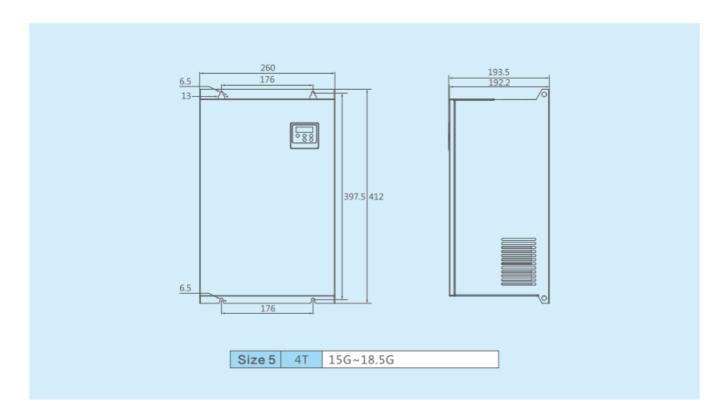
#### Servo Drive External Dimension (Unit: mm)











# **Servo Motor Specification**

#### • H series 220V

• 60mm Series

Item		Servo Mo	tor Model		
	iteiii	SCH060201C	SCH060401C		
Rat	ed Output Power (W)	200	400		
	oplicable Servo Motor Driver	SDA2-2S0.4G	SDA2-2S0.4G		
í	Rated Torque ( N·m )	0.64	1.27		
Rate	d Rotation Speed (R.P.M.)	3000	3000		
F	Rated Current ( A )	1.8	2.6		
	Rotor Inertia ( kg·m²×10-4)	0.264	0.407		
Inst	tant Max Torque ( N·m )	1.91	3.81		
Max	( Rotation Speed ( R.P.M. )	3600	3600		
	Weight (kg)	1.2	1.6		
In	sulation Level	F Class ( 155℃ )			
	o motor Ambient Temperature	-20°C~+40°C			
Perma	Brake Rated Voltage ( V )	DC24±10%			
Permanent magnet brake	Brake Static Friction Torque ( N·m )	2			
agnet	Brake Rated Power ( W )	11			

• 80mm Series

	Item		Servo Motor Model			
	iteiii	SCH080751C	SCH080731B	SCH080102E		
Rate	ed Output Power (W)	750	730	1000		
	oplicable Servo Motor Driver	SDA2-2S0.75G	SDA2-2S0.75G	SDA2-2S1.0G		
F	Rated Torque (N·m)	2.39	3.5	4		
Rate	d Rotation Speed (R.P.M.)	3000	2000	2500		
F	Rated Current (A)	3	3	4.4		
	Rotor Inertia) kg·m²×10	1.82	2.63	2.97		
Inst	tant Max Torque ( N·m )	7.1	10.5	12		
Max	( Rotation Speed ( R.P.M. )	3600	2400	3000		
	Weight (kg)	2.9	3.9	4.1		
In	sulation Level	F Class (155℃)				
	o motor Ambient Temperature	-20°C~+40°C				
7	Brake Rated Voltage		DC24±10%			
Magnetic brake	Brake Static Friction Torque ( N·m )					
tic	Brake Rated Power (W)		18			

#### • 110 mm Series

	Item		Servo Mo	tor Model			
	item	SCH110122C	SCH110152C	SCH110122B	SCH110182C		
Rate	ed Output Power (W)	1200	1500	1200	1800		
	oplicable Servo Motor Driver	SDA2-2S1.0G	SDA2-2T1.5G	SDA2-2S1.0G	SDA2-2T1.5G		
ı	Rated Torque (N·m)	4	5	6	6		
Rate	d Rotation Speed (R.P.M.)	3000	3000	2000	3000		
F	Rated Current (A)	5	6	4.5	6		
	Rotor Inertia ( kg·m²×10-4)	5.4	5.4 6.3 7.6		7.6		
Inst	tant Max Torque ( N·m )	12	15	12	18		
Max	( Rotation Speed ( R.P.M. )	3600	3600	2400	3600		
	Weight (kg)	6	6.8	7.9	7.9		
In	sulation Level	F Class (155℃)					
	o motor Ambient Temperature	-20°C∼+40°C					
-	Brake Rated Voltage (V)		DC24	±10%			
Magnetic brake	Brake Static Friction Torque ( N·m )	8					
tic	Brake Rated Power (W)	15					

#### • 130mm Series

Item		Servo Motor Model						
	item	SCH130102E	SCH130132E	SCH130152E	SCH130202E			
Rate	ed Output Power (W)	1000	1300	1500	2000			
	plicable Servo Motor Driver	SDA2-2S1.0G	SDA2-2S1.0G	SDA2-2T1.5G	SDA2-2T2.0G			
F	Rated Torque (N·m)	4	5	6	7.7			
Rate	d Rotation Speed (R.P.M.)	2500	2500	2500	2500			
F	Rated Current ( A )	4	5	6	7.5			
	Rotor Inertia ( kg·m²×10-4)	8.5	10.6	12.6	15.3			
Inst	ant Max Torque ( N·m )	12	15	18	22			
Max	( Rotation Speed ( R.P.M. )	3000	3000	3000	3000			
	Weight (kg)	6.2	6.6	7.4	8.3			
In	sulation Level	F Class ( 155℃ )						
	o motor Ambient Temperature	-20℃~+40℃						
-	Brake Rated Voltage ( V )							
Magnetic brake	Brake Static Friction Torque ( N·m )		8	3				
tic	Brake Rated Power (W)	15						

#### • 130mm Series

		Servo Motor Model					
	Item	SCH130102A	SCH130152H	SCH130262E	SCH130232H	SCH130382E	
Rate	ed Output Power (W)	1000	1500	2600	2300	3800	
	oplicable Servo Motor Driver	SDA2-2S1.0G	SDA2-2T1.5G	SDA2-2T2.0G	SDA2-2T2.0G	SDA2-2T3.0G	
F	Rated Torque (N·m)	10	10	10	15	15	
Rate	d Rotation Speed (R.P.M.)	1000	1500	2500	1500	2500	
F	Rated Current ( A )	4.5	6	10	9.5	13.5	
	Rotor Inertia ( kg·m²×10-4)	19.4	19.4	19.4	27.7	27.7	
Inst	tant Max Torque (N·m)	20	25	25	30	30	
Max	( Rotation Speed ( R.P.M. )	1200	1800	3000	1800	3000	
	Weight (kg)	10.2	10.2	9.1	12.6	11.8	
In	sulation Level	F Class ( 155℃ )					
	o motor Ambient Temperature	-20℃~+40℃					
-	Brake Rated Voltage (V)			DC24±10%			
Magnetic brake	Brake Static Friction Torque ( N·m )	16					
tic	Brake Rated Power (W)		25				

#### • 180mm Series

	Item		Servo Motor Model			
	item	SCH180252H	SCH180302H	SCH180432H		
Rate	ed Output Power (W)	2500	3000	4300		
	pplicable Servo Motor Driver	SDA2-2T2.0G	SDA2-2T3.0G	SDA2-2T4.0G		
F	Rated Torque (N·m)	17	19	27		
Rate	d Rotation Speed (R.P.M.)	1500	1500	1500		
F	Rated Current ( A )	10	12	16		
	Rotor Inertia ( kg·m²×10-4)	65	70	96.4		
Inst	tant Max Torque ( N·m )	42	47	67		
Max	( Rotation Speed ( R.P.M. )	1800	1800	1800		
	Weight (kg)	19.5	20.5	25.5		
In	sulation Level	F Class ( 155℃ )				
	o motor Ambient Temperature	-20°C~+40°C				
-	Brake Rated Voltage (V)		DC24±10%			
Magnetic brake	Brake Static Friction Torque ( N·m )	30				
tic	Brake Rated Power (W)	35				

# • H series 380V

#### • 80mm Series

	Item		Servo Motor Model			
	Item	SCH080751C	SCH080731B	SCH080102E		
Rate	ed Output Power (W)	750	730	1000		
	pplicable Servo Motor Driver	SDA2-4T0.75G	SDA2-4T0.75G	SDA2-4T1.0G		
F	Rated Torque ( N·m )	2.39	3.5	4		
Rate	d Rotation Speed (R.P.M.)	3000	2000	2500		
F	Rated Current ( A )	1.6	1.8	2.3		
	Rotor Inertia ( kg·m²×10-4)	1.82	2.63	2.97		
Inst	tant Max Torque ( N·m )	7.1	10.5	12		
Max	( Rotation Speed ( R.P.M. )	3600	2400	3000		
	Weight (kg)	2.9	3.9	4.1		
In	sulation Level	F Class (155℃)				
	o motor Ambient Temperature	-20°C~+40°C				
_	Brake Rated Voltage (V)	DC24±10%				
Magnetic brake	Brake Static Friction Torque ( N·m )	4				
tic	Brake Rated Power (W)	18				

• 110mm Series

Item		Servo Motor Model						
	iteiii	SCH110122C	SCH110152C	SCH110122B	SCH110182C			
Rate	ed Output Power (W)	1200	1500	1200	1800			
	pplicable Servo Motor Driver	SDA2-4T1.0G	SDA2-4T1.5G	SDA2-4T1.0G	SDA2-4T1.5G			
F	Rated Torque (N·m)	4	5	6	6			
Rate	d Rotation Speed (R.P.M.)	3000	3000	2000	3000			
F	Rated Current ( A )	3.0	4.5	3.0	4.5			
	Rotor Inertia ( kg·m²×10-4)	5.4	6.3	7.6	7.6			
Inst	tant Max Torque ( N·m )	12	15	12	18			
Max	( Rotation Speed ( R.P.M. )	3600	3600	2400	3600			
	Weight (kg)	6	6.8	7.9	7.9			
In	sulation Level	F Class (155℃)						
	o motor Ambient Temperature	-20°C~+40°C						
-	Brake Rated Voltage (V)	DC24±10%						
Magnetic brake	Brake Static Friction Torque ( N·m )	8						
tic	Brake Rated Power ( W )	15						

#### • 130mm Series

	Item		Servo Mo	tor Model			
	item	SCH130102E	SCH130132E	SCH130152E	SCH130202E		
Rate	ed Output Power (W)	1000	1300	1500	2000		
	plicable Servo Motor Driver	SDA2-4T1.0G	SDA2-4T1.0G	SDA2-4T1.5G	SDA2-4T2.0G		
F	Rated Torque ( N·m )	4	5	6	7.7		
Rate	d Rotation Speed (R.P.M.)	2500	2500	2500	2500		
F	Rated Current ( A )	2.6	3.0	4.0	4.7		
	Rotor Inertia ( kg·m²×10-4)	8.5	10.6	12.6	15.3		
Inst	ant Max Torque ( N·m )	12	15	18	22		
Max	( Rotation Speed ( R.P.M. )	3000	3000	3000	3000		
	Weight (kg)	7.7	8.2	8.9	10		
In	sulation Level	F Class (155℃)					
	o motor Ambient Temperature	-20°C~+40°C					
-	Brake Rated Voltage (V)		DC24	±10%			
Magnetic brake	Brake Static Friction Torque ( N·m )	8					
tic	Brake Rated Power (W)	15					

	Itom			Servo Motor Mode		
	Item	SCH130102A	SCH130152H	SCH130262E	SCH130232H	SCH130382E
Rate	ed Output Power (W)	1000	1500	2600	2300	3800
	pplicable Servo Motor Driver	SDA2-4T1.0G	SDA2-4T1.5G	SDA2-4T2.0G	SDA2-4T2.0G	SDA2-4T4.0G
F	Rated Torque ( N·m )	10	10	10	15	15
Rate	d Rotation Speed (R.P.M.)	1000	1500	2500	1500	2500
F	Rated Current ( A )	2.5	3.5	6	5	8.8
	Rotor Inertia ( kg·m²×10-4)	19.4	19.4	19.4	27.7	27.7
Inst	tant Max Torque ( N·m )	20	25	25	30	30
Max	( Rotation Speed ( R.P.M. )	1200	1800	3000	1800	3000
	Weight (kg)	10.1	12.1	9.1	12.5	14.5
In	sulation Level			F Class (155℃)		
	o motor Ambient Temperature	-20°C~+40°C				
_	Brake Rated Voltage (V)	DC24±10%				
Magnetic brake	Brake Static Friction Torque ( N·m )	16				
tic	Brake Rated Power (W)			25		

#### • 180mm Series

	Item			Servo Motor Mode	l		
	item	SCH180252H	SCH180302H	SCH180432H	SCH180552H	SCH180752H	
Rate	ed Output Power (W)	2500	3000	4300	5500	7500	
	oplicable Servo Motor Driver	SDA2-4T2.0G	SDA2-4T3.0G	SDA2-4T4.0G	SDA2-4T5.5G	SDA2-4T7.5G	
F	Rated Torque ( N·m )	17	19	27	35	48	
Rate	d Rotation Speed (R.P.M.)	1500	1500	1500	1500	1500	
F	Rated Current ( A )	6.5	7.5	10	12	20	
	Rotor Inertia ( kg·m²×10-4)	65	70	96.4	122.5	167.2	
Inst	tant Max Torque (N·m)	42	47	67	70	96	
Max	( Rotation Speed ( R.P.M. )	1800	1800	1800	1800	1800	
	Weight (kg)	19.5	20.5	25.5	30.5	40	
In	sulation Level	F Class ( 155℃ )					
	o motor Ambient Temperature	<b>-</b> 20°C~+40°C					
-	Brake Rated Voltage (V)	DC24±10%					
Magnetic brake	Brake Static Friction Torque ( N·m )		30			0	
tic	Brake Rated Power (W)	35			4	5	

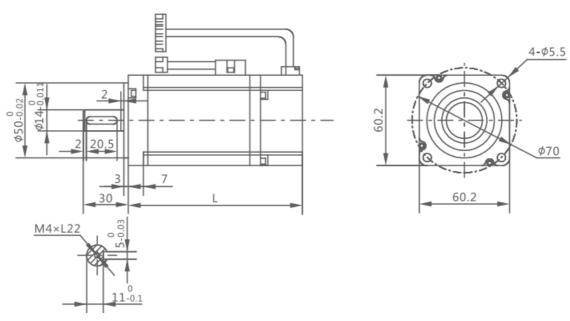
#### • 200mm Series

lé a m	Servo Motor Model				
Item	SCH200113B	SCH200113H	SCH200153B		
Rated Output Power (kW)	11	11	15		
Applicable Servo Motor Driver	SDA2-4T11G	SDA2-4T11G	SDA2-4T15G		
Rated Torque (N·m)	53	70	70		
Rated Rotation Speed ( R.P.M. )	2000 1500	1500	2000		
Rated Current (A)	22	21	28		
Rotor Inertia ( kg·m²×10-4)	72	97.7	97.7		
Back EMF (V/1000r/min)	145	220	167		
Insulation Level	F Class ( 155°C )  IP54				
Enclosure					
Cooling method	Fan cooling				

Item	Servo Motor Model					
Item	SCH200133H	SCH200183B	SCH200173H			
Rated Output Power ( kW )	13	18	17			
Applicable Servo Motor Driver	SDA2-4T11G	SDA2-4T18.5G	SDA2-4T18.5G			
Rated Torque (N·m)	84	84	105			
Rated Rotation Speed (R.P.M.)	1500	2000	1500			
Rated Current (A)	23	32	36			
Rotor Inertia ( kg·m²×10-4)	131	131	131			
Back EMF (V/1000r/min)	219	170	213			
Insulation Level	F Class (155℃)  IP54  Fan cooling					
Enclosure						
Cooling method						

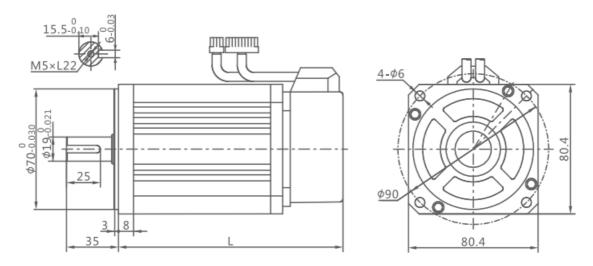
## **Servo Motor External Dimension**

## 60mm Series



Model	SCH060201C	SCH060401C
L (Without Brake)	109	133
L (With Brake)	157	181

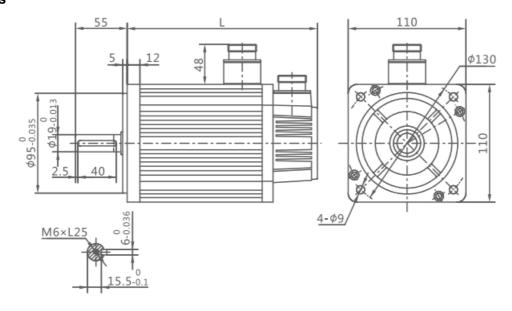
#### 80mm Series



#### 220V/380V

Model	SCH080751C	SCH080731B	SCH080102E
L (Without Brake)	151	179	191
L (With Brake)	193	221	233

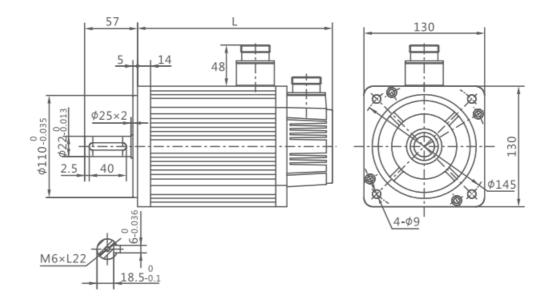
#### 110mm Series



#### 220V/380V

Model	SCH110122C	SCH110152C	SCH110122B	SCH110182C
L (Without Brake)	189	204	219	219
L (With Brake)	254	269	284	284

#### 130mm Series

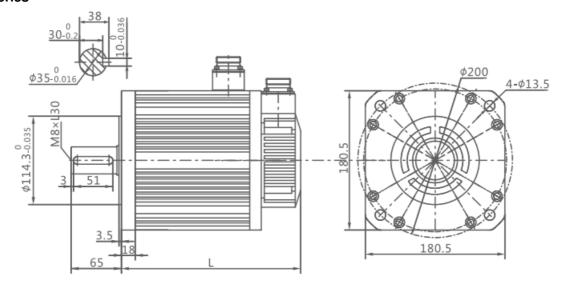


#### 220V/380V

Model	SCH130102E	SCH130132E	SCH130152E	SCH130202E
L (Without Brake)	166	171	179	192
L (With Brake)	226	231	239	252

Model	SCH130102A	SCH130152H	SCH130262E	SCH130232H	SCH130382E
L (Without Brake)	213	213	209	241	231
L (With Brake)	276	276	272	304	294

## 180mm Series



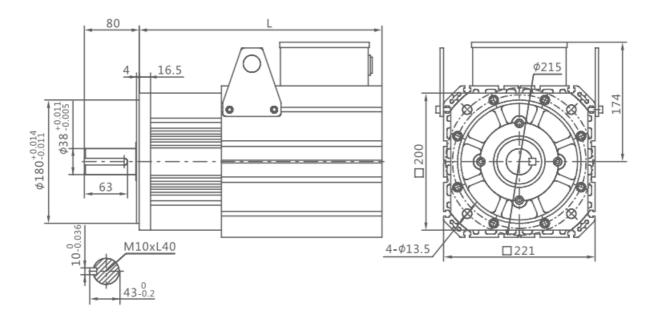
#### 220V/380V

Model SCH180252H		SCH180302H	SCH180432H	
L (Without Brake)	226	232	262	
L (With Brake)	298	304	334	

## 380V

Model	SCH180552H	SCH180752H
L (Without Brake)	292	346
L (With Brake)	364	418

#### 200mm Series



# 380V

Model	SCH200113B	SCH200113H	SCH200153B	SCH200133H	SCH200183B	SCH200173H
L (Without Brake)	375	413	413	451	451	505

# **Options**

Cable (Note: L: Cable length, unit: m)

Cable Model		Reference Sample	Matched Motor
DL-SCH086(ZD1)-N-L	Without Brake		
DL-SCH086(ZD1)-B-L	With Brake		SCH060 to SCH090
DL-SCH130(ZD1)-N-L DL-SCH180(ZD1)-N-L	Without Brake		
DL-SCH130(ZD1)-B-L DL-SCH180(ZD1)-B-L	With Brake		SCH110 to SCH180
SA2FK-P1S(ZD1)-L			SCH060 to SCH090
SA2FK-P2S(ZD1)-L			SCH110
SA2FK-P2F(ZD1)-L			to SCH200

**Power Cable Type Description** 



#### **Feedback Cable Type Description**



#### COOPERATIVE CLIENT



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Qualification

Received IS09001 and CE recognition 520621280203 V1.3 2023-01-10

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#### Sales service contact address:



#### **Documents / Resources**



<u>SAVCH SDA2 Series Servo System High Performance Purpose</u> [pdf] Instruction Manual SDA2 Series Servo System High Performance Purpose, SDA2 Series, Servo System High Performance Purpose, High Performance Purpose, Performance Purpose, Purpose

#### References

• User Manual

Manuals+,