

S8 Series AC Servo System



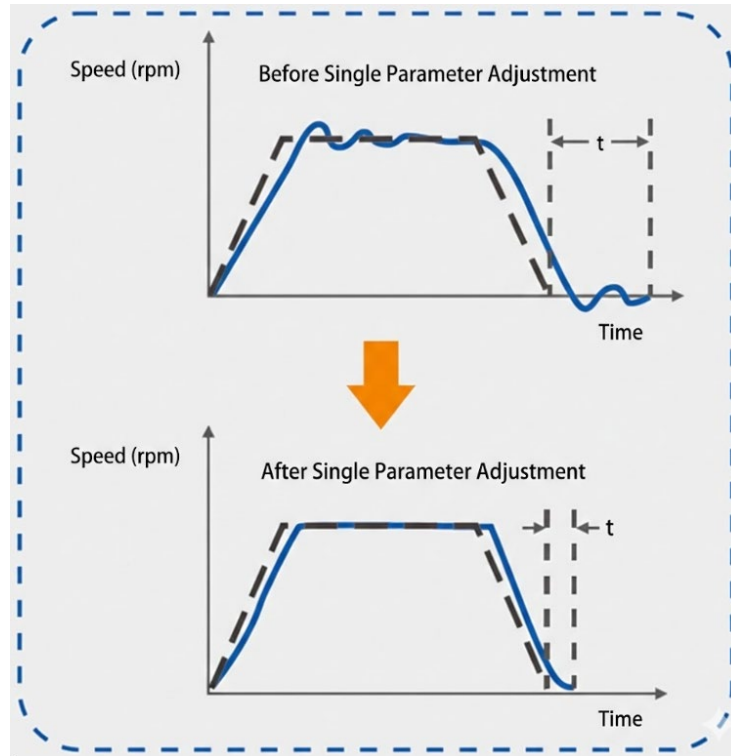
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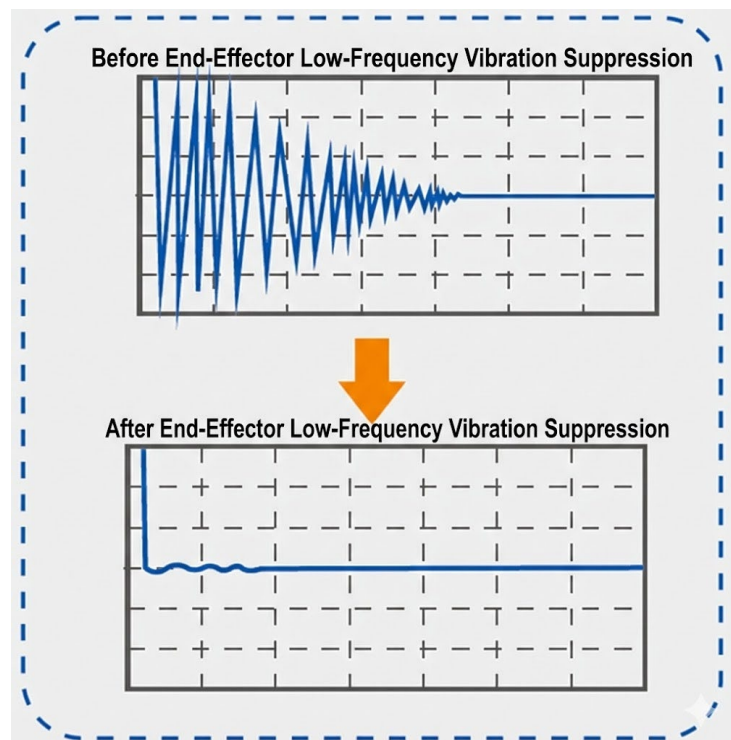
1. Product Features

Easy Debugging / Simple Tuning

- **Single Parameter Tuning:** Complete servo parameter tuning by adjusting a single parameter. Simple and easy to use.

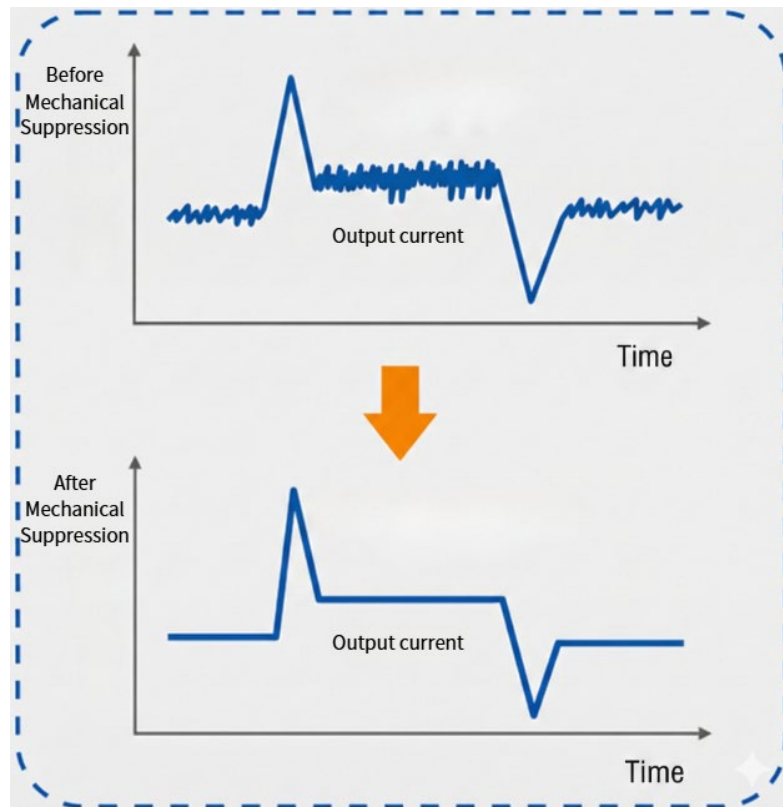


- **Mechanical Resonance Suppression & Low-frequency Vibration Suppression:** Suppresses low-frequency vibration at the mechanical end, effectively shortening the settling time.



- **Online/Offline Inertia Identification:** Four sets of notch filters (two adaptive) effectively suppress

mechanical resonance and improve equipment responsiveness.



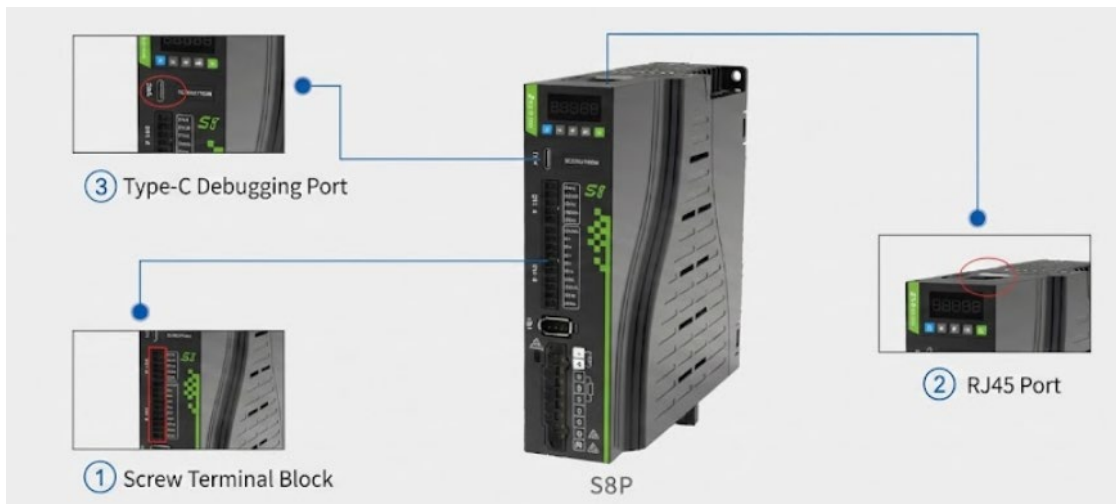
Standard 17-bit Absolute Encoder

- Meets the application requirements of most industries and equipment.



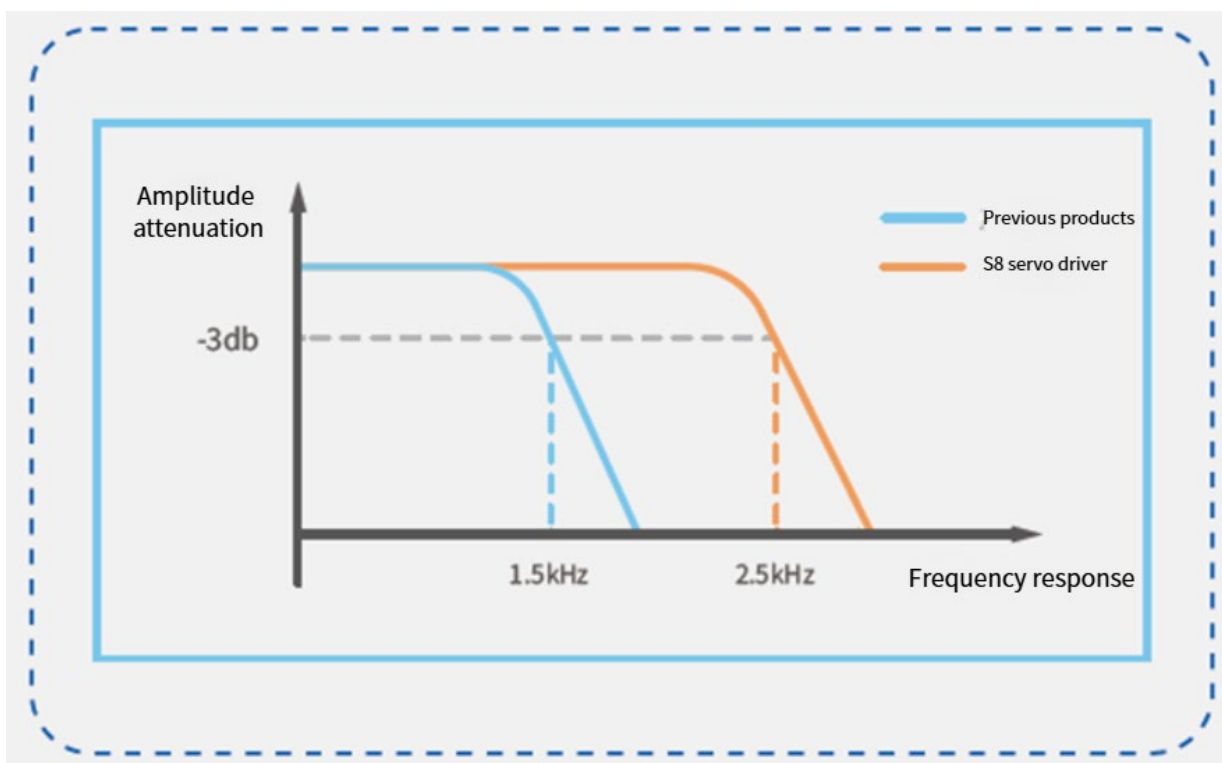
Convenient Interface Terminals

- **Pluggable Screw Terminals:** Easy wiring without soldering.
- **RS485 Communication:** Standard RJ45 network port.
- **Type-C Debugging Port:** High versatility and ease of connection.



Performance Improvement

- **2.5kHz Speed Loop Bandwidth:** Faster response and lower motor noise.



2. Driver Specifications

Naming Rules:

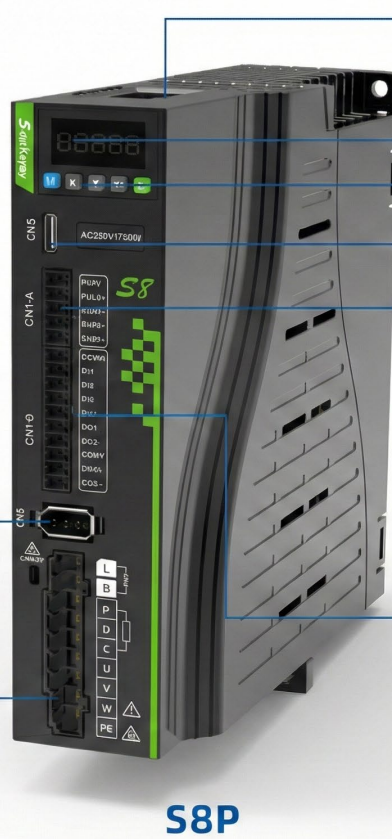


No.	Description	Code Definition
①	Product Series	S8: S8 Series Servo Driver
②	Product Type	P: Pulse + RS485 N: EtherCAT
③	Rated Power	400: 400W 750: 750W

Driver Specifications Parameters

Driver Model	S8P-400 / S8N-400	S8P-750 / S8N-750
Rated Output Power (W)	400	750
Main Power Supply (VAC)	Single-phase 220V	Single-phase 220V
Continuous Output Current (Arms)	2.8	5.5
Max Output Current (Arms)	8.4	16.9
Dimensions (W) D mm)	50 x 170 x 170	50 x 170 x 170

■ Drive Interface Definition



S8P

● CN3, CN4 Communication Terminals

Pin No.	Function
4	RS465+
5	RS485-
8	GND

● 5-digit LED Display

● 5-digit Keypad

● CN5 Debug Port

● CN2 Encoder Terminals

Pin No.	Function
1	5V
2	0V
3	BAT+
4	BAT-
5	SD+
6	SD-

● CN1-A Control Terminals

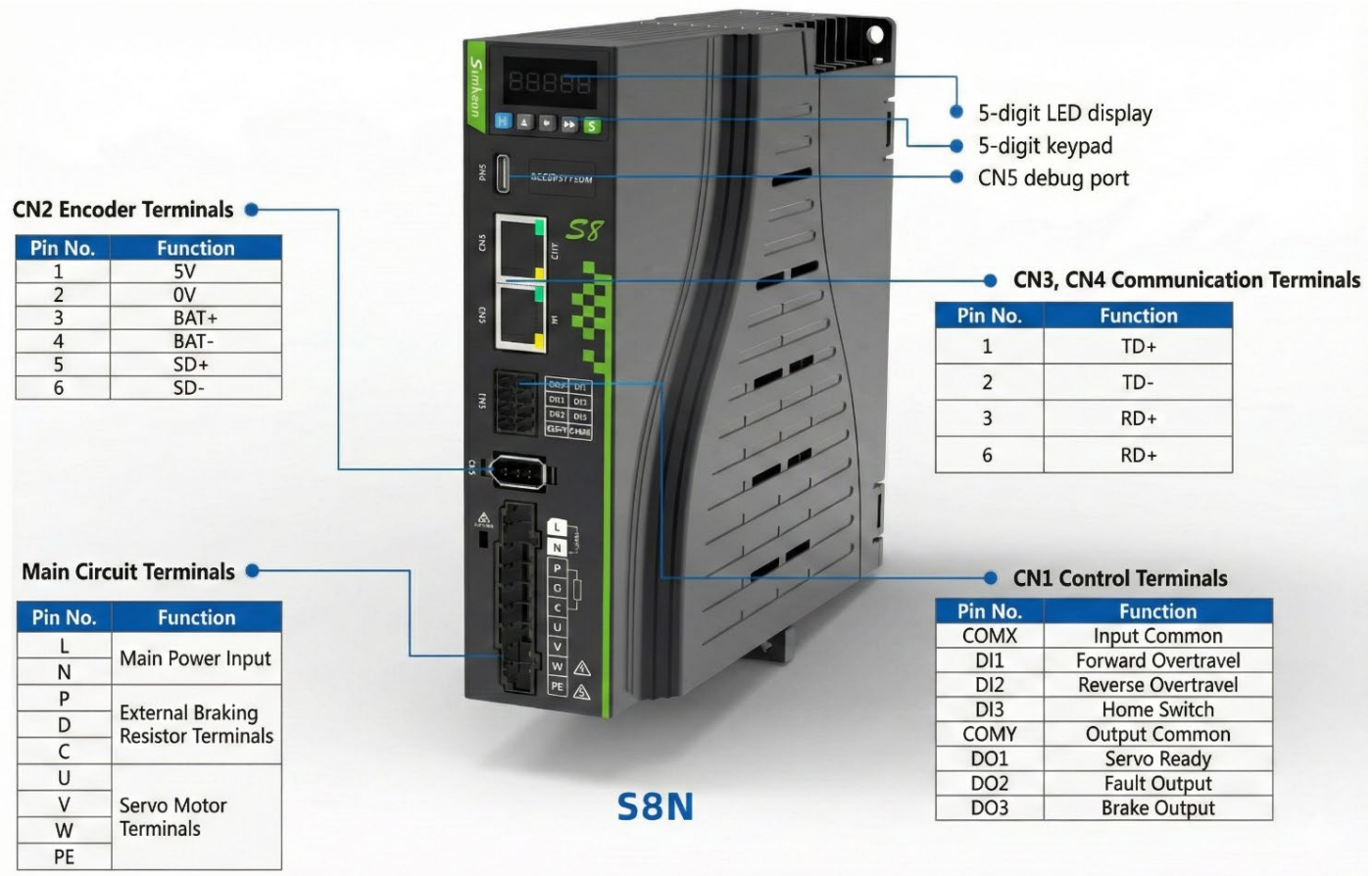
Pin No.	Function
P24V	Pulse Command Input Modes: • Differential Drive Input • Open Collector
PULS+	Input Pulse Forms: • Pulse + Direction • A/B Quadrature Pulse • CW/CCW Pulse
PULS-	
SIGN+	
SIGN-	

● Main Circuit Terminals

Pin No.	Function
L	Main Power Input
N	
P	External Braking Resistor Terminals
D	
C	
U	Servo Motor Terminals
V	
W	
PE	

● CN1-B Control Terminals

Pin No.	Function
COMX	Input Common
DI1	Servo Enable
DI2	Alarm/Fault Reset
DI3	Forward Overtravel
DI4	Reverse Overtravel
DO1	Servo Ready
DO2	Fault Output
COMY	Output Common
DO3+	Brake Output +
DO3-	Brake Output -



3. Motor Specifications

Motor Naming Rules



Code	Meaning	Options
①	Flange Size	60: 60x60mm 80: 80x80mm
②	Series	HS: HS Series Motor
③	Resolution	2: 17-bit Absolute Encoder
④	Rated Torque	013: 1.3 N.m 024: 2.4 N.m
⑤	Rated Speed	30: 3000 rpm
⑥	Encoder Type	C: Magnetic Encoder
⑦	Encoder Category	S: Single-turn

		M: Multi-turn
⑧	Input Voltage	A: AC 220V
⑨	Shaft End	A: Flat Key (Width 6mm) B: Flat Key (Width 5mm)
⑩	Brake	2: No Brake 3: With Brake

Motor Specification Parameters

Motor Model (Prefix)	Power (W)	Encoder	Brake	Rated Torque (Nm)	Max Torque (Nm)	Rated Speed (rpm)	Max Speed (rpm)	Rated Current (Arms)	Max Current (Arms)	Rotor Inertia (10 ⁻⁴ kg·m ²)	Voltage (V)
60HS-A01330...	400W	17-bit Mag (Single/Multi)	No/Yes	1.27	3.2	3000	6000	2.5	6.25	0.52	220
80HS-A02430...	750W	17-bit Mag (Single/Multi)	No/Yes	2.39	6	3000	6000	4.4	11	1.48	220

4. Cable Selection

Cable Name	Cable Model	Length	
Power Cable	HP-N030P2-AP04B	3 Meters	
	HP-N060P2-AP04B	6 Meters	
	HP-N100P2-AP04B	10 Meters	
Encoder Cable (Single-Turn)	HF-N030P1-AP04B	3 Meters	
	HF-N060P1-AP04B	6 Meters	
	HF-N100P1-AP04B	10 Meters	
Encoder Cable (Multi-Turn)	HF-N030P1-AP06B	3 Meters	
	HF-N060P1-AP06B	6 Meters	
	HF-N100P1-AP06B	10 Meters	

Brake Cable	HB-N030P2-AP02B	3 Meters	
	HB-N060P2-AP02B	6 Meters	
	HB-N100P2-AP02B	10 Meters	

5. Typical Configuration

Motor	Drive	Power Cable	Encoder Cable	Brake Cable
60HS-A01330-CS2B2	S8P-400 S8N-400	HP-N030P2-AP04B	HF-N030P1- AP04B	/
60HS-A01330-CS2B3				HB-N030P2- AP02B
60HS-A01330-CM2B2			/	
60HS-A01330-CM2B3			HB-N030P2- AP02B	
80HS-A02430-CS2A2	S8P-750 S8N-750		HF-NO30P1- AP04B	/
80HS-A02430-CS2A3				HB-N030P2- AP02B
80HS-A02430-CM2A2			/	
80HS-A02430-CM2A3			HB-N030P2- AP02B	