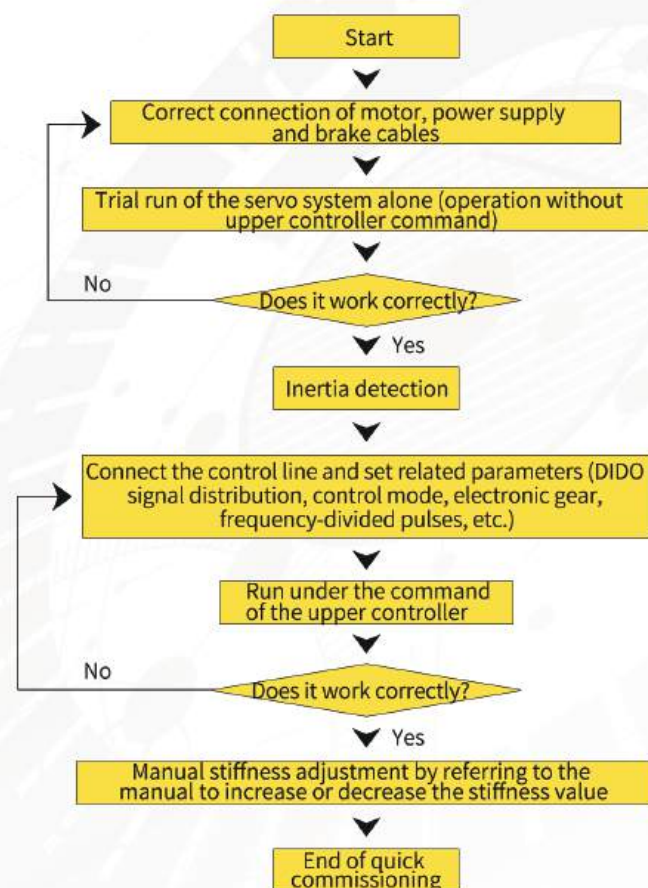


Power Specifications and Dimensions

Product dimension						
DS2P	04A	08A	10A	15A		
Power	400W	750W	1kW	1.5kW		
Length (mm)	170	170	185	185		
Width (mm)	50	50	63	63		
Height (mm)	160	160	180	180		
DS2P power specifications						
Rated output power (A)	1.4	1.6	2.8	4.8	7.6	10.0
Instantaneous maximum output current (A)	4.9	5.6	9.8	16.8	26.6	30.0
Communication	USB、RS485					
Motor feedback	17-bit single/multi-turn absolute magnetic encoder					
	23-bit single/multi-turn absolute optical encoder					
Input/output	Digital: 6 input ports, 4 output ports					
	Pulse: Symbol+pulse sequence, CW+CCW pulse sequence, 90° phase difference two-phase pulse (Phase A + Phase B)					

Note: If you need to use 100W/200W power section, you can choose 400W model

Quick Commissioning Wizard



Parameters to be set:

Press MOD to choose auxiliary function

AF002

PA103

PA501 control mode switching

PA20E (electronic gear ratio numerator)

PA210 (electronic gear ratio denominator)

PA212 number of frequency-divided pulses

AF030

Note: For details, please refer to the technical application manual.



DORNA

DS2P Servo Drive

400W / 750W / 1000W / 1500W



Velocity loop frequency response up to 1.6kHz

4-stage notch filter can be set to suppress mechanical system resonance

High resolution 23-bit absolute encoder available

Short positioning setting time

High performance | Fast response | High overload capacity | Easy to commission

History

2006
Jiasan Dorna Electronics was established in the Science and Technology Innovation Center

2010
The servo drive project was supported by the National Innovation Fund and was chosen as the major key science and technology special project of Zhejiang Province

2020
The new product DS2P was introduced to the market

2007
The first servo drive was successfully developed

2017
Midea Group acquired Servotronics Motion Control Corporation

2022
Enhanced version of DS2P was launched

Drive Order Information

DS2 P - 08 A S * ****
① ② ③ ④ ⑤ ⑥

① Product type		③ Voltage supply		⑥ Factory code	
P	Pulse type	A	220V	None	Standard

② Rated output power		④ Encoder type	
04	400W	S	Serial encoder interface
08	750W		
10	1kW		
15	1.5kW		

⑤ Non-standard specifications	
None	General specifications

Motor Naming Rules

DM 1 M - 04 A 60 J 8 S - **
① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

① Product type		④ Voltage supply		⑦ Shaft end	
1	Design order	A	220V	7	Straight shaft without key
2	Design order			8	Straight shaft with key and hole

② Type of inertia		⑤ Flange size number		⑧ Options	
S	Small inertia	40	□ Flange size 40	1	No options
M	Medium inertia	60	□ Flange size 40	B	With brake
H	Large inertia	80	□ Flange size 80	S	With oil seal
G	Super large inertia	100	□ Flange size 100	E	With oil seal, brake

③ Rated output		⑥ Encoder type		⑨ Special specifications	
01	100W	I	17-bit single-turn absolute magnetic encoder	None	Standard product
02	200W	J	17-bit multi-turn absolute magnetic encoder	-**	Customer custom code
04	400W	M	23-bit single-turn absolute optical encoder		
08	750W	L	23-bit multi-turn absolute optical encoder		
09	900W				
10	1.0kW				
13	1.3kW				
15	1.5kW				
18	1.8kW				
20	2.0kW				

Note: The naming rules only describe the symbol content; not all symbol combinations available.

Drive Motor Matching Table

Power supply AC220V series:
Single/three-phase AC220V

Circuit breaker for wiring
Used to protect the power line and cut off the power when the current is too large.

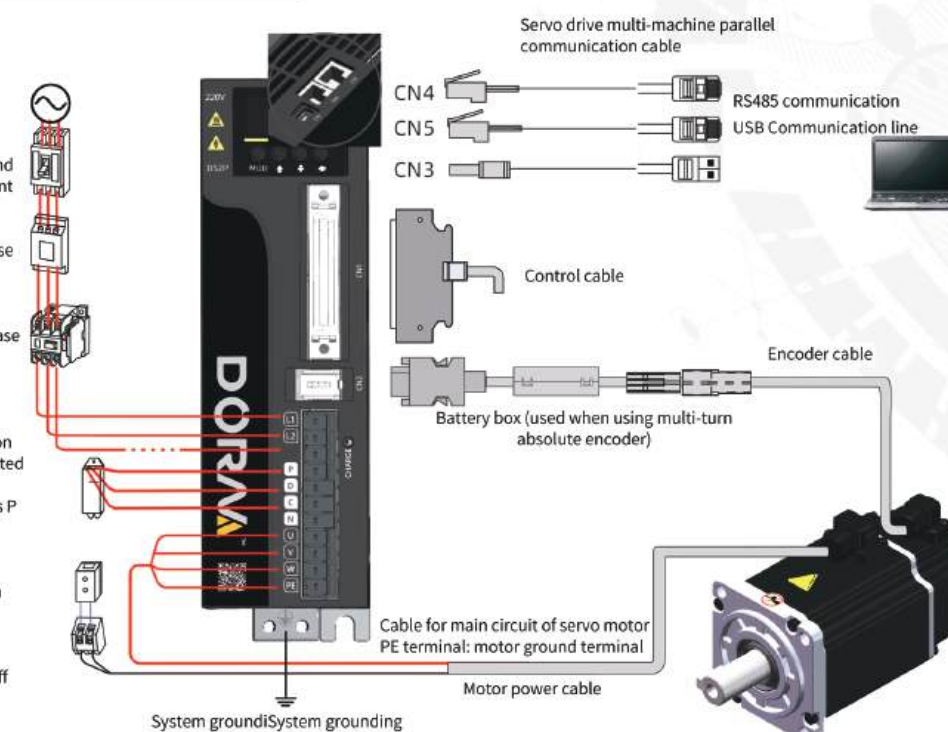
Noise filter prevents external noise from the power supply line.

Electromagnetic contactor
Turn on/off the servo power. Please install a surge suppressor when using.

Regenerative resistor
In case of insufficient regeneration capacity, P and D are open-circuited and an external regeneration resistor is connected at terminals P and C.

Brake power supply
24Vdc voltage source; used when the servo motor has a brake.

Electromagnetic contactor
Brake control signal to turn on/off the brake power. Please install a surge suppressor when using.



Note: 400W models are not equipped with short contact tab.

Flange size	Power(W)	Inertia class	Motor model	DS2P-04AS	DS2P-08AS	DS2P-10AS	DS2P-15AS
□40	100	Medium inertia	DM1M-01A40□□□	✓			
□60	200	Medium inertia	DM1M-02A60□□□	✓			
		Super large inertia	DM1G-04A60□□□	✓	!		
	400	Large inertia	DM1H-04A60□□□	✓	!		
		Medium inertia	DM2M-04A60□□□	✓	!		
□80	750	Large inertia	DM1H-08A80□□□		✓	!	
		Medium inertia	DM2M-08A80□□□		✓	!	
	1000	Medium inertia	DM1M-10A80□□□			✓	!
□100	1000	Medium inertia	DM2M-10A100□□□			✓	!
	1500	Medium inertia	DM2M-15A100□□□				✓
	2000	Medium inertia	DM2M-20A100□□□				✓
□110	1000	Medium inertia	DM2M-10A110□□□			✓	!
	1500	Medium inertia	DM2M-15A110□□□				✓
	2000	Medium inertia	DM2M-20A110□□□				✓
□130	900	Medium inertia	DM1M-09A130□□□			✓	!
		Small inertia	DM1S-09A130□□□			✓	!
	1000	Small inertia	DM1S-10A130□□□			✓	!
	1300	Medium inertia	DM1M-13A130□□□				✓
	1500	Small inertia	DM1S-15A130□□□				✓
	1800	Medium inertia	DM1M-18A130□□□				✓
	2000	Small inertia	DM1S-20A130□□□				✓

✓ represents the standard set model.
! represents the compatible model, but not a standard set model.
✓ represents the standard set model, but with reduced overload capacity.