

JAND AC Servo System

Product Catalog

Space-saving

Excellent performance

Good appearance



Shenzhen **Just Motion Control** Electromechanics Co., Ltd.

Add.: Jiayu Technology Park, Jin'an Road, Matian Street, Guangming District, Shenzhen, China.

E-mail: sales4@jmc-motion.com

Tel: 0086 18782163510

Web: www.jmc-motor.com

JMC JAND SERVO SYSTEM

1. JMC JAND servo driver specifications

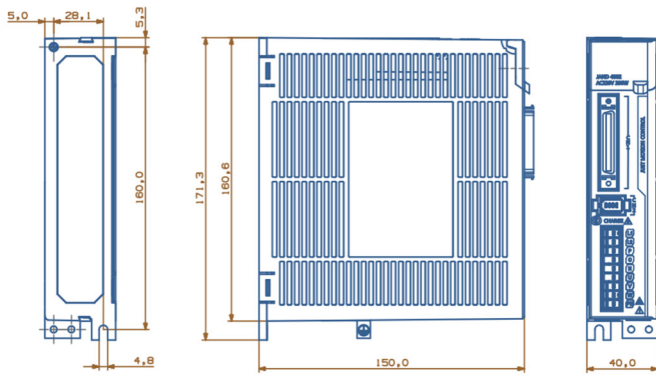
Space-saving, Excellent performance, Good-looking appearance

Driver Model	JAND2002-20B	JAND4002-20B	JAND7502-20B	JAND10002-20B
Continuous output current Arms	1.6	2.8	5.5	7.6
Maximum output current Arms	5.8	9.6	16.9	23.0
Power Supply	Single-phase AC180V-240V, 50/60Hz			
Brake processing function	External braking resistor		Built-in braking resistor	
Control Mode	Single-phase rectifier, IGBT, PWM control, sine wave current drive mode			
Encoder	17-bit/23-bit single-turn/multi-turn absolute encoder			
Encoder frequency division output	Any frequency division output			
Speed control range	1: 6000			
Speed loop bandwidth	2KHz			
Torque control accuracy	±2%			
Overload capacity	3 times			
Analog command input	2 -10V~10V			
IO input	8 input			
IO output	5 output			
Z signal output	Can match different width output			
Absolute encoder return to zero	Absolute position can be set as mechanical origin			
Communication function	RS485		Support MODBUS protocol	
	RS232		Connect to PC for debugging	
Performance characteristics	High power density	Occupies a small cabinet area, and the product is more refined and beautiful		
	Current loop frequency multiplication control technology	Carrier frequency 8K; current loop sampling frequency 48K; current loop bandwidth 4KHz		
	Speed Observer Technology	On specific occasions, it can improve rigidity/reduce noise/running more smoothly		
	One-key rigid setting gain	A single rigid parameter setting completes the servo tuning		
	Online and offline inertia identification	Automatic identification of system load inertia or manual identification of system inertia		
	Parameter self-tuning technology	Automatically complete the tuning of loop parameters for positioning requirements and operating curves		
	Adaptive high frequency vibration suppression	Automatically identify the high-frequency resonance frequency of the system and suppress it with a filling wave filter		
	Cogging torque compensation	Compensate the cogging torque to make the motor run more smoothly		
	Speed feedforward/torque feedforward	Use disturbance observer to infer disturbance torque and make compensation to reduce the influence of disturbance torque		

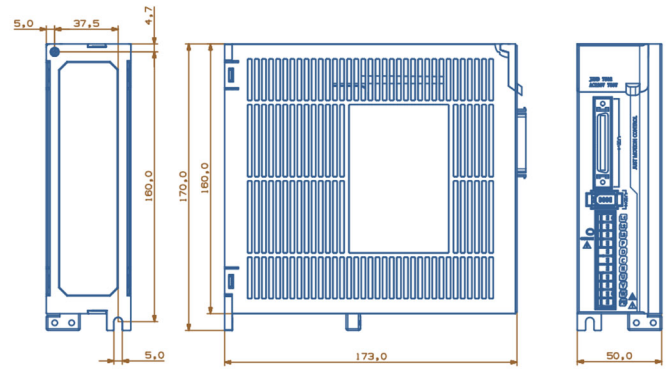
2. Motor Specifications

Model	Length (with brake) (mm)	Length (mm)	Power Supply (V)	Rated Power (W)	Rated Torque (Nm)	Max Torque (Nm)	Rated Current (Arms)	Max Current (Arms)	Rotor Inertia (10 ⁻⁴ kg · m ²)	Rated Speed (r/min)	Max Speed (r/min)	Matching driver
40JASM501230K-17BC	109.0	79.0	220	100	0.31	0.95	1.1	3.3	0.04	3000	6000	JAND2002-20B
60JASM502230K-17BC	104.0	78.5	220	200	0.64	1.92	1.7	5.1	0.20	3000	6000	JAND2002-20B
60JASM504230K-17BC	130.5	98.5	220	400	1.27	3.81	2.8	8.4	0.30	3000	6000	JAND4002-20B
80JASM507230K-17BC	140.0	108.0	220	750	2.39	7.16	4.9	14.7	0.83	3000	5000	JAND7502-20B
80JASM510230K-17BC	155.0	123.0	220	1000	3.18	9.54	5.4	16.2	1.15	3000	5000	JAND10002-20B

3. Installation Size

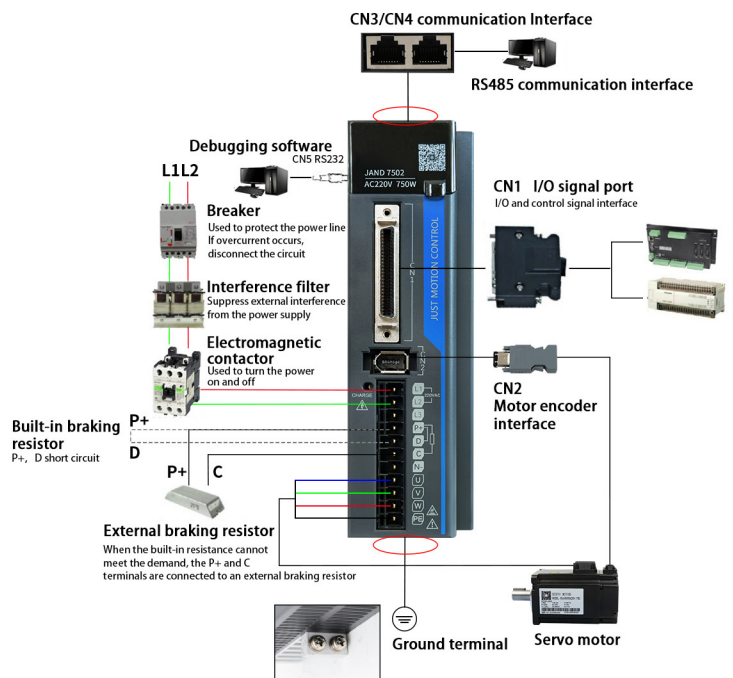
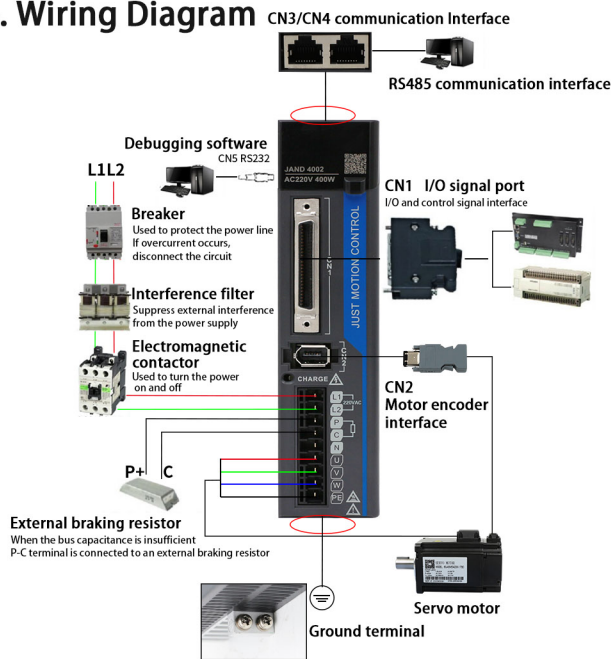


400W and below power AC servo driver (unit: mm)



750-1000W power AC servo driver (unit: mm)

4. Wiring Diagram



5. JMC JAND servo driver and motor matching table

	Motor base	40mm	60mm		80mm	
	JASM motor	Images				
Model		40JASM01230K-17BC	60JASM502230K-17BC	60JASM504230K-17BC	80JASM507230K-17BC	80JASM510230K-17BC
Power		100W	200W	400W	750W	1000W
Driver		200W driver		400W driver	750W(1000W) driver	
JAND driver	Images					
	Model	JAND2002-20B		JAND4002-20B	JAND7502-20B	JAND10002-20B
	Power	200W		400W	750W	1000W