

Product Features:

- 1. 15 bit absolute encoder, one cycle pulse up to 32768.
- 2. Absolute value of multiple turns, the maximum record is 65535 turns. (battery required).

Pulse mode: power on again and return to power off position automatically.

Communication mode: power off recording position.

- 3. Multistage DD motor structure, large torque output.
- 4. Integrated servo, simplified wiring, ultra small volume.
- 5. Low noise, low vibration, high speed positioning, high reliability.
- 6. FOC field oriented vector control, supporting position / speed closed-loop.
- 7. It can work in the given pulse state of zero lag and follow the zero lag.
- 8. 16 bit electronic gear function.
- 9. Modbus RTU communication (19200, 8, N, 1).
- 10. Position mode, support pulse + direction signal
- 11. Has locked rotor, over-current and over-voltage protection.

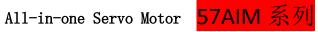


Specifications:

Power Voltage 24~36VDC 4.4A 4.4A <th></th>				
Motor parameter Torque 0.48NM 0.24NM 0.96NM 0.48NM Rated speed 1000RPM 2500RPM 1000RPM 2500RPM Max speed 1500RPM 3000RPM 1500RPM 3000RPM Power 50W 50W 100W 100W Resistance 2.65Ω 2.65Ω 1.3Ω 1.3Ω 1.3Ω Inductance $1.1mH$ $1.1mH$ $0.5mH$ $0.5mH$ Rotor inertia $9.139x10^{-5}$ $9.139x10^{-5}$ $1.184x10^{-5}$ $1.184x10^{-5}$ Feedback signal Multi turn absolute encoder (single turn 32768 pulse, siturn 15 bit)				
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turn 15 bit)				
·	Multi turn absolute encoder (single turn 32768 pulse, single			
Cooling mothed Natural cooling	turn 15 bit)			
	Natural cooling			
Weight				
Position control Max pulse input 500KHz				
mode frequency				
Pulse instruction Pulse + Direction, A phase +B phase mode	Pulse + Direction, A phase +B phase			
Electronic gear ratio Setting range from 1~65535 to 1~65535	Setting range from 1~65535 to 1~65535			
Position sampling 2KHz				
frequency				
Protect function Blocked alarm				
Communication interface RS485 (modbusRTU 19200,8,N,1)				

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Using environment Temperature 0~40°

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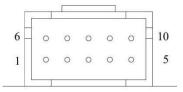


Motor allowed max	85°
temperature	
Humidity	5~95%

Interface Definition:

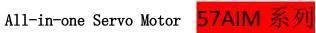
Terminal No.: Face to terminal, the left one is the first.

Terminal No.	Name	Function
1	+24V	Positive pole of DC power , +24V _o May short circuit or damage driver if positive and negative connect wrong
2	GND	DC power gound (May short circuit or damage driver if positive and negative connect wrong)
3	PU+ (+5V)	Pulse control the signal:pulse rising edge is effective;PU-high power usually 3.3-5V,low
4	PU- (PU)	power usually 0-0.5V.In order to reliablity respond to the pulse, the pulse width should greater than 1.2 μ s.If use +12V or +24V, resistance is required.
5	DIR+ (+5V)	Direction signal:High/low level signal,to ensure reliable reversing of the motor, the
6	DIR- (DIR)	direction signal should be established at least 5µs before the pulse signal.DIR-high power usually 3.3-5V,low power usually 0-0.5V.



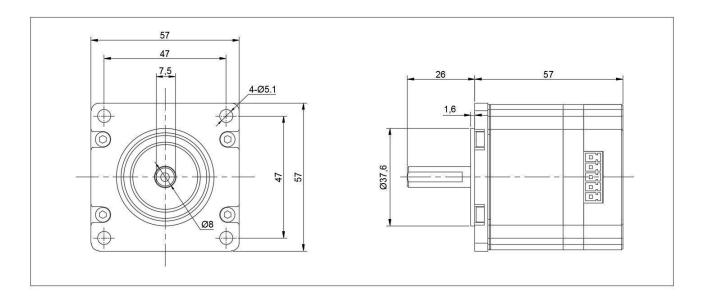
Terminal No.:Face to terminal, from left to right, the low row is 12345, the up row is 678910

Terminal No.	Name	Function
1	NC	
2	485A	485 communication positive pole
3	485B	485 communication negative pole
4	NC	
5	NC	
6	сом	Output signal and 485 power supply are common ground.
7	WR	Alarm signal output, internal for optocoupler NPN output. Normal for high resistance state, when alarm, conect with COM.
8	RDY/PF	Servo ready for signal. After the servo works normally, the output communication number of optocoupler NPN is generated. After the power is cut off, the battery is in a high resistance state.
9	ZO	Encoder zero point output.Zero signal optically coupled NPN output signal.
10	485_5V	485 communication 5V power supply, external power supply is requested. (The power supply is powered by the controller)



Motor Dimension:

57AIM15:



57AIM30:

