Product characteristics

- 1. 15 bit absolute encoder, one pulse up to 32768.
- 2. Multi-circle absolute value, maximum record 65535 laps. (Distribution pool required). Pulse mode: re-power automatic power back off position.

Communication mode: power off record 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 reliabil
- 6. FOC field oriented vector control, support position / speed clo
- 7. can work at zero hysteresis given pulse state, following zero h
- 8. 16-bit electronic gear function.
- 9. m odbus R T U communications (19200,8, N,1).
- 10. Position mode, support pulse + direction signal
- 11. With blocking, overcurrent protection, overvoltage protection.



Mod	el parameters	57AIM15	57AIM15H	57AIM15H 57AIM30			
Power supply	Voltage	24~36 VDC	24~36 VDC	24~36 VDC	24~36 VDC		
	Current	2.2 A	2.2 A	A 4.4	A 4.4		
Motor parameters	Torque	NM 0.48	0.24 NM 0.96 NM		NM 0.48		
	Rated speed	1000RPM	2500RPM	1000RPM	2500RPM		
	Maximum rotational speed	1500RPM	3000RPM	1500RPM	3000RPM		
	Power	50W	50W	100W	100W		
	Resistance	2.65Ω	2.65Ω	1.3Ω	1.3Ω		
	Inductance	1.1 mH	1.1 mH	0.5 mH	0.5 mH		
	moment of inertia	9.139 x 10 ⁻⁵ <i>KG /M</i> ²	9.139 x 10 ⁻⁵ <i>KG /M</i> ²	1.184 x 10 ⁻⁵ <i>KG /M</i> ²	1.184 x 10 ⁻⁵ <i>KG /M</i> ²		
Feedback signal		Multi-loop absolute encoder (single-loop 32768 pulse, single- loop 15 bits)					
Cooling mode		Natural cooling					
Weight							
Position Control Mode	Maximum input pulse frequency	500KHz					
	Pulse instruction mode	Pulse + direction, A phase +B phase					
	Electronic gear	Set up ~65535 to 6	5535				

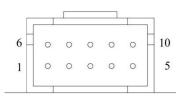
Parameters

	ratio	
Location sampling		2KHz
	frequency	
Protection function		Stopping alarm
Communication interface		RS485(modbus RTU 19200,8, N,1)
Environment	Ambient	0~40°
	temperature	
	Maximum	85°
permissible		
temperature of		
	motor	
Humidity		5~95%

Interface definitions

Terminal	serial	number:	facing	the	terminal,	the	left	is	the	first.	
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Terminal serial number	Name of name	Function
1	V +24	Positive DC Power +24 V. Negative and positive connections can either directly short the power supply or damage the driver
2	GND	DC power source. Negative and positive connections can either directly short the power supply or damage the driver
3	PU+(+5 V)	Pulse control signal: pulse rising edge is effective; PU- high power 3.3^{5}
4	PU-(PU)	V, low power $0^{\sim}0.5$ For reliable response to a pulse signal, the pulse width should be greater than μ s.1.2 When using +12 V or +24 V, series resistance is required.
5	DIR+(+5 V)	Direction signal: high / low level signal, in order to ensure the reliable
6	DIR-(DIR)	commutation of the motor, the direction signal should precede the pulse signal at least 5μs established.DIR- high power 3.3~5 V, low power 0~0.5 V.



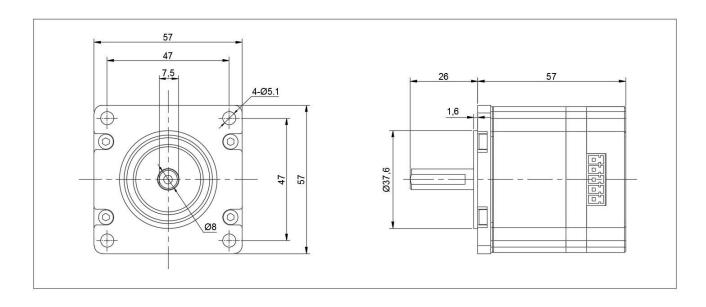
Terminal serial number: facing terminal, lower row from left to right is 12345, upper row from left to right is 6 7 8 9 10.

Terminal serial number	Name of name	Function
1	NC	
2	485A	485 Positive end of communication
3	485B	485 Negative terminal
4	NC	

5	NC	
6	СОМ	Output signal and 485 power supply common ground.
7	WR	Alarm signal output, internal optocoupler NPN output. Normal high resistance state, alarm with COM conduction.
8	RDY	Servo ready signal. After the servo works normally, the optical coupling NPN outputs the conduction signal, and the battery power supply is high resistance state after power off.
9	ZO	encoder zero point output. Have zero point signal optical coupling NPN output conduction signal.
10	485_5 V	485 Communication 5 V power supply, need external power supply. (This power supply is powered by a controller)

Motor size

57AIM15:



57AIM30:

