

Product Features :

1. Isolated can communication (easycan protocol, simple, fast to use, speed 1m).
Support contour position mode, and, periodic synchronization mode.
2. 15 bit absolute encoder, one cycle pulse up to 32768.
3. Multi turn absolute value (battery required).
Pulse mode: power on again and return to power off position automatically.
Communication mode: power off recording position.
4. Multistage DD motor structure, large torque output.
5. Integrated servo, simplified wiring, ultra small volume.
6. Low noise, low vibration, high speed positioning, high reliability.
7. FOC field oriented vector control, supporting position / speed closed-loop.
8. It can work in the given pulse state of zero lag and follow the zero lag.
9. 16 bit electronic gear function.
10. Provide serial port upper computer, which can monitor motor status and modify parameters.
11. Position mode, support pulse + direction signal, encoder follows
12. Speed mode, support PWM duty cycle signal speed regulation
13. It has locked rotor, over-current protection and over-voltage protection.



参数表

Model No.		57AIM15C	57AIM15CH	57AIM30C	57AIM30CH
Power	Voltage	24~36VDC	24~36VDC	24~36VDC	24~36VDC
	Cuttent	2.2A	2.2A	4.4A	4.4A
Motor parameter	Torque	0.48NM	0.24NM	0.96NM	0.48NM
	Rated speed	1000RPM	2000RPM	1000RPM	2000RPM
	Max speed	1500RPM	2500RPM	1500RPM	2500RPM
	Power	50W	50W	100W	100W
	Resistance	2.65 Ω	2.65 Ω	1.3 Ω	1.3 Ω
	Inductance	1.1mH	1.1mH	0.5mH	0.5mH
	Rotor inertia	9.139×10^{-5} KG / M^2	9.139×10^{-5} KG / M^2	1.184×10^{-5} KG / M^2	1.184×10^{-5} KG / M^2
Feedback signal		Multi turn absolute encoder (single turn 32768 pulse, single turn 15 bit)			
Cooling mothed		Natural cooling			
Weight					
Position control mode	Max pulse input frequency	500KHz			
	Pulse instruction mode	Pulse + Direction, A phase +B phase			
	Electronic gear ratio	Setting range from 1~65535 to 1~65535			
	Position sampling frequency	2KHz			
Protect function		Blocked alarm			
Communication interface		Easycan (CAN communication, speed 1M)			

一体式力矩伺服电机 **57AIM 系列**



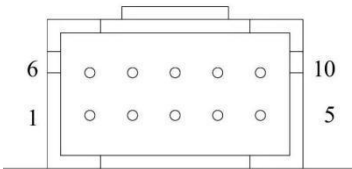
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		串口 TTL（19200,8,N,1）（监测电机状态和修改参数）。
Using environment	Temperature	0~40°
	Motor allowed max temperature	85°
	Humidity	5~95%

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。 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 power usually 0-0.5V.In order to reliability respond to the pulse,the pulse width should greater than 1.2μs.If use +12V or +24V,resistance is required.
4	PU- (PU)	
5	DIR+ (+5V)	Direction signal:High/low level signal,to ensure reliable reversing of the motor, the 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.

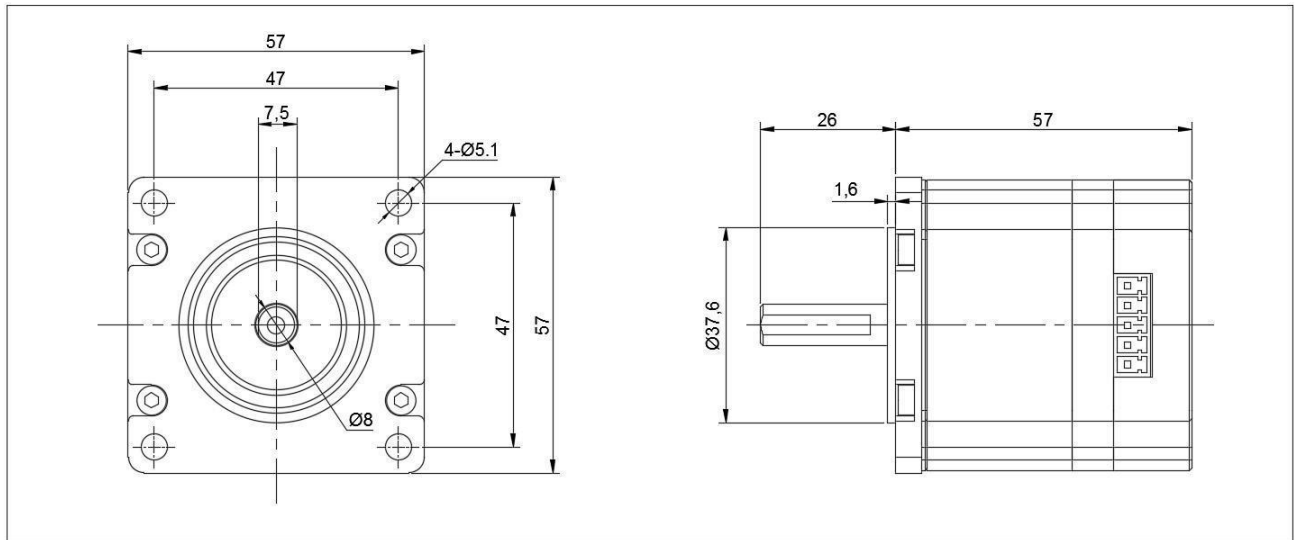


Terminal No.:Face to terminal, from left to right, the low row is 12345, the up row is 678910

Terminal No.	Name	Function
1	CANL	Can communication port, CAN_5V n COM need 5V power input if use CAN communication
2	RX	Driver serial port sending port (TTL level)
3	TX	Driver serial port sending port (TTL level)
4	CANH	Can communication port, CAN_5V n COM need 5V power input if use CAN communication
5	GND	GND/Serial port
6	COM	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 signal/in place signal.Have signal when power on and automatic operation(On), Have signal when the following error is less than 0.5 ° (On), No signal when the following error is greater than 0.5(high resistance state)
9	ZO	Encoder zero output.Zero signal optically coupled NPN output signal.
10	CAN_5V	485 communication 5V power supply,external power supply is requested.(The power supply is powered by the controller)

Motor Dimension :

57AIM15:



57AIM30:

