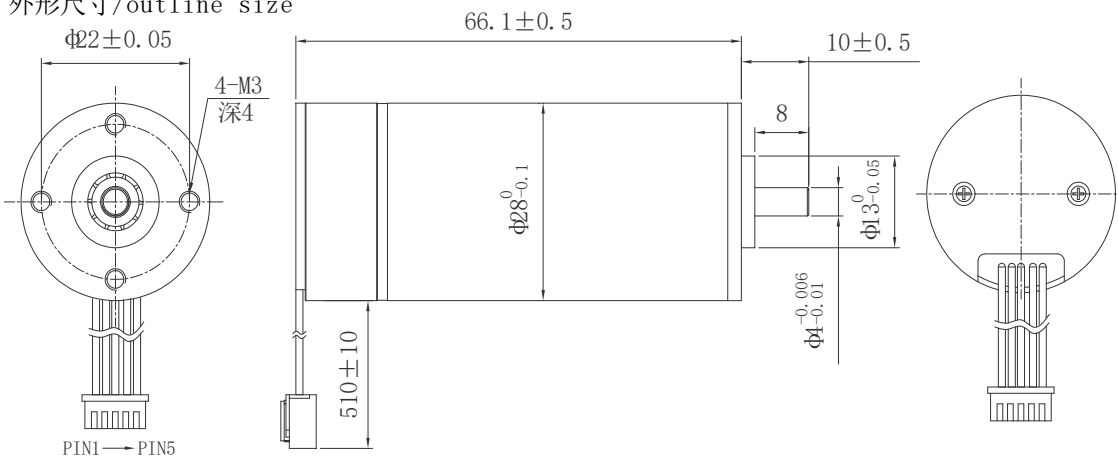


2854RBE空心杯内置伺服驱动电机(Coreless Motor With Built-in Servo Driver)

外形尺寸/outline size



Built-in servo drive motor

注意：以下端子定义只能二选一(Note: Pls choose one from following terminal options)			
端子定义选择1: JST PHR-5P PH2.0 AWG26 PE		端子定义选择2: JST PHR-5P PH2.0 AWG26 PE	
PIN1	- 黑色(Black)	PIN1	- 黑色(Black)
PIN2	+ 红色(Red)	PIN2	+ 红色(Red)
PIN3	空 白色(White)	PIN3	方向Direction 白色(White)
PIN4	A(485通讯口) 蓝色(BLue)	PIN4	故障信号Fault signal 蓝色(BLue)
PIN5	B(485通讯口) 黄色(Yellow)	PIN5	脉冲Pulse 黄色(Yellow)

电机参数 (Motor data)		09A	25A	18A	14A	34A	32A	38A			
1 额定电压 Nominal voltage	V	12	24	30	30	30	30	30			
2 最高转速 Maximum speed	rpm	11000	15000	21000	16000	15000	17000	19000			
3 最大连续电流 Nominal current	A	1	1	1	1	1	1	1			
4 最大连续转矩 Maximum turning distance	mNm	280	350	510	390	370	410	490			
5 堵转电流 Stall current	A	3	3	3	3	3	3	3			
6 转矩常数 Torque constant	mNm/A	10.21	14.97	13.37	17.55	18.72	16.52	14.78			
7 转速/转矩梯度 Speed/pitch gradient	rpm/mNm	39	43	41	41	41	41	39			

内置伺服驱动器 (Built-in servo drive)	
参数Parameter:	功能特点Functional characteristics:
1、工作电压(Operating voltage): DC7V-36V	1、集成于电机尾部, 无需外接驱动器, 精简产品结构及线路连接
2、额定电流(Nominal current): 3A	Integrated at the rear of the motor, eliminating the need for external drivers and simplifying product structure and wiring connections.
3、最小速度单位(Mini. speed unit): 0.01RPM	2、接口: 485接口或 脉冲+方向+故障信号
4、最小电流单位(Unit of minimum current): 1mA	Interface: 485 interface or pulse+direction+fault signal
5、速度控制精度(Speed control accuracy): $\pm 0.5\%$	3、采用3相FOC矢量控制电机
6、电流控制精度(Current control accuracy): $\pm 5\text{mA}$	Adopting 3-phase FOC vector to control motor
7、最小位置控制单位(Minimum position control unit): 0.01°	4、MODBUS控制协议 (485接口通讯)
8、485接口(485 interface):	MODBUS control protocol (485 interface communication)
9、①最大电压5V(Max Voltage 5V) ②A、B	5、速度模式、电流模式 (可控制扭力)
③最大波特率921600(Max baud rate 921600)	Velocity mode、Current mode (controllable torque)
④传输距离 (波特率921600): 20米 Transmission distance (baud rate 921600) : 20 meters	6、故障输出、运行状态 (包括: 角度、速度、电流、电压、温度、状态) Fault output, operating status (including: angle, speed, current, voltage, temperature, status)
10、脉冲+方向接口 (TTL) Pulse direction interface (TTL):	7、过压保护、欠压保护、过流保护、驱动器过温保护。
①允许输入上拉电压Allows input of pull-up voltage: 5V	Protective functions: overvoltage, undervoltage, overcurrent, excess temperature
②最大脉冲频率Max pulse frequency: 1MHz	
③传输距离: >2米 (Transmission distance>2M)	