

一体集成式驱动电机

Integrated drive motor

Hb42

一体集成式脉冲闭环步进驱动电机
Integrated pulse closed-loop stepper drive motor



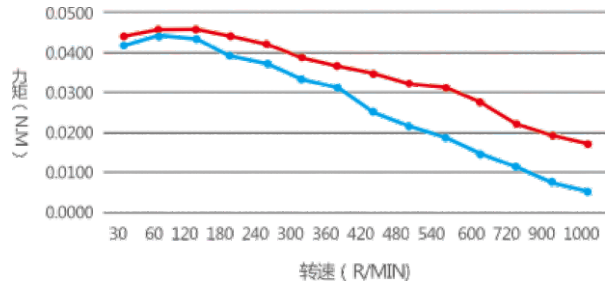
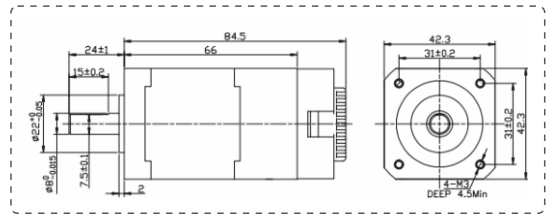
产品特点 Product characteristics

- 全新32位DSP技术
- 低振动，低噪声，运行平稳
- 内置高分辨和平滑滤波功能
- 参数上电自动匹配电机功能
- 变电流控制使电机发热大为降低
- 静止时电流自动减半
- 可驱动42闭环两相步进电机
- 光电隔离单端信号输入（脉冲，方向和使能）
- 脉冲响应频率最高可达500KHz（出厂默认200KHz）
- 电流随负载闭环而闭环
- 细分设定范围为200-51200，更高分辨可定制
- 具有过压、欠压、过流等保护功能

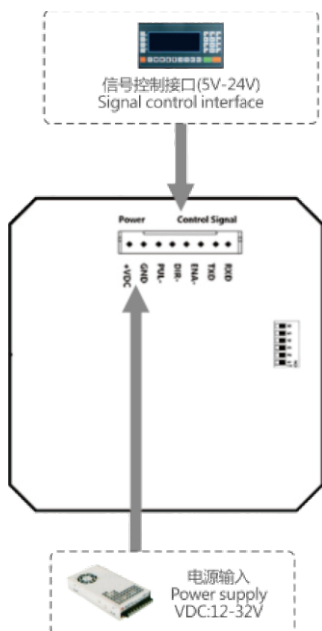
机械安装图和矩频曲线 Mechanical drawing and Pull out torque curve

电气参数 Electrical parameter

参数 Parameters	最小值 Minimum value	典型值 Typical value	最大值 Maximum value	单位 Unit
连续输出电流 Output	0.5	-	2.5	A
电源电压（直流） Power Supply Voltage (DC)	15	24	32	Vdc
控制信号输入电流 Control signal input current	6	10	16	mA
控制信号输入电压 Control signal input current	-	5	-	Vdc
脉冲高电平最小时间宽度 Minimum time width of pulse high level	1.5	-	-	US
过压电压点 Overvoltage point	35	-	-	Vdc
步进脉冲频率 Step frequency	0	-	200	KHz
绝缘电阻 Insulation Resistance	100	-	-	MΩ



产品配置图 Product configuration diagram



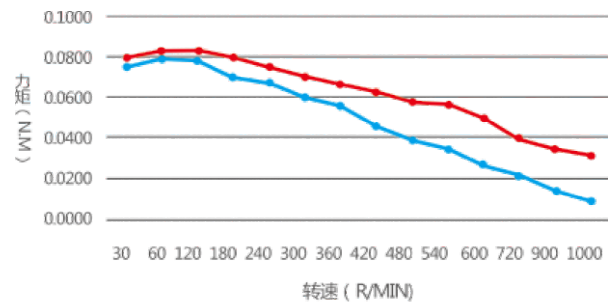
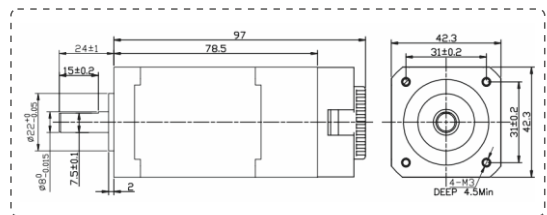
电机细分设置 Motor subdivision setting

Pulse/rew	SW1	SW2	SW3	SW4
Default	on	on	on	on
800	off	on	on	on
1600	on	off	on	on
3200	off	off	on	on
6400	on	on	off	on
12800	off	on	off	on
25600	on	off	off	on
51200	off	off	off	on
1000	on	on	on	off
2000	off	on	on	off
4000	on	off	on	off
5000	off	off	on	off
8000	on	on	off	off
10000	off	on	off	off
20000	on	off	off	off
40000	off	off	off	off

功能设置 Function setting

电机初始方向设置 Initial orientation of motor	
Direction	SW5 Remark
CCW	on 逆时针 Counterclockwise
CW	off 顺时针 Clockwise

驱动控制模式设定 Drive control mode setting	
Drivecontrolmode	SW6 Remark
FOC	off 矢量闭环控制（丝杆转动） Vector closed-loop control (screw rotation)
PM	on 功率角闭环控制（皮带传动） Power Angle closed loop control (belt rotation)



※ 根据要求，该款电机可以设计和制造成定制的类型。
※ The motor can be designed & manufactured with customized request.