

开环步进电机驱动器

Open loop stepper motor driver

Hc60

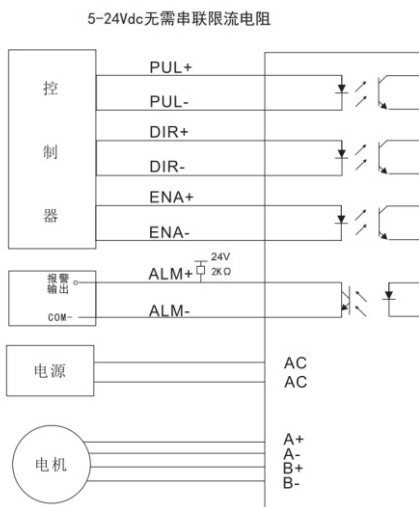
两相开环步进电机驱动器
Two-phase open-loop stepper motor driver



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	1.0	-	6.0	A
电源电压 (直流/交流) Power Supply Voltage (DC/AC)	24/20	24/36/48	80/60	Vdc/Vac
逻辑输入电流 Logic input current	6	10	16	mA
逻辑输入电压 Logic input voltage	5	5	24	Vdc
脉冲频率 Pulse frequency	0	-	200	KHz
脉冲高电平宽度 High level pulse width	1.5	-	-	US
绝缘电阻 Insulation resistance	100	-	-	MΩ

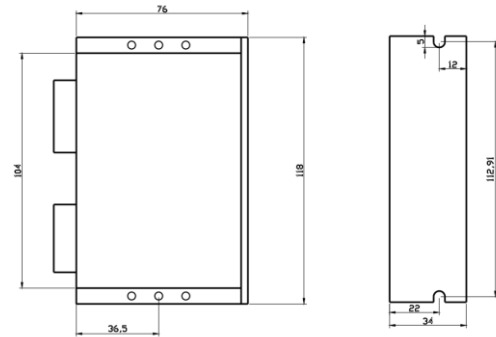
产品接线图 Product wiring diagram



产品特点 Product characteristics

- 全新32位DSP技术
- 超低振动噪声
- 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
- 光电隔离差分信号输入
- 光电隔离，报警输出
- 脉冲响应频率最高可达500KHz (出厂默认200KHz)
- 电压范围直流24-80Vdc/交流20-60Vac 交流直流通用
- 电流设定方便，可在1.0-6.0A之间任意选择
- 细分设定范围为200-51200，更高分可定制
- 具有过压、欠压、过流等保护功能
- 具有上升沿/下降沿，IO控制自发脉冲，单/双脉冲，高响应/高速低振动，自测功能

机械安装图 Mechanical drawing



※设计安装尺寸时，注意考虑端子大小及布线
※Pay attention to considering and wiring terminal size

工作电流设定 Working current setting

Peak	RMS	SW1	SW2	SW3
Default[RMS=1.0A]		off	off	off
2.1A	1.5A	on	off	off
2.7A	1.9A	off	on	off
3.2A	2.3A	on	on	off
3.8A	2.7A	off	off	on
4.3A	3.1A	on	off	on
4.9A	3.5A	off	on	on
6.0A	4.3A	on	on	on

※ SW4为半流功能，当SW4=off时，为半流设定，当SW4=on时，为全流锁轴。

※ SW4 for function, when SW4 = off, for Half Current, when SW4 = on, for Full Current .

电机细分设置 Motor subdivision setting

Pulse/rev	SW5	SW6	SW7	SW8	IO/RPM
Default [200]	on	on	on	on	10
400	off	on	on	on	20
800	on	off	on	on	30
1600	off	off	on	on	40
3200	on	on	off	on	50
6400	off	on	off	on	60
12800	on	off	off	on	80
25600	off	off	off	on	100
1000	on	on	on	off	120
2000	off	on	on	off	150
4000	on	off	on	off	200
5000	off	off	on	off	250
8000	on	on	off	off	300
10000	off	on	off	off	350
20000	on	off	off	off	450
25000	off	off	off	off	600

功能设置 Function setting

SW9:Edge sel, off=Fall (下降沿有效); on=Rise (上升沿)
SW10:S-Filter, off=4ms(高响应); on=10ms(低振动)

Mode sel	SW11	SW12
IO内部自发脉冲 IO internal spontaneous pulse	on	on
自测检查 Self-test check	on	off
双脉冲 CW/CCW	off	on
脉冲+方向 PLU+DIR	off	off