

OED5056S 2 相数字驱动器

OED5056S 2 Phase Digital Stepper Motor Driver

概述 Descriptions

OED5056S 是精控电机新推出的数字式步进电机驱动器，采用最新 32 位 DSP 数字处理技术，驱动器控制算法采用先进的变电流技术和先进的变频技术，驱动器发热小，电机振动小，运行平稳。用户可以设置 200~51200 内的任意细分以及额定电流内的任意电流值，能够满足大多数场合的应用需要。由于采用内置微细分技术，即使在低细分的条件下，也能够达到高细分的效果，低中高速运行都很平稳，噪音超小。驱动器内部集成了参数上电自动整定功能，能够针对不同电机自动生成最优运行参数，最大限度发挥电机的性能。主要应用于 57mm 以及 86mm 短机身电机。

OED5056S is a new digital stepper motor driver by OEONGMOTOR. It adopts the latest 32-bit DSP digital processing technology. The drive control algorithm adopts advanced variable current technology and advanced frequency conversion technology. The driver has small heating, small motor vibration and stable operation. Users can set any subdivision within 200 ~ 51200 and any current value in the rated current to meet the application needs in most occasions. Thanks to the built-in micro-subdivision technology, the subdivision effect can be achieved even under the condition of low subdivision. The operation is smooth and the noise is ultra-small under low, medium and high speed. The driver integrates the parameter auto-adjust function, which can automatically generate optimal operating parameters for different motors to maximize the performance of the motor. Suit for NEMA23 AND NEMA34 stepper motor.

特点 Features

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|--|---|
| ●全新 32 位 DSP 技术 | ●可驱动 4，6，8 线两相步进电机 |
| ●超低振动噪声 | ●光隔离差分信号输入 |
| ●内置高细分 | ●脉冲响应频率最高可达 500KHz（出厂默认 200KHz） |
| ●参数上电自动整定功能 | ●电流设定方便，可在 0.1-5.0A 之间任意选择 |
| ●变电流控制使电机发热大为降低 | ●细分设定范围为 200-51200 |
| ●静止时电流自动减半 | ●具有过压、欠压、过流等保护功能 |
| ●New 32-bit DSP technology | ●Can drive two phase stepping motors of 4, 6, 8 lines |
| ●Ultra-low vibration noise | ●Optical isolation differential signal input |
| ●Built-in high subdivision | ●The pulse response frequency can reach to 500KHz（Factory default 200KHz） |
| ●Automatic parameter adjustment function when power on | ●The current setting is convenient and can choose between 0.1 to 5.0A |
| ●Variable current control reduces the heating of the motor | ●Subdivision setting range is between 200 to 51200 |
| ●The current automatically halve at rest | ●Has the protection function of overpressure, underpressure and overcurrent |

应用 Application

适合各种中小型自动化设备和仪器，例如：雕刻机、打标机、切割机、激光照排、绘图仪、数控机床、自动装配设备等。在用户期望小噪声、高速度的设备中应用效果特佳。

Suitable for all kinds of small and medium sized automation equipment and instruments, such as: engraving machine, marking machine, cutting machine, laser lighting, plotter, cnc machine, automatic assembly equipment, etc. It use very well in the equipment that user expects small noise, and high peed

电气指标和工作环境 Electrical, mechanical and environmental indicators

说明	OED5056S			
	最小值	典型值	最大值	单位
输出电流	0.1	-	5.6	A
输入电源电压	24	36	60	VDC
控制信号输入电流	6	10	16	mA
控制信号接口电平	4.5	5	28	Vdc
输入信号最小脉冲宽度	1.5	-	-	us
步进脉冲频率	0	-	200	KHz
绝缘电阻	100			MΩ

使用环境及参数

冷却方式		自然冷却或强制风冷
使用环境	场合	不能放在其它发热的设备旁，要避免粉尘、油雾、腐蚀性气体，湿度太大及强振动场所，禁止有可燃气体和导电灰尘；
	温度	-5℃ ~ +50℃
	湿度	40 ~ 90%RH
	振动	5.9m/s2MAX
保存温度		-20℃~80℃
使用海拔		1000 米以下
重量		约 280 克

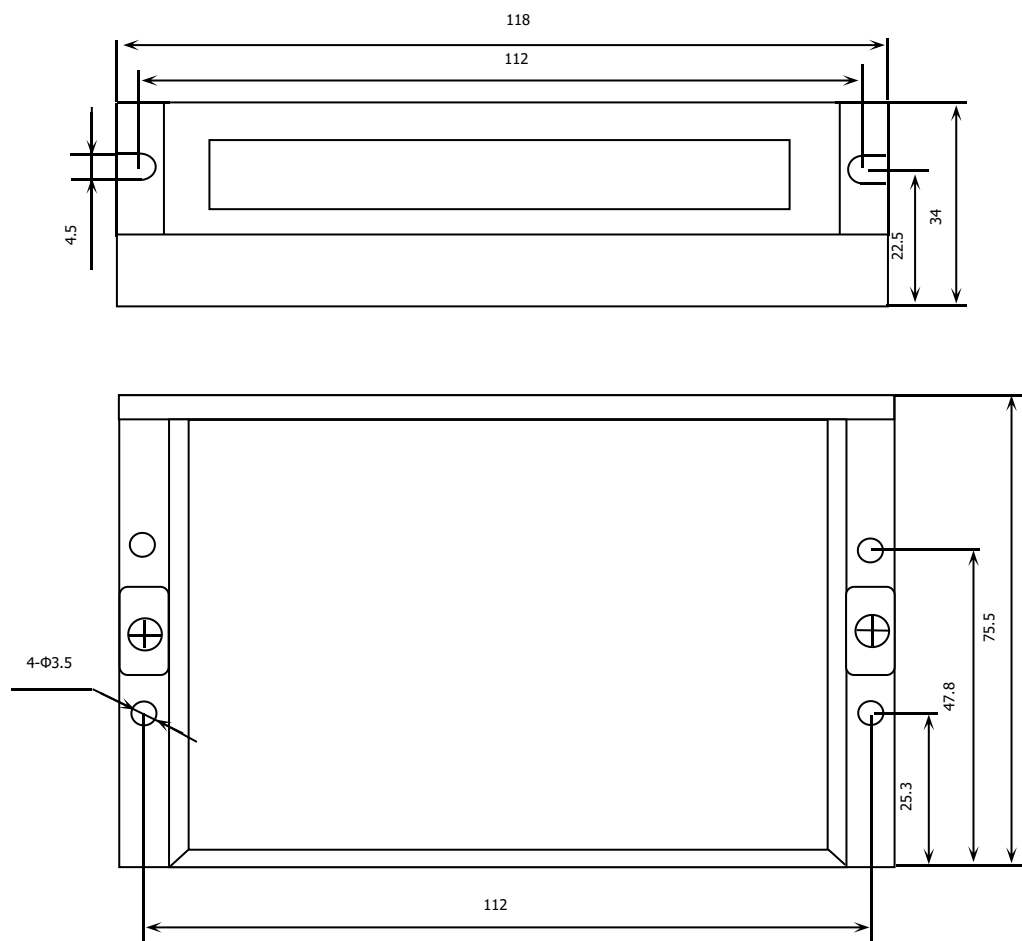
Electrical indicators

Instruction	OED5056S			
	Minimu	Typical	Maximum	Unit
The output current	0.1	-	5.0	A
Input voltage	24	36	50	VDC
Control signal input current	6	10	16	mA
Control signal interface level	4.5	5	28	Vdc
Input signal minimum pulse width	1.5	-	-	us
Stepper pulse frequency	0	-	200	KHz
Insulation resistance	100			MΩ

Using environment and parameters

Cooling method		Natural cooling or forced air cooling
Using environment	occasion	Can not be placed next to other heating equipment, should avoid dust, oil mist, corrosive gas, too big humidity and strong vibration place, prohibit to have combustibile gas and conductive dust
	temperature	-5℃ ~ +50℃
	humidity	40 ~ 90%RH
	vibration	5.9m/s2MAX
Storage temperature		-20℃ ~ 80℃
Using altitude		Below 1000 metres
Weight		About 280 g

3、安装尺寸 installation dimension



Drawing 1 Installation dimension diagram (Unit:mm)