

NINGBO LEISON MOTOR CO.,LTD

驱动器规格书

The specification of the CONTROLLER

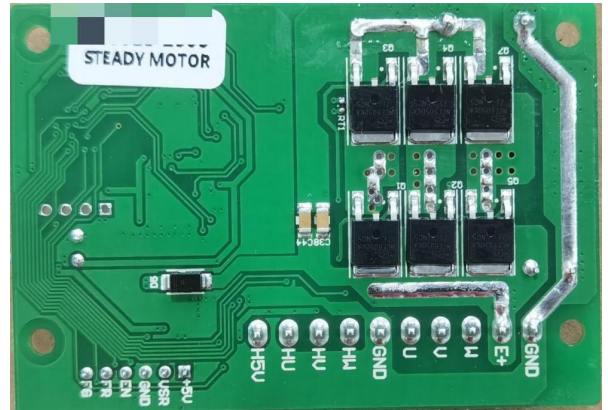
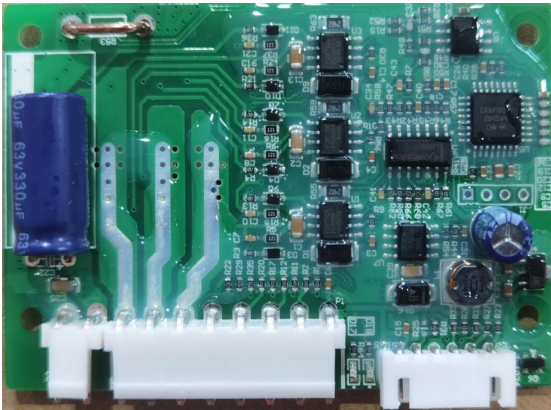
规格书编号:

Specification

LS-C-76-52-48V-250W

发布日期:

Date Issued



产品主型号Main model name:

LS-C-76-52-48V-250W

细分驱动器型号Subdivision of Drive Models:

LS7652-48V-250W

说明书组成内容/Composition of the instruction manual

要求和变更/REQUESTS & REVISION RECORDS

√

电气规格/TECH SPECIFICATIONS

√

PCB安装尺寸/PCB DRAWING

√

散热片尺寸/HEAT SINK SIZE

√

端子说明/PIN INSTRUCTION

√

控制方法/CONTROL INSTRUCTION

√

故障表达和定义/FAULT EXPRESSION AND DEFINITION

√

共计 (TOTAL without Cover) _____ 页

生产商/Manufacture: 宁波力圣电机有限公司 NINGBO LEISON MOTOR CO.,LTD

认证证书Certificates: CE, ROHS, ISO10993, ISO9001:2015

文档内所有数据均在额定电压下测量，在25°C环境温度和1.2 kg/m3标准空气密度下有效。列出的值是标称值，可能会根据安装条件和部件公差而变化。参阅规定的最大额定值。超出正常工作范围的性能数据仅供参考。

Stated all data are measured at nominal voltage and are valid at 25 °C ambient temperature and 1.2 kg/m3 standard air density. Values listed are nominal and can vary depending on the installation conditions and due to component tolerances. Performance data outside normal operating range plotted for information only.

基础电气规格	Basic Tech specification	LS7652-48V-250W	
		单位 (Unit)	数据 (Data)
额定电压	Rate voltage	V	48
额定电流	Rate current	A	5
额定功率	Power consumption	W	250
转速范围	Speed range	rpm	1000-60000
建议电压范围	Operate voltage range	V	36-58
极限电压	Limited voltage	V	58
最大可持续电流	Max current	A	5.5
响应时间 (0-全速)	Response time (0-Max speed)	ms	2000
霍尔信息	Hall information		120°
适配磁铁极数	Adaptive magnet poles		4
冷却方式	Cooling method		Nature
绝缘等级	Insulation level		/
PCB重量	PCB Weight	g	40
使用环境温度范围	Operating ambient temperature range	°C	{-20, 55}
使用环境湿度范围	Operating environment humidity range	°C	{30, 90}
建议储存温度范围	Recommended storage temperature range	°C	{-10, 40}
驱动方式	Driving method		方波 Square
调速方式	Speed control mode		0-5V PWM

注意事项 Notice

*接入电线前请仔细阅读规格书，查看端子说明，不能接错线。

*Before connecting the wires, please carefully read the specifications and check the terminal instructions, and do not connect the wrong wires.

* 运行期间严禁打开外壳测量或触摸底板上任何器件和接插件。

*During operation, it is strictly prohibited to open the casing for measurement or touching any electronic elements on the bottom PCB

* 断电后1分钟后才能进行底板检查或更换保险管。

*Pls 1 minute after the power outage can the bottom plate be inspected or the safety tube be replaced.

* 运行期间尽量使用驱动器金属外壳帮助驱动器散热。

*During operation, try to use the metal casing of the drive to help dissipate heat.

* 110V-220V 刷电机驱动器和310V无刷电机需良好可靠接地,否则有可能无刷电机转速不平稳。

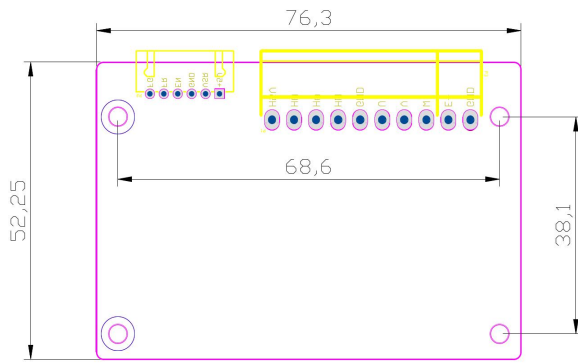
*The 110V-220V brush motor driver and the 310V brushless motor need to be well and reliably grounded, otherwise there is a possibility of unstable speed of the BLDC MOTOR

* 如果驱动器在运行期间意外损坏，本公司只负责承担驱动器在保修范围内的维修和更换。
本公司不承担由于驱动器意外损坏导致的电机失控或人员伤亡以及财产损失等的赔偿。

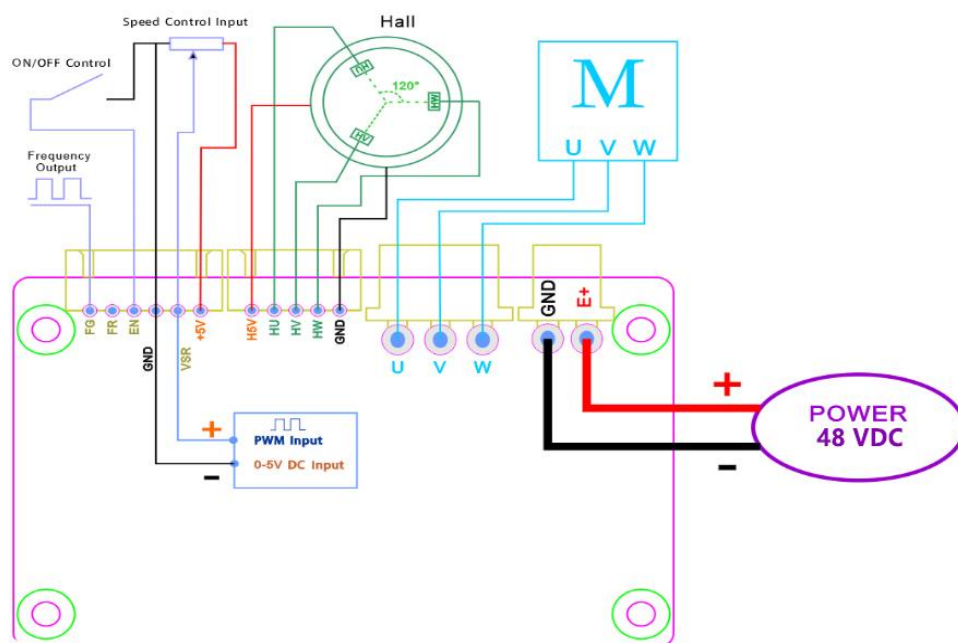
*If the drive is accidentally damaged during operation, our company is only responsible for repairing and replacing the drive within the warranty scope.

Our company shall not be liable for compensation for motor loss of control, personal injury, or property damage caused by accidental damage to the drive.

PCB尺寸图 (PCB DRAWING)



控制接线图示 (CONTROL DRAWING)



故障定义 (FAULT DEFINITION)

闪灯次数 Number of flashes	闪灯意义	Meaning of flashing lights
2	堵转保护 (转速低于400rpm 持续1s以上)	Locked rotor protection (Speed below 400rpm ----> 1 s)
3	过压保护 (输入电压大于 $58 \pm 0.5V$ 持续1s以上)	Overvoltage protection (Input voltage greater than $58 \pm 0.5V$ ----> 1 s)
4	软件过流保护 (软件电流检测高于 $6.5 \pm 0.5A$ 持续1s以上)	Software overcurrent protection (Software current detection above $6.5 \pm 0.5A$ ----> 1 s)
5	输出短路保护 (输出短路)	Output short circuit protection (Output short circuit)
6	过温保护 (温度高于 $85^{\circ}C$ 持续1s以上)	Over temperature protection (Temperature above $85^{\circ}C$ for more than 1 second)

注：驱动器检测到异常状态触发保护时，需断电重启。（以上程序可更改细节）

Note: When the driver detects an abnormal state and triggers the protection, it needs to be powered off and restarted.