LCDA357H Closed Loop Stepper Driver User Manual
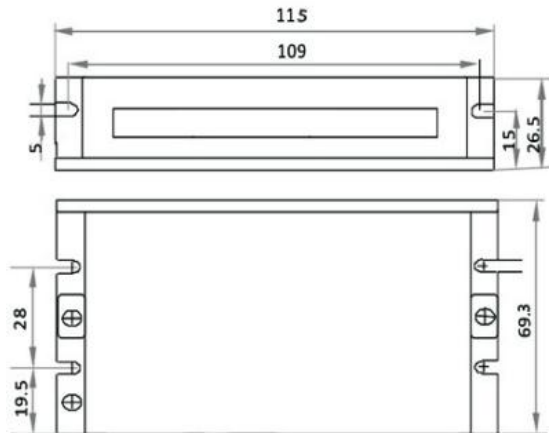
1.Functional Characteristics：

·voltage input range：18~50 VDC

·max peak current：7A

·subdivision range：200~51200ppr

·pulse：pulse+direction、CW/CCW

·pulse response frequency：0～200KHz

·motor parameter automatic turning performance
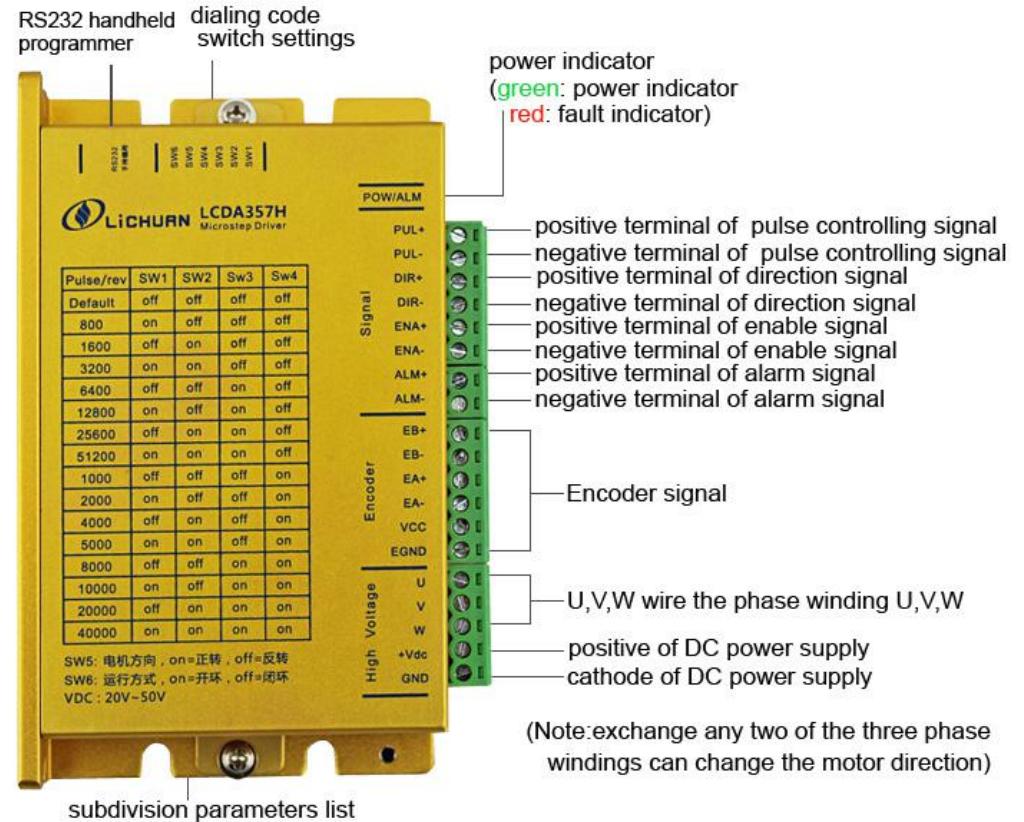
·overvoltage,overcurrent,tracking error performance

2.Using Environment and Parameters

· store environment：-20℃～80℃

· using environment： 0℃～55℃

· using humidity：90%RH（not condensation）

· vibration frequency：less than 0.5G（4.9m/s2）

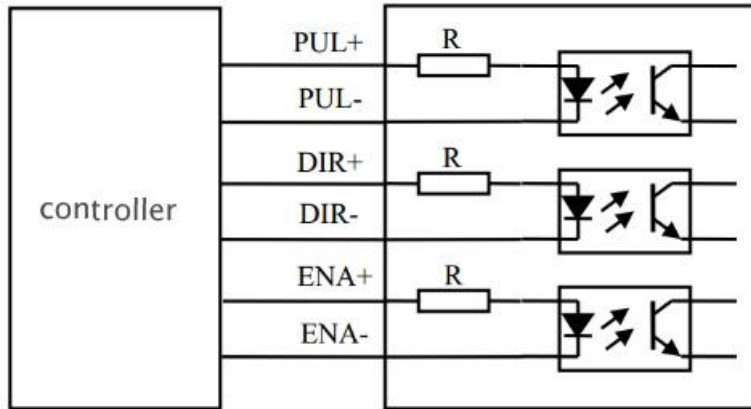   10Hz～60Hz(not continuous operation)

3.Install Size （mm）
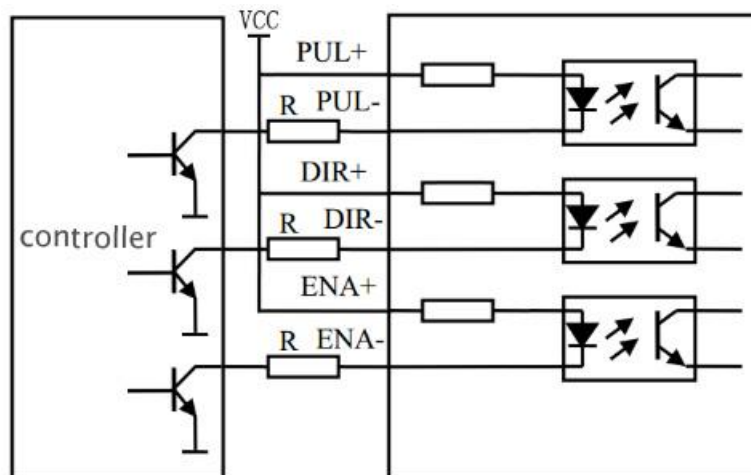

4.Driver Port Pin Instruction

Pulse/rev	SW1	SW2	Sw3	Sw4
Default	off	off	off	off
800	on	off	off	off
1600	off	on	off	off
3200	on	on	off	off
6400	off	off	on	off
12800	on	off	on	off
25600	off	on	on	off
51200	on	on	on	off
1000	off	off	off	on
2000	on	off	off	on
4000	off	on	off	on
5000	on	on	off	on
8000	off	off	on	on
10000	on	off	on	on
20000	off	on	on	on
40000	on	on	on	on

SW5: 电机方向，on=正转，off=反转
SW6: 运行方式，on=开环，off=闭环
VDC：20V~50V

RS232 handheld programmer
dialing code switch settings
power indicator
(green: power indicator
red: fault indicator)

positive terminal of pulse controlling signal
negative terminal of pulse controlling signal
positive terminal of direction signal
negative terminal of direction signal
positive terminal of enable signal
negative terminal of enable signal
positive terminal of alarm signal
negative terminal of alarm signal
Encoder signal
U,V,W wire the phase winding U,V,W
positive of DC power supply
cathode of DC power supply

(Note:exchange any two of the three phase
windings can change the motor direction)

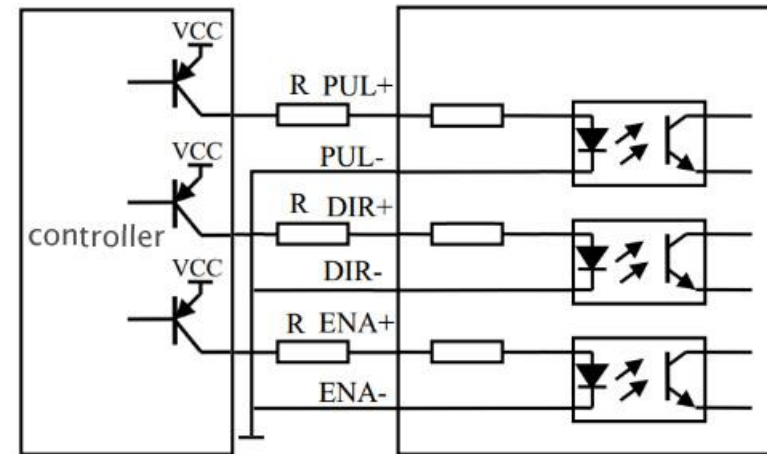subdivision parameters list

5. Control Port Wiring Method

• differential signal input wiring

• common anode wiring

• common cathode wiring

Notice：when control signal voltage VCC = 24V，

The current-limiting resistance R = 3K ；

when control signal voltage VCC = 5V，

The current-limiting resistance R = 0K .

6.Dial Switch Setting

The current can be setting automatically of this series of drivers , so don't need to manually set current, don't need to set by hand . The corresponding functions of dial switches are as follows:

• SW1〜SW4 ： Driver subdivision setting (See the drive shell segment table)

• SW5 ： motor direction setting

• SW6 ： switch open loop to closed loop operating mode