

Stepper motor driver series SH-750

Voltage input range: 18~70 VDC

Current maximum: 5.0A

Subdivision range: 400~25600ppr

**Signal input: differential/single end, pulse/direction
or double pulse,**

Pulse response frequency: 200KHz

**Optical isolation signal input, strong anti-interference
ability**

**It has overvoltage and overcurrent protection
functions**

1. Electrical definition:

Description	Min. Value	Typical Value	Max.Value	Unit
Output Current(Peak)	1.0	-	5.0	A
Input power supply voltage	18	36-48	70	VDC
Control signal input current	7	10	16	mA
Step pulse frequency	0	-	200	KHz
insulation resistance	500			MΩ

2. Dial code setting

SH-750 driver adopts 8-bit dial code switch to set subdivision, running current and static half current.

Detailed description is as follows:

SW1	SW2	SW3	SW4	SW5	SW6	SW7	SW8
Current control			Idle Current	Pulse/rev control			

Operating current settings

Output peak current	Output mean current	SW1	SW2	SW3
1.11A	0.93A	on	on	on
1.67A	1.39A	off	on	on
2.22A	1.85A	on	off	on
2.78A	2.31A	off	off	on
3.33A	2.78A	on	on	off
3.89A	3.24A	off	on	off
4.44A	3.70A	on	off	off
5.00A	4.20A	off	off	off

SW4: ON – Full current on idle state.

SW4: OFF – Half current on idle state.

Pulse per revolution settings

Steps/roll	SW5	SW6	SW7	SW8
400	off	on	on	on
800	on	off	on	on
1600	off	off	on	on
3200	on	on	off	on
6400	off	on	off	on
12800	on	off	off	on
25600	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
25000	off	off	off	off

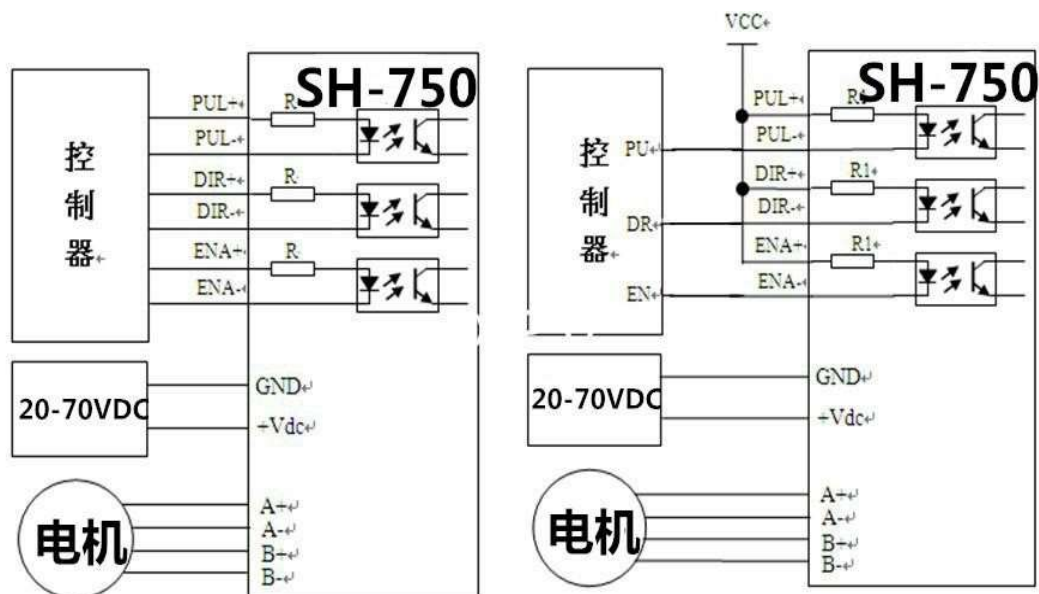
3. Interface definition

PUL+	Positive pulse signal
PUL-	Negative pulse signal
DIR+	Positive direction signal
DIR-	Negative direction signal
ENA+	Positive enable signal. Driver will work if not connected.
ENA-	Negative enable signal. Driver will work if not connected.

4. Power interface

Name	Function
GND	DC power supply. Negative terminal.
+V	DC power supply. Positive terminal. Range +18V - +70V, 36-48vdc is recommended
A+, A-	Motor A-phase coil.
B+, B-	Motor B-phase coil.

5. Wiring diagram



6. Mounting dimensions

