2-Phase stepper Motor Driver ST-M5045

Characteristics:

1.DC power input type:24V~50V

2.Output current:1~4.5A

3. Mircostep: 2, 4, 8, 16, 32, 64, 128, 256, 5, 10, 25, 50, 125, 250

4. Protect form: Overheated protect, Short-voltage, over-voltage, over-current protection

5. The maximum pulse rate is 300KHZ.

6.Dimensions: 120mm*92mm*33mm

7. Weight: <280g.

8. Working environment: Temperature-15~50°C Humidity<90%.

I/O Ports:

1. DC+: DC power positive pole

Note: Must guard against exceeding 50V, so as not to damage the module.

2. DC-: DC power cathode

3, A+, A-: Stepping motor one winding

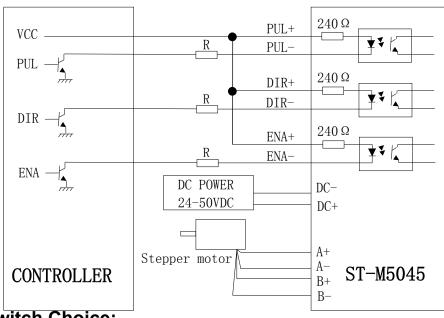
4、B+、B-: Stepping motor other winding

5、PUL+、PUL -: Stepping pulse input+5V (Rising edge effective, rising edge duration >10μS)

6. DIR +, DIR-: Stepping motor direction input, voltage level touched off, high level foreward, low level reverse

7、ENA+、ENA-: motor free

Typical Connection



VCC=5V,R= 0Ω ; VCC=12V;R=1K Ω (1/8w) VCC=24V;R=2K Ω (1/8w) Resistor must be connected to control singnal terminal

Switch Choice:

1. Microstep choice:

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Microstep	Pluse/rev. (for 1.8° motor)	SW5	SW6	SW7	SW8
2	400	ON	ON	ON	ON
4	800	ON	0FF	ON	ON
8	1600	ON	ON	0FF	ON
16	3200	ON	0FF	0FF	ON
32	6400	ON	ON	ON	0FF
64	12800	ON	0FF	ON	0FF

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128	25600	ON	ON	0FF	0FF
256	51200	ON	0FF	0FF	0FF
5	1000	0FF	ON	ON	ON
10	2000	0FF	0FF	ON	ON
25	5000	0FF	ON	0FF	ON
50	10000	0FF	0FF	0FF	ON
125	25000	0FF	ON	ON	0FF
250	50000	0FF	0FF	ON	0FF

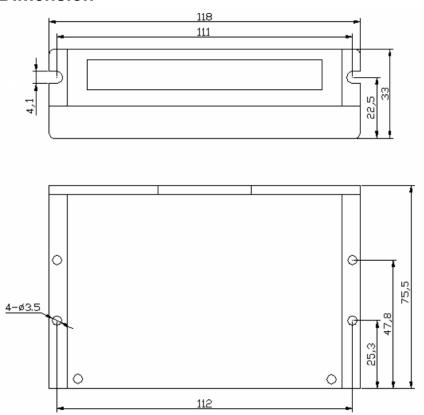
2. Current choice:

Peak current	Reference current	SW1	SW2	SW3
1. 0A	0. 71A	ON	ON	ON
1.5A	1. 07A	0FF	ON	ON
2. 0A	1. 43A	ON	0FF	ON
2. 5A	1. 79A	OFF	0FF	ON
3. 0A	2. 14A	ON	ON	0FF
3. 5A	2. 50A	OFF	ON	0FF
4. 0A	2. 86A	ON	OFF	0FF
4. 5A	3. 21A	OFF	OFF	OFF

3. Full current or half current choice:

SW4:OFF=Half current; ON=Full current;

Dimension



Note:

- 1. When the drive is powered, do not plug terminals and operating switch;
- 2. Ensure that the driver has good cooling conditions and prevent dust entering the electronic control box;