

2-Phase stepper Motor Driver ST- 4045-A1

Characteristics:

- 1.DC power input type:12V~40V
- 2.Output current:0.6~4. 5A
- 3.Mircostep: 1、2、4、8、16
- 4.Protect form : Overheated protection、over-current protection、 under voltage protection、 Preventing reverse connection of power supply
- 5.The maximum pulse rate is 200KHZ
- 6.Dimensions: 118mm*87mm*35mm
- 7.Weight: 253g
- 8.Working environment: Temperature-15~50℃ Humidity<90%

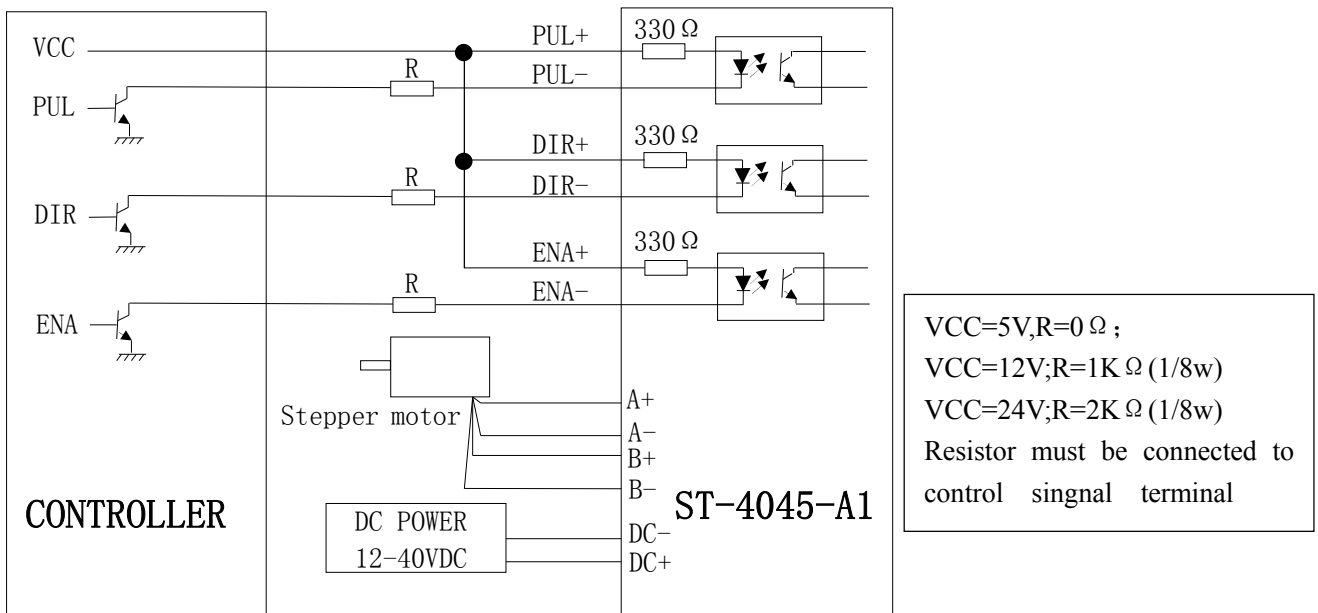
I/O Ports:

- 1、DC+: DC power positive pole

Note: Must guard against exceeding 45V, 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 forward , low level reverse
- 7、ENA+、ENA-: motor free

Typical Connection:



Switch Choice:

1、Microstep choice:

Microstep	Pluse/rev. (for 1.8° motor)	SW4	SW5	SW6
Standby	-----	OFF	OFF	OFF
1	200	OFF	OFF	ON
1/2 (A)	400	OFF	ON	OFF
1/2 (B)	400	OFF	ON	ON
1/4	800	ON	OFF	OFF
1/8	1600	ON	OFF	ON
1/16	3200	ON	ON	OFF
Standby	-----	ON	ON	ON

2、Current choice:

Peak current	SW1	SW2	SW3
0.6A	OFF	OFF	OFF
1.2A	ON	OFF	OFF
1.8A	OFF	ON	OFF
2.3A	ON	ON	OFF
2.8A	OFF	OFF	ON
3.3A	ON	OFF	ON
3.8A	OFF	ON	ON
4.5A	ON	ON	ON

Shell Dimension:

