



1、 Introduction

TB6600 (5A) step motor driver is a professional two phase stepping motor driver, which can realize the motor positive or inversion control. S4, S5, S6bit dial switches' function is corresponding to 6 subdivision control (1, 2/A, 2/B, 4, 8, 16), and S2,S3,S1 dial switches' function is corresponding to 6 current control (0.2A, 0.6A, 1.2A, 1.8A, 2.5A, 3.3A, 4.2A, 5A). It's suitable for driving 60,57, 42, 39 (two phase or four phase hybrid) stepping motor. The driver has the characteristics of low noise, small vibration and stable operation.

Features:

- * The original new Japanese Toshiba TB6600 driver chip;
- * The current by 3 dial switch selection;
- * The interface adopts high-speed Optocoupler;
- * The six segment is adjustable;
- * The automatic flow reduce heat;
- * The large use of fins to low temperature;
- * The input voltage connection reverse protection;
- * The overheat, overcurrent short-circuit protection.

Electrical parameters:

Input voltage	12~48VDC
Input current	0.2~5.0A
Output current	0.2~5.0A
Maximum power	250W
Subdivision	1、 2/A、 2/B、 4、 8、 16

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Temperature	-10~45°C; storage temperature,-40°C~70°C
Humidity	not dew, not water
Gas	combustible gas and electricity are forbidden
Weight	0.2kg

2、 Input and output instructions

The signal input terminal

- (1) PUL+: pulse signal input positive
- (2) PUL-: pulse signal input negative
- (3) DIR+: direction control input positive
- (4) DIR-: direction control input negative
- (5) EN+: Motor free control positive
- (6) EN-: Motor free control negative

The motor winding connection

- (1) A+: connecting the motor winding A+ phase
- (2) A-: connecting the motor winding A- phase
- (3) B+: connecting the motor winding B+ phase
- (4) B-: connecting the motor winding B- phase

The voltage of power supply connection(12 -48VDC)

- (1) DC-: power positive "+"
- (2) DC+: power negative "-".

3、 Subdivision and current setting by the code switches

Attention: the dial switch is pressed down: ON.



(1) Subdivision: setting by the S4,S5,S6.

SUB	S4	S5	S6
NC	ON	ON	ON
1	OFF	ON	ON
2	ON	OFF	ON
2	OFF	OFF	ON
4	ON	ON	OFF
8	OFF	ON	OFF
16	ON	OFF	OFF
NC	OFF	OFF	OFF

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(2) Current: setting by the S1,S2,S3.

CUR	S1	S2	S3
0.2A	ON	ON	ON
0.6A	OFF	ON	ON
1.2A	ON	OFF	ON
1.8A	OFF	OFF	ON
2.5A	ON	ON	OFF
3.3A	OFF	ON	OFF
4.2A	ON	OFF	OFF
5A	OFF	OFF	OFF

4、 Input terminal connection (control signal)

Three input signals, First: steps into the pulse signal PUL+, PUL-; Second: the direction Signal of the DIR+, DIR-; Third: the freedom input signal EN+, EN-. The input signal interface has two kinds of connection method, the user can use the common anode or the common cathode method.

(1) Common anode method

The PUL+, DIR+, EN+ are connected to the power supply to the control system, if the power voltage supply is 5V can directly access, if the power supply is greater than 5V must be external plus a current limiting resistor R, ensure provide 8 - 15mA driving current to drive the internal Optocoupler. If power voltage is 12V :1K ; If power voltage is 24V : string 2K resistor.

(2) Common cathode method

The PUL-, DIR-, EN- are connected to the ground terminal of the control system; the pulse input signal is connected with PUL+ , and the direction signal is connected with the DIR+, and the free signal is connected with EN+. If the signal's voltage is greater than 5V, the R of the limiting resistance is the same as that of the common anode.

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