

JYQD-V8.8 B AC input brushless motor driver board



(For Brushless Sensorless DC motor)

Model number	JYQD-V8.8 B
Operating temp.	-20—85°C
Operating voltage	80-220V AC
Max current	1A
Cont.working current	0.8A
PWM speed control	PWM frequency:1-20KHZ; Duty cycle 0-100%
Analog voltage speed regulation	0-5V
O.V / L.V protection	YES
Speed pulse signal output	YES

Application notes:

1. Confirm that the voltage and power parameters of the motor not exceed the range of the driver board as specified.
2. This driver board is used for 3-phase brushless sensorless motor, but not suit for all 3-phase brushless sensorless motors directly. If the driving effect is not good (such as starting jitter, reversing, the motor no-load working current is too large, the speed is not stable, the efficiency is low, and can't start-up

with load.) Customers can adjust the resistance and capacitance of the driver board according to the actual situation to achieve the best driving effect (see the attachment for how to do the adjustment)

3. JYQD-V8.8B driver board is bare board without housing and heatsink. If the power of the motor below 60W ,it does not need to add heatsink, It only needs to ensure normal ventilation and well insulation. If the power of the motor more than 60W, it must add heatsink like the diagram as below.

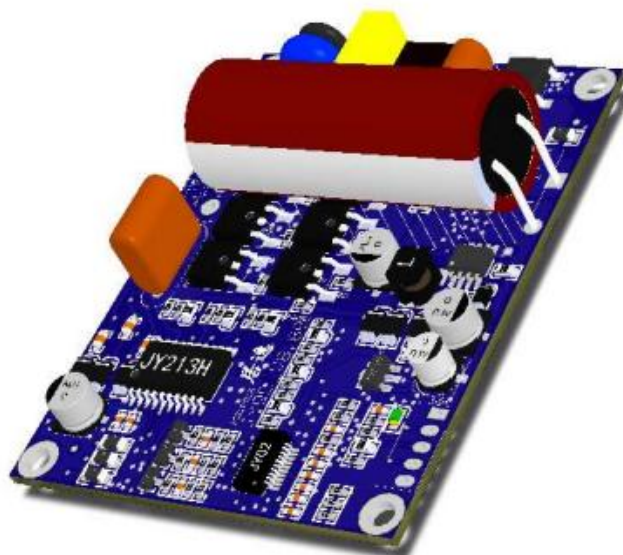
4. The 5V output port on the driver board prohibits connect external device. It is only applicable to the external potentiometer and switch of the board for speed regulation and reversal.

5. The “M” terminal on the JYQD-V8.8B driver board is the motor speed pulse output signal (push-pull output), and the maximum output current is less than 5mA.

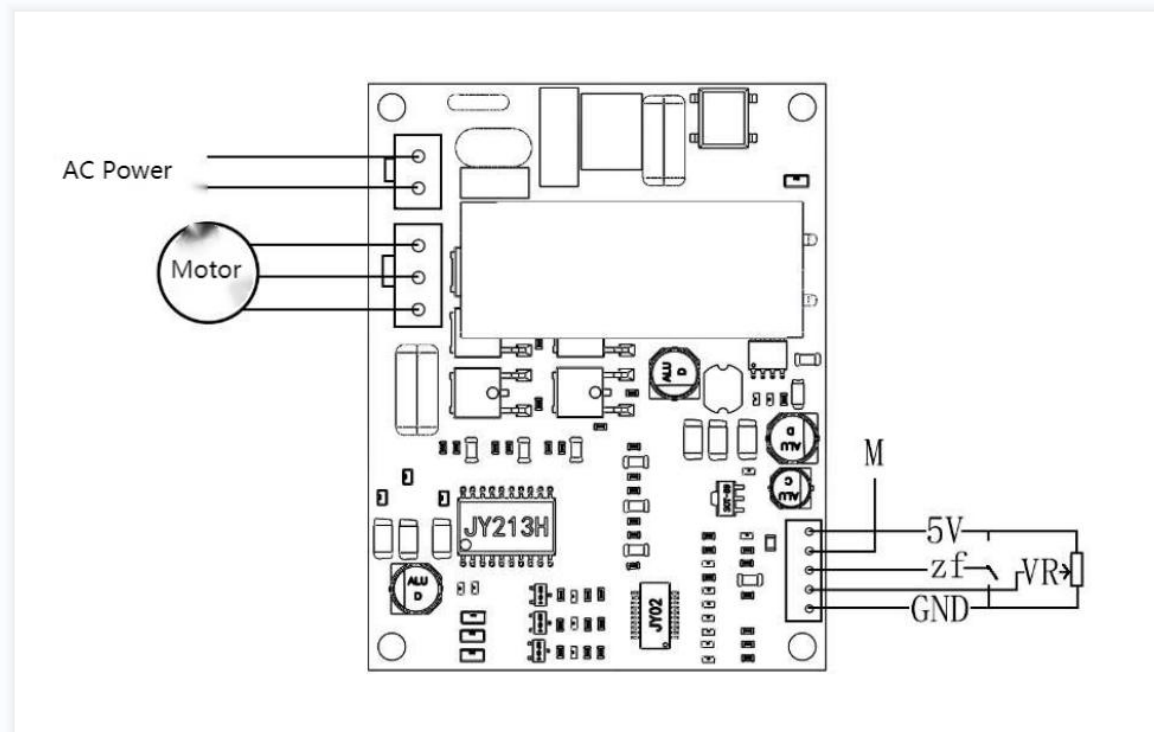
6. JYQD-V8.8B is a High Voltage driver, pls pay attention to protective when testing.

7. The power port is 4.2MM terminal,The control terminal is 2.54 pitch terminal.

Driver board diagram



Wiring diagram



5V ----Driver board internal output voltage

M ---- Motor speed pulse signal output port, 5V pulse signal.

1. Control port

Z/F---- Rotating direction control ports. Connect "5V" high level or no connect is Forward direction, connect 0 V low level or connect to GND is reverse direction.

VR ----Speed control port. Analog voltage linear speed regulation 0.1v -5V, The input resistance is 20K Ohm ,connect with GND when input PWM speed regulation, PWM frequency:1-20KHZ; Duty cycle 0-100%

GND—Used for Drive board internal control

2. Power port

U/MA ----motor phase A

V/MB ---- motor phase B

W/MC---- motor phase C

AC----L

AC----N

3. Use shielded wires if the drivers board has more than 50 cm distance from the motor, otherwise it may lead to abnormal driving, affecting the normal use.

4.This AC input driver board can be the built-in driver in application

5. Pay attention to the insulation between the driver MOSFET and the heatsink or the installation plate.

Dimensional drawing

Unit : mm

Length,width and height:77*60*22

(The height will be 29 with the insulator column)

