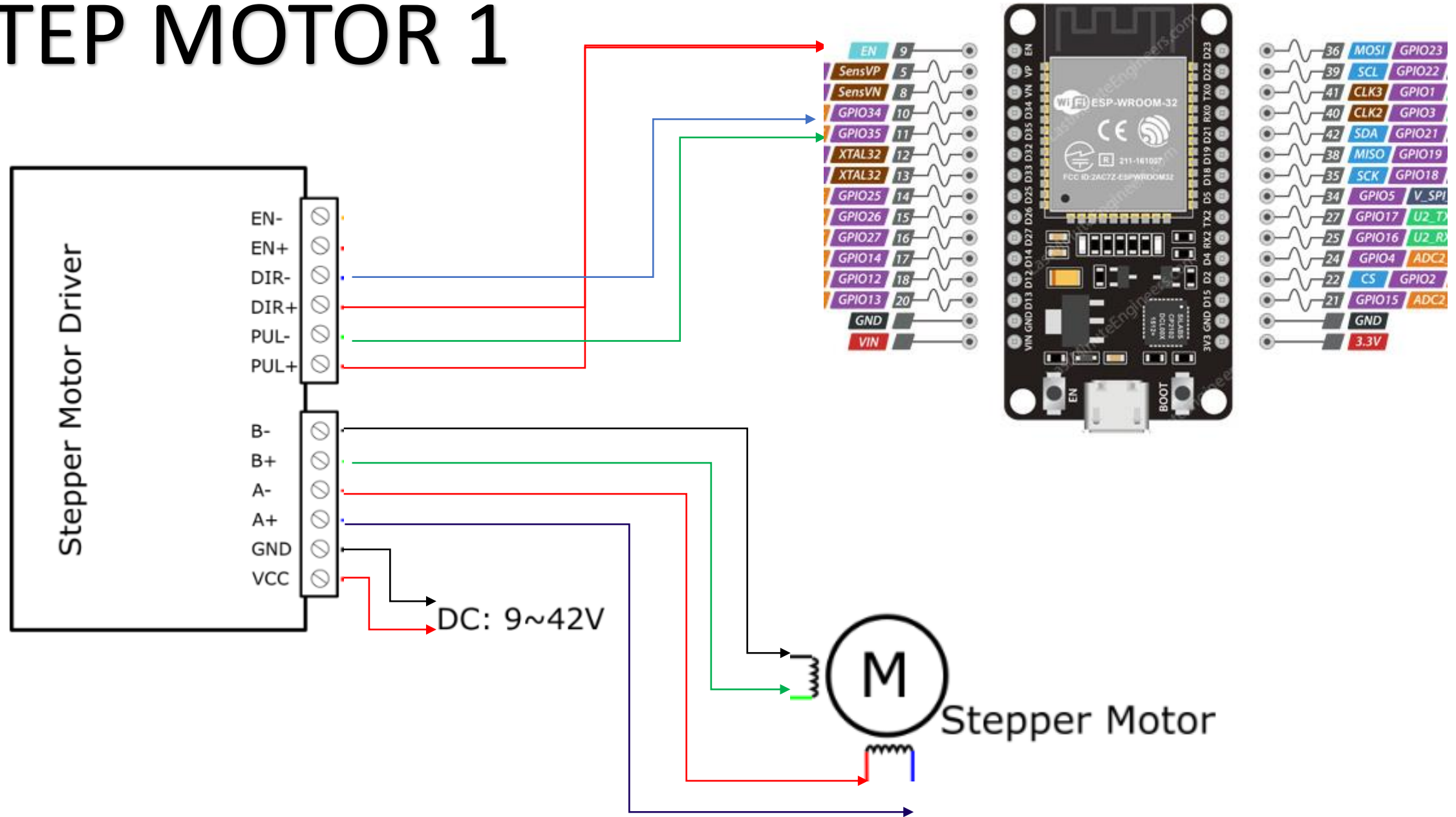
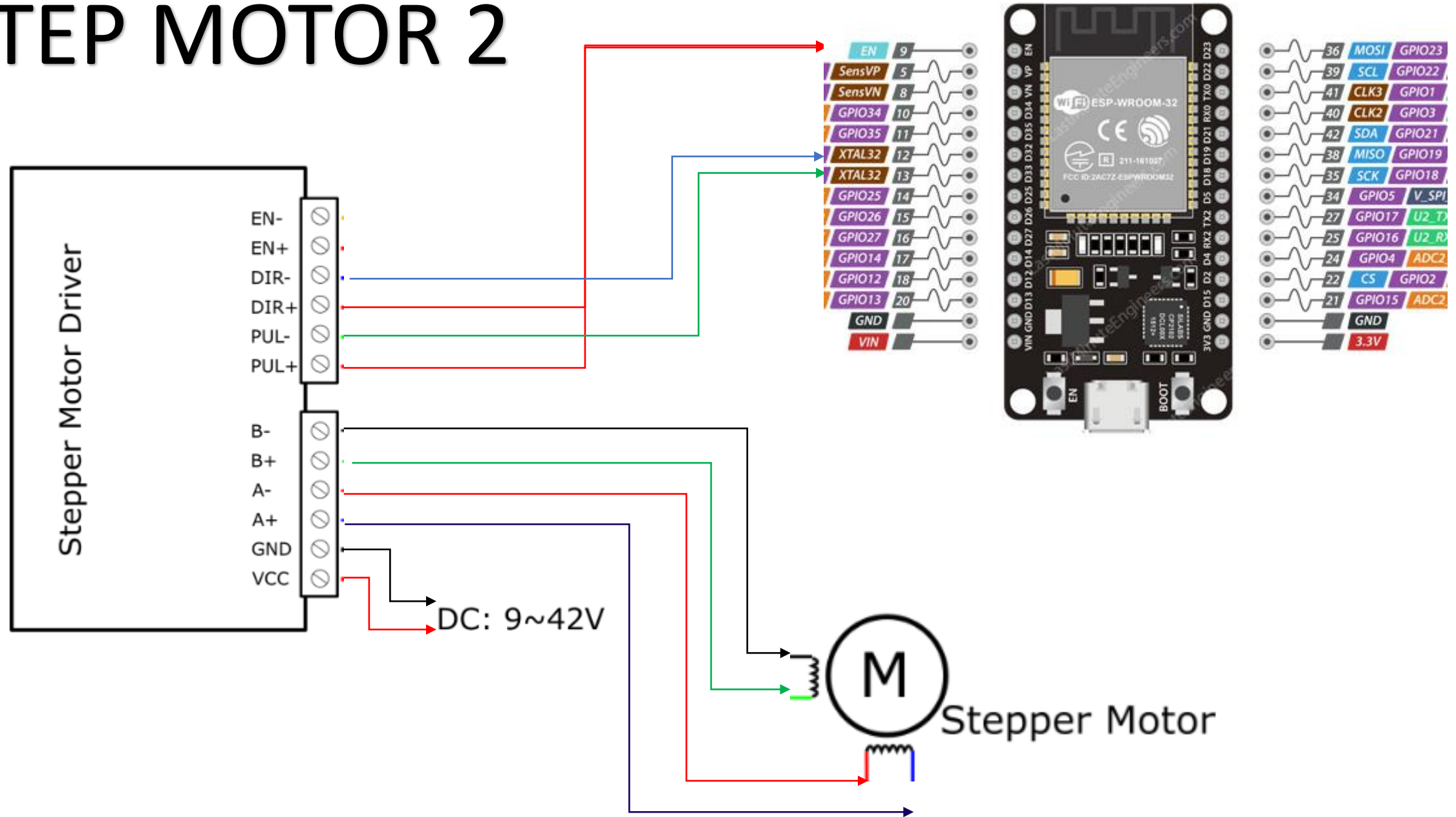


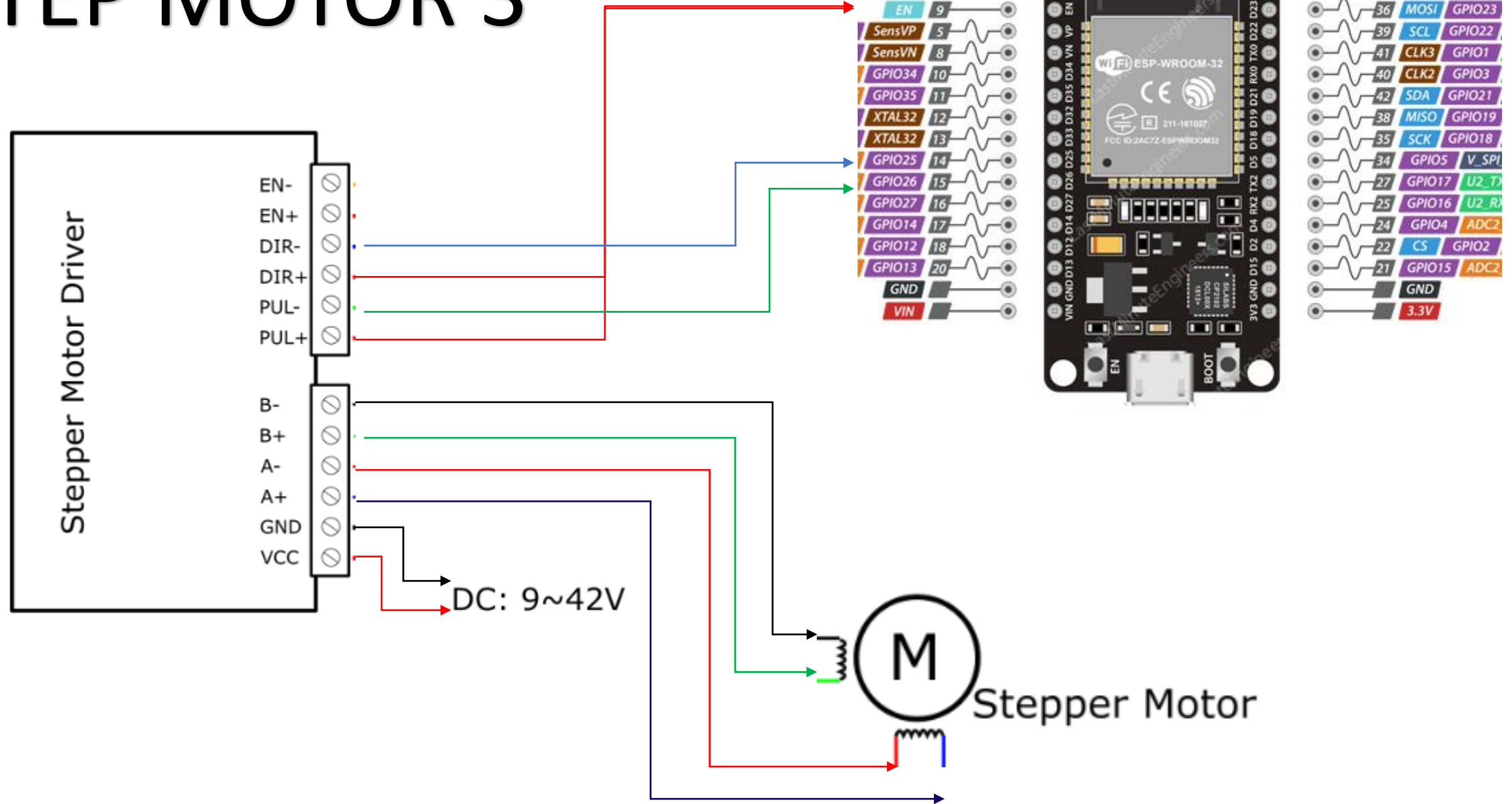
STEP MOTOR 1



STEP MOTOR 2



STEP MOTOR 3



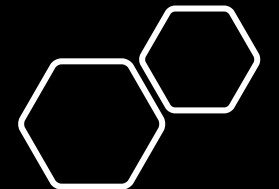
Current (A)	Peak current	S4	S5	S6
0.5	0.7	ON	ON	ON
1.0	1.2	ON	OFF	ON
1.5	1.7	ON	ON	OFF
2.0	2.2	ON	OFF	OFF
2.5	2.7	OFF	ON	ON
2.8	2.9	OFF	OFF	ON
3.0	3.2	OFF	ON	OFF
3.5	4.0	OFF	OFF	OFF

S1	S2	S3	Microstep resolution
ON	ON	ON	NC
ON	ON	OFF	Full step
ON	OFF	ON	1/2 step
OFF	ON	ON	1/2 step
ON	OFF	OFF	1/4 step
OFF	ON	OFF	1/8 step
OFF	OFF	ON	1/16 step
OFF	OFF	OFF	1/32 step



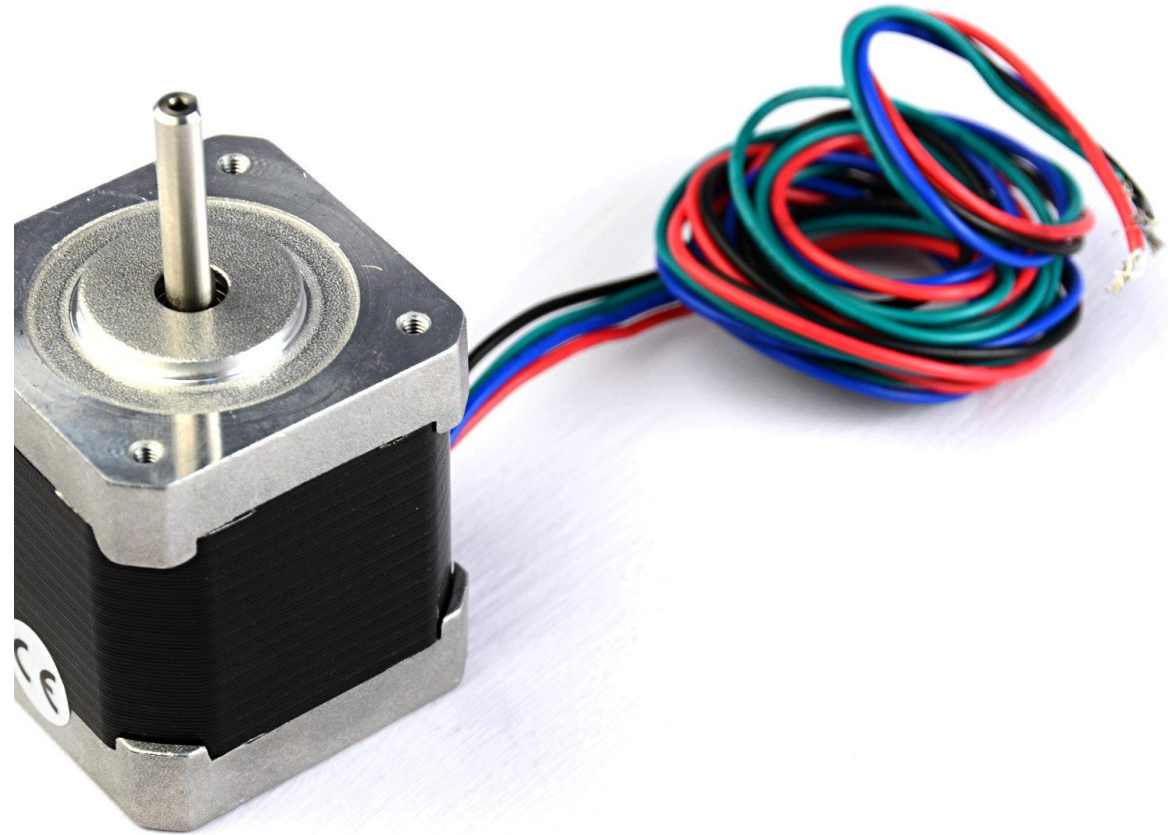
TB 6600 Driver

- The configuration of the switches so that the driver can command the NEMA 17 stepper motor is shown in the images shown

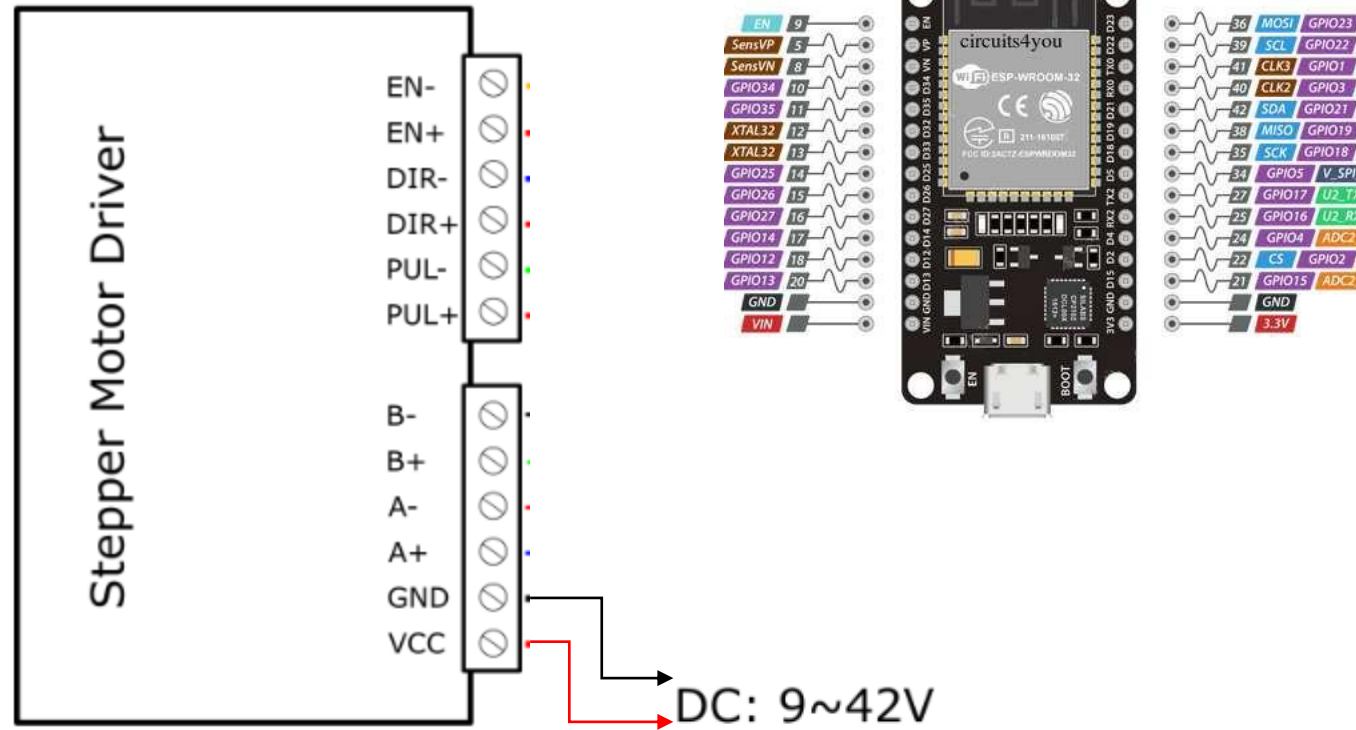


STEP MOTORS

- Each motor cable is connected according to the color in the connection diagram



POWER SOURCE



The driver must be connected from 9 to 42V and the ESP-32 Card must be connected with 3.3 V.



SPECIFICATION

- Input Current: 0~5A
- Output Current: 0.5-4.0A
- Control Signal: 3.3~24V
- Power (MAX): 160W
- Micro Step: 1, 2/A, 2/B, 4, 8, 16, 32
- Temperature: -10~45°C
- Humidity: No Condensation
- Dimension: 96*56*33 mm/ 3.78*2.2*1.3 inches
- Weight: 0.2 kg
- Drive IC: TB67S109AFTG

Program

The program is configured as indicated by the 30-pin ESP32.

If you already have a connection we only have to change the pins and at the time of adapting it, see that it is actually opening and closing the valve when the instruction is sent if the address must not be changed in the opening and closing functions.

The program is functional.

You must enter the valve to be operated with the angle separated by a comma, Example:

If I want to move valve 2 to the 75-degree position you should send: **2,75**.

I think you could increase a safety measure of the maximum degree of opening and closing by looking at the degrees of valve opening.

I can add that when observing the necessary changes once the system has been tested.

If you have the driver connections on other pins than suggested then we should only modify the program.