

MA806 Series

MA806 series can have Effectively eliminates current ripple and suppresses motor vibration, improves motor performance and extends service life. The drive voltage is AC80V. Can be matched a four-wire, six-wire, eight-wire two-phase hybrid stepping motor with various brand currents below 6.0A and an outer diameter of 57-110mm.

Can be widely used in engraving machines, marking machines, labeling machines, cutting machines, plotters, small and medium-sized CNC machine tools, precision equipment, etc.field. It is suitable for customers with low vibration and high speed requirements, and it is stable, reliable and low in price.

Feature:

- Wrong phase protection, over current protection
- Multiple subdivisions to choose from
- Low speed anti-shake, low noise; high speed and high torque
- Optically isolated signal input
- Single/double pulse setting
- Input pulse frequency 0~200KHZ
- Automatic low-power operation at rest
- 40V-80VAC Single power input ,voltage: : 40V-80VAC

Parameter setting:

The MA806 series driver uses eight-position dial switches to set subdivision accuracy, dynamic current and single/double pulse, details:

SW1 SW2 SW3	current choice
SW4	Semi/ full flow
SW5	single/double pulse setting
SW6 SW7 SW8	Subdivision choice

output current choice

The maximum output current of the MA806 series driver is 6A/phase (peak). A total of 8 current levels can be set with the three-digit dial switch, from 2.5A to 6A (see the current selection table for details) to match different motors.

Note: The white square on the silk screen corresponds to the actual position of the switch.

SW1	SW2	SW3	MA806
OFF	OFF	OFF	2.5A
ON	OFF	OFF	3.0A
OFF	ON	OFF	3.5A
ON	ON	OFF	4.0A
OFF	OFF	ON	4.5A

ON	OFF	ON	5.0A
OFF	ON	ON	5.5A
ON	ON	ON	6.0A

subdivision choice

The subdivision accuracy is set by the SW6, SW7, and SW8 three-position dial switches.

SW6	SW7	SW8	MA806A	MA806C	MA806D
ON	ON	ON	2	5	/
ON	ON	OFF	4	10	/
ON	OFF	ON	8	20	/
ON	OFF	OFF	16	25	/
OFF	ON	ON	32	40	/
OFF	ON	OFF	64	50	50
OFF	OFF	ON	/	/	100
OFF	OFF	OFF	/	/	/

3、Semi/full flow

SW4

ON semi flow

OFF full flow

4、single/double pulse setting

SW5

ON double pulse

OFF single pulse

Notice:

1) Use an input signal voltage of DC5V -DC24V. When connecting DC5V, the external resistor R1 in the figure is not required. When higher than DC5V, connect external resistor R1 and make input current 10mA to 20mA as shown in the figure.

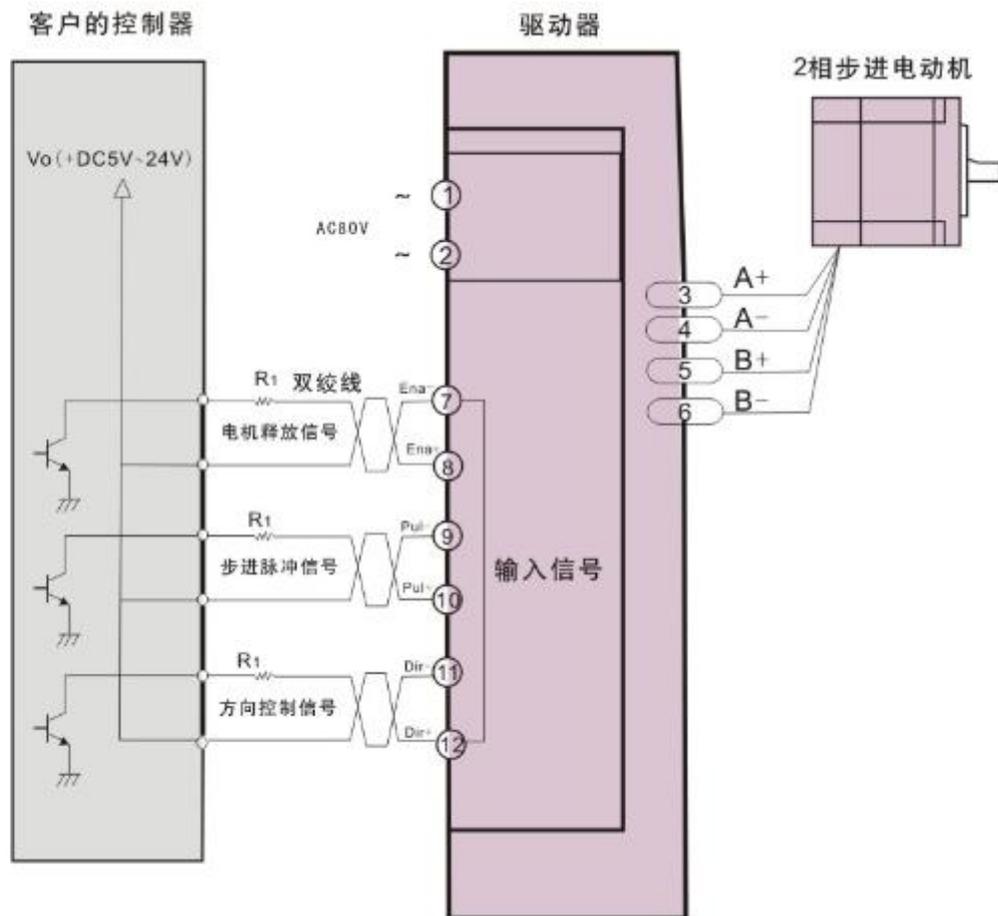
2) Wire indication

Use twisted pair (AWG22~20) for the signal line and 2M or less for the length. Please note: the longer the pulse line, the lower the maximum frequency that can be transmitted.

Use a wire of AWG 20 to 18 or higher for the power cord.

Please route the signal cable 10cm or more from the power line (power cable, motor cable). In addition, the signal line should not be wired or tied to the power line.

If there is interference with the motor wires, use conductive tape or wire mesh as the motor wire shield.



Use environment

Cooling method :forced air cooling

Occasion: Try to avoid dust, oil mist and corrosive gases

Temp:0°C~+50°C

Humidity: ≪80%RH, No condensation, no frosting

vibration 5.9m/s²Max

Storage temperature: -20°C~+65°C