

MAIZTECH Co. , Ltd.

Q2BYG1106VAC STEP DRIVER

I n s t r u c t i o n M a n u a l



Q2BYG110VAC step driver sit for any big or middling output wire 4 ,6 or 8 mix electrode ,because it adopt the latest Bipolar constant current chopping mode driver technology so it can output more quickly speed and more power than other direr model , particular function can improve the electrode nicely running, reduce move ,low noise, pretty outlook ,excellence design, good quality.

一、 Q2BYG110VAC step driver info

- ☆ can driver 2phase step motor 4/6/8 out line.
- ☆ alternating current, scope(40vcc-120vac)
- ☆ 20KHz both bally constant flow behead wave model
- ☆ photo electricity close off semaphore input, input semaphore concurrently allow TLL
- ☆ automatism reduce flow when it rest, the max driver current is 8A
- ☆ convenience adjust current, can any choice fractionize precision
- ☆ circulate calm, high speed characteristic, high energetically rules putout
- ☆ over press ,over flow and over temperature protect
- ☆ 224×134×97 (mm) out size

二、 scope

cut board machine、 cut pipe machine、 glass incise machine、 cut cincture machine、 brand print machine、 digital bore mill machine、 bore grow gross、 carve machine、 spring machine、 roll thread machine、 And so on detail orientation system

三、 atmosphere and certificate

cold model		nature wind cold
save temperature		-20℃~70℃
weight		1250g
atmos phere	warm	-5℃~50℃
	humidity	35%~90%
	shake	5.9m/s ² Max
	Work environ ment	avoid oil fog, metal powder and causticity gas

四、 electric characteristic (Tj=25℃)

item specification	Q2BYG110VAC STEP DRIVER		
	min	max	unite
driver pressure(interc ourse)	40	120	V (AC)
output mutually electronic	0.5	8.0	A
step impulse frequency	0	300	KHZ
insulated resistance	500	∞	M Ω

五、 function explain

name	title	specification
work info	POWER 1	normal electronic ,indicator light is bright
driver info	POWER 2	normal electronic ,indicator light is bright

Motor Servo Controller

conk out info	FAULT	open and indicator light is no bright													
aspect semaph ore	DR+	Single impulse semaphore control model is high/low semaphore. Double impulse control reversal impulse semaphore put in semaphore impulse is availability way													
	DR-														
Mic Step Set: SW1															
in se	Micro-step	2	4	8	16	32	64	128	256	5	10	25	50	125	250
	Step/r	400	800	1600	3200	6400	12800	25600	51200	1000	2000	5000	10000	25000	50000
	1	ON	ON	ON	ON	ON	ON	ON	ON	OFF	OFF	OFF	OFF	OFF	OFF
	2	ON	ON	ON	ON	OFF	OFF	OFF	OFF	ON	ON	ON	ON	OFF	OFF
	3	ON	ON	OFF	OFF	ON	ON	OFF	OFF	ON	ON	OFF	OFF	ON	ON
	4	ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF
		impulse semaphore ,input impulse semaphore is availability model													
function semaph ore	EN+	Function semaphore: use/forbid,high electronic can use and low electronic the driver cannot sue ,if u donot use it ,please hang in the air that is ok													
	EN-														
electrici ty end	A+	A step motor electricity													
	A-														
	B+	B step motor electricity													
	B-														
driver power supply	AC40- 110V	40VAC~110VAC													
	AC40- 110V	40VAC~110VAC alternating current													
work power supply	AC15V	15VAC alternating current													
	AC15V	15VAC alternating current													

六、 Power

the normal power supply pressure shall be within 40vac-120vac,the transformer has parameter and typology instruction. Contact must be as per the terms and conditions, also can use the order alternating current, must note the power frequency under the 50MV,must avoid wrong contact work power or no stabilization electronic

七、 fractionize enactment

1. Q2BYG1106M STEP DRIVER Mic step set SW1

Full/Half Step、Full/Half Current Set:SW1

1	2	3	4
OFF:half step ON :full step	OFF:half current ON :full current	RESERVE	RESERVE

八、 work current enactment

1. Q2BYG1106M current enactment as per the chart SW2

Current Set: SW2

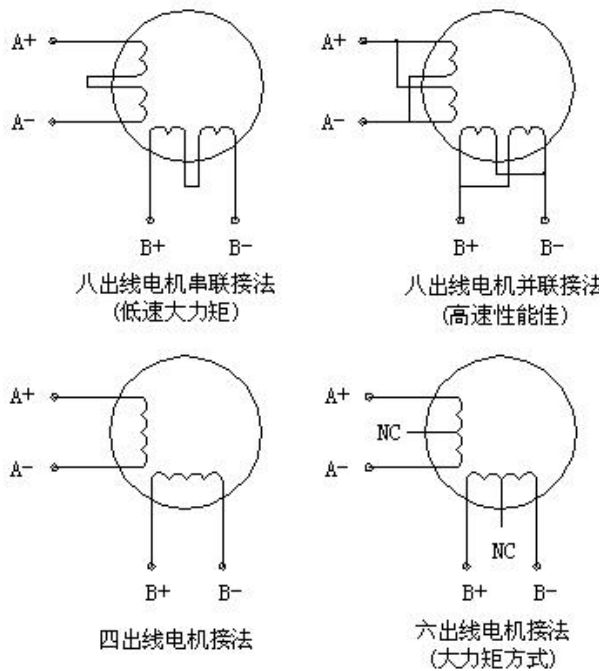
	2.8A	3.5A	4.1A	4.9A	5.7A	6.3A	7.2A	8.0A
1	ON	OFF	ON	OFF	ON	OFF	ON	OFF
2	ON	ON	OFF	OFF	ON	ON	OFF	OFF
3	ON	ON	ON	ON	OFF	OFF	OFF	OFF
4	RESERVE							

2. Q2BYG1106 current enactment as per the chart SW2

Current Set: SW2

	0.5A	1.1A	1.6A	2.4A	2.9A	3.3A	3.7A	4.1A	4.7A	5.1A	5.7A	6.3A	6.8A	7.6A	8.0A
1	OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF
2	ON	OFF	OFF	ON	ON	OFF	OFF	ON	ON	OFF	OFF	ON	ON	OFF	OFF
3	ON	ON	ON	OFF	OFF	OFF	OFF	ON	ON	ON	ON	OFF	OFF	OFF	OFF
4	ON	ON	ON	ON	ON	ON	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF

九、 exterior fix size



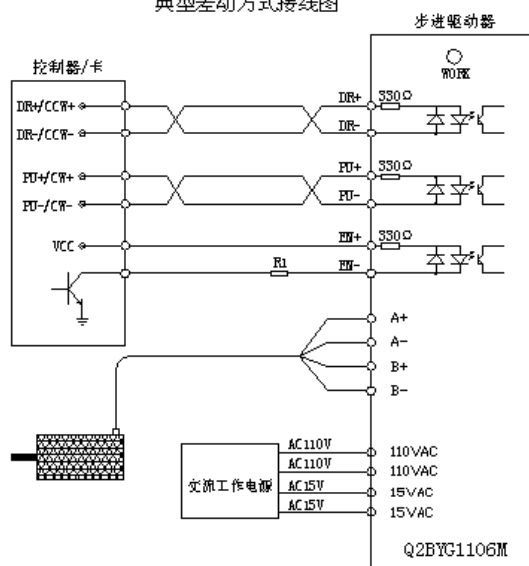
☆ electricity model and driver characteristic

- A) first u must know to choice step electricity or servo electricity as per the speed, from the electricity characteristic and u will know that following adding the speed and the putout gnarl quadrature will low, if the light load the max work speed is 15change/sec,if the heavy load the max work speed is the 10 change/sec, please choice servo electricity if u need the more quickly speed
- B) After confirm the step electricity, u Must choice the reasonable step electricity model as per the load
- C) U can through by decelerate, in-phase change the system drive, to adjust the putout gnarl quadrature and load speed
- D) Advance step driver power supply pressure and can improve electricity speed, advance step work current and can improve the electricity moment, advance the step electricity fractionize ,can improve the electricity precision, meanwhile can provide calm, small move, reduce noise
- E) U must care when the step electricity work the low speed, sometimes will resonance with the machine

十三、 drivers contact wire

a whole control system must include control ,driver, step electricity, alternating current

典型差动方式接线图



十四、 note

- ☆ please careful read the menu before use driver
- ☆ please contact the wire as per the program, don't contact the wrong work power and driver power, avoid the no stabilization power
- ☆ work electronic enactment is the rating electronic 1.2 times
- ☆ if the electricity temperature continue high after the electricity work 30-50 minute, u must reduce the work current
- ☆ commonly ,8 come out line electricity parallel connection speed is quickly than in series,but in series moment is big than parallel connection
- ☆ don't adjust current or fractionize pull out code switch when the machine working
- ☆ must put the driver in the aeration ,desiccation to prolong the driver use time
- ☆ don't frequency turn on or off the work power or avoid
- ☆ control port the input pressure contact the dirver,+24VDC must bunch 2k resistance,+12VDC must bunch 1k resistance