HB3422 & 86BYG350-156

Three-phase stepper motor 86BYG350-156

Basic introduction:

- Motor frame 86 * 86
- Fuselage length 156mm
- Shaft 14mm
- There keyway 4 * 4 * 25 and keyway 5 * 5 * 25 optional
- Operating voltage 220V
- rated current 4A
- Motor power button 12Nm
- Maximum speed of 1200rpm
- Rated speed 1000rpm

Motor superior quality, high positioning accuracy, widely used in automation equipment industry, engraving machines, packaging machines, non-standard equipment, XY-axis motion platform, CNC machine tools, precision machine tools, cutting machine, feeder, embroidery machines.

Fully sealed design, fully sealed so that the motor can easily deal with moisture, water vapor, dust and other applications, greatly improving the impact of external factors on the quality of the motor, enhance the quality of the motor.

Ample torque, the stepping motor Class A high temperature materials are used special materials resistant to high current, high current sufficient to ensure the continuous output torque.

Random equipped with 3 m power extension cable, users no longer need external power supply lines, both to ensure the quality, but also bring convenience.

Stepper motor driver HB3422

Driver features

- A16Gear angle constant torque subdivision, a maximum resolution of 60000step/turn
- Maximum reaction frequency up to 200 Kpps
- Step pulse stop over1.5sThe coil current is automatically reduced to a half of the setting current.
- Photoelectric isolated signal input/Free selection within the output DC5-24V range
- Driving current2.2/Is to4.8A/mutually,branch16Adjustable gear
- Single supply input, voltage range: AC60-270V
- Phase memory function (Note: input stops over3After the second, the driver automatically

memory at the time of the motor phase, re power up or MFThe signal from the low level to high power, the drive automatic recovery of motor phase.

Driver basic introduction:

The drive power supply voltage of AC 220V, 86 high pressure type /110 series stepper motor speed performance, after repeated tests, the motor speed can reach up to 900 /min at 600 rpm in the operation of the motor speed and torque are very stable. The current output of powerful (4.8A), pulse subdivision of up to 60000 step \ \ turn, effectively guarantee the accuracy of the motor, build quality, superior quality. Widely used in automation equipment industry, engraving machine, packing machine, non-standard equipment, XY axis platform, CNC machine tools, precision machine, cutting machine, feeding machine, embroidery machine, has been highly recognized by the majority of customers.

Characteristic

- A16Gear angle constant torque subdivision, the highest resolution60000step/turn
- Maximum reaction frequency up to 200 Kpps
- Step pulse stop over1.5sThe coil current is automatically reduced to a half of the setting current.
- Photoelectric isolated signal input/output
- Driving current2.2A/Is to4.8A/(phase3.3A/Is to6.0A/Phase)16Adjustable gear
- Single supply input, voltage range: AC110V-220V
- Phase memory function (Note: input stops over3After the second, the driver automatically memory at the time of the motor phase, re power up orMFThe signal from the low level to high power, the drive automatic recovery of motor phase.

Current setting

Drive operating currentD1-D4Terminal settings, operating current for the normal operation of the output current setting switch (see table below)

Operating	HB3422	2.2	2.4	2.6	2.8	3.0	3.2	3.4	3.6
currentA)	HB3722	1.3	1.6	2.1	2.3	2.5	3.0	3.2	3.5
Di	A	OFF	OFF						
D2		OFF	OFF	OFF	OFF	ON	ON	ON ON	
D3	3	OFF	OFF	ON	ON	OFF	OFF	ON	ON
D ₂	1	OFF	ON	OFF	ON	OFF	ON	OFF	ON

Operating	HB3422	3.8	4.0	4.2	4.4	4.6	4.8	4.8	4.8
currentA)	HB3722	4.0	4.5	5.0	5.3	5.8	6.2	6.5	7.0
Di	L	ON							
D2	2	OFF	OFF	OFF	OFF	ON	ON	ON	ON
D3	3	OFF	OFF	ON	ON	OFF	OFF	ON	ON
D ₂	1	OFF	ON	OFF	ON	OFF	ON	OFF	ON

Subdivision setting

Driver subdivision byD5-D8Terminal setting, Co16File,D9andD10Set for function. Schedule such as: fine score (pulse/Turn)

			,					,
Fine fraction	400	500	600	800	1000	1200	2000	3000
D5	ON	ON	ON	ON	ON	ON	ON	ON
D6	ON	ON	ON	ON	OFF	OFF	OFF	OFF
D7	ON	ON	OFF	OFF	ON	ON	OFF	OFF
D8	ON	OFF	ON	OFF	ON	OFF	ON	OFF
Fine fraction	4000	5000	6000	10000	8000	20000	30000	60000
D5	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
D6	ON	ON	ON	ON	OFF	OFF	OFF	OFF

D7	ON	ON	OFF	OFF	ON	ON	OFF	OFF
D8	ON	OFF	ON	OFF	ON	OFF	ON	OFF
D9	signal						everse step j	pulse
D10		-	PU Step pul				l drive 30tu	rn/Speed

Be careful!

- 1. The input voltage can not exceed the exchange 220V;
- 2. Input control signal level5VWhen higher than5VWhen the current needs to be connected to the current limiting resistance;
- 3. Input pulse signal down along the effective;
- 4. Drive temperature over80CWhen the driver stops working, the fault indicator light ALMLight until the drive temperature is reduced to50CWhen the driver needs to be powered up again to resume work. Overheating protection, please install the radiator;
- 5. Over current (load short circuit) fault indicator ALMLight, please check motor wiring and other short circuit faults, excluding the need to re power recovery;
- 6. No motor fault indicator light ALMBright, please check motor wiring, excluding the need to re power recovery.

Pin function description

Port definition	Joint pin number	Mark symbol	function	Notes
DB15	1	PUL+		meet+5VPower supply,+5V-+24VCan drive higher than+5VCurrent limiting resistor
	2	PUL-	, 11	When the pulse is changed from high to low, the
			DP9=ON, PUStep pulse signal	motor goes one step further220.Requirements:

	1	İ		
				low level0-0.5V, high level4-5V, pulse
	3	DIR+	Input signal photoelectric isolation positive terminal	width>2.5 S meet+5VPower supply,+5V-+24VCan drive higher than+5VCurrent limiting resistor
	4	DIR-	DP9= OFF, DRDirection control signal	For changing motor steering. Input resistance220.Requirements: low level0-0.5V,
			DP9=ON, DRBackward stepping pulse signal	high level4-5V, pulse width>2.5 S
	7	ENA+	Input signal photoelectric isolation positive terminal	meet+5VPower supply,+5V-+24VCan drive higher than+5VCurrent limiting resistor
	8	ENA-	Motor release signal	Switch off the motor current when the motor is active (low) and the driver stops working
	9	ALM+	Drive fault output signal	When the driver is over current and overheat, the driver outputs the fault signal
	10	ALM-	Drive fault output signal	
	11	RDY+	The driver is ready to output the signal to the photoelectric isolated positive end	The drive is in normal condition and is ready to accept the controller signal when the signal is active (low)
4	12	RDY-	The driver is ready to output the signal to the negative side of the photoelectric isolation	

	1,2	L,N	Power Supply	Power Supply: AC60-270V				
Motor,	3	PE	Ground	The earth (inner drive housing)				
power supply	4	U	Motor plug pin1	130Motor plug pin1				
end	5	V	Motor plug pin2	130Motor plug pin3				
	6	W	Motor plug pin3	130Motor plug pin5				