SNAC872 8A 90VAC

Closed Loop Stepping System

SNAC872 is a new generation hybrid servo driver, it combines the advantage of the servo system and stepper system,the system acts as nothing more than a high pole servo motor, the classic stepper motor noises and resonances vanish. Because the position is controlled, the motor can also no longer lose any steps up to its maximum torque.

Features

- Closed-loop control, no longer lose any steps, up to its maximum torgue;
- higher torque and higher speed;
- Fast response;
- Reduced motor heating and more efficient;
- Zero-speed stability;
- Smooth motion and super-low motor noise;
- No Tuning and always stable;
- Lower cost.

Applications

SNAC872 is a low-cost, high-performance servo systems, suitable for a variety of large-scale automated equipments and instruments, such as low-cost, low vibration, noise, high-precision, high-speed devices, And it is ideal for applications where the equipment uses a belt-drive mechanism or otherwise has low rigidity and you don't want it to vibrate when stopping.

Electrical Specifications

Parameter	*Min*	*Typical*	*Max*	*Unit*
Input Voltage(DC)	30	-	110	VDC
Input Voltage(AC)	20	-	90	VAC
Output Current	0	-	8.0	A
Pulse Signal Frequency	0	-	200	kHz
Logic Signal Current	7	10	16	mA

Microstep Setting

step/rev	*SW1*	*SW2*	*SW3*	*SW4*
Default	on	on	on	on
800	off	on	on	on
1600	on	off	on	on
3200	off	off	on	on
6400	on	on	off	on
12800	off	on	off	on
25600	on	off	off	on
51200	off	off	off	on
1000	on	on	on	off
2000	off	on	on	off
4000	on	off	on	off
5000	off	off	on	off
8000	on	on	off	off
10000	off	on	off	off
20000	on	off	off	off
40000	off	off	off	off

Motor Direction (SW5)

SW5 = on Motor direction is positive

SW5 = off Motor direction is negative

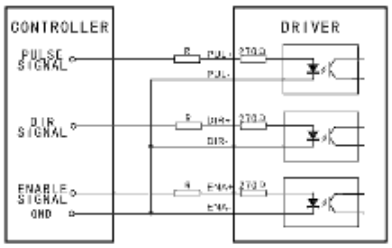
Connectors

The **SNAC872** has four connectors, connector for control signals connections, connector for stator signal connections, connector for encoder feedback and connector for power and motor connections.

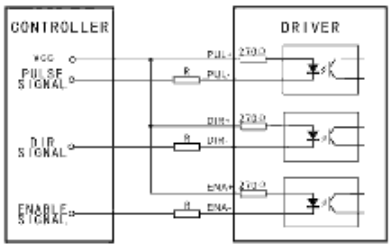
Control signal Connector

PUL+	Pulse signal positive
PUL-	Pulse signal negative
DIR+	Direction signal positive
DIR-	Direction signal negative
ENA+	Enable signal positive, usually left unconnected(enable)
ENA-	Enable signal negative, usually left unconnected(enable)

Common-Cathode



Common-Anode

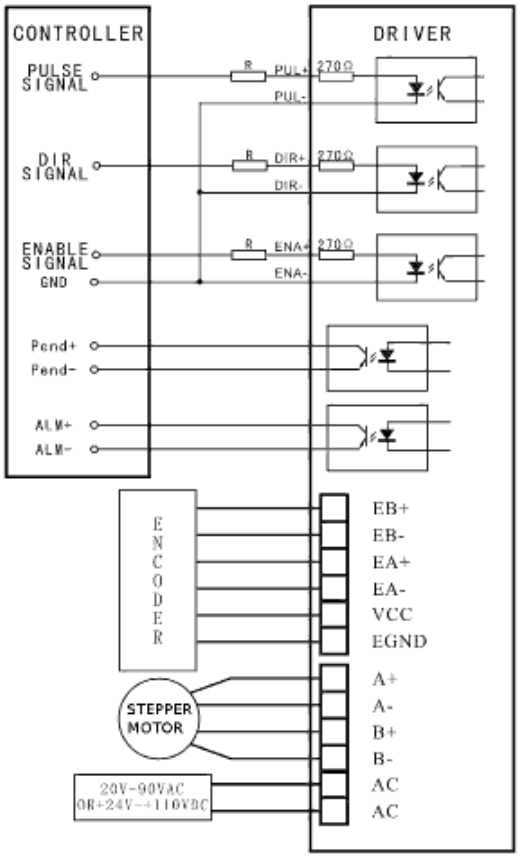


$V_{cc} = 5V \quad \Rightarrow \quad R = 0$

$V_{cc} = 12V \quad \Rightarrow \quad R = 680\Omega$

$V_{cc} = 24V \quad \Rightarrow \quad R = 1.8k\Omega$

Typical Connection



Output Alarm Signal

Pend+	OC output, Normally open, positive
Pend-	OC output, Normally open, negative
ALM+	OC output, Normally closed, positiv
ALM-	OC output, Normally closed, negative

Encoder Cable Pin Out

EGND	3 White
VCC	2 Red
EA-	13 Blue
EA+	1 Black
EB-	12 Green
EB+	11 Yellow

Power and Motor Connector

A+	Motor Phase A+(Blue)
A-	Motor Phase A- (Yellow)
B+	Motor Phase B+ (Black)
B-	Motor Phase B- (Red)
AC	Power Supply Input
AC	Power Supply Input

Mechanical Specifications

unit: mm(inch),1 inch = 25.4mm