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Description

Postage and payments

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Item specifics

Condition: New: A brand-new, unused, unopened and undamaged item in original retail packaging (where packaging is ... [Read more](#))
 Holding Torque: 435 ZO.IN
 Brand: LONGS MOTOR
 EAN: Does not apply

Country/Region of Manufacture: China
 Full Load Amps: 4.2A
 MPN: Does Not Apply



Changzhou Longs Motor Co Ltd

[longsmotor99](#) (5831 ★) 100%

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Categories

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The item includes:

THE ITEM INCLUDES.

- 1 pcs Nema 23 stepper motor 435 oz.in bipolar 23HS9442
- 1 pcs Stepper motor driver DM542A, PEAK 4.2A, 128 micsteps

Features:

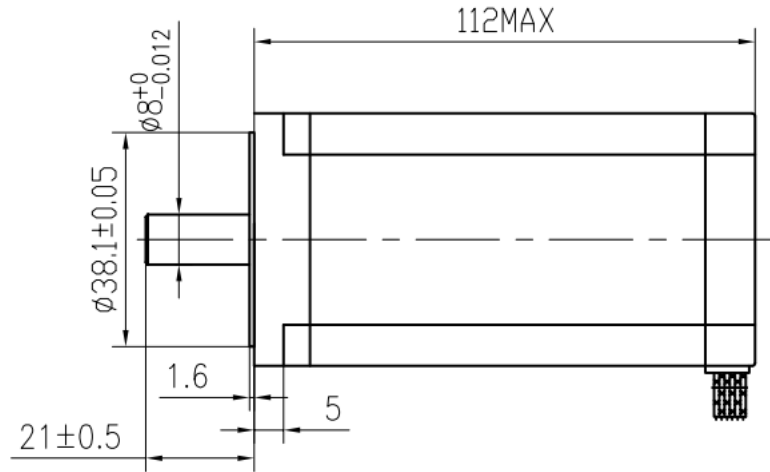
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1.Nema 23 stepper motor

Technical Specifications

Part No.: **23HS9442**
 Frame Size: **NEMA23**
 Phase: **2 Phase**
 Step Angle: **1.8 degree**
 Current: **4.2 A**
 Rated Voltage: **3.78V**
 Resistance: **0.9 Ohm/phase**
 Inductance: **3.8 mH/phase**
 Holding torque: **435 oz-in (2.8N.m)**
 Detent torque: **12N.cm**
 Rotor inertia: **800 g.cm²**
 Number of wire leads: **4**
 Weight: **1.7 kg**
 Length: **112 mm**
 Matched drive:**DM542A**
 Shaft:Single Shaft
 Front shaft length **21mm**
 The diameter for motor shaft is 8mm

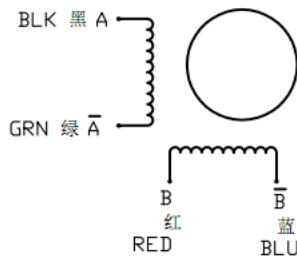
DIMENSIONS



4-Ø5^{±0.02}

Wiring diagram:

RED A+ , GRN A-, RED B+, BLU B-



2. Stepper motor driver DM542A:



Introduction:

DM542A is a type of two-phase hybrid stepping motor driver, The drive voltage of which is from 18VDC to 50VDC. It is a two-phase hybrid stepper motor of all kinds with 42mm to 86mm outside diameter and less than 4.0A phase current. This is a two-phase driver, what's more, the positioning accuracy is also higher. It is widely used in middle and big size numerical control.

Features:

- High performance, low price
- Average current control, 2-phase sinusoidal output current drive
- Supply voltage from 18VDC to 50VDC
- Opto-isolated signal I/O
- Overvoltage, under voltage, overcurrent, phase short circuit protection
- 15 channels subdivision and automatic idle-current reduction
- 8 channels output phase current setting
- Offline command input terminal
- Motor torque is related with speed, but not related with step/revolution
- High start speed
- High holding torque under high speed

Pins assignments and description:

1) Connector Pins Configurations

| Pin Function | Details |
|--------------|--|
| PUL +,PUL- | Pulse signal, PUL+ is the positive end of pulses input pin PUL- is the negative end of pulse input pin |
| DIR+,DIR- | DIR signal: DIR+ is the positive end of direction input pin DIR- is the negative end of direction input pin |
| ENBL+ | Enable signal: ENBL+ is the positive end of direction input pin. This signal is used for enabling/disabling the driver. High level for enabling the driver and low level for disabling the driver. |
| ENBL- | ENBL- is the negative end of direction input pin. Usually left unconnected (enabled) |

2) Pins wiring diagram:

PC's control signals can be active in high and low electrical level. When the high electrical level is active, all control negative signals will be connected together to GND. When low electrical level is active, all control positive signals will be connected together to public port. Now give two examples(Open collector &PNP), please check them:

Fig 1. Input port circuit (Yang connection)
PC open connector output

Fig. 2 Input port circuit (Yin connection)
PC PNP output

Note: When VCC=5V, R=0
When VCC=12V, R=1K, > 1/8W
When VCC=24V, R=2K, > 1/8W

R must connect in the control signal part.

3. Function choice (Using DIP pins to achieve this function)

1) Micro step resolution is set by SW 5,6,7,8 of the DIP switch as shown in the following table:

| | | | | | | | | | | | | | | | |
|-----------|-----|-----|------|------|------|-------|-------|------|------|------|------|------|-------|-------|-------|
| SW5 | OFF | ON | OFF | ON | OFF | ON | OFF | ON | OFF | ON | OFF | ON | OFF | ON | OFF |
| SW6 | ON | OFF | OFF | ON | ON | OFF | OFF | ON | ON | OFF | OFF | ON | ON | OFF | OFF |
| SW7 | ON | ON | ON | OFF | OFF | OFF | OFF | ON | ON | ON | ON | OFF | OFF | OFF | OFF |
| SW8 | ON | ON | ON | ON | ON | ON | ON | OFF | OFF | OFF | OFF | OFF | OFF | OFF | OFF |
| PULSE/REV | 400 | 800 | 1600 | 3200 | 6400 | 12800 | 25600 | 1000 | 2000 | 4000 | 5000 | 8000 | 10000 | 20000 | 25000 |

2) Standstill current setting

SW4 is used for this purpose. OFF meaning that the standstill current is set to be half of the selected dynamic current and ON meaning that standstill current is set to be the same as the selected dynamic current.

3) Output current setting:

The first three bits (SW 1, 2, 3) of the DIP switch are used to set the dynamic current. Select a setting closest to your motor's required current

| | | | Output current (A) | |
|-----|-----|-----|--------------------|------|
| SW1 | SW2 | SW3 | PEAK | RMS |
| ON | ON | ON | 1.00 | 0.71 |
| OFF | ON | ON | 1.46 | 1.04 |
| ON | OFF | ON | 1.91 | 1.36 |
| OFF | OFF | ON | 2.37 | 1.69 |
| ON | ON | OFF | 2.84 | 2.03 |
| OFF | ON | OFF | 3.31 | 2.36 |
| ON | OFF | OFF | 3.76 | 2.69 |
| OFF | OFF | OFF | 4.20 | 3.00 |

4) Semi-flow function:

Semi-flow function is that there is not step pulse after 500 ms, the driver output current automatically reduced to 70% of rated output current, which can protect the motor.

4. Power connections

(1)+V、GND: Power Supply.

+V: Power supply, 16~50 VDC, Including voltage fluctuation and EMF voltage. The max current is 5A.

(2) A+ A- B+ B-: Connecting 2 phase stepper motors.

The driver & 2-phase hybrid stepping motor use four-wire connection, the motor can be connected in parallel & series bipolar. As for bipolar connection, connecting in series, the driver's current is equal to the motor winding one.

5. Fixing

There should be 20mm of space, it can't be placed next to other heating devices, to avoid dust, oil mist, corrosive gas, humidity and strong vibratic (Unit=mm)

6. Troubleshooting

1, the status on light's indication

RUN: green, normal work light.

ERR: red, failure light, the motor with phase short-circuit, overvoltage and under-voltage protection.

2 Troubles

| Alarm indicator | Causes | Measures |
|---|--|---------------------------|
| LED off turn | Wrong connection for power | Check wiring of power |
| | Low-voltages for power | Enlarge voltage of power |
| Motor doesn't run, without holding torque | Wrong connection of stepper motor | Correct its wiring |
| | RESET signal is effective when offline | Make RESET ineffective |
| Motor doesn't run, | Without input pulse signal | Adjust PMW & signal level |

| | | |
|-------------------------------------|---------------------------------------|--------------------------------------|
| but maintains holding torque | | |
| Motor runs wrong direction | Wrong wires' connection | Change connection for any of 2 wires |
| | Wrong input direction signal | Change direction setting |
| Motor's holding torque is too small | Too small relative to current setting | Correct rated current setting |
| | Acceleration is too fast | Reduce the acceleration |
| | Motor stalls | Rule out mechanical failure |
| | Driver does not match with the motor | Change a suitable driver |

Application: Our Stepper Motors are used on small to mid-size Sign Cutters, CNC Plasma Cutters, and CNC Foam Cutters. on. These motors have been used in precision telescope pos

Business seller information

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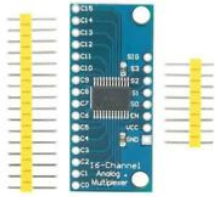
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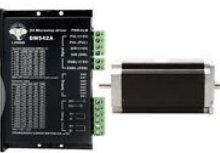
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