
Chinese Professional Stepper Motor 2 Phase - stepper motor driver-DM542A - Longs Motor

Introduction:

DM542A is a type of two-phase hybrid stepping motor driver, The drive voltage of which is from 18VDC to 50VDC. It is designed for use with 2-phase hybrid stepper motor of all kinds with 42mm to 86mm outside diameter and less than 4.0A phase current. This circuit that it adopts is similar to the circuit of servo control which enables the motor run smoothly almost without noise and vibration. Holding torque when DM542A run under high speed is also significantly higher than the other two-phase driver, what's more, the positioning accuracy is also higher. It is widely used in middle and big size numerical control devices such as curving machine, CNC machine, computer embroider machine, packing machines and so on.

Features:

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

Electrical specification:

Input voltage	18-50VDC
Input current	< 4A
Output current	1.0A ~ 4.2A
Consumption	Consumption : 80W ; Internal Insurance : 6A
Temperature	Working Temperature -10 ~ 45°C ; Storing temperature -40°C ~ 70°C
Humidity	Not condensation, no water droplets
gas	Prohibition of combustible gases and conductive dust

weight	200G
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1. Pins assignments and description:

1) Connector Pins Configurations

Pin Function
PUL +,PUL-

Details

Product link : <https://www.longs-motor.com/?p=8863>