2 Phase □ 20 Precision linear stepper motor drive system

Features :

◎ Miniaturization and space saving
◎ With high precision ball screw
◎ Lightweight, improving overall system responsiveness
◎ Significantly reduce parts count and working time
◎ Resolution from 0.00125mm/step to 0.005mm/step, Maximum load 15N

Motor name view : MS214 - 05 AB - LS H 06 01

1 2 3 4 5 6

1 : MS214-05 : 2-phase 20-frame stepper motor，drive current 0.5A/Phase
2 : AB : Single-axis four-wire
3 : LS : External drive shaft
4 : H : Ball screw model
5 : 06 : Ball screw diameter is 6.0mm
6 : 01 : The lead of the ball screw is 1.0mm

Precision Linear Stepper Motor Specifications:

※Travel per step Calculated value based on drive resolution

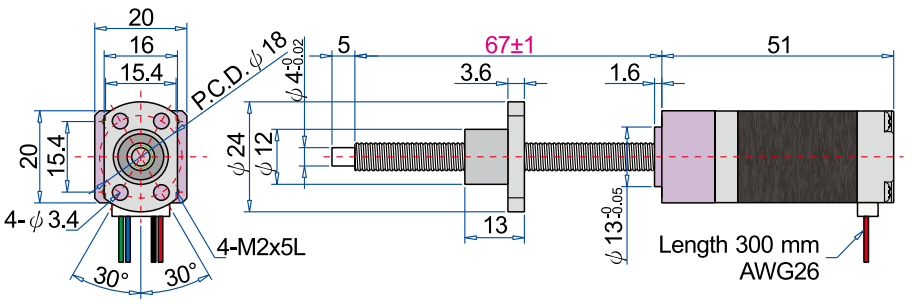
Motor type	Screw Dia.	Lead	Travel per step					Stroke	Max. Thrust Force
			200	400	800	1600	3200 P/R		
MS214-05AB-LSH0601	6.0mm	1.0mm	0.005	0.0025	0.00125	0.00063	0.00031 mm	50mm	15N

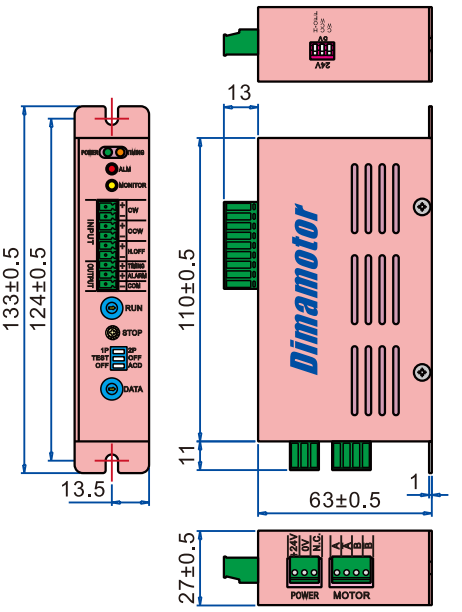
Using grinding grade ball screw, positioning accuracy:±0.01mm，Repeatability:±0.005mm

Microstep stepping motor driver specifications:

Drive model	DS22HMD
Input power	DC24V(3A and above)Actual depends on the batch motor
Drive current	0.5~2A/phase
Step angle setting	Fullstep/Halfstep/Microstep(800/1600/3200 / 6400/12800/25600 segmentatio
Signal input/output method	◇ Optocoupler input interface ◇ Open collector output interface
Signal input	◇ CW pulse input ◇ CCW pulse input ◇ Hold offExcitation release input
Signal output	◇ ALARM OUT ◇ TIMING OUT
Basic skills	* Self-test function * Pulse input mode (1P/2P) switching function * Step angle switching function * Automatic current drop (ACD) function
Protection mechanism	* Power reverse connection protection * Over temperature protection * Motor wire break protection * Overload protection * Signal terminal overvoltage protection * Overcurrent protection

Dimensions (unit: mm)

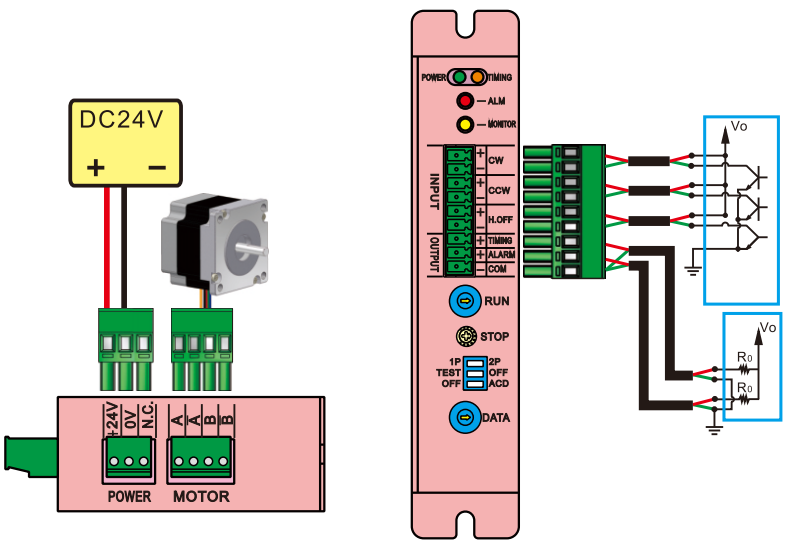




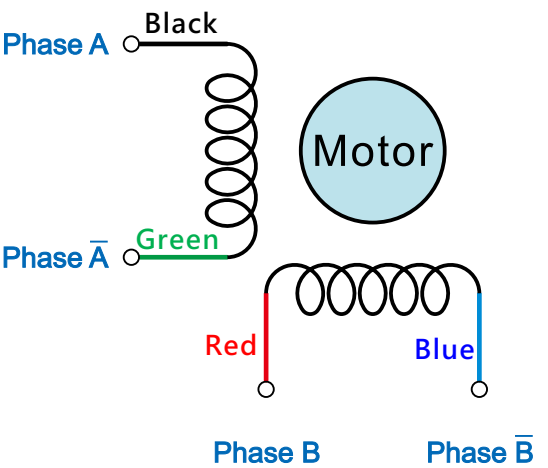
◈ MS214-05AB-LSH0601

◈DS23HMD

System Wiring Diagram



Internal wiring diagram of stepper motor



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