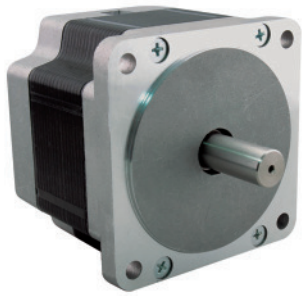
34HC SERIES 1.2°

Key Features

- 3-phase Motor
- Low Noise
- Smooth Movement
- Low Vibration



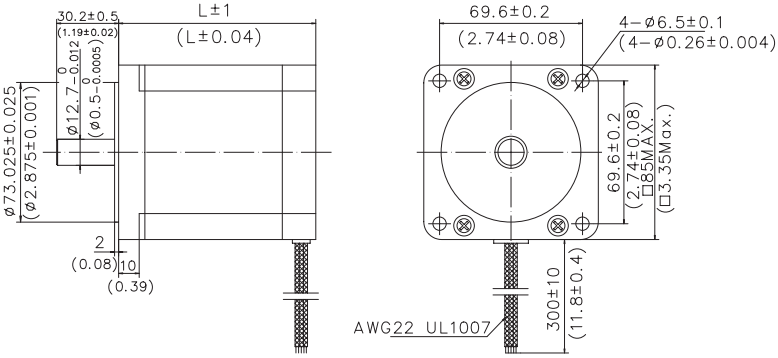
General Specifications

Bi-polar

Model Number	Resistance per Phase	Inductance per Phase	Rated Current	Holding Torque		Detent Torque		Rotor Inertia	
	ohm	mH	A	mNm	oz-in	mNm	oz-in	g.cm²	oz-in²
34HC0301	1.8	11.5	3.0	2000	283.29	100	14.16	1100	6.05
34HC1301	4.6	39.0	2.0	4000	566.57	150	21.25	1850	10.18
34HC2301	1.2	10.5	5.2	6000	849.86	200	28.33	2750	15.13

Mechanical Dimension

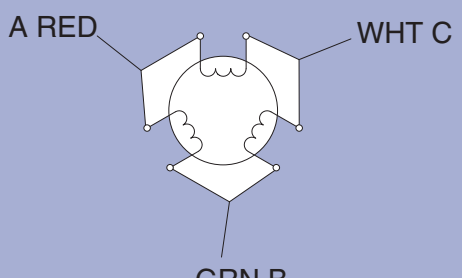
Model Number	L	Mass
	mm (in.)	kg (lb.)
34HC0**	66.5 (2.59)	1.6 (3.52)
34HC1**	96.0 (3.74)	2.7 (5.94)
34HC2**	125.5 (4.89)	3.8 (8.36)



mm (inch)

Wrie Diagram and Drive Sequence model

Wire Diagram



Drive Sequence model

When seen from the flange side of the motor

STEP	A	B	C
1	+	−	
2		−	+
3	−		+
4	−	+	
5		+	−
6	+		−

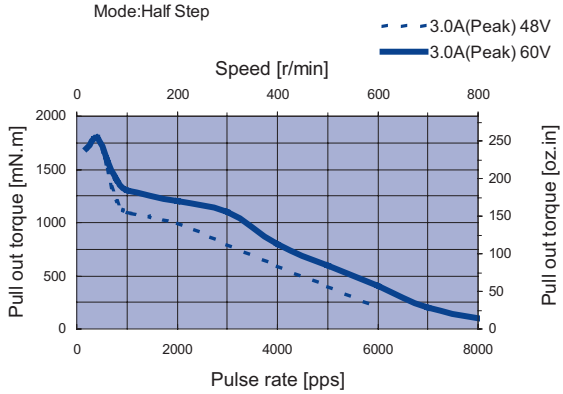
CW

CW(CLOCKWISE) ROTATION

Dynamic Torque Curves

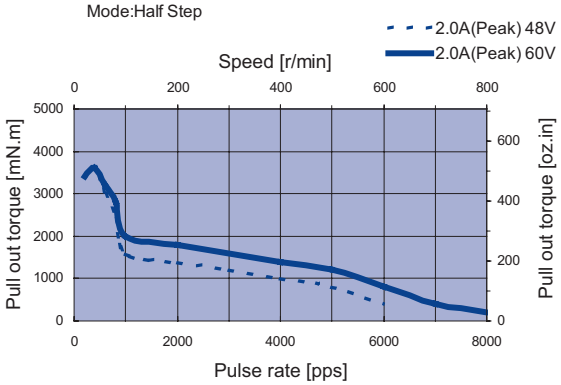
34HC0301

Conditions: 3-Phase Constant Current Driver
IC: AMA 3MS5860M
Mode:Half Step



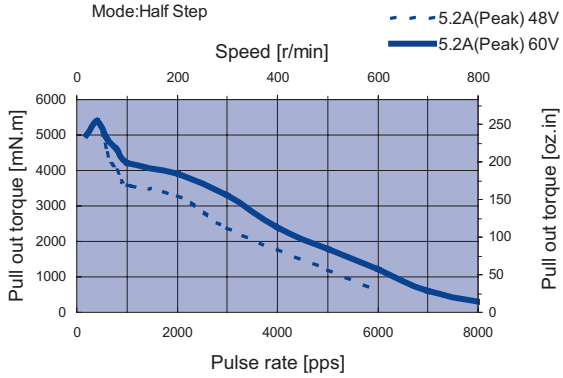
34HC1301

Conditions: 3-Phase Constant Current Driver
IC: AMA 3MS5860M
Mode:Half Step

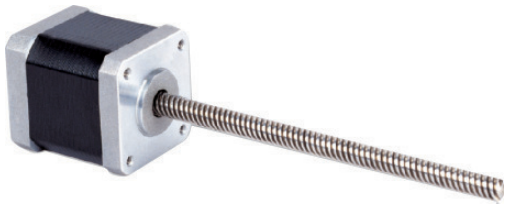


34HC2301

Conditions: 3-Phase Constant Current Driver
IC: AMA 3MS5860M
Mode:Half Step



Digital Linear Actuator (External Nut)



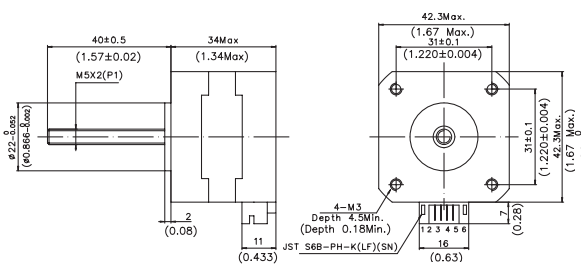
Description

Conversion of rotary to linear motion inside a linear actuator is accomplished through a threaded nut and lead screw. The external shaft is threaded. In order to generate linear motion the lead screw must rotating together with rotor, and the shaft threads engages the nut resulting in linear motion. Changing the direction of rotation combination determines the linear travel per step of the nut. The travel length and speed can be digital controlled by the input of data pulses. Moons DLA 16HY0416-02N, is designed as travel of 0.004mm per step and can be accurately controlled to drive 40mm movement by a 10K data pulses input. Application: Various zoom controls, X-Y stages, as well as other linear motion control applications.

General Specifications

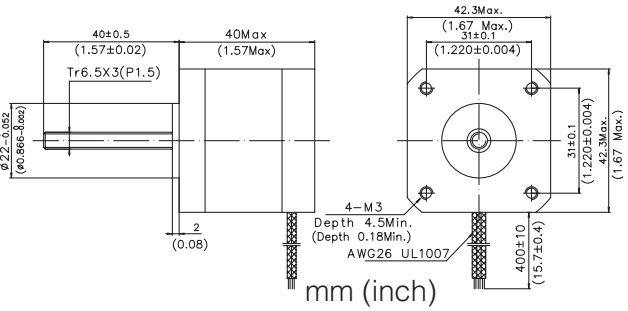
Model Number	Number of leads	Step Distance		Rated Current	Resistance per Phase	Inductance per Phase	Rotor Inertia		Motor Mass	
		mm	inch	A	ohm	mH	g.cm²	oz-in²	kg	lb.
17HD0007-34	4	0.01	0.0004	0.4	35	44	38	0.21	0.20	0.44
17HD2405-20N	4	0.015	0.0006	0.5	25	45	57	0.31	0.24	0.53
17HD4001-15N	4	0.04	0.0016	0.4	30	45	38	0.21	0.20	0.44

Mechanical Dimension



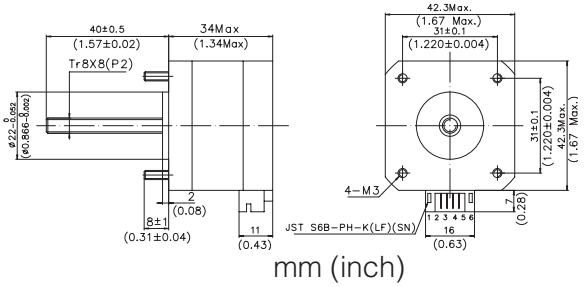
mm (inch)

17HD0007-34



mm (inch)

17HD2405-20N



mm (inch)

17HD4001-15N