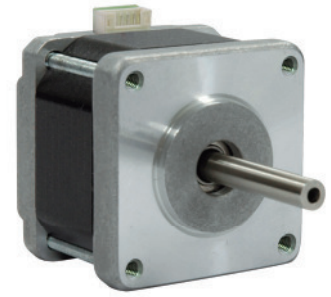


16HY SERIES 1.8°

Key Features

- High Accuracy
- Low Inertia
- High Acceleration



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.cm ²	oz-in ²
16HY0016	39	50	0.3	150	21.25	12	1.70	20	0.11
16HY1005-04	9.8	18	0.5	200	28.33	18	2.55	24	0.13
16HY7010	14	12.2	0.5	80	11.33	5	0.71	11	0.06

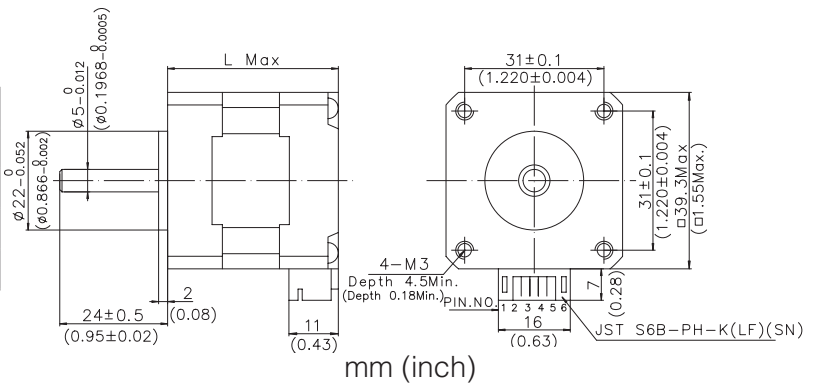
Uni-polar

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.cm ²	oz-in ²
16HY0017	39	23.5	0.3	100	14.16	12	1.70	20	0.11
16HY1006	10.2	10.7	0.5	160	22.66	18	2.55	24	0.13
16HY7006-06	13.3	6.4	0.5	60	8.50	5	0.71	11	0.06

Motor Wiring Diagram → Page A-8

Mechanical Dimension

Model Number	L	Mass
	mm (in.)	kg (lb.)
16HY0**	33.3 (1.30)	0.18 (0.40)
16HY1**	38 (1.48)	0.2 (0.44)
16HY7**	20 (0.78)	0.12 (0.26)



□ 0.39in.
(□ 10mm)

□ 1.10in.
(□ 28mm)

□ 1.38in.
(□ 35mm)

□ 1.53in.
(□ 39mm)

□ 1.65in.
(□ 42mm)

□ 2.22in.
(□ 56.4mm)

∅ 2.25in.
(∅ 57.2mm)

□ 2.36in.
(□ 60mm)

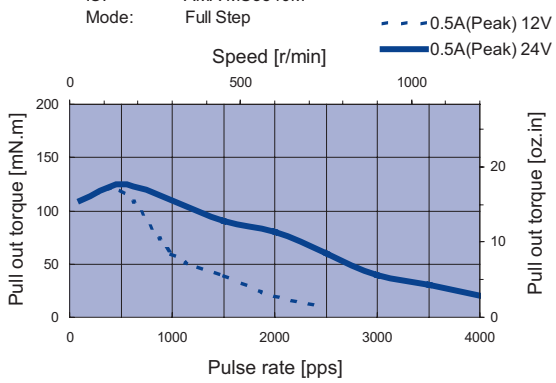
□ 3.35in.
(□ 85mm)

∅ 3.39in.
(∅ 86mm)

Dynamic Torque Curves

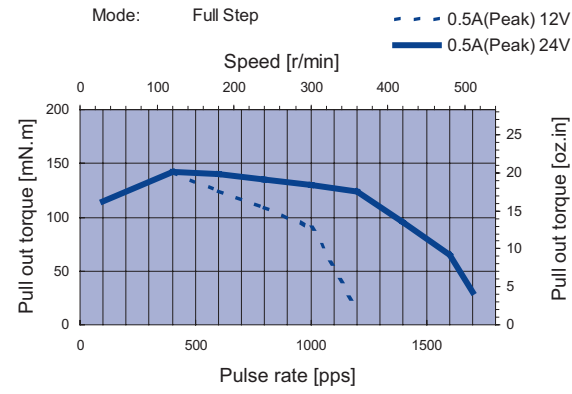
16HY0016

Conditions: Bi-polar Constant Current Driver
 IC: AMA MS3540M
 Mode: Full Step



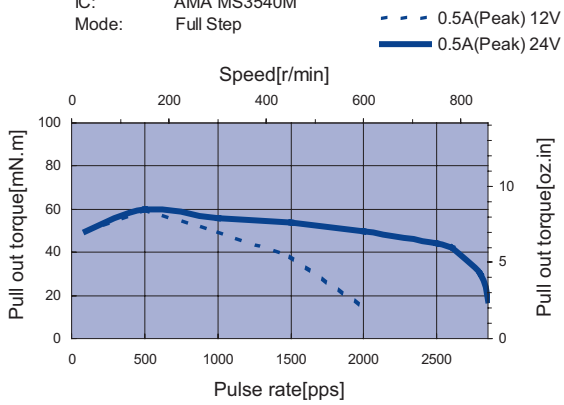
16HY1005-04

Conditions: Bi-polar Constant Current Driver
 IC: AMA MS3540M
 Mode: Full Step



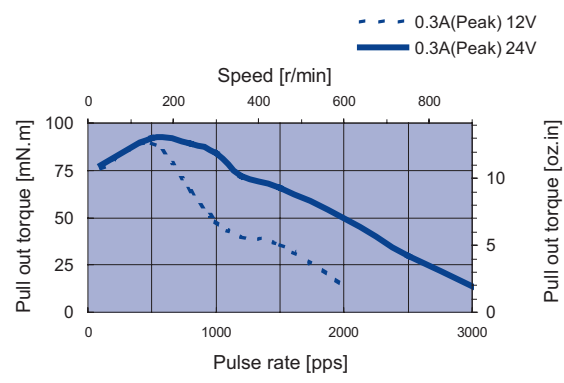
16HY7010

Conditions: Bi-polar Constant Current Driver
 IC: AMA MS3540M
 Mode: Full Step



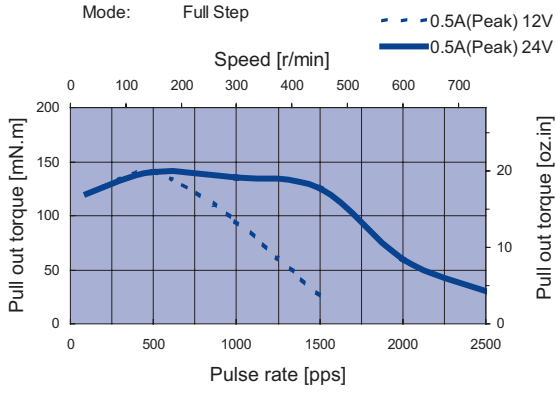
16HY0017

Conditions: Uni-polar Constant Current Driver
 IC: AMA MSU3040M
 Mode: Full Step



16HY1006

Conditions: Uni-polar Constant Current Drive
 IC: AMA MSU3040M
 Mode: Full Step



16HY7006-06

Conditions: Uni-polar Constant Current Drive
 IC: AMA MSU3040M
 Mode: Full Step

