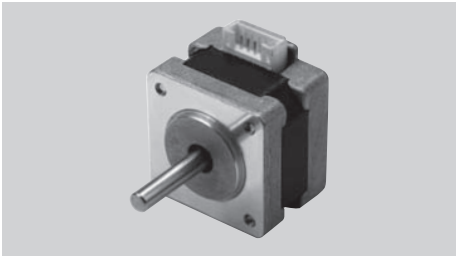


14HY SERIES 1.8°

Key Features

- Low Inertia
- Small Size
- High Acceleration



General Specifications

- Bi-polar

Series & Length	Model Number	Holding Torque		Rated Current	Resistance per Phase	Inductance per Phase	Detent Torque		Rotor Inertia	
		mNm	oz-in	A	ohm	mH	mNm	oz-in	g.cm ²	oz-in ²
14HY5 26 mm (1.01 in.)	14HY5010	68	9.64	0.4	9	8	10	1.42	12	0.07
14HY8 37 mm (1.44 in.)	14HY8002	115	16.30	0.85	5.5	5	15	2.12	20	0.11

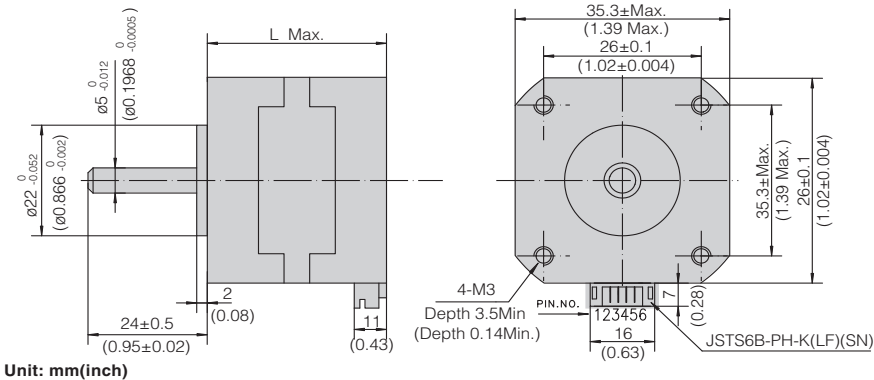
- Uni-polar

Series & Length	Model Number	Holding Torque		Rated Current	Resistance per Phase	Inductance per Phase	Detent Torque		Rotor Inertia	
		mNm	oz-in	A	ohm	mH	mNm	oz-in	g.cm ²	oz-in ²
14HY5 26 mm (1.01 in.)	14HY5011	50	7.09	0.4	9	4.2	10	1.42	12	0.07
14HY8 37 mm (1.44 in.)	14HY8001	110	15.49	1.2	2.7	1.7	15	2.12	20	0.11

- Wiring Connection, Lead Wires, Schematic Diagrams & Stepping Sequence.....Page 60 - 62

Mechanical Dimension

Series	L	Mass
	mm (in.)	kg (lb.)
14HY5	26 (1.01)	0.15 (0.33)
14HY8	37 (1.44)	0.21 (0.46)

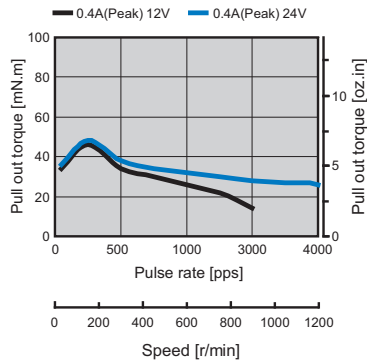


Dynamic Torque Curves

• Bi-polar

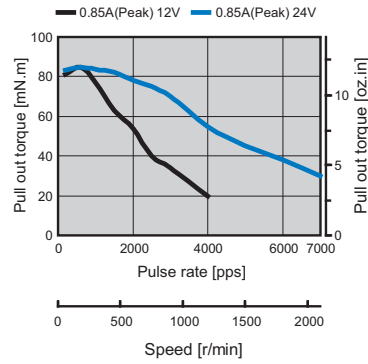
14HY5010

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



14HY8002

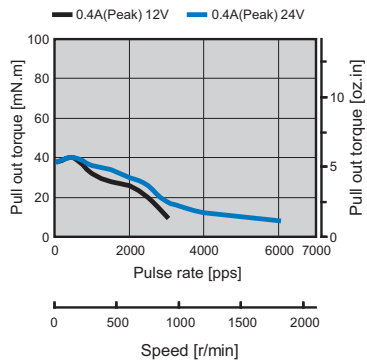
Conditions: Bi-polar Constant Current Driver
Driver: AMA MS3540M
Mode: Full Step



• Uni-polar

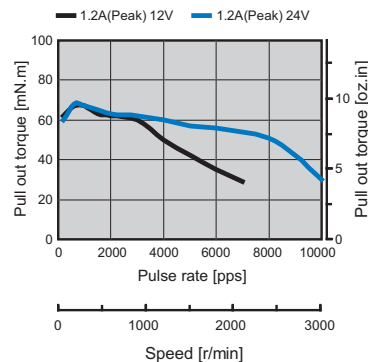
14HY5011

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



14HY8001

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



Why Stepping Motor

encapsulated
2 phase
NEMA 14

encapsulated
3 phase
NEMA 14
NEMA 17

new release
2 phase
NEMA 8

new release
2 phase
NEMA 14

new release
2 phase
NEMA 16

2 phase
NEMA 10
25.0 mm
(1.00 inch)

2 phase
NEMA 11
28.0 mm
(1.10 inch)

2 phase
NEMA 14
35.0 mm
(1.38 inch)

2 phase
NEMA 16
39.0 mm
(1.53 inch)

2 phase
NEMA 17
42.0 mm
(1.65 inch)

2 phase
NEMA 23
56.0 mm
(2.22 inch)

2 phase
NEMA 24
60.0 mm
(2.36 inch)

2 phase
NEMA 34
86.0 mm
(3.39 inch)

3 phase
NEMA 24
60.0 mm
(2.36 inch)

3 phase
NEMA 34
86.0 mm
(3.39 inch)

how to select