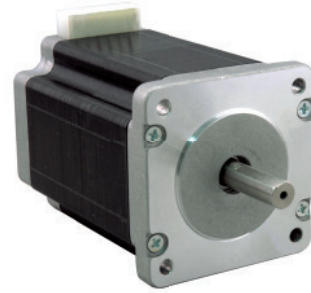


# 24HS SERIES 1.8°

## Key Features

- High Torque
- High Accuracy
- Smooth Movement



## General Specifications

Bi-polar

Model Number	Resistance per Phase	Inductance per Phase	Rated Current	Holding Torque		Detent Torque		Rotor Inertia	
	ohm	mH		mNm	oz-in	mNm	oz-in	g.cm <sup>2</sup>	oz-in <sup>2</sup>
24HS1402N	0.73	1.6	2.8	1060	150	40	5.66	280	1.54
24HS1403N	2.92	6.4	1.4	1060	150	40	5.66	280	1.54
24HS1404N	0.35	0.8	4	880	125	40	5.66	280	1.54
24HS2401-03N	1.1	3.4	2.8	1600	227	90	12.75	450	2.48
24HS2402N	0.43	1.1	4	1250	177	90	12.75	450	2.48
24HS2404N	4	13	1.4	1600	227	90	12.75	450	2.48
24HS3401N	1.1	3.5	2.8	1950	276	95	13.46	560	3.08
24HS3403N	4.4	14	1.4	1950	276	95	13.46	560	3.08
24HS5401N	0.65	2.4	4	2500	354	100	14.16	900	4.95
24HS5402N	1.49	6.5	2.8	2700	382	100	14.16	900	4.95
24HS5403N	5.96	25	1.4	2700	382	100	14.16	900	4.95

Uni-polar

Model Number	Resistance per Phase	Inductance per Phase	Rated Current	Holding Torque		Detent Torque		Rotor Inertia	
	ohm	mH		mNm	oz-in	mNm	oz-in	g.cm <sup>2</sup>	oz-in <sup>2</sup>
24HS1601N	5.7	6.8	1	740	105	40	5.66	280	1.54
24HS1603N	0.74	0.8	2.8	740	105	40	5.66	280	1.54
24HS1604N	1.46	1.8	2	740	105	40	5.66	280	1.54
24HS2601N	0.9	1.32	3	1130	160	90	12.75	450	2.48
24HS2602N	1.9	3	2	1130	160	90	12.75	450	2.48
24HS2607N	6.9	10.7	1	1100	156	90	12.75	450	2.48
24HS3601N	2.2	3.5	2	1500	212	95	13.46	560	3.08
24HS5601N	1.3	2.4	3	2100	297	100	14.16	900	4.95
24HS5602N	2.8	5.9	2	2100	297	100	14.16	900	4.95
24HS5604N	10	19.5	1	2100	297	100	14.16	900	4.95

0.9°

1.8°

2-PHASE

3.6°

3.75°

3-PHASE

1.2°

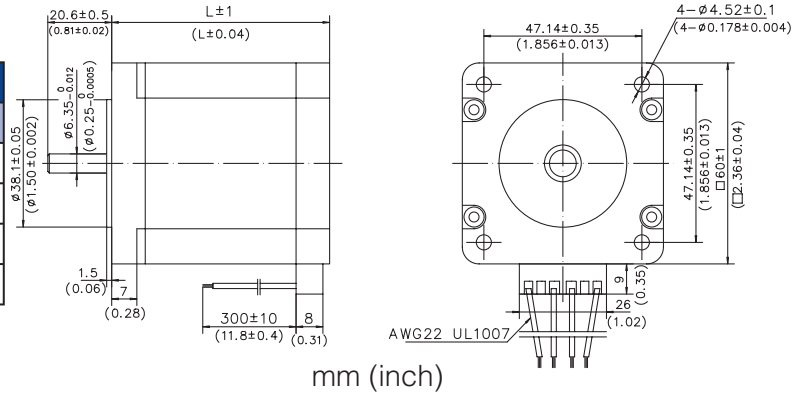
DIGITAL LINEAR ACTUATOR

INTERGRATED STEPPING MOTOR

MOTOR DRIVER

Mechanical Dimension

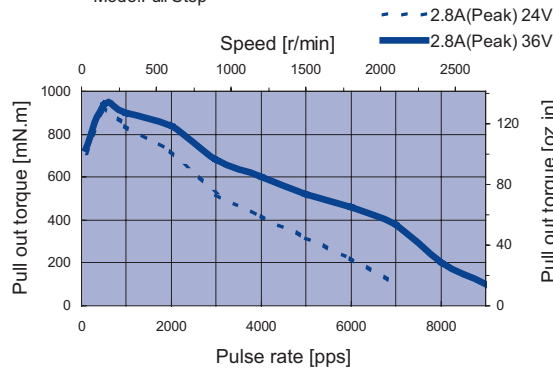
Model Number	L	Mass
	mm (in.)	kg (lb.)
24HS1**	44 (1.73)	0.60 (1.32)
24HS2**	54 (2.13)	0.83 (1.83)
24HS3**	65 (2.56)	1.05 (2.31)
24HS5**	85 (3.35)	1.40 (3.09)



Dynamic Torque Curves

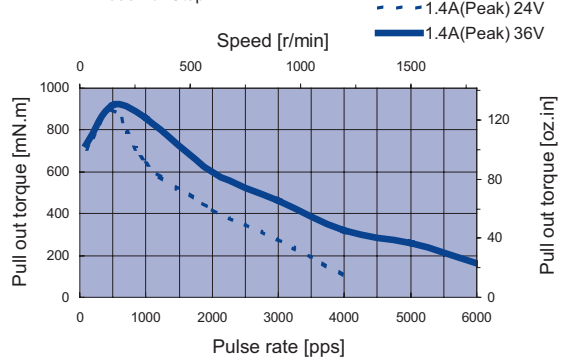
24HS1402N

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



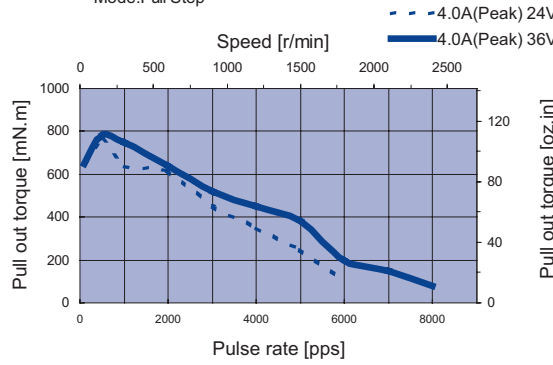
24HS1403N

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



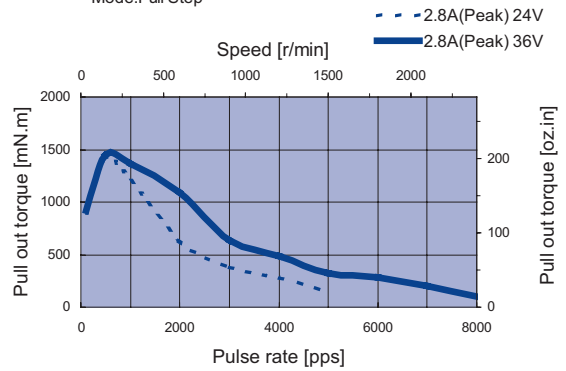
24HS1404N

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



24HS2401-03N

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



□ 0.39in.  
(□ 10mm)

□ 1.10in.  
(□ 28mm)

□ 1.38in.  
(□ 35mm)

□ 1.53in.  
(□ 39mm)

□ 1.65in.  
(□ 42mm)

□ 2.22in.  
(□ 56.4mm)

□ 2.25in.  
(ø 57.2mm)

□ 2.36in.  
(□ 60mm)

□ 3.35in.  
(□ 85mm)

□ 3.39in.  
(ø 86mm)

0.9°

1.8°

3.6°

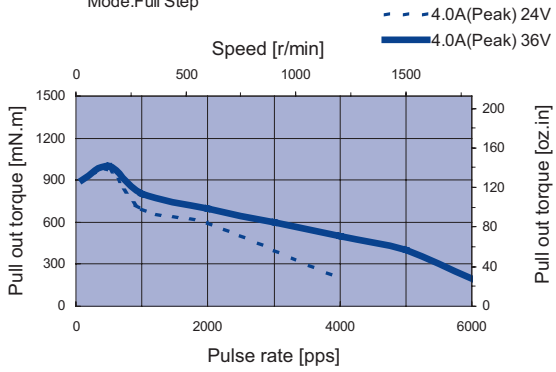
3.75°

1.2°

Dynamic Torque Curves

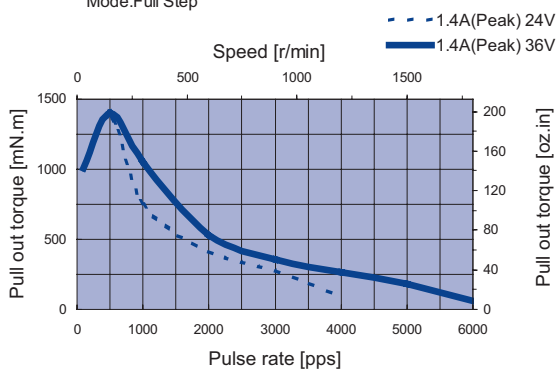
24HS2402N

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



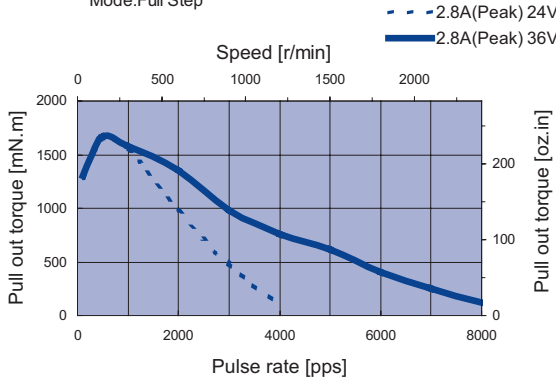
24HS2404N

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



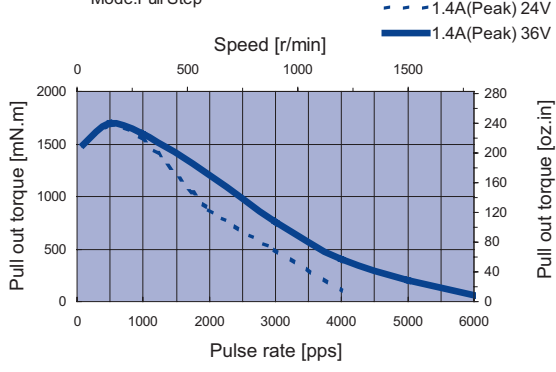
24HS3401N

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



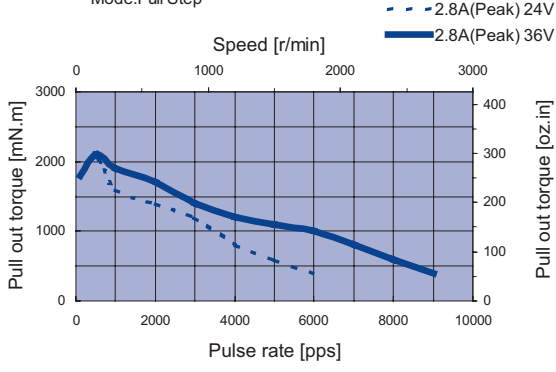
24HS3403N

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



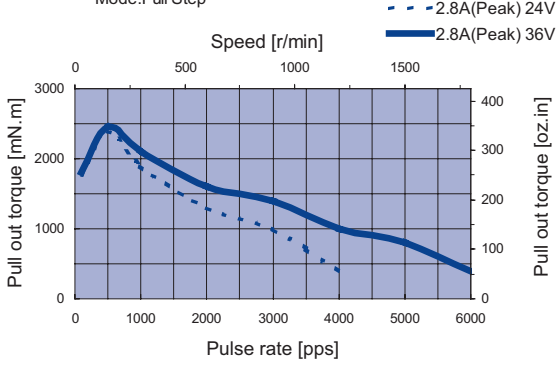
24HS5401N

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



24HS5402N

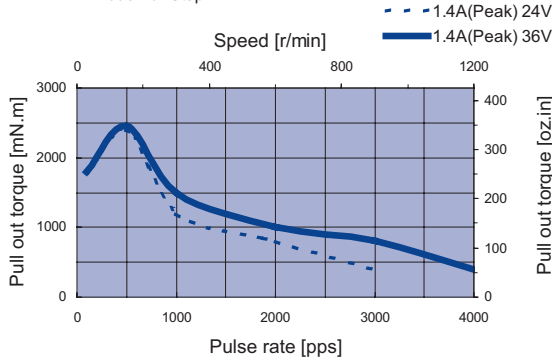
Conditions: Bi-polar Constant Current Driver  
IC: AMA MS3540M  
Mode: Full Step



Dynamic Torque Curves

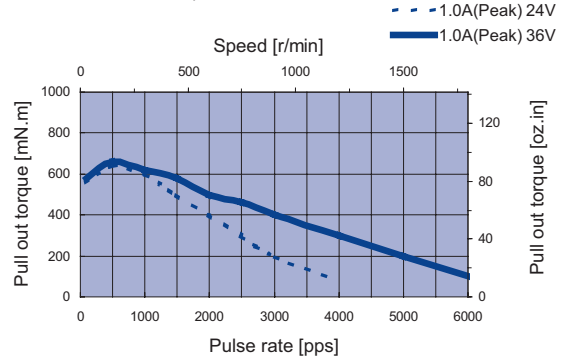
24HS5403N

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



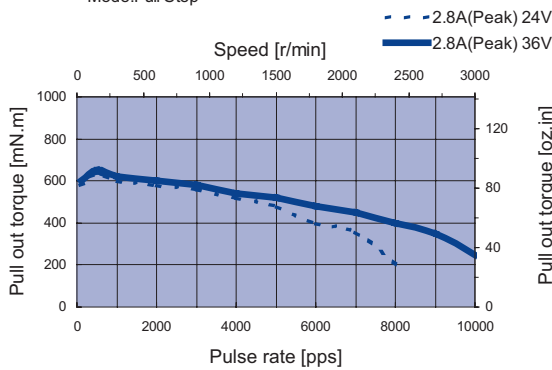
24HS1601N

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



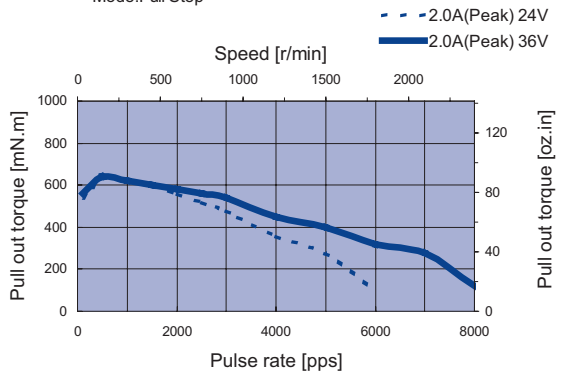
24HS1603N

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



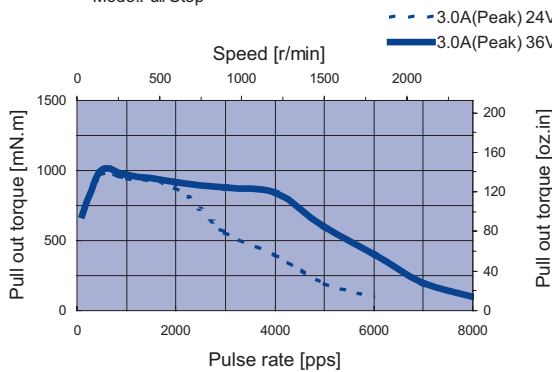
24HS1604N

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



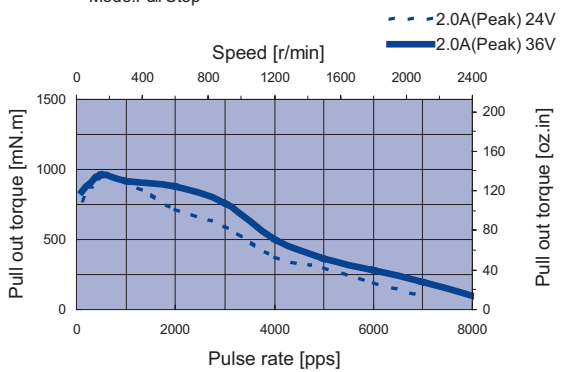
24HS2601N

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



24HS2602N

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



0.39in.  
(10mm)

1.10in.  
(28mm)

1.38in.  
(35mm)

1.53in.  
(39mm)

1.65in.  
(42mm)

2.22in.  
(56.4mm)

Ø2.25in.  
(Ø57.2mm)

2.36in.  
(60mm)

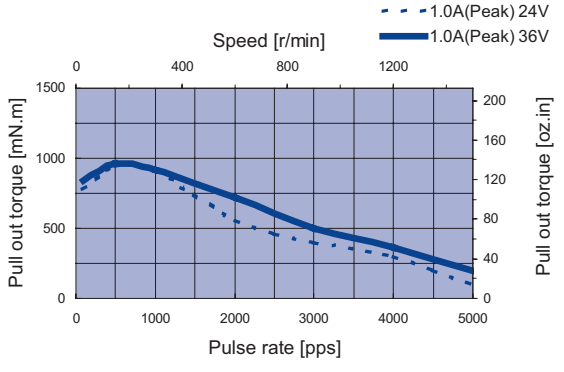
3.35in.  
(85mm)

Ø3.39in.  
(Ø86mm)

Dynamic Torque Curves

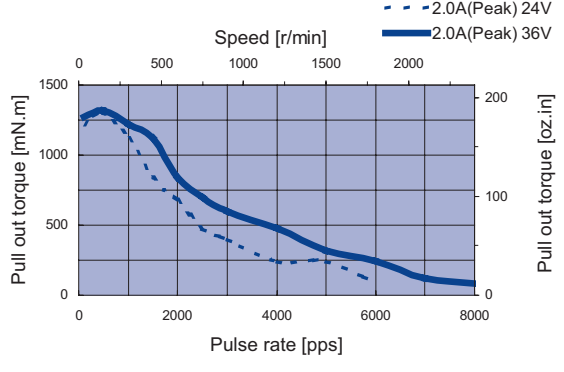
24HS2607N

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



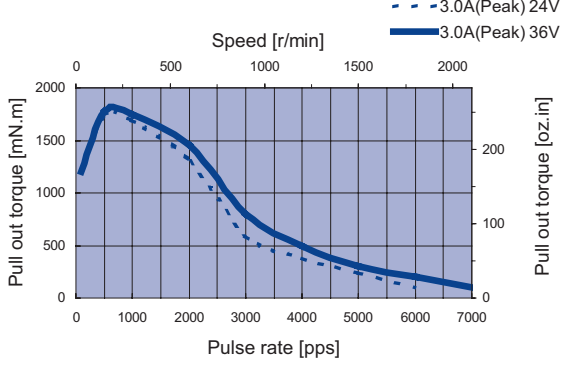
24HS3601N

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



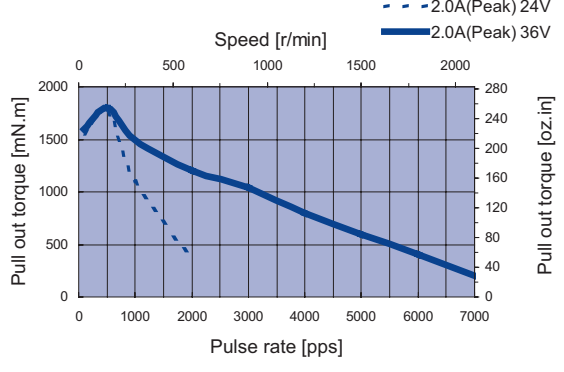
24HS5601N

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



24HS5602N

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



24HS5604N

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

