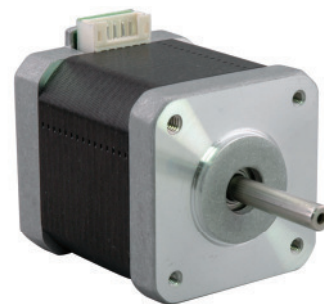


17HDN SERIES 1.8°

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	A	mNm	oz-in	mNm	oz-in	g.cm ²	oz-in ²
17HD2011N	1.9	4	1.5	380	53.82	15	2.12	57	0.31
17HD2015N	18	35	0.5	420	59.49	15	2.12	57	0.31
17HD2018N	6	14	0.85	400	56.66	15	2.12	57	0.31
17HD2022N	16	32.0	0.50	330	46.74	15	2.12	57	0.31
17HD2023N	3.5	5	1	300	42.49	15	2.12	57	0.31
17HD2024N	4.1	8.5	1	390	55.24	15	2.12	57	0.31
17HD2025N	66	116	0.25	370	52.41	15	2.12	57	0.31
17HD2026N	4.4	10	1	390	55.24	15	2.12	57	0.31
17HD2027N	71.4	140	0.25	380	53.82	15	2.12	57	0.31
17HD2028N	60	120	0.28	400	56.66	15	2.12	57	0.31
17HD4005-01N	7.4	11.0	0.60	200	28.33	12	1.70	38	0.21
17HD4022-01N	3.0	4.2	1.10	210	29.75	12	1.70	38	0.21
17HD4024N	15	20.0	0.50	240	33.99	12	1.70	38	0.21
17HD4025N	54	78.0	0.25	230	32.58	12	1.70	38	0.21
17HD4026N	80	89.0	0.22	220	31.16	12	1.70	38	0.21
17HD4027N	48	60.0	0.28	220	31.16	12	1.70	38	0.21
17HD6012N	2.4	4.5	1.5	490	69.41	25	3.54	82	0.45
17HD6016N	5.0	8.4	1	460	65.25	25	3.54	82	0.45
17HD6017N	7.5	14	0.8	490	69.41	25	3.54	82	0.45
17HD6018N	14	23	0.57	460	65.25	25	3.54	82	0.45
17HD6019N	80	130	0.25	460	65.25	25	3.54	82	0.45
17HD6020N	20	35	0.5	490	69.41	25	3.54	82	0.45
17HD6021N	58	104	0.3	460	65.25	25	3.54	82	0.45
17HDB001N	2.3	4.6	1.5	630	89.24	30	4.25	123	0.68
17HDB002N	1.6	3	2	650	92.07	30	4.25	123	0.68

□ 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)

0.9°

1.8°

3.6°

3.75°

1.2°

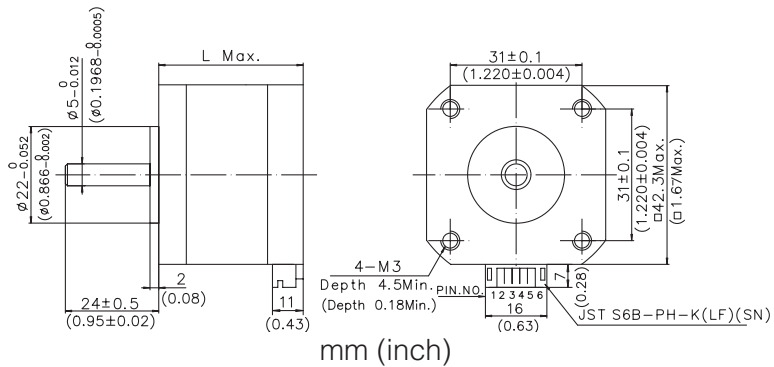
Uni-polar

Model Number	Resistance per Phase	Inductance per Phase	Rated Current	Holding Torque		Detent Torque		Rotor Inertia	
	ohm±10%	mH±20%	A	mNm	oz-in	mNm	oz-in	g.cm ²	oz-in ²
17HD2032N	1.8	1.7	1.6	290	41.08	15	2.12	57	0.31
17HD2033N	7.5	6.9	0.8	290	41.08	15	2.12	57	0.31
17HD4028N	8.3	5.8	0.67	167	23.65	12	1.70	38	0.21
17HD4029N	3	2.1	1.1	167	23.65	12	1.70	38	0.21
17HD4030N	2.4	2	1.2	190	26.91	12	1.70	38	0.21
17HD4031N	4.2	2.2	0.95	160	22.66	12	1.70	38	0.21
17HD4032N	24	13	0.4	160	22.66	12	1.70	38	0.21
17HD4033N	38.5	21	0.31	160	22.66	12	1.70	38	0.21
17HD6022N	3.3	2.8	1.2	360	55.99	25	3.54	82	0.45
17HD6023N	4.6	4	1.1	320	45.33	25	3.54	82	0.45
17HD6024N	30	21.6	0.4	320	45.33	25	3.54	82	0.45
17HD6025N	7.5	7.3	0.85	350	49.58	25	3.54	82	0.45
17HD6026N	2.4	2.2	1.4	422	59.77	25	3.54	82	0.45
17HDB003N	2.3	2.4	1.7	450	63.74	30	4.25	123	0.68
17HDB004N	1.6	1.6	2	450	63.74	30	4.25	123	0.68

Motor Wiring Diagram —> Page A-8

Mechanical Dimension

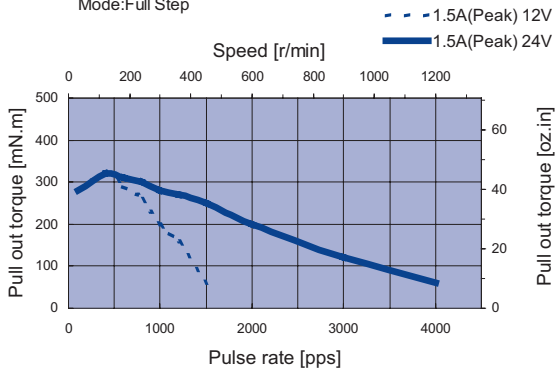
Model Number	L	Mass
	mm (in.)	kg (lb.)
17HD2**N	39.8 (1.57)	0.28 (0.62)
17HD4**N	34.3 (1.35)	0.21 (0.46)
17HD6**N	48.3 (1.90)	0.36 (0.79)
17HDB**N	62.8 (2.47)	0.60 (1.32)



Dynamic Torque Curves

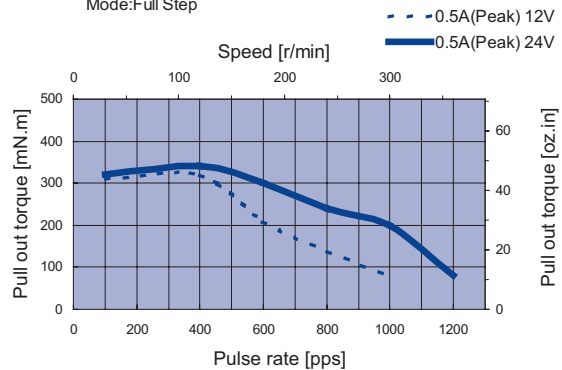
17HD2011N

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



17HD2015N

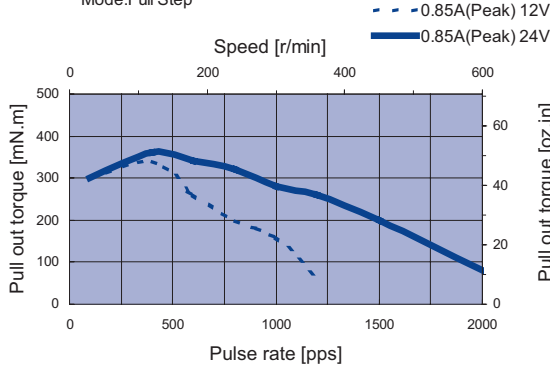
Conditions: Bi-polar Constant Current Driver
IC: AMA MS3540M
Mode: Full Step



Dynamic Torque Curves

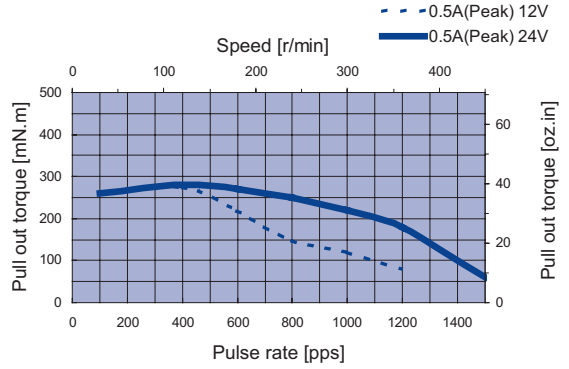
17HD2018N

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



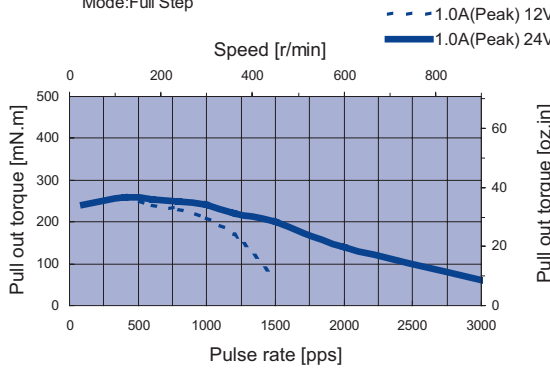
17HD2022N

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



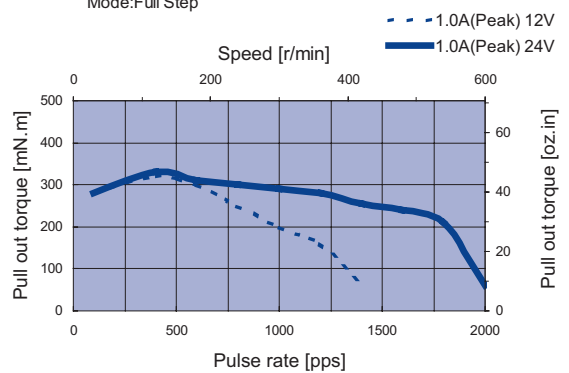
17HD2023N

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



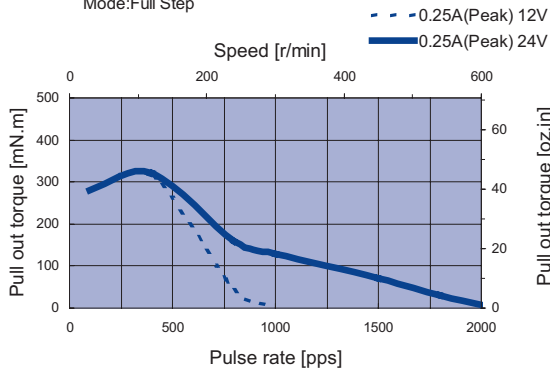
17HD2024N

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



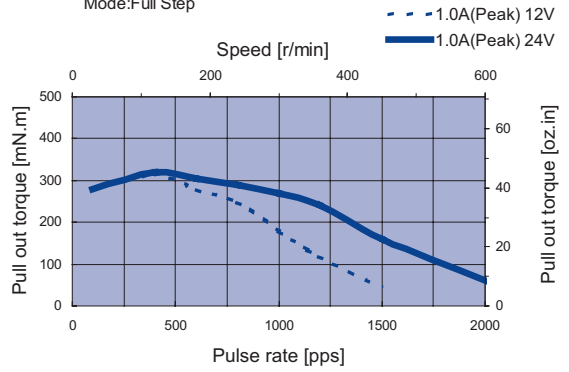
17HD2025N

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



17HD2026N

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.
(Ø57.2mm)

2.36in.
(60mm)

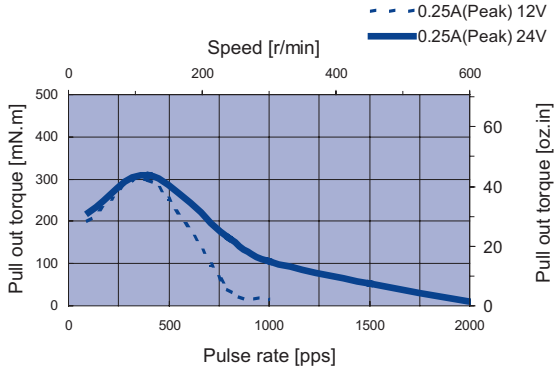
3.35in.
(85mm)

3.39in.
(Ø86mm)

Dynamic Torque Curves

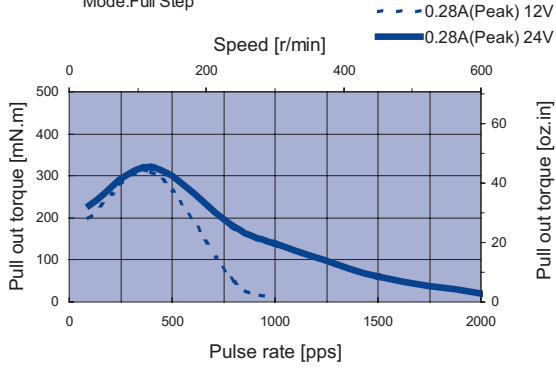
17HD2027N

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



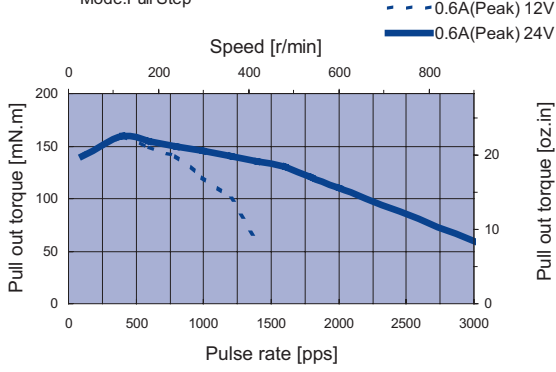
17HD2028N

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



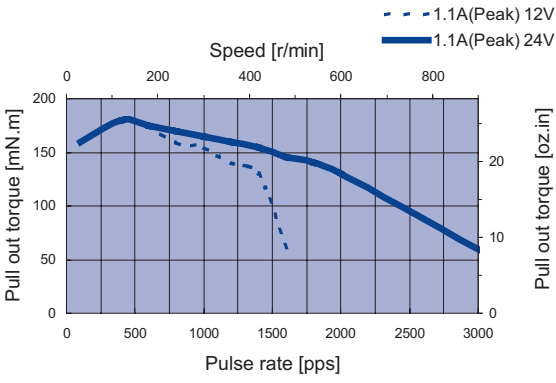
17HD4005-01N

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



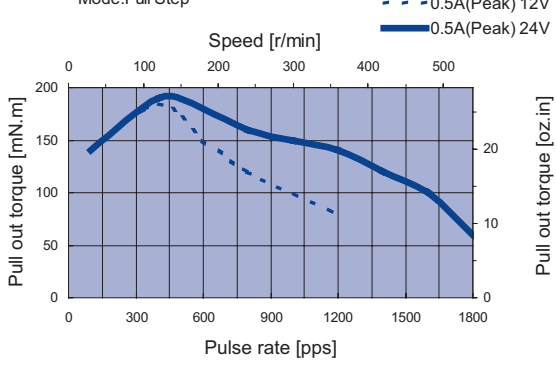
17HD4022-01N

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



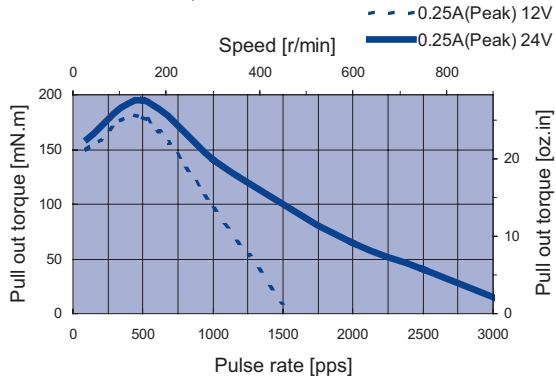
17HD4024N

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



17HD4025N

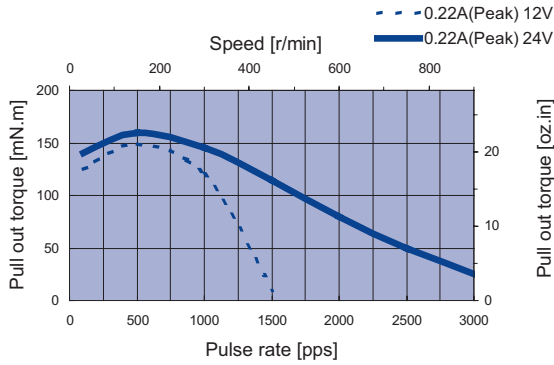
Conditions: Bi-polar Constant Current Driver
IC: AMA MS3540M
Mode: Full Step



Dynamic Torque Curves

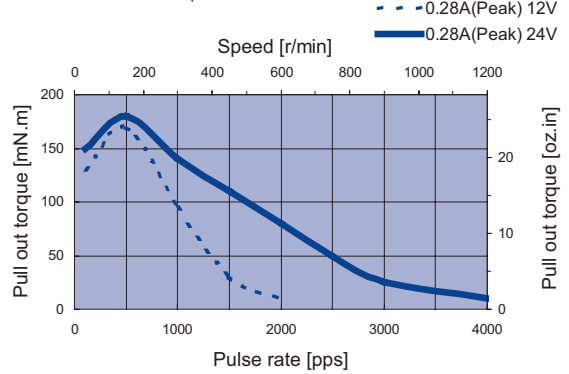
17HD4026N

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



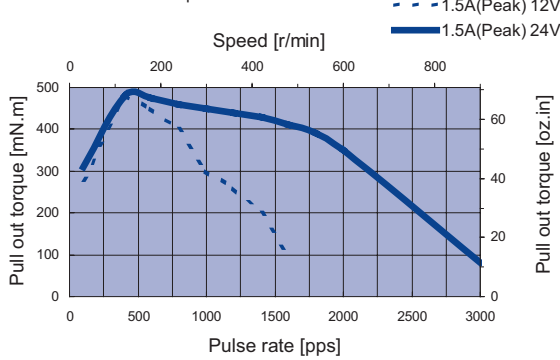
17HD4027N

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



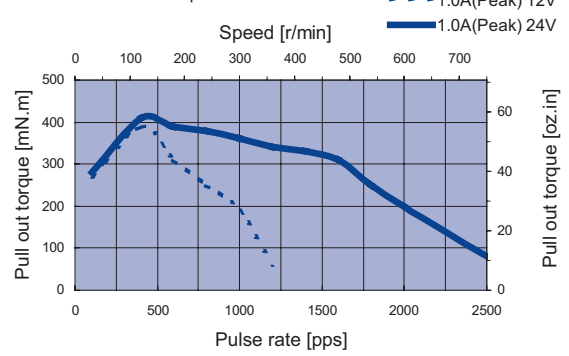
17HD6012N

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



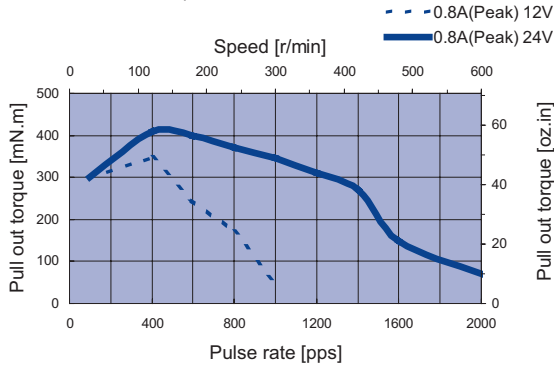
17HD6016N

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



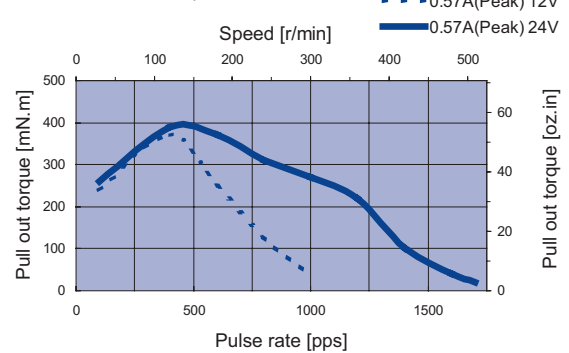
17HD6017N

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



17HD6018N

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)

Ø2.25in.
(Ø 57.2mm)

2.36in.
(□ 60mm)

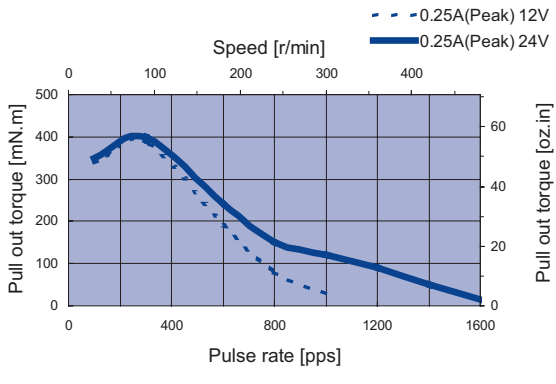
3.35in.
(□ 85mm)

Ø3.39in.
(Ø 86mm)

Dynamic Torque Curves

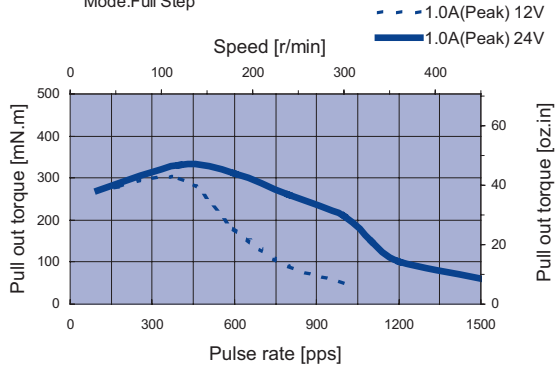
17HD6019N

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



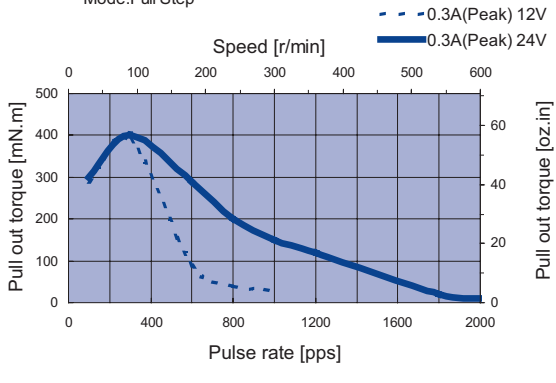
17HD6020N

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



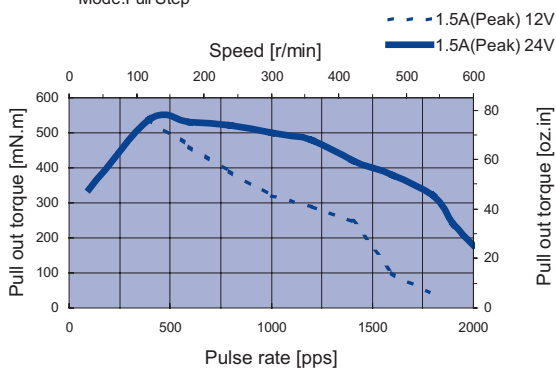
17HD6021N

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



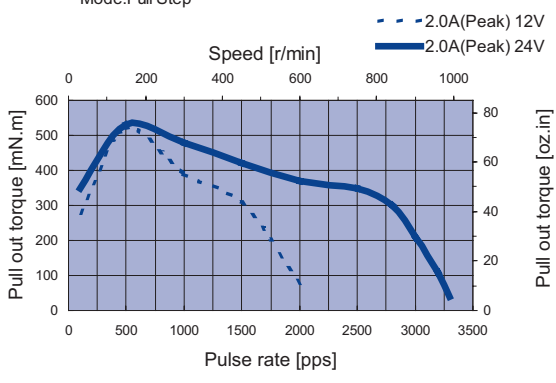
17HDB001N

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



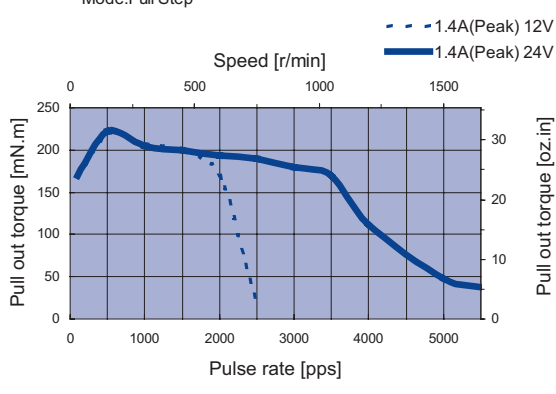
17HDB002N

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



17HD2032N

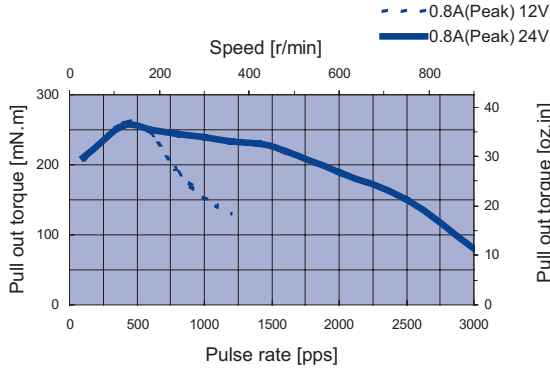
Conditions: Uni-polar Constant Current Driver
IC: AMA MSU3040M
Mode: Full Step



Dynamic Torque Curves

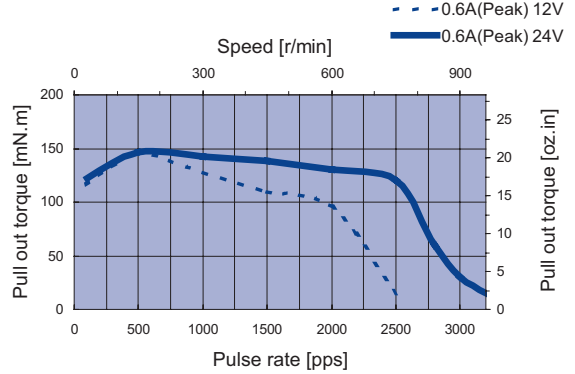
17HD2033N

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



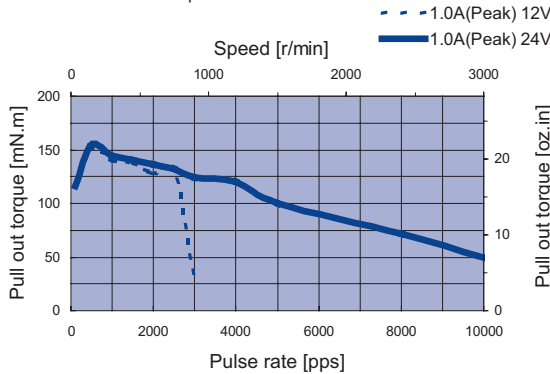
17HD4028N

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



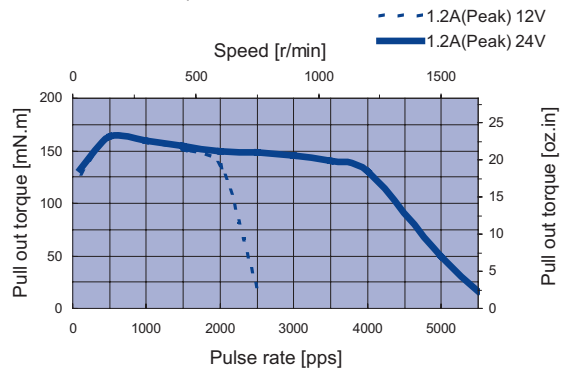
17HD4029N

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



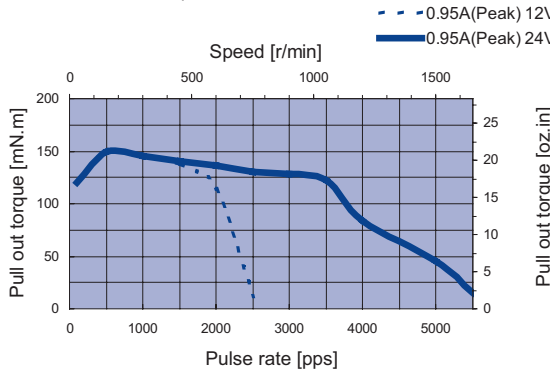
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Conditions: Uni-polar Constant Current Driver
 IC: AMA MSU3040M
 Mode: Full Step



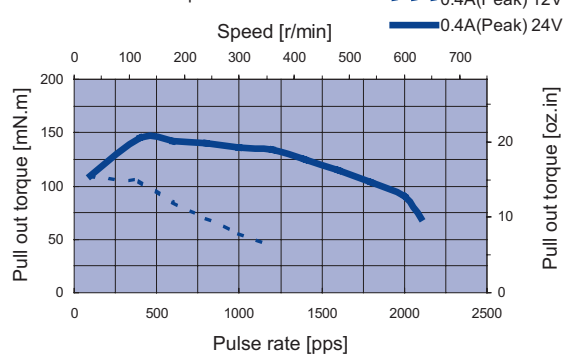
17HD4031N

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



17HD4032N

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)

2.25in.
(Ø57.2mm)

2.36in.
(60mm)

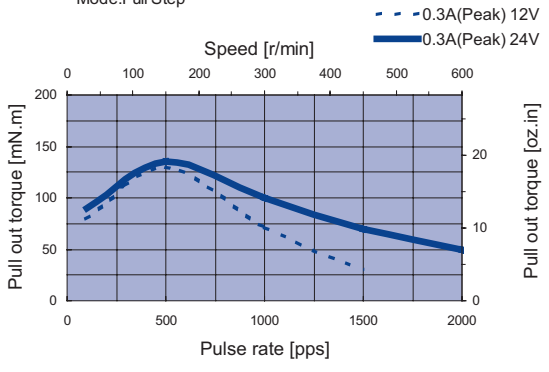
3.35in.
(85mm)

3.39in.
(Ø86mm)

Dynamic Torque Curves

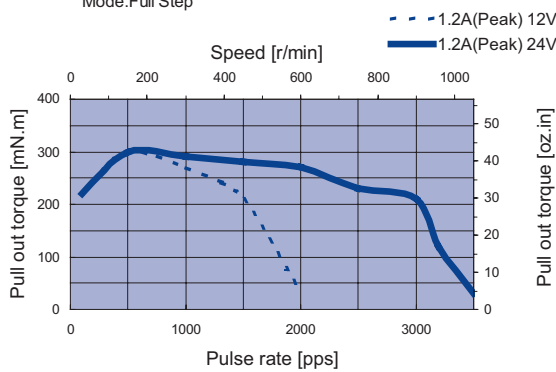
17HD4033N

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



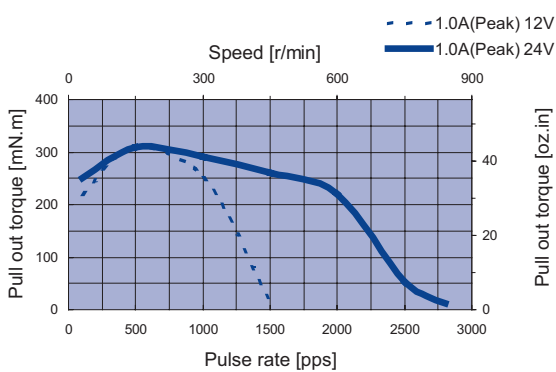
17HD6022N

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



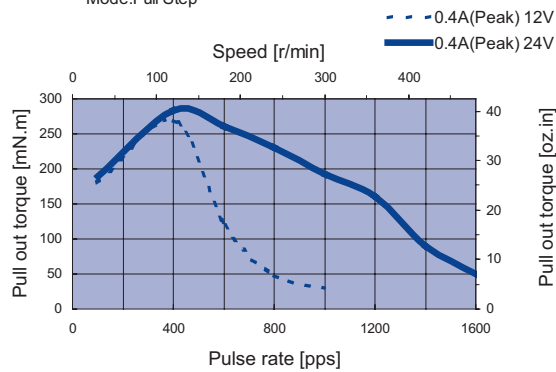
17HD6022N

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



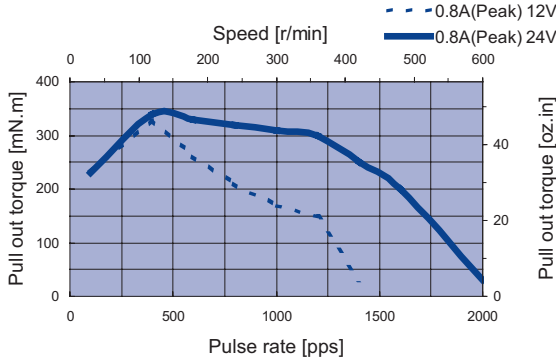
17HD6024N

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



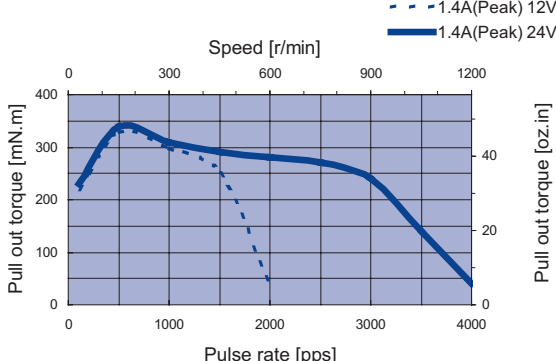
17HD6025N

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



17HD6026N

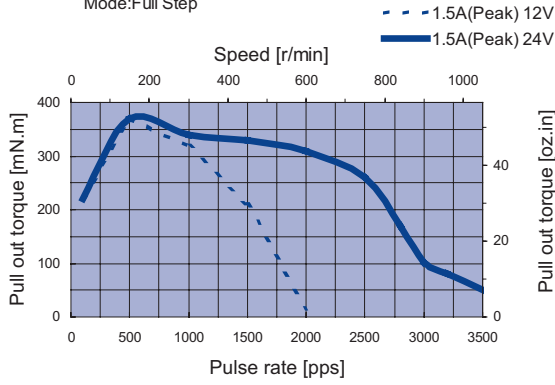
Conditions: Uni-polar Constant Current Driver
IC: AMA MSU3040M
Mode: Full Step



Dynamic Torque Curves

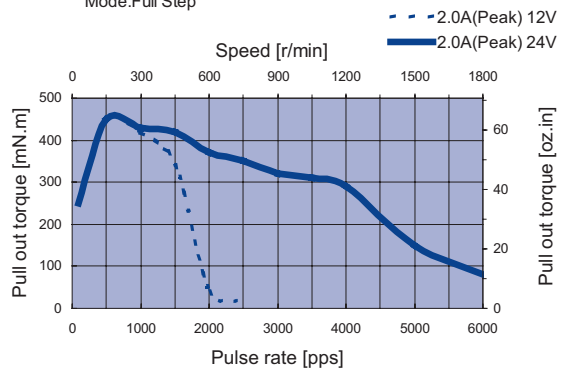
17HDB003N

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



17HDB004N

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)