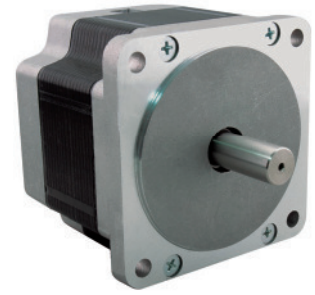


34HD SERIES 1.8°

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
34HD0401	4.4	29.6	1.4	2800	396.60	150	21.25	1100	6.05
34HD0402	2	13.2	2.1	2800	396.60	150	21.25	1100	6.05
34HD0403	0.96	5.8	3.18	2800	396.60	150	21.25	1100	6.05
34HD0404	0.24	1.45	6.3	2800	396.60	150	21.25	1100	6.05
34HD1401	6.6	56	1.4	5600	793.20	250	35.41	1850	10.18
34HD1402	3	24	2.1	5600	793.20	250	35.41	1850	10.18
34HD1403	1.32	10.8	3.18	5600	793.20	250	35.41	1850	10.18
34HD1404	0.33	2.7	6.3	5600	793.20	250	35.41	1850	10.18
34HD2401	7.6	70.4	1.4	8400	1189.80	350	49.58	2750	15.13
34HD2402	1.94	17.6	2.8	8400	1189.80	350	49.58	2750	15.13
34HD2403	0.49	4.4	5.6	8400	1189.80	350	49.58	2750	15.13

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
34HD0601	2.2	7.4	2	2100	297.45	150	21.25	1100	6.05
34HD0602	1	3.3	3	2100	297.45	150	21.25	1100	6.05
34HD0603	0.48	1.45	4.5	2100	297.45	150	21.25	1100	6.05
34HD1601	3.3	14	2	4300	609.07	250	35.41	1850	10.18
34HD1602	1.5	6	3	4300	609.07	250	35.41	1850	10.18
34HD1603	0.66	2.7	4.5	4300	609.07	250	35.41	1850	10.18
34HD2601	3.8	17.6	2	6400	906.52	350	49.58	2750	15.13
34HD2602	0.97	4.4	4	6400	906.52	350	49.58	2750	15.13

8-Leadwire Motors

Model Number	Type of Polar	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
34HD0801	Bi-polar Parallel	0.24	1.4	6.3	3100	439.09	150	21.25	1100	6.05
	Bi-polar Series	0.96	5.6	3.18	3100	439.09	150	21.25	1100	6.05
	Unipolar	0.48	1.4	4.5	2200	311.61	150	21.25	1100	6.05
34HD1801	Bi-polar Parallel	0.33	2.7	6.3	6200	878.19	250	35.41	1850	10.18
	Bi-polar Series	1.32	10.8	3.18	6200	878.19	250	35.41	1850	10.18
	Unipolar	0.66	2.7	4.5	4400	623.23	250	35.41	1850	10.18

□ 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°

DIGITAL LINEAR ACTUATOR

INTERGRATED STEPPING MOTOR

MOTOR DRIVER

2-PHASE

3-PHASE

INTERGRATED STEPPING MOTOR

MOTOR DRIVER

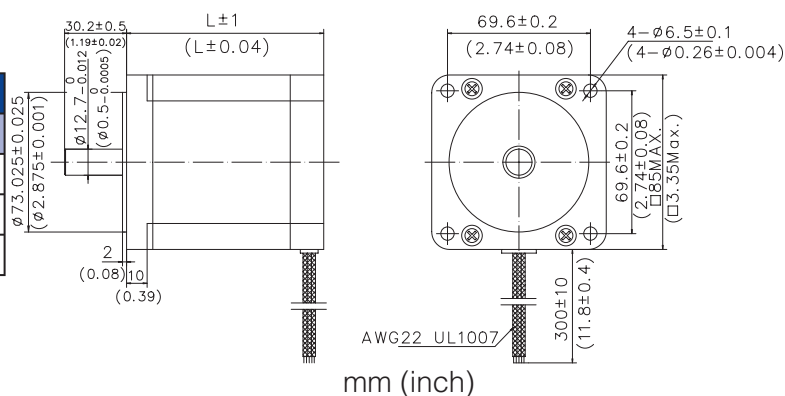
8-Leadwire Motors

Model Number	Type of Polar	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
34HD2801	Bi-polar Parallel	0.49	4.4	5.6	9300	1317.28	350	49.58	2750	15.13
	Bi-polar Series	1.94	17.6	2.8	9300	1317.28	350	49.58	2750	15.13
	Unipolar	0.97	4.4	4	6600	934.84	350	49.58	2750	15.13

Motor Wiring Diagram —> Page A-8

Mechanical Dimension

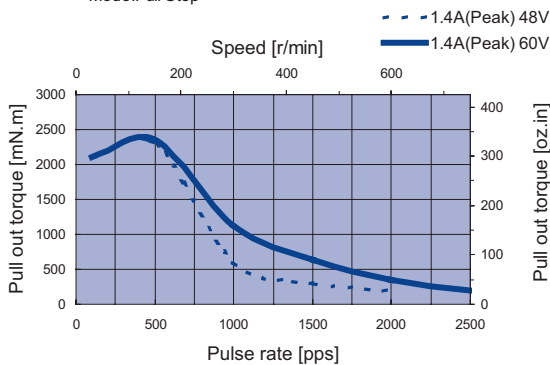
Model Number	L	Mass
	mm (in.)	kg (lb.)
34HD0**	66.5 (2.59)	1.6 (3.52)
34HD1**	96 (3.74)	2.7 (5.94)
34HD2**	125.5 (4.89)	3.8 (8.36)



Dynamic Torque Curves

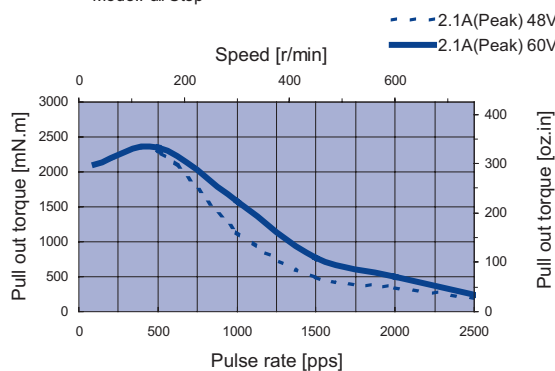
34HD0401 Bi-polar series

Conditions: Bi-polar Constant Current Driver
IC: AMA MS7080M
Mode: Full Step



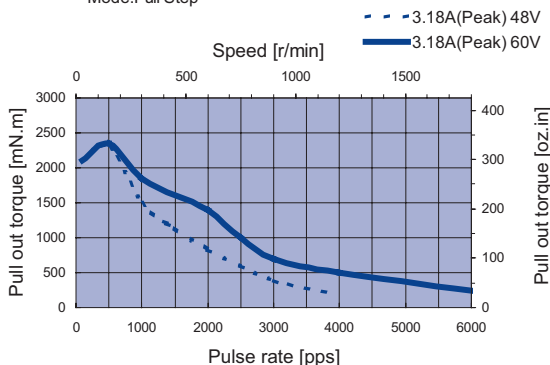
34HD0402 Bi-polar series

Conditions: Bi-polar Constant Current Driver
IC: AMA MS7080M
Mode: Full Step



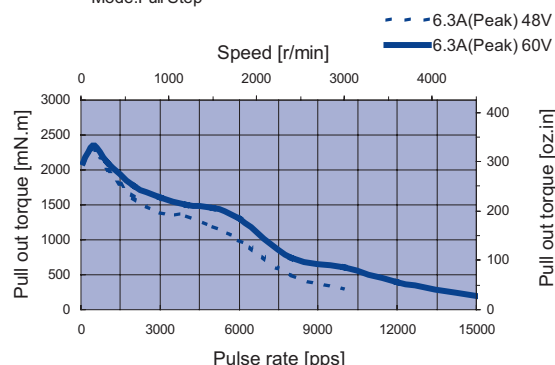
34HD0403 Bi-polar series

Conditions: Bi-polar Constant Current Driver
IC: AMA MS7080M
Mode: Full Step



34HD0404 Bi-polar parallel

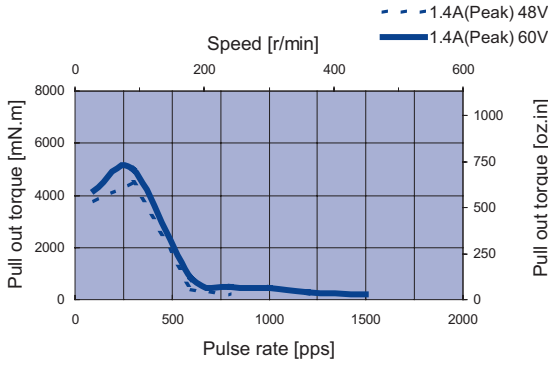
Conditions: Bi-polar Constant Current Driver
IC: AMA MS7080M
Mode: Full Step



Dynamic Torque Curves

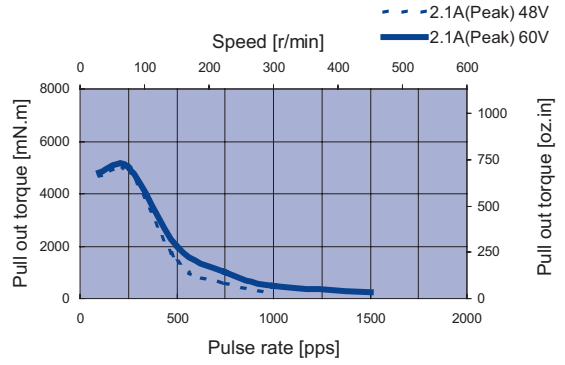
34HD1401 Bi-polar series

Conditions: Bi-polar Constant Current Driver
 IC: AMA MS7080M
 Mode: Full Step



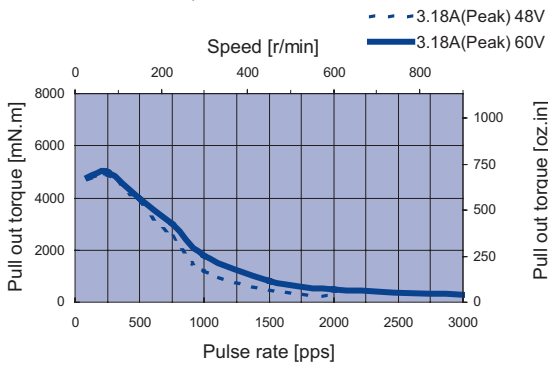
34HD1402 Bi-polar series

Conditions: Bi-polar Constant Current Driver
 IC: AMA MS7080M
 Mode: Full Step



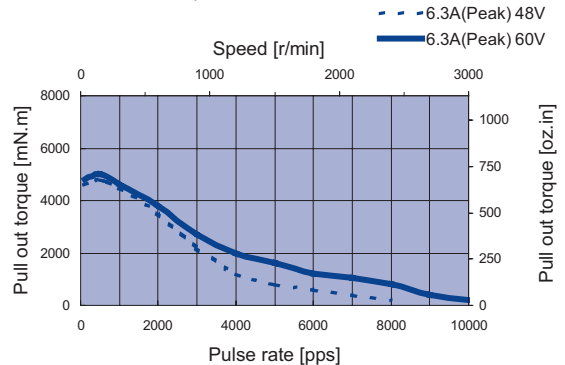
34HD1403 Bi-polar series

Conditions: Bi-polar Constant Current Driver
 IC: AMA MS7080M
 Mode: Full Step



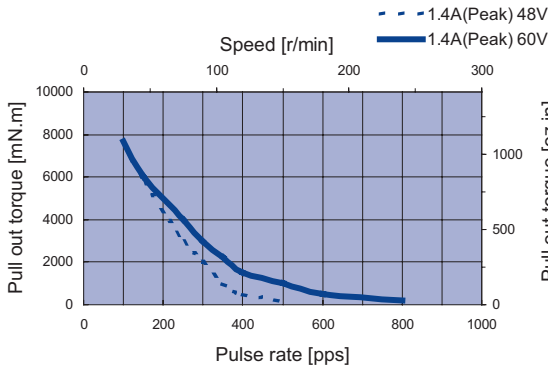
34HD1404 Bi-polar parallel

Conditions: Bi-polar Constant Current Driver
 IC: AMA MS7080M
 Mode: Full Step



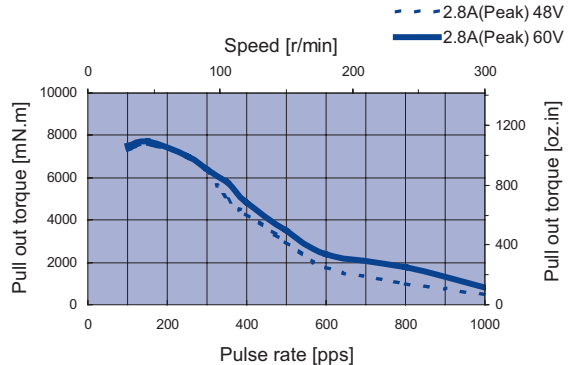
34HD2401 Bi-polar series

Conditions: Bi-polar Constant Current Driver
 IC: AMA MS7080M
 Mode: Full Step



34HD2402 Bi-polar series

Conditions: Bi-polar Constant Current Driver
 IC: AMA MS7080M
 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)

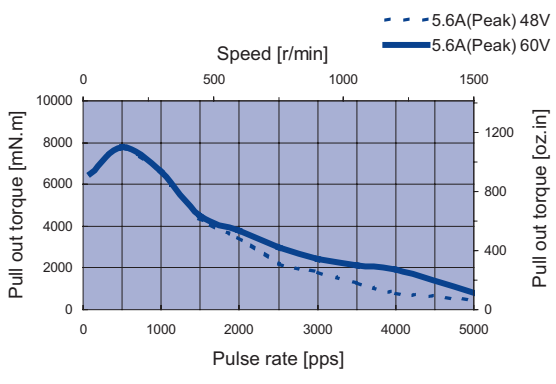
3.35in.
(85mm)

Ø3.39in.
(Ø86mm)

Dynamic Torque Curves

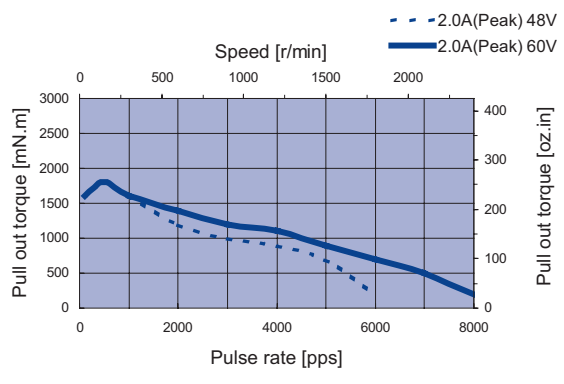
34HD2403 Bi-polar parallel

Conditions: Bi-polar Constant Current Driver
 IC: AMA MSU8080M
 Mode: Full Step



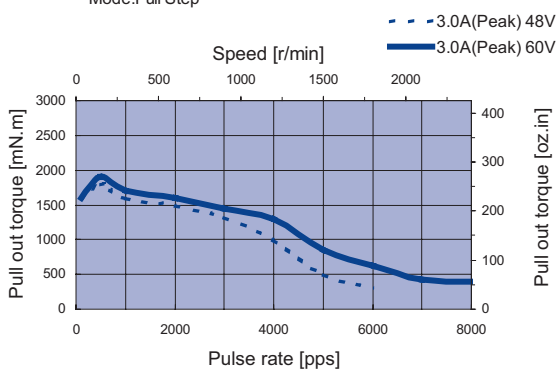
34HD0601 Uni-polar

Conditions: Uni-polar Constant Current Driver
 IC: AMA MSU8080M
 Mode: Full Step



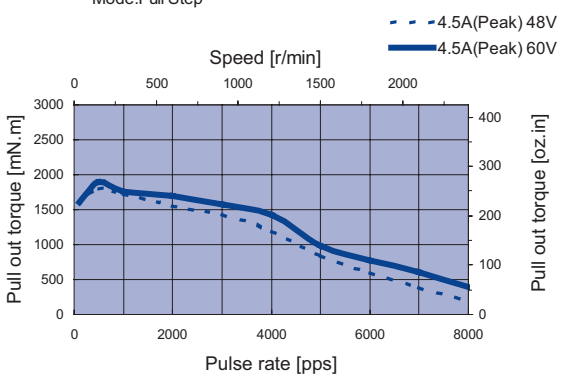
34HD0602 Uni-polar

Conditions: Uni-polar Constant Current Driver
 IC: AMA MSU8080M
 Mode: Full Step



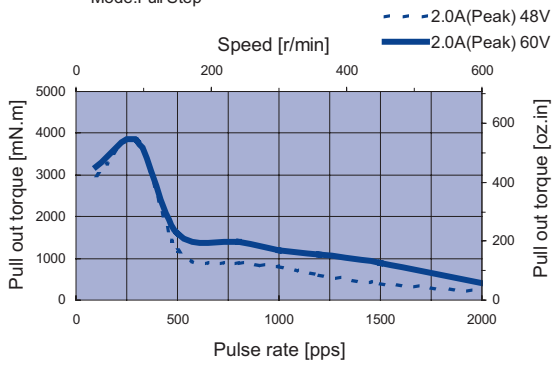
34HD0603 Uni-polar

Conditions: Uni-polar Constant Current Driver
 IC: AMA MSU8080M
 Mode: Full Step



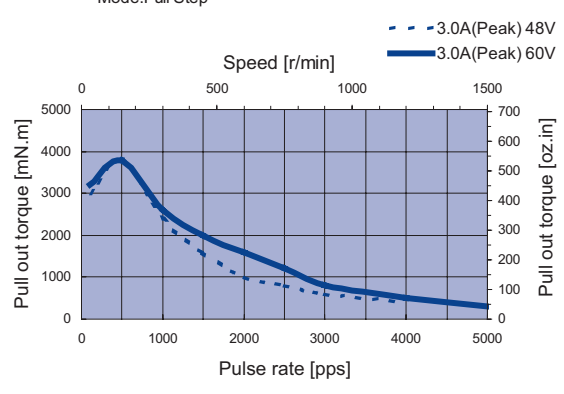
34HD1601 Uni-polar

Conditions: Uni-polar Constant Current Driver
 IC: AMA MSU8080M
 Mode: Full Step



34HD1602 Uni-polar

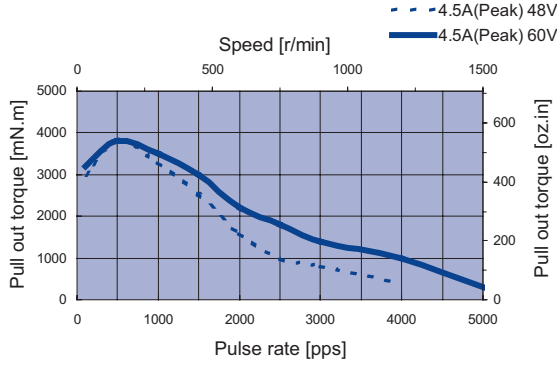
Conditions: Uni-polar Constant Current Driver
 IC: AMA MSU8080M
 Mode: Full Step



Dynamic Torque Curves

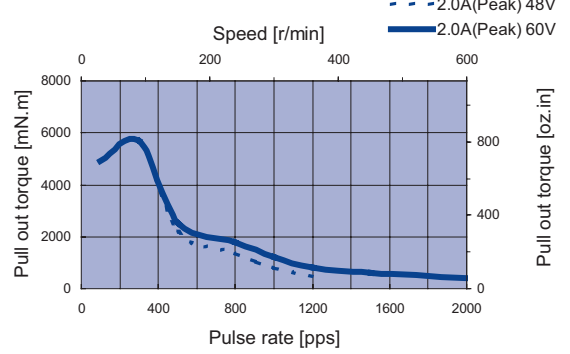
34HD1603 Uni-polar

Conditions: Uni-polar Constant Current Driver
 IC: AMA AMA MSU8080M
 Mode: Full Step



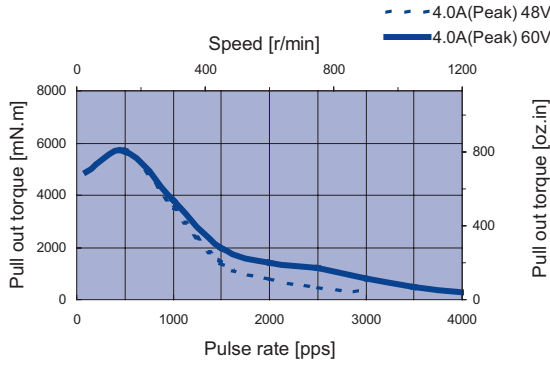
34HD2601 Uni-polar

Conditions: Uni-polar Constant Current Driver
 IC: AMA MSU8080M
 Mode: Full Step



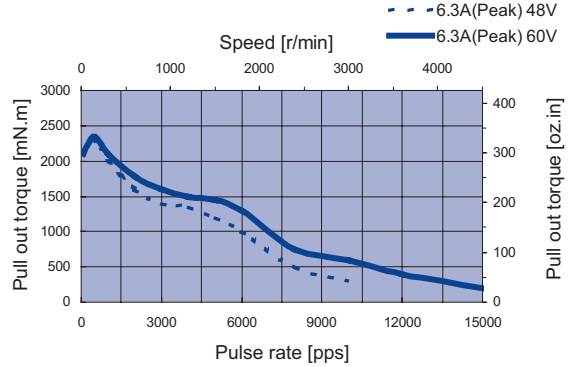
34HD2602 Uni-polar

Conditions: Uni-polar Constant Current Driver
 IC: AMA MSU8080M
 Mode: Full Step



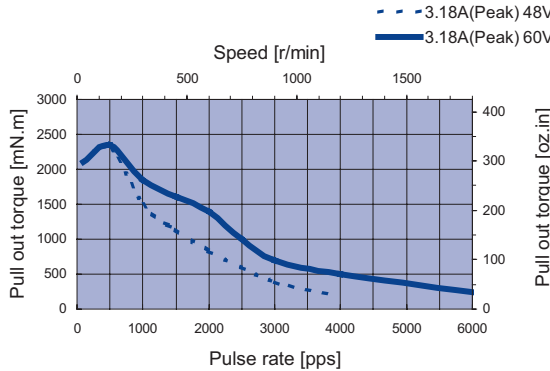
34HD0801 Bi-polar parallel

Conditions: Bi-polar Constant Current Driver
 IC: AMA MS7080M
 Mode: Full Step



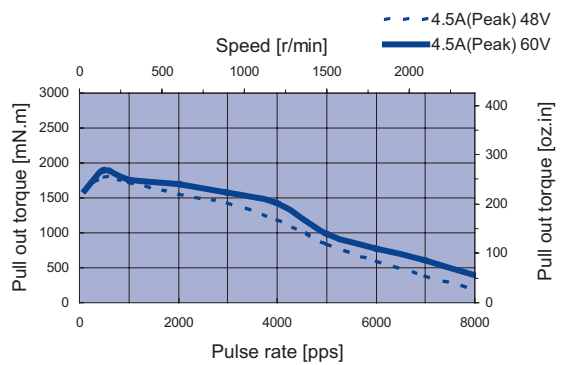
34HD0801 Bi-polar series

Conditions: Bi-polar Constant Current Driver
 IC: AMA MS7080M
 Mode: Full Step



34HD0801 Uni-polar

Conditions: Uni-polar Constant Current Driver
 IC: AMA AMA MSU8080M
 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)

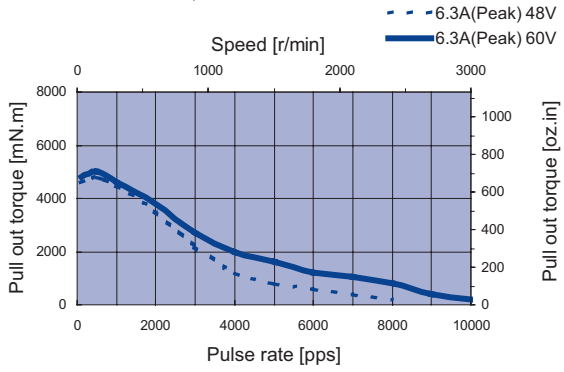
3.35in.
(85mm)

Ø3.39in.
(Ø86mm)

Dynamic Torque Curves

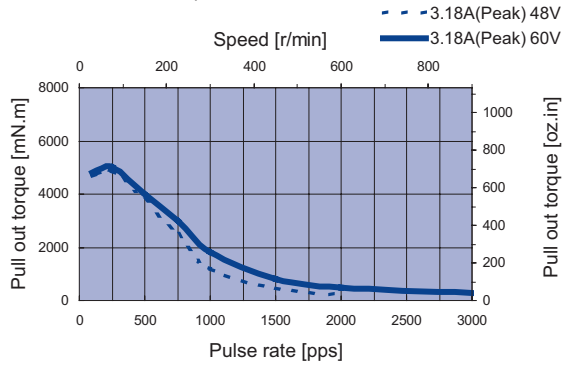
34HD1801 Bi-polar parallel

Conditions: Bi-polar Constant Current Driver
IC: AMA MS7080M
Mode: Full Step



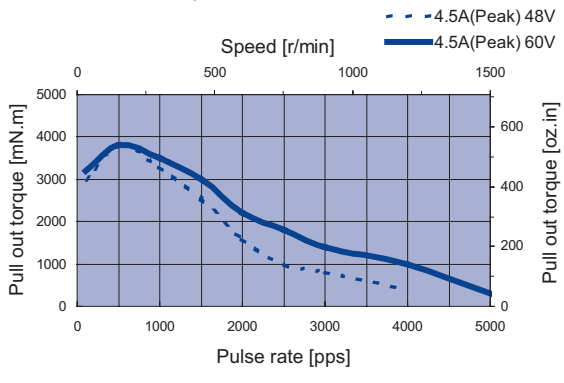
34HD1801 Bi-polar series

Conditions: Bi-polar Constant Current Driver
IC: AMA MS7080M
Mode: Full Step



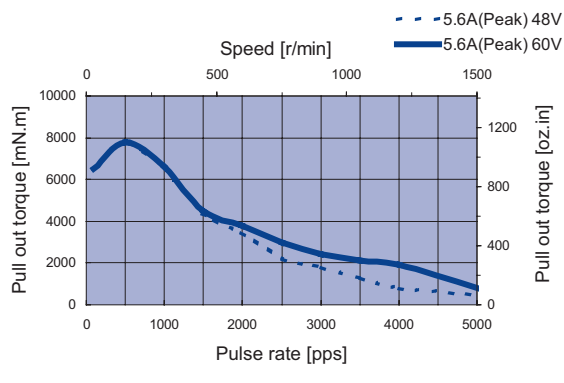
34HD1801 Uni-polar

Conditions: Uni-polar Constant Current Driver
IC: AMA MSU8080M
Mode: Full Step



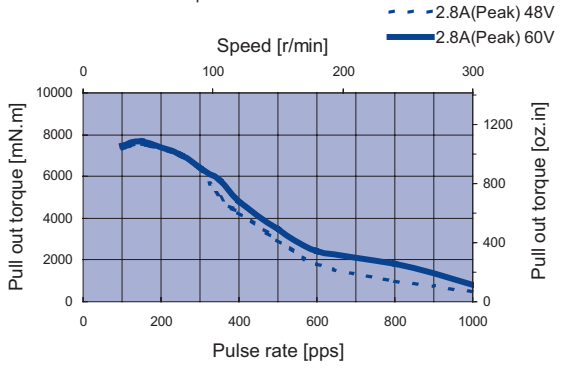
34HD2801 Bi-polar parallel

Conditions: Bi-polar Constant Current Driver
IC: AMA MS7080M
Mode: Full Step



34HD2801 Bi-polar series

Conditions: Bi-polar Constant Current Driver
IC: AMA MS7080M
Mode: Full Step



34HD2801 Uni-polar

Conditions: Uni-polar Constant Current Driver
IC: AMA MSU8080M
Mode: Full Step

