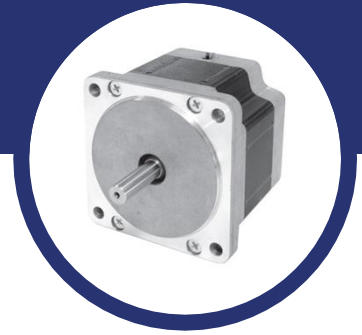


NEMA 34 Standard Hybrid Stepper Motor



Key Features

- High Torque
- High Accuracy
- Smooth Movement
- Step angle: 1.8°

General Specifications

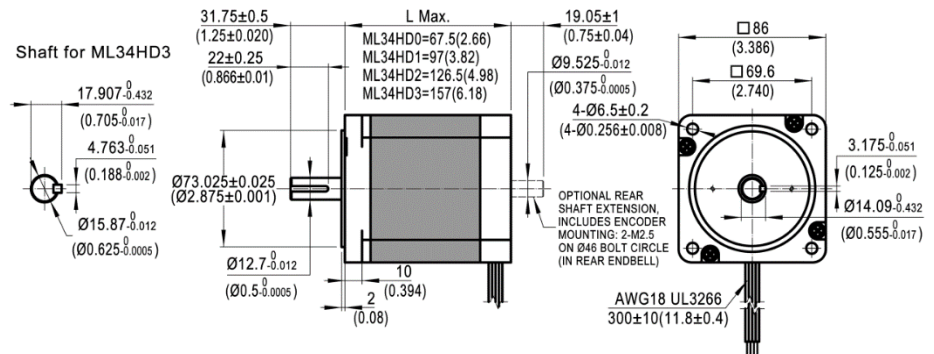
- Bi-polar

Part Number	Length (mm)	Connect P=Plug L=Leads	Holding Torque (mNm)	Resistance per Phase (Ω)	Inductance per Phase (mH)	Detent Torque (mNm)
ML34HD0L4160	67	L	3700	3.9	42	90
ML34HD0L4350	67	L	3800	0.95	9.5	90
ML34HD0L4350-E	67	L	3800	0.95	9.5	90
ML34HD0L4500	67	L	3800	0.48	4.5	90
ML34HD0L4500-E	67	L	3800	0.48	4.5	90
ML34HD0L4700	67	L	3800	0.26	2.4	90
ML34HD0L4700-E	67	L	3800	0.26	2.4	90
ML34HD0L4X00	67	L	3800	0.138	1.13	90
ML34HD1L4200	97	L	7200	3.6	50	150
ML34HD1L4350	97	L	7200	1.34	15.9	150
ML34HD1L4350-E	97	L	7200	1.34	15.9	150
ML34HD1L4500	97	L	7200	0.61	8	150
ML34HD1L4500-E	97	L	7200	0.61	8	150

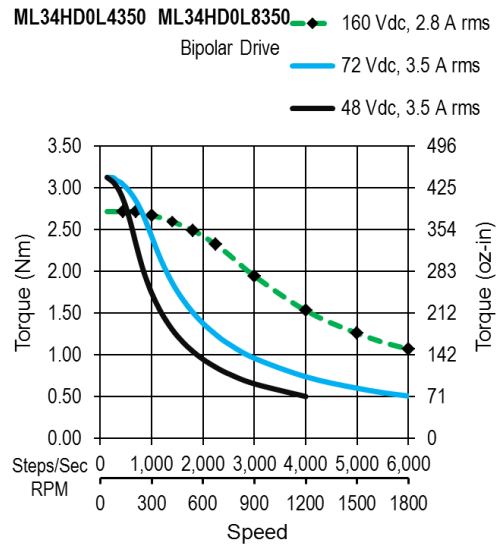
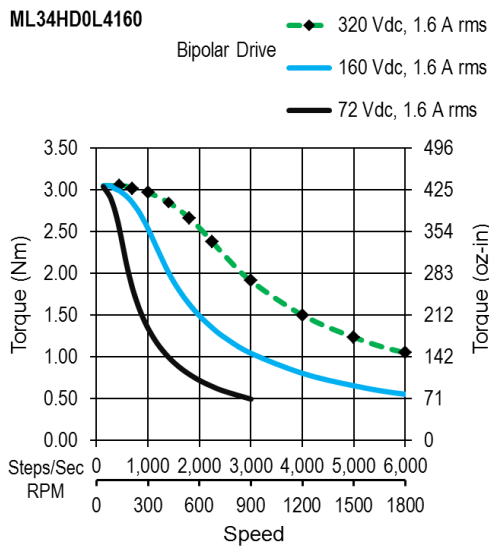
ML34HD1L4700	97	L	7200	0.36	4	150
ML34HD1L4700-E	97	L	7200	0.36	4	150
ML34HD1L4X00	97	L	7200	0.188	2	150
ML34HD2L4200	126	L	10000	4.1	63	200
ML34HD2L4350	126	L	9900	1.44	20	200
ML34HD2L4350-E	126	L	9900	1.44	20	200
ML34HD2L4500	126	L	9800	0.72	9.4	200
ML34HD2L4500-E	126	L	9800	0.72	9.4	200
ML34HD2L4700	126	L	9900	0.38	5	200
ML34HD2L4700-E	126	L	9900	0.38	5	200
ML34HD2L4X00	126	L	9800	0.22	2.3	200
ML34HD3L4230	157	L	1190	3.9	58	250
ML34HD3L4350	157	L	1190	1.81	25	250
ML34HD3L4500	157	L	1170	0.9	11.7	250
ML34HD3L4700	157	L	1190	0.47	6.3	250
ML34HD3L4X00	157	L	1170	0.24	2.9	250

Mechanical Dimensions

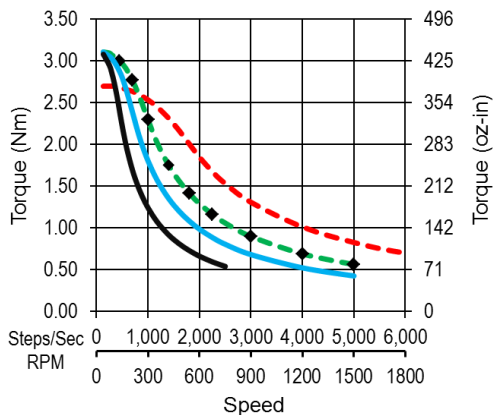
Series	L (mm)	Mass (kg)
ML34HD0	67	1.6
ML34HD1	97	2.7
ML34HD2	126	3.8
ML34HD3	157	4.9



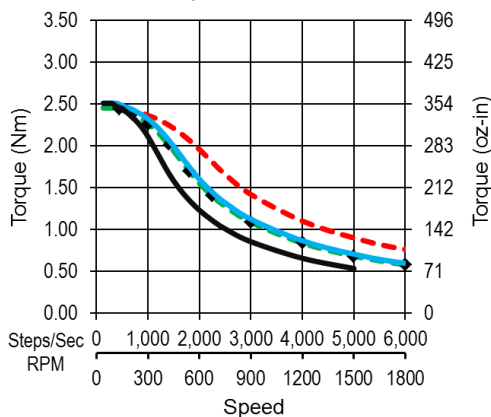
Dynamic Torque Curves



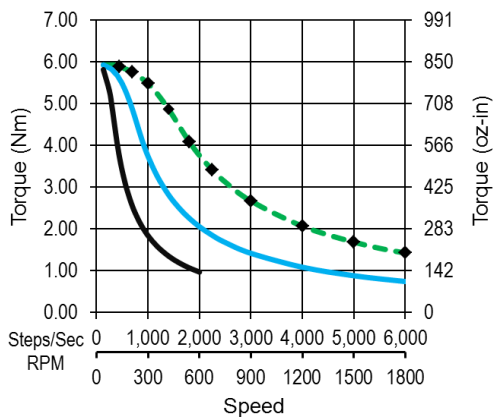
ML34HD0L4500 ML34HD0L8500 --- 72 Vdc, 4 A rms
 Bipolar Drive --- 48 Vdc, 5 A rms
 --- 36 Vdc, 5 A rms
 --- 24 Vdc, 5 A rms



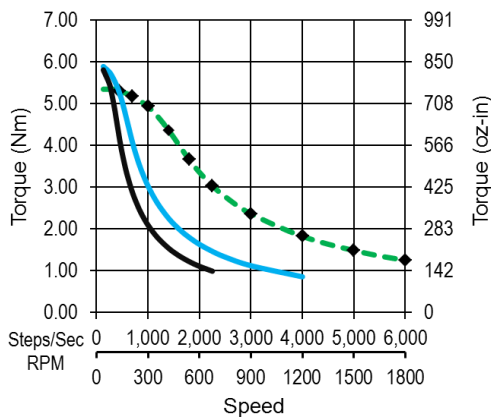
ML34HD0L4X00 ML34HD0L8500 --- 48 Vdc, 7 A rms
 Bipolar Drive --- 36 Vdc, 7 A rms
ML34HD0L4700 ML34HD0L8350 --- 48 Vdc, 5 A rms
 Bipolar Drive --- 36 Vdc, 5 A rms



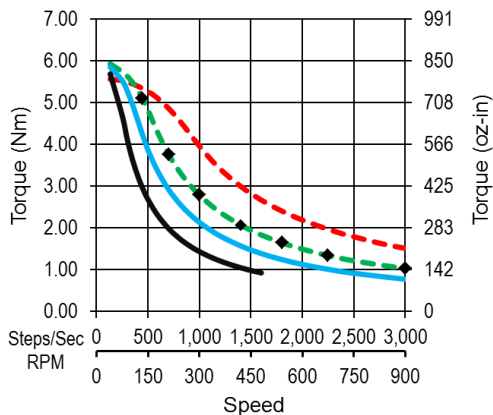
ML34HD1L4200 --- 320 Vdc, 2 A rms
 Bipolar Drive --- 160 Vdc, 2 A rms
 --- 72 Vdc, 2 A rms



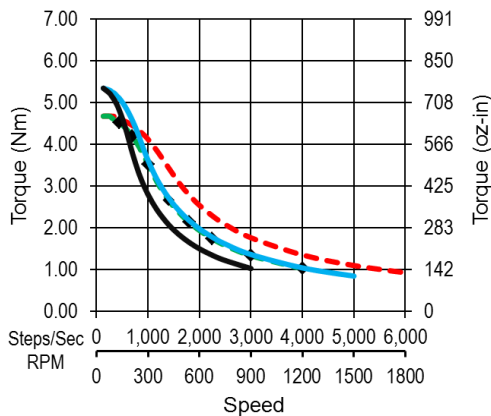
ML34HD1L4350 ML34HD1L8350 --- 160 Vdc, 3 A rms
 Bipolar Drive --- 72 Vdc, 3.5 A rms
 --- 48 Vdc, 3.5 A rms



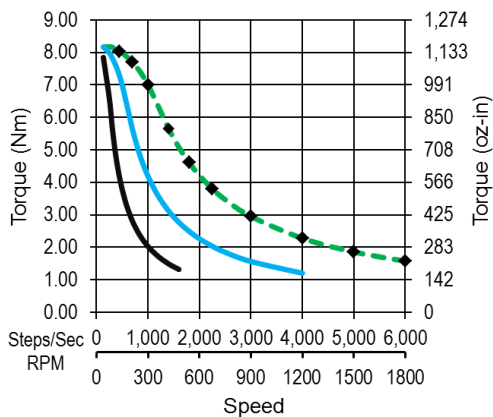
ML34HD1L4500 ML34HD1L8500 — 72 Vdc, 4.5 A rms
 Bipolar Drive — 48 Vdc, 5 A rms
 — 36 Vdc, 5 A rms
 — 24 Vdc, 5 A rms



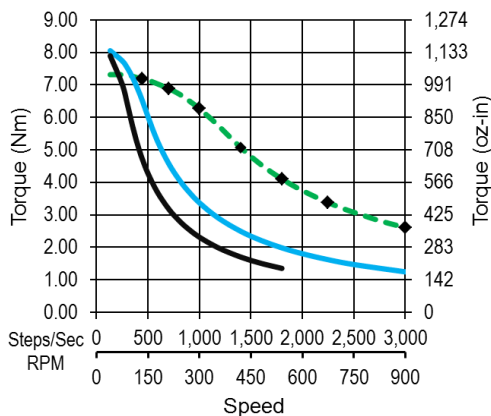
ML34HD1L4X00 ML34HD1L8500 — 48 Vdc, 7 A rms
 Bipolar Drive — 36 Vdc, 7 A rms
ML34HD1L4700 ML34HD1L8350 — 48 Vdc, 6 A rms
 Bipolar Drive — 36 Vdc, 6 A rms



ML34HD2L4200 — 320 Vdc, 2 A rms
 Bipolar Drive — 160 Vdc, 2 A rms
 — 72 Vdc, 2 A rms



ML34HD2L4350 ML34HD2L8350 — 160 Vdc, 3 A rms
 Bipolar Drive — 72 Vdc, 3.5 A rms
 — 48 Vdc, 3.5 A rms

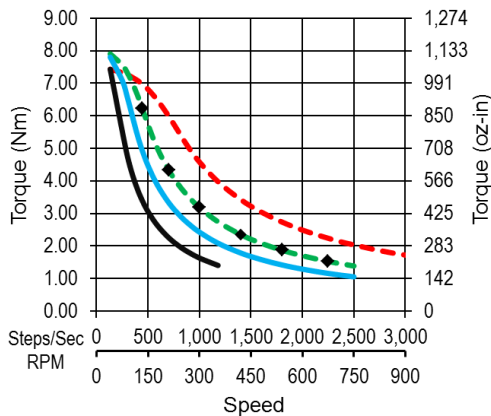


ML34HD2L4500 ML34HD2L8500 --- 72 Vdc, 4.5 A rms

Bipolar Drive ◆ 48 Vdc, 5 A rms

— 36 Vdc, 5 A rms

— 24 Vdc, 5 A rms

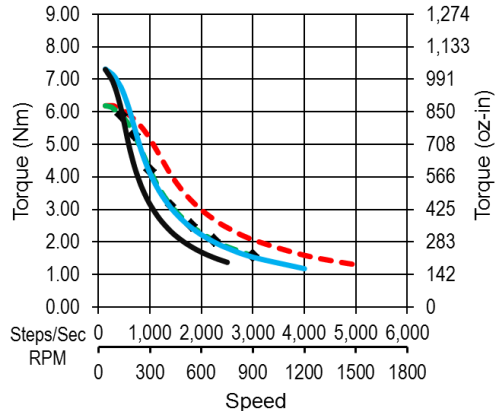


ML34HD2L4X00 ML34HD2L8500 --- 48 Vdc, 7 A rms

Bipolar Drive ◆ 36 Vdc, 7 A rms

ML34HD2L4700 ML34HD2L8350 --- 48 Vdc, 6 A rms

Bipolar Drive — 36 Vdc, 6 A rms

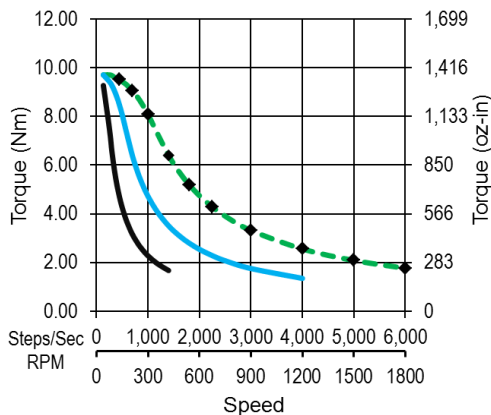


ML34HD3L4230

◆ 320 Vdc, 2.3 A rms

Bipolar Drive — 160 Vdc, 2.3 A rms

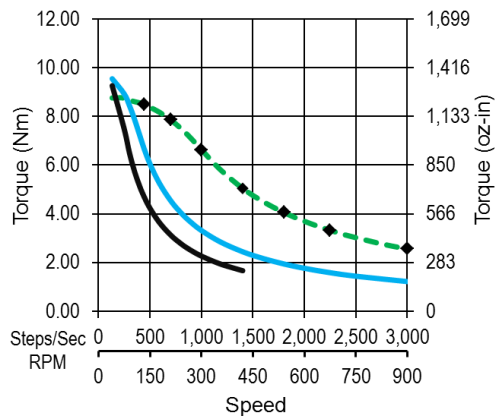
— 72 Vdc, 2.3 A rms



ML34HD3L4350 ML34HD3L8350 ◆ 160 Vdc, 3 A rms

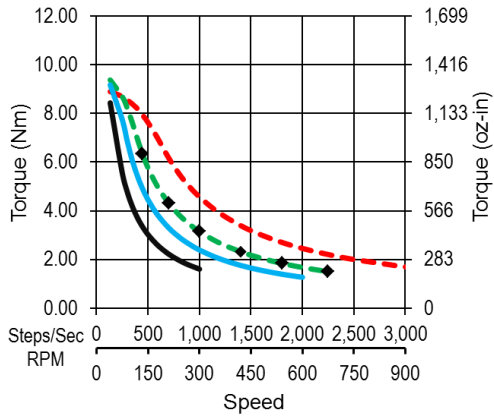
Bipolar Drive — 72 Vdc, 3.5 A rms

— 48 Vdc, 3.5 A rms



ML34HD3L4500 ML34HD3L8500

- 72 Vdc, 4.5 A rms
- Bipolar Drive 48 Vdc, 5 A rms
- 36 Vdc, 5 A rms
- 24 Vdc, 5 A rms



ML34HD3L4X00 ML34HD3L8500

- 48 Vdc, 7 A rms
- Bipolar Drive 36 Vdc, 7 A rms
- ML34HD3L4700 ML34HD3L8350 48 Vdc, 6 A rms
- Bipolar Drive 36 Vdc, 6 A rms

