

ML34HD / PL34HD Series: 1.8° - Size 34



- Phases 2
- Steps / Revolution 200
- Step Accuracy ±5%
- Shaft Load (20,000 Hours at 1000 RPM)
 - Axial 65 N (15 Lbs.) Push
155 N (35 Lbs.) Pull
 - Radial 220 N (50 Lbs.) At Flat Center
- IP Rating 40
- Approvals UL Recognized File E465363, RoHS
- Operating Temp. -20°C to +50°C
- Insulation Class B, 130°C

M L34HD 0 L 8 350 -E

Motor Technology		Options	
M	High Torque Step Motor	Omit	No Options
P	PowerPlus Step Motor	-E	0.375 inch Diameter Rear Shaft with Encoder Mounting Holes
Basic Motor Length (Max)		Winding	
0	67mm (2.64 in.) 1 Stack	###	Current rating x 100
1	97mm (3.82 in.) 2 Stack	X##	for 11 to 19 amps:
2	126mm (4.96 in.) 3 Stack		X10= 11 amps, X40 = 14 amps
3	157mm (6.18 in.) 4 Stack	Number of Connections	
L	Leads	4	4 Lead-Bipolar
		8	8 Lead-Unipolar(or Bipolar)

ML34HD – 4 Lead & 8 Lead

Length	Model Number	Connect	Rated Current	Holding Torque		Winding		Detent Torque		Rotor Inertia		Motor Weight	
				Amps (mounted)	Nm Typ.	oz-in TYP.	±10% @20 C	Typ.	mNm	oz-in	g cm ²	oz-in ²	kg
67 mm (2.64 in.) 1 Stack	ML34HD0L4160	L	1.6	3.70	520	3.9	42	90	13	940	5.1	1.6	3.5
	ML34HD0L4350	L	3.5	3.80	540	0.95	9.5						
	ML34HD0L4500	L	5	3.80	540	0.48	4.5						
	ML34HD0L4700	L	7	3.80	540	0.26	2.4						
	ML34HD0L4X00	L	10	3.80	540	0.138	1.13						
97 mm (3.82 in.) 2 Stack	ML34HD1L4200	L	2	7.20	1,000	3.6	50	150	21	1570	8.6	2.7	6
	ML34HD1L4350	L	3.5	7.20	1,000	1.34	15.9						
	ML34HD1L4500	L	5	7.20	1,000	0.61	8						
	ML34HD1L4700	L	7	7.20	1,000	0.36	4						
	ML34HD1L4X00	L	10	7.20	1,000	0.188	2						
126 mm (4.96 in.) 3 Stack	ML34HD2L4200	L	2	10.00	1,400	4.1	63	200	28	2340	13	3.8	8.4
	ML34HD2L4350	L	3.5	9.90	1,400	1.44	20						
	ML34HD2L4500	L	5	9.80	1,400	0.72	9.4						
	ML34HD2L4700	L	7	9.90	1,400	0.38	5						
	ML34HD2L4X00	L	10	9.80	1,400	0.22	2.3						
157 mm (6.18 in.) 4 Stack	ML34HD3L4230	L	2.3	11.90	1,700	3.9	58	250	35	3110	17	4.9	11
	ML34HD3L4350	L	3.5	11.90	1,700	1.81	25						
	ML34HD3L4500	L	5	11.70	1,700	0.9	11.7						
	ML34HD3L4700	L	7	11.90	1,700	0.47	6.3						
	ML34HD3L4X00	L	10	11.70	1,700	0.24	2.9						

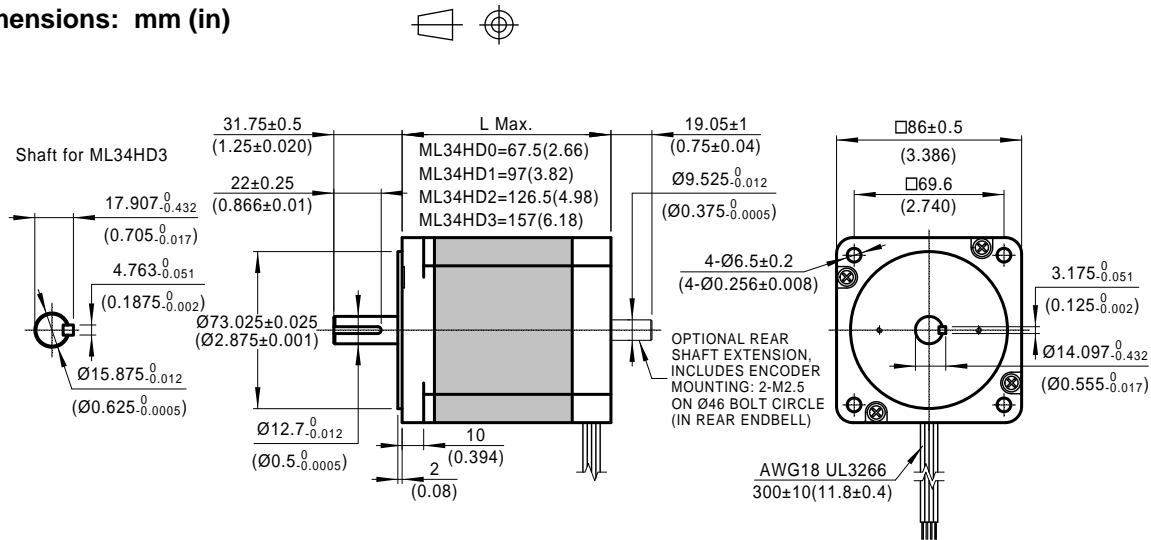
67 mm (2.64 in.) 1 Stack	ML34HD0L8350	L Series L Parallel	3.5 7	3.80 3.80	540 540	0.98 0.25	9.5 2.4	90	13	940	5.1	1.6	3.5
	ML34HD0L8500	L Series L Parallel	5 10	3.80 3.80	540 540	0.5 0.126	4.5 1.13						
97 mm (3.82 in.) 2 Stack	ML34HD1L8350	L Series L Parallel	3.5 7	7.20 7.20	1,000 1,000	1.37 0.34	15.9 4	150	21	1570	8.6	2.7	6
	ML34HD1L8500	L Series L Parallel	5 10	7.20 7.20	1,000 1,000	0.71 0.177	8 2						
126 mm (4.96 in.) 3 Stack	ML34HD2L8350	L Series L Parallel	3.5 7	9.90 9.90	1,400 1,400	1.48 0.37	20 5	200	28	2340	13	3.8	8.4
	ML34HD2L8500	L Series L Parallel	5 10	9.80 9.80	1,400 1,400	0.82 0.21	9.4 2.3						
157 mm (6.18 in.) 4 Stack	ML34HD3L8350	L Series L Parallel	3.5 7	11.90 11.90	1,700 1,700	1.85 0.46	25 6.3	250	35	3110	17	4.9	11
	ML34HD3L8500	L Series L Parallel	5 10	11.70 11.70	1,700 1,700	0.92 0.23	11.7 2.9						

2 Phase Step Motors

3 Phase Step Motors

Technical

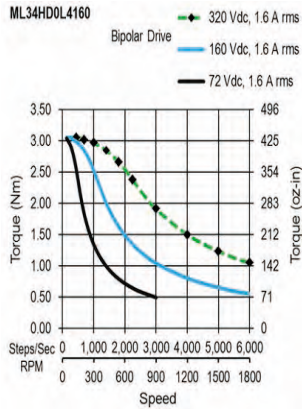
Dimensions: mm (in)



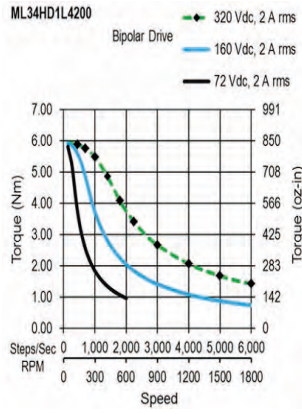
PL34HD – PowerPlus – 4 Lead & 8 Lead

Length	Model Number	Connect	Rated Current	Holding Torque		Winding Ohms mH		Detent Torque		Rotor Inertia		Motor Weight	
				Amps (mounted)	Nm Typ.	oz-in TYP.	±10% @20 C	Typ.	mNm	oz-in	g cm ²	oz-in ²	kg
67 mm (2.64 in.) 1 Stack	^ PL34HD0L4160	L	1.6	4.70	670	3.9	33	135	19	940	5.1	1.6	3.5
	PL34HD0L4350	L	3.5	4.75	670	0.95	7.6						
	PL34HD0L4500	L	5	4.75	670	0.48	3.6						
	PL34HD0L4700	L	7	4.75	670	0.26	1.89						
	PL34HD0L4X00	L	10	4.75	670	0.138	0.91						
97 mm (3.82 in.) 2 Stack	^ PL34HD1L4200	L	2	9.20	1,300	3.6	40	225	32	1570	8.6	2.7	6
	PL34HD1L4350	L	3.5	9.00	1,300	1.34	12.8						
	PL34HD1L4500	L	5	9.00	1,300	0.61	6.4						
	PL34HD1L4700	L	7	9.00	1,300	0.36	3.2						
	PL34HD1L4X00	L	10	9.00	1,300	0.188	1.6						
126 mm (4.96 in.) 3 Stack	^ PL34HD2L4200	L	2	12.70	1,800	4.1	51	300	42	2340	13	3.8	8.4
	PL34HD2L4350	L	3.5	12.38	1,800	1.44	16.1						
	PL34HD2L4500	L	5	12.25	1,700	0.72	7.5						
	PL34HD2L4700	L	7	12.38	1,800	0.38	4						
	PL34HD2L4X00	L	10	12.25	1,700	0.22	1.87						
157 mm (6.18 in.) 4 Stack	^ PL34HD3L4230	L	2.3	15.00	2,100	3.9	47	375	53	3110	17	4.9	11
	PL34HD3L4350	L	3.5	15.00	2,100	1.81	20						
	PL34HD3L4500	L	5	15.00	2,100	0.9	9.4						
	PL34HD3L4700	L	7	15.00	2,100	0.47	5						
	PL34HD3L4X00	L	10	15.00	2,100	0.24	2.3						
67 mm (2.64 in.) 1 Stack	^ PL34HD0L8350	L Series L Parallel	3.5 7	4.75 4.75	670 670	0.98 0.25	7.6 1.89	135	19	940	5.1	1.6	3.5
	^ PL34HD0L8500	L Series L Parallel	5 10	4.75 4.75	670 670	0.5 0.126	3.6 0.91						
97 mm (3.82 in.) 2 Stack	^ PL34HD1L8350	L Series L Parallel	3.5 7	9.00 9.00	1,300 1,300	1.37 0.34	12.8 3.2	225	32	1570	8.6	2.7	6
	^ PL34HD1L8500	L Series L Parallel	5 10	9.00 9.00	1,300 1,300	0.71 0.177	6.4 1.6						
126 mm (4.96 in.) 3 Stack	^ PL34HD2L8350	L Series L Parallel	3.5 7	12.38 12.38	1,800 1,800	1.48 0.37	16.1 4	300	42	2340	13	3.8	8.4
	^ PL34HD2L8500	L Series L Parallel	5 10	12.25 12.25	1,700 1,700	0.82 0.21	7.5 1.87						
157 mm (6.18 in.) 4 Stack	^ PL34HD3L8350	L Series L Parallel	3.5 7	15.00 15.00	2,100 2,100	1.85 0.46	20 5	375	53	3110	17	4.9	11
	^ PL34HD3L8500	L Series L Parallel	5 10	15.00 15.00	2,100 2,100	0.92 0.23	9.4 2.3						

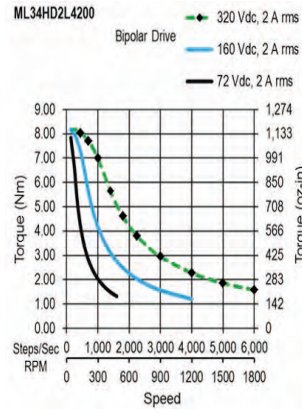
ML34HD0



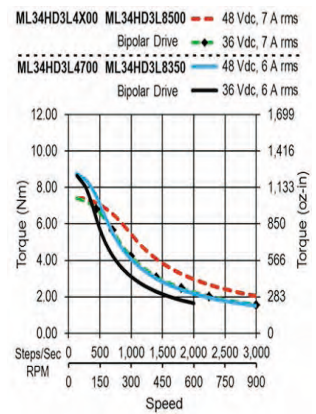
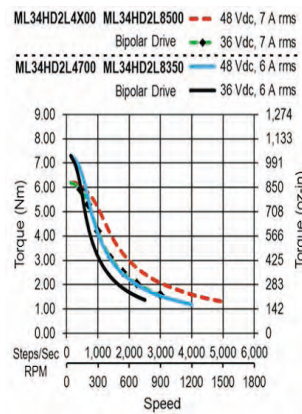
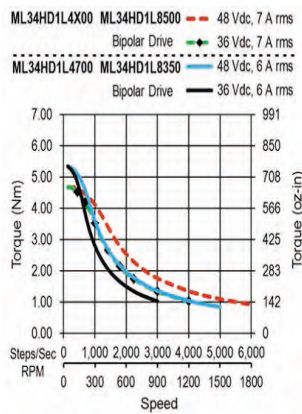
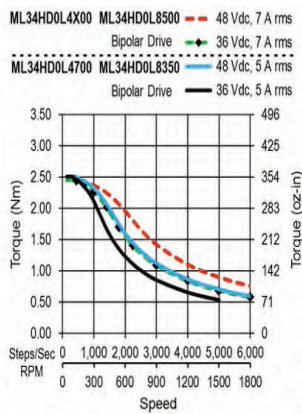
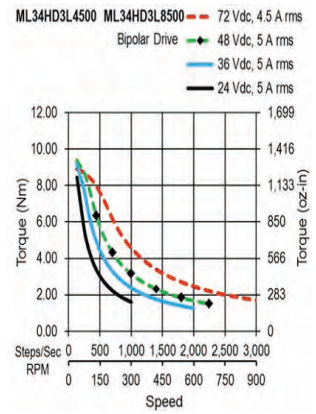
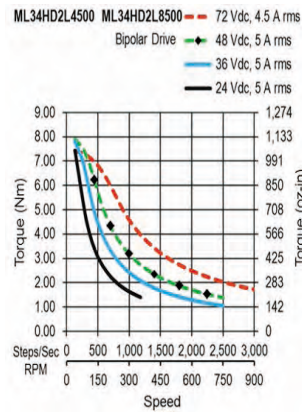
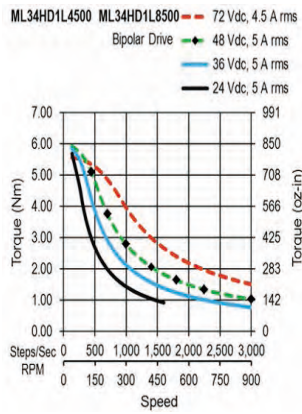
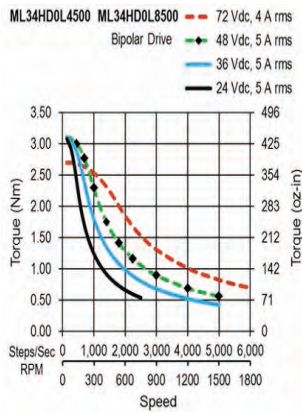
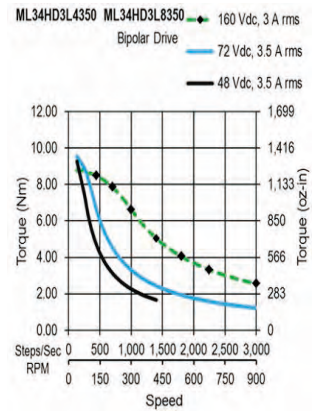
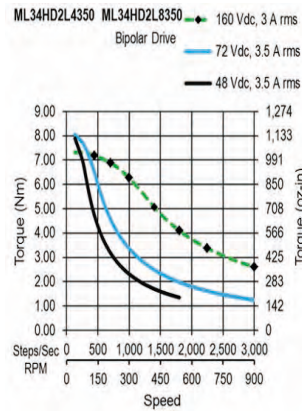
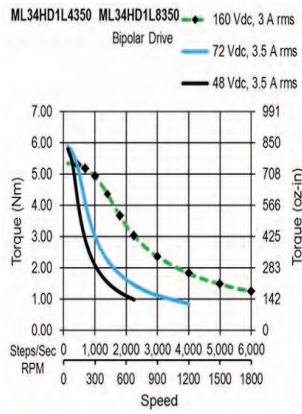
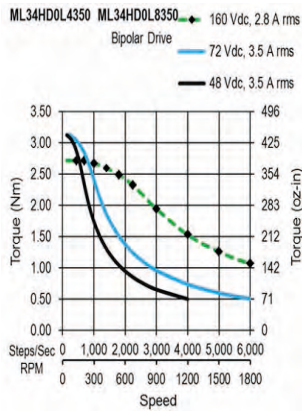
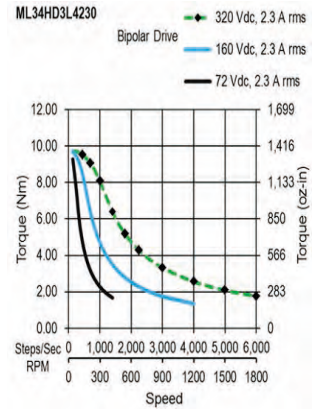
ML34HD1



ML34HD2



ML34HD3



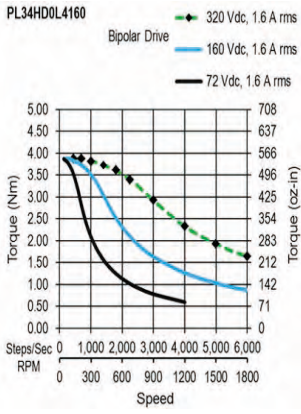
MOONS Technology

2 Phase Step Motors

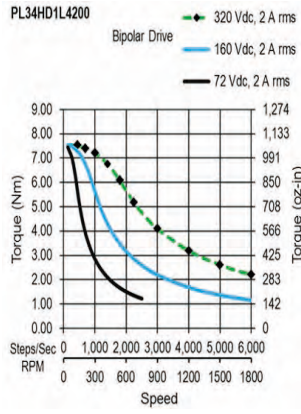
3 Phase Step Motors

Technical

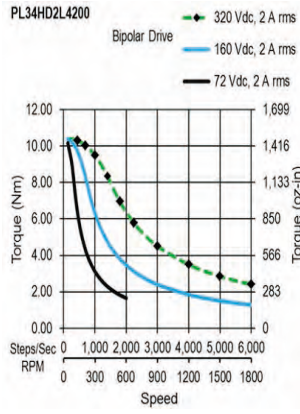
PL34HD0



PL34HD1



PL34HD2



PL34HD3

