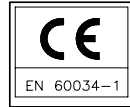


# LK56 High Performance Step Motor

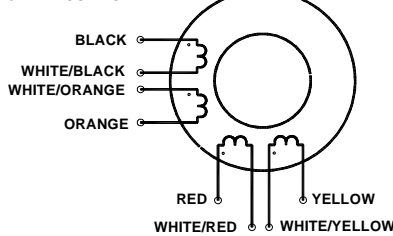
- 3.38 Inch Square (86 mm) NEMA 34 Motor
- High Torque per Volume w/ High Stepping Rate
- Multiple Winding Configuration for Unipolar and Bipolar connections
- 1.8 Degree Step Angle (200 Full Steps / Rev)
- Ideal for 1/2 Step and Microstepping
- Single and Double Shaft (Encoder Ready) Configurations
- Nema Class B Insulation
- Optional Encoders and NEMA 34 "Bolt On" Brakes & Gearheads



Catalog Number		Number of Leads	Phase Connection Types	Holding Torque		Voltage / phase Vdc	Current Rated / ph Ip Amps DC	Phase Res. Rt Ohms	Phase Ind. L mH	Inertia		Weight		Length	
Double	Single			2 Phases On	Th - Minimum					Ncm	oz-in	Jm	oz-in-s <sup>2</sup>	kg	lb
LK 56 320	LK 56 323	8	Parallel Series Unipolar	319	452	4.9	2.0	2.50	21.0	660	0.00935	1.7	3.75	67	2.64
				319	452	9.9	1.0	10.00	84.0						
				230	326	7.0	1.4	5.00	21.0						
LK 56 321	LK 56 324	8	Parallel Series Unipolar	319	452	2.6	4.0	0.65	5.1	660	0.00935	1.7	3.75	67	2.64
				319	452	5.1	2.0	2.60	20.4						
				230	326	3.6	2.8	1.30	5.1						
LK 56 332	LK 56 325	8	Parallel Series Unipolar	319	452	0.9	6.1	0.15	2.1	660	0.00935	1.7	3.75	67	2.64
				319	452	1.8	3.0	0.60	8.4						
				230	326	1.3	4.3	0.30	2.1						
LK 56 333	LK 56 326	8	Parallel Series Unipolar	538	762	3.4	4.0	0.85	7.7	1200	0.01699	2.5	5.51	94	3.70
				538	762	6.7	2.0	3.40	30.8						
				380	538	4.8	2.8	1.70	7.7						
LK 56 334	LK 56 327	8	Parallel Series Unipolar	538	762	2.3	6.1	0.38	3.5	1200	0.01699	2.5	5.51	94	3.70
				538	762	4.6	3.0	1.50	14.0						
				380	538	3.2	4.3	0.75	3.5						
IH 34 335	LK 56 328	8	Parallel Series Unipolar	920	1303	3.7	4.9	0.75	8.5	1800	0.02549	3.8	8.27	126	4.94
				920	1303	7.4	2.5	3.00	34.0						
				650	920	5.3	3.5	1.50	8.5						
IH 34 336	LK 56 329	8	Parallel Series Unipolar	920	1303	2.3	9.0	0.25	2.5	1800	0.02549	3.8	8.27	126	4.94
				920	1303	4.5	4.5	1.00	10.0						
				650	920	3.2	6.4	0.50	2.5						

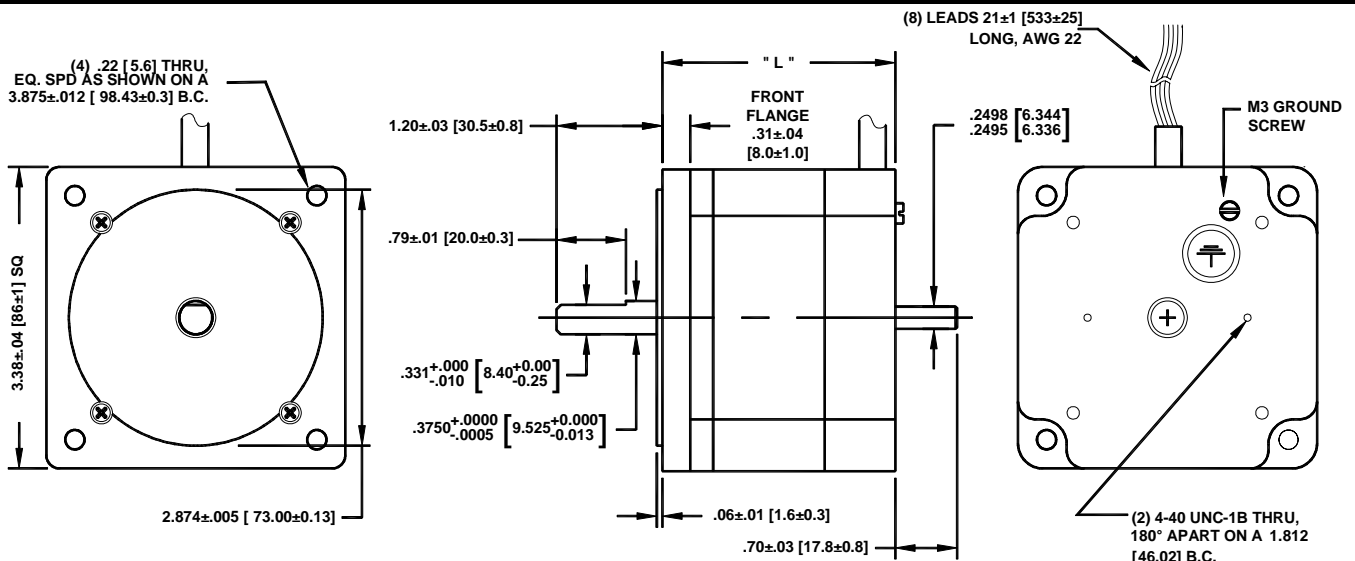
Notes: 1) Max. Terminal Voltage = 170 Vdc 2) -20 to 50 Degree C ambient operating Temp. 3) +/- 5% non-cumulative step accuracy

8 LEAD CONFIG

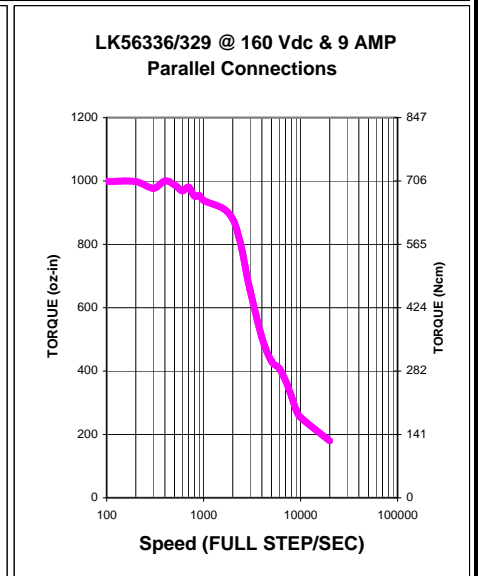
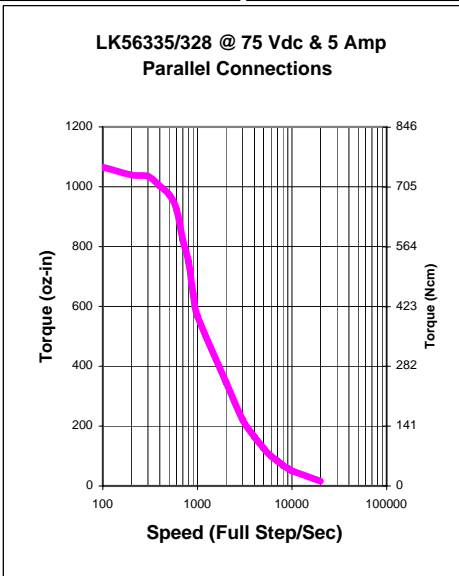
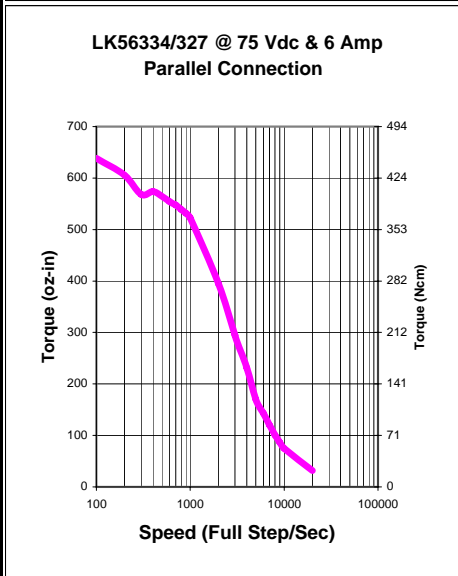
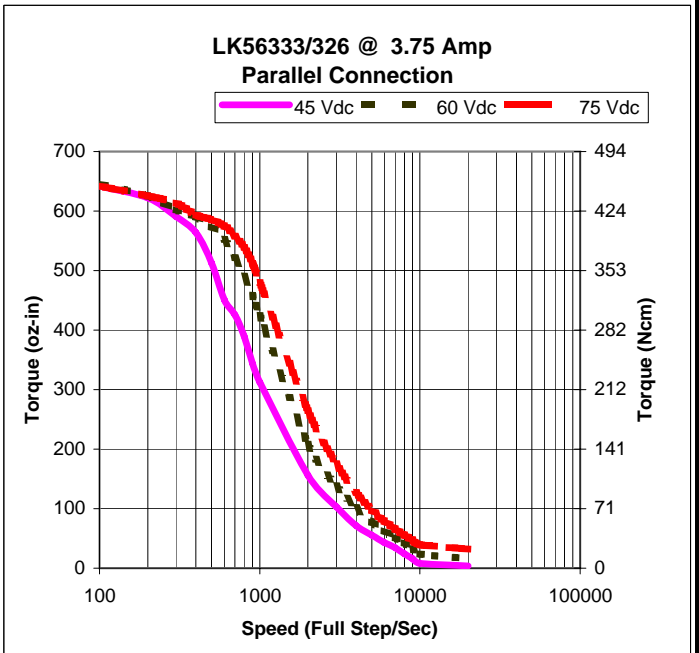
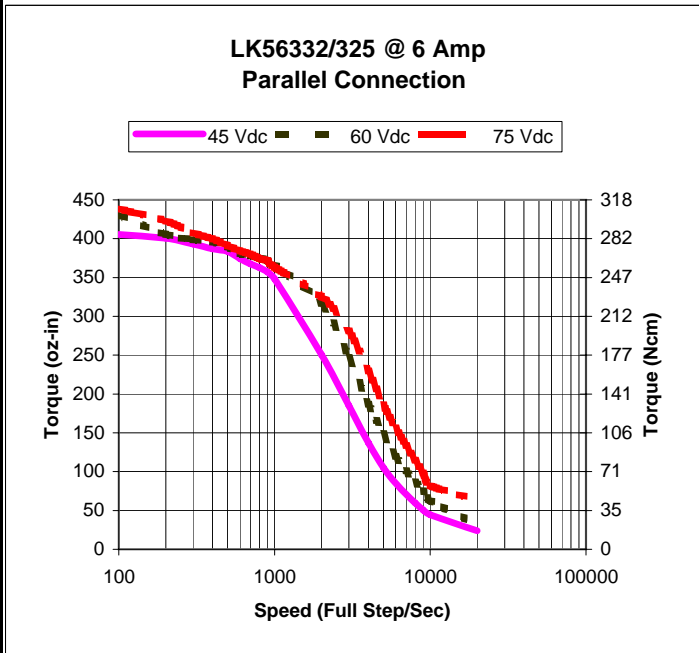
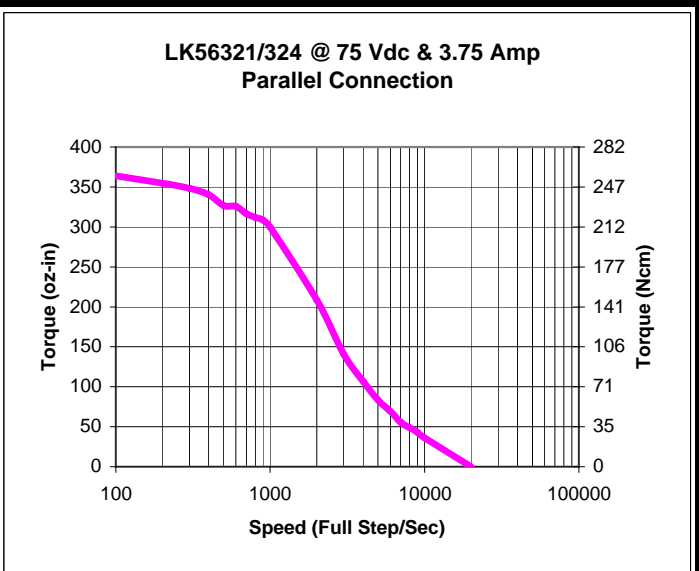
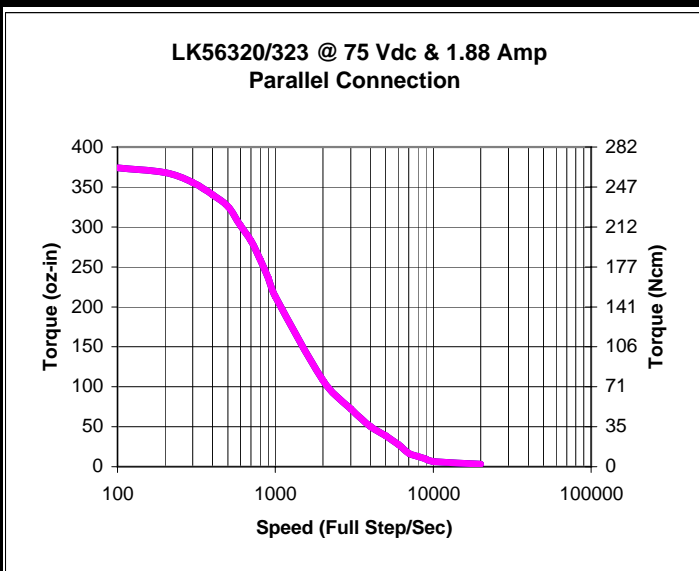


8 LEAD WIRING DIAGRAM

		BLACK	ORANGE	BLACK	ORANGE	RED	YELLOW	RED	YELLOW
		WHITE	WHITE	WHITE	WHITE	WHITE	WHITE	WHITE	WHITE
BIPOLAR DRIVE	PARRALLEL CONNECTION	A		A		B		B	
	SERIES CONNECTION	A	A		B	B		B	B
	UNIPOLAR DRIVE	A	COM		B	C	COM		D



# Speed Torque Performance Curves



Curves: System performance may differ depending on the drive capability.