

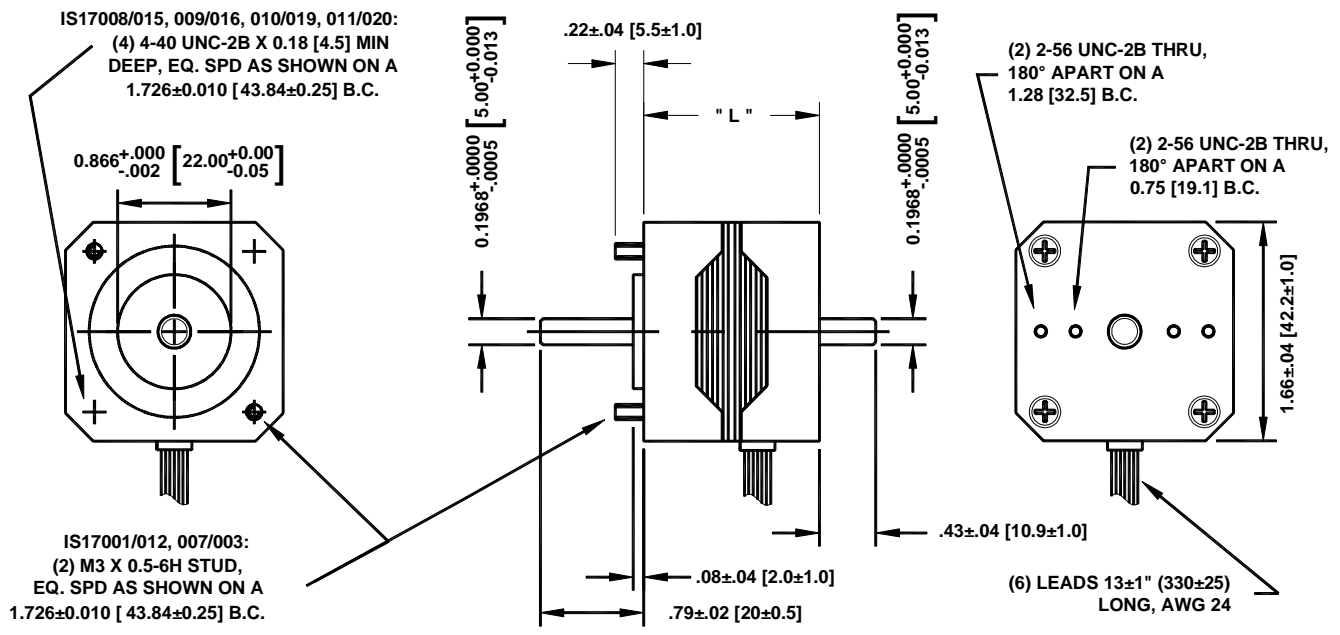
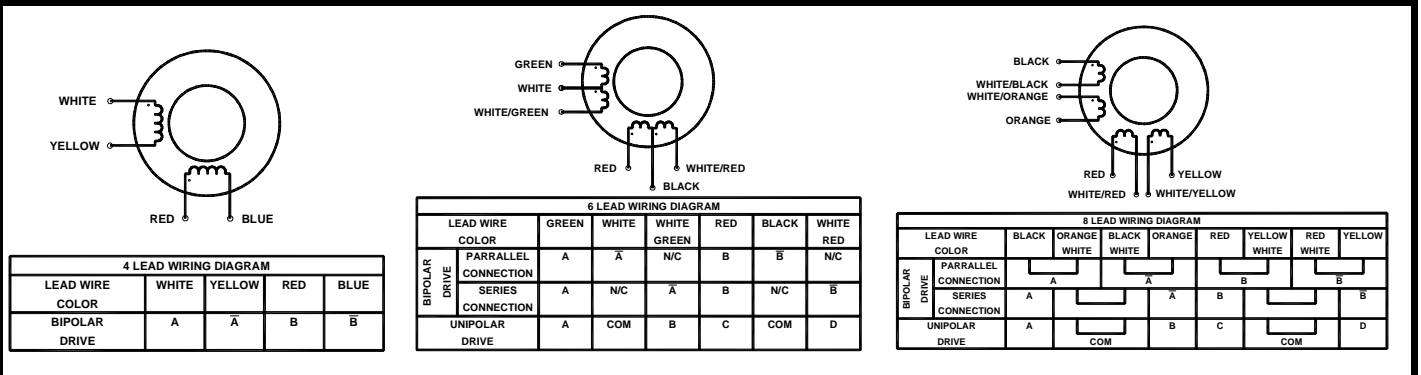
IS17 Instrument Grade Step Motor

- 1.7 Inch Square (42mm) Size 17 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 17 "Bolt On" Brakes & Gearheads



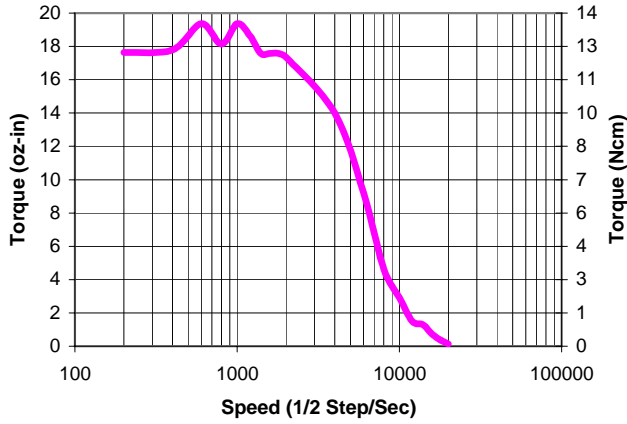
Catalog Number		Number of Leads	Phase Connection Types	Holding Torque		Voltage / phase Vdc	Current Rated / ph Ip Amps DC	Phase Res. Rt Ohms	Phase Ind. L mH	Inertia Jm		Weight W		Length Lm	
Shaft Configuration Double	Single			2 Phases On Th - Minimum Ncm	oz-in					g-cm ²	oz-in-s ²	kg	lb	mm	inch
IS 17 001	IS 17 012	6	Parallel Series Unipolar	14	20	1.8	0.4	4.60	4.6	18	0.00025	0.2	0.44	34	1.34
				20	29	2.6	0.3	9.20	18.4						
				14	20	1.8	0.4	4.60	4.6						
IS 17 007	IS 17 003	4	4 lead	17	24	1.5	1.5	1.00	1.2	18	0.00025	0.2	0.44	34	1.34
IS 17 009	IS 17 016	6	Parallel Series Unipolar	24	34	5.0	0.8	6.20	8.8	55	0.00078	0.3	0.57	39	1.54
				34	48	7.0	0.6	12.40	35.2						
				24	34	5.0	0.8	6.20	8.8						
IS 17 005	IS 17 018	4	4 lead	31	44	4.6	1.0	4.60	8.9	32	0.00045	0.3	0.66	43	1.69
IS 17 011	IS 17 020	8	Parallel Series Unipolar	55	78	5.1	1.1	4.50	9.5	68	0.00096	0.3	0.73	47	1.85
				55	78	10.2	0.6	18.00	38.0						
				38	54	7.2	0.8	9.00	9.5						

Notes: 1) Max. Terminal Voltage = 48 Vdc 2) -20 to 50 Degree C ambient operating Temperature 3) +/- 5% non-cumulative step accuracy 4) Visit www.mcg-net.com for more individual CAD drawings & data

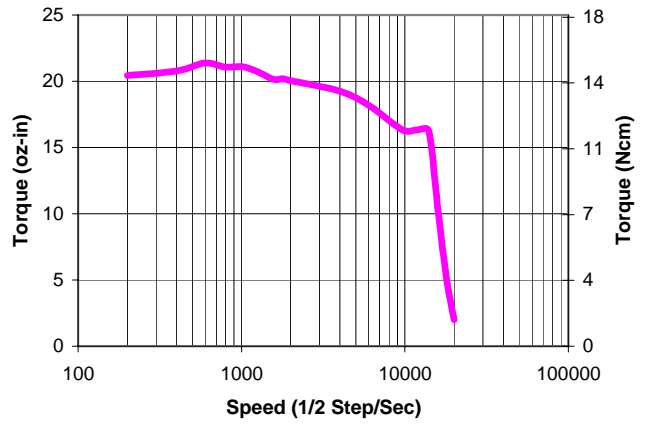


Speed Torque Performance Curves

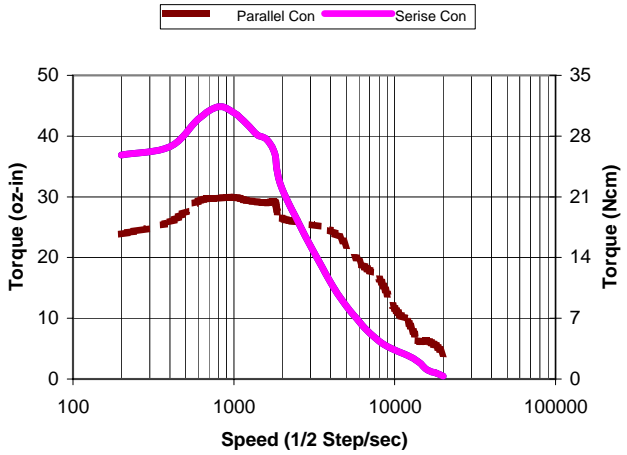
IS17012 / 001 @ 36 Vdc & 0.3 Amp
Parallel Connections



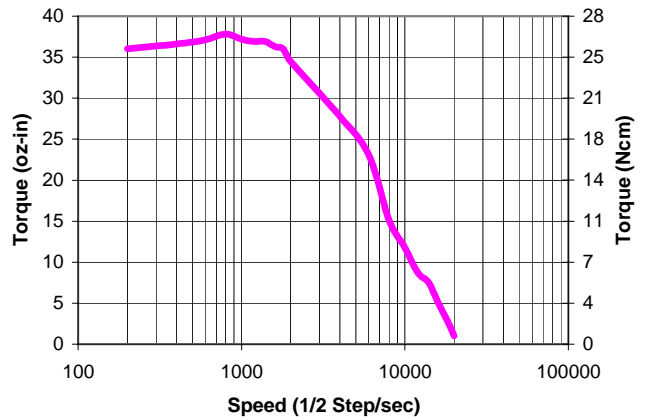
IS17003 / 007 @ 36 Vdc & 1.5 Amps



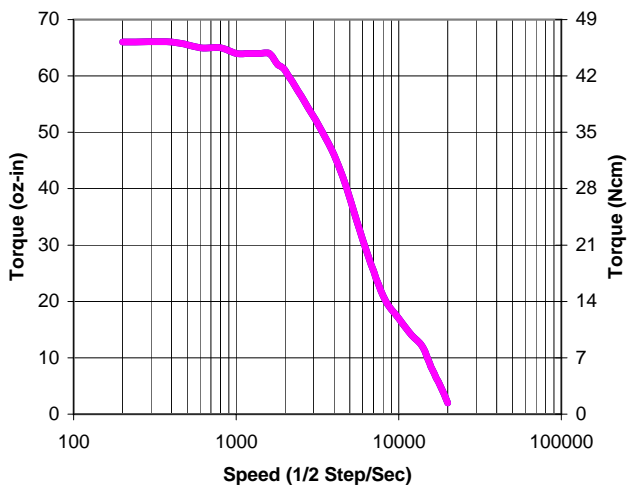
IS17016 / 009 @ 36 VDC
Parallel & Series Connections



IS17018 / 005 @ 36 Vdc & 1 Amp



IS17020 / 011 @ 36 Vdc & 1.13 Amps
Parallel Connections



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

