

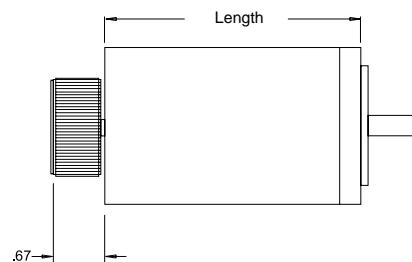
Rotary Stepping Motors (Cont.d)

All other motors listed have leads exiting the motor barrel on the outer diameter and may be wired to a connector if specified.

The rotor inertias of our stepping motors are provided to assist in calculating achievable motor (and load) acceleration. As mentioned, all of our stepping motors are double shafted, and include knobs for manual positioning. This knob is 1.2" in diameter x 0.62" long, and has a rotary inertia of 6.3×10^{-6} kg-m². In applications where maximum acceleration is required the knob can be removed, providing a modest increment in achievable acceleration.

The accompanying table lists the most popular stepping motors, together with their key parameters. Footnotes indicate the standard motors shipped with our positioning tables; the

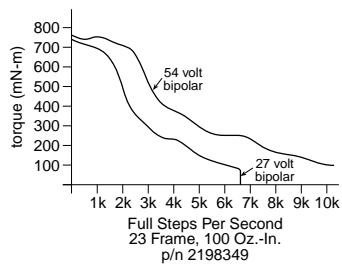
remaining motors are optionally available when higher torque or resolution is required. Motors are normally available from stock. In addition to incorporation into our positioning tables, our stepping motors are available for uncommitted use in positioning or motion control applications; use the provided part numbers when ordering motors separately. Speed-torque curves for our three standard motors also follow.



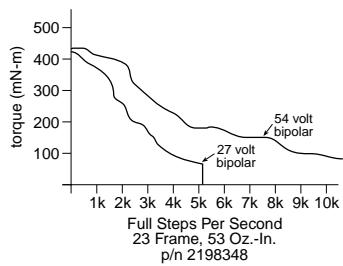
Rotary Stepping Motors										
Part Number	Frame Size	Steps	Torque		Current Per Phase (amps)	Rotor Inertia				Face-Wired Connector
		Per Rev.	oz-in (N-m)	Voltage (volts)		Inductance (millihenries)	oz-in ² (kg-m ²)	Length (inches)		
2198366	17	400	23 (0.16)	4.0	1.2	3.1	0.190 (3×10^{-6})	1.85	NO	
2198377 ¹	17	200	36 (0.25)	6.0	0.8	6.5	0.300 (5×10^{-6})	1.54	NO	
2198376 ²	17	200	44 (0.31)	4.0	1.2	2.0	0.370 (7×10^{-6})	1.85	NO	
2198352	23	400	80 (0.57)	6.0	1.2	8.8	0.740 (14×10^{-6})	2.13	NO	
2198364	23	400	118 (0.84)	5.4	1.5	6.5	1.090 (20×10^{-6})	2.99	NO	
2198348 ³	23	200	53 (0.38)	5.0	1.0	10.0	0.620 (11×10^{-6})	2.00	YES	
2198349 ⁴	23	200	100 (0.71)	4.7	1.6	5.7	1.280 (23×10^{-6})	3.25	YES	
2198350	23	200	150 (1.06)	3.4	2.9	2.9	1.740 (32×10^{-6})	4.00	YES	

¹Standard on X-Theta
²Standard on Mini XYR, XYMR, OFS, RM and RMS
³Standard on XY, XYR, TM, TMS, LM, FM, XM, ZE, Z-Theta, RT and RTR
⁴Standard on XYL, Ballscrew XYR, OFL, HM and HMS

23 Frame, 100 oz. in.



23 Frame, 53 oz. in.



17 Frame, 44 oz. in.

