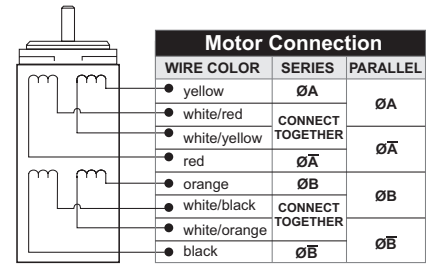


IOS SIZE 34

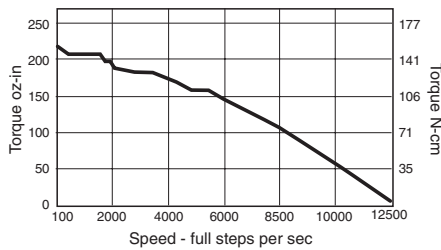
1.8° HYBRID IOS STEPPING MOTOR



Part Number	Holding Torque oz-in (N-cm)	Phase Current Amps		Number of Leads	Phase Resistance ohms		Phase Inductance mH		Detent Torque oz-in (N-cm)	Rotor Inertia oz-in-sec ² (kg-cm ²)	Length inches (mm)	Weight oz (g)
		Series	Parallel		Series	Parallel	Series	Parallel				
M3-3424-10S	265 (187.0)	3.0	6.0	8	1.8	0.5	5.6	1.4	20 (14.12)	0.190 (13.4)	3.325 (84.4)	72 (2016)

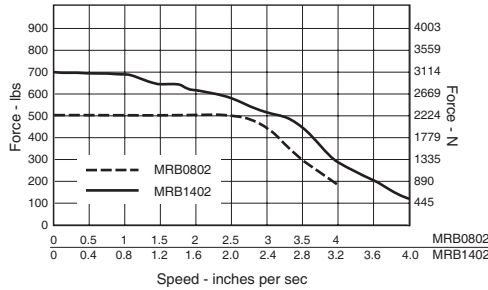
TORQUE-SPEED CURVES

Parallel: 6 Amps RMS, 80 VDC

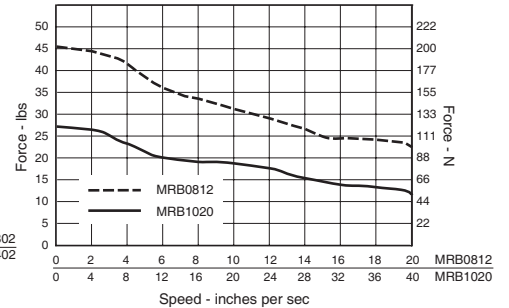


FORCE-SPEED CURVES

Parallel: 6 Amps RMS, 75 VDC



Parallel: 6 Amps RMS, 75 VDC



Ball Screw # / Pitch 0802 / 2mm

Inches (mm)
Travel/Full Step 0.000394 (0.01)
Max. Screw Deflection... 0.0008 (0.02)
Backlash 0.002 (0.05)

1402 / 20mm

Inches (mm)
Travel/Full Step 0.000394 (0.01)
Max. Screw Deflection... 0.0008 (0.02)
Backlash 0.002 (0.05)

Ball Screw # / Pitch 0812 / 12mm

Inches (mm)
Travel/Full Step 0.00236 (0.06)
Max. Screw Deflection... 0.0008 (0.02)
Backlash 0.002 (0.05)

1020 / 20mm

Inches (mm)
Travel/Full Step 0.00394 (0.1)
Max. Screw Deflection... 0.0008 (0.02)
Backlash 0.002 (0.05)

ORDER INFORMATION

Name	Part Number
Motor	M3-3424-10S
Motor w/ Encoder.....	M3-3424-E[X] ¹ [X] ²
2 mm Pitch Ball Screw.....	0802
12 mm Pitch Ball Screw.....	0812*
20 mm Pitch Ball Screw.....	1020
20 mm Pitch Ball Screw.....	1402*

¹ Replace X with S for single-end output encoder or D for differential output encoder.
² Replace X with encoder line count: 100, 200, 400, 500 or 1000. Encoder kit available.
 * Adapter plate required.

MECHANICAL SPECIFICATIONS

Dimensions in Inches (mm)

