

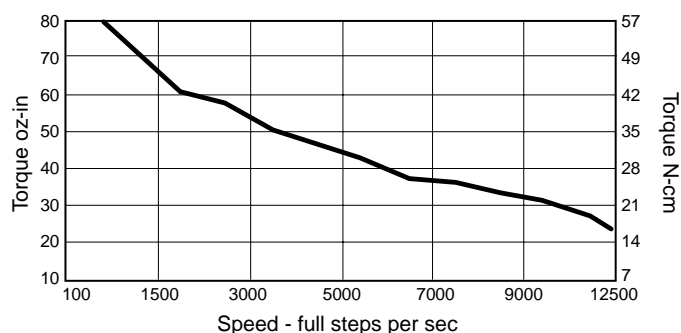
IOS Motor Systems

SIZE 23 1.8° HYBRID IOS STEPPING MOTOR

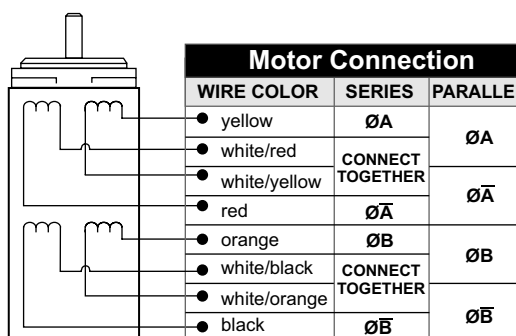
Specifications	Holding Torque oz-in (N-cm) Series	Phase Current Amps		Number of Leads	Phase Resistance Ohms		Phase Inductance mH		Detent Torque oz-in (N-cm)	Rotor Inertia oz-in-sec ² (kg-cm ²) Parallel	Length inches (cm)	Weight oz (gm)
		Series	Parallel		Series	Parallel	Series	Parallel				
M3-2220-IOS	80 (56.5)	3.0	6.0	8	2.0	0.5	3.2	0.80	7.0 (4.94)	0.01 (7.2)	2.18 (5.54)	40 (1114)

TORQUE SPEED CURVES

Parallel: 6 Amps RMS, 75 VDC



CONNECTION



OPTIONS

M3-2220-E(S) X* Motor w/Single Ended Encoder

M3-2220-E(D) X* Motor w/Differential Encoder

* Replace X with encoder line count. Encoder kit available.

MRB0601 † 1 mm Pitch Ball Screw

MRB0802 † 2 mm Pitch Ball Screw

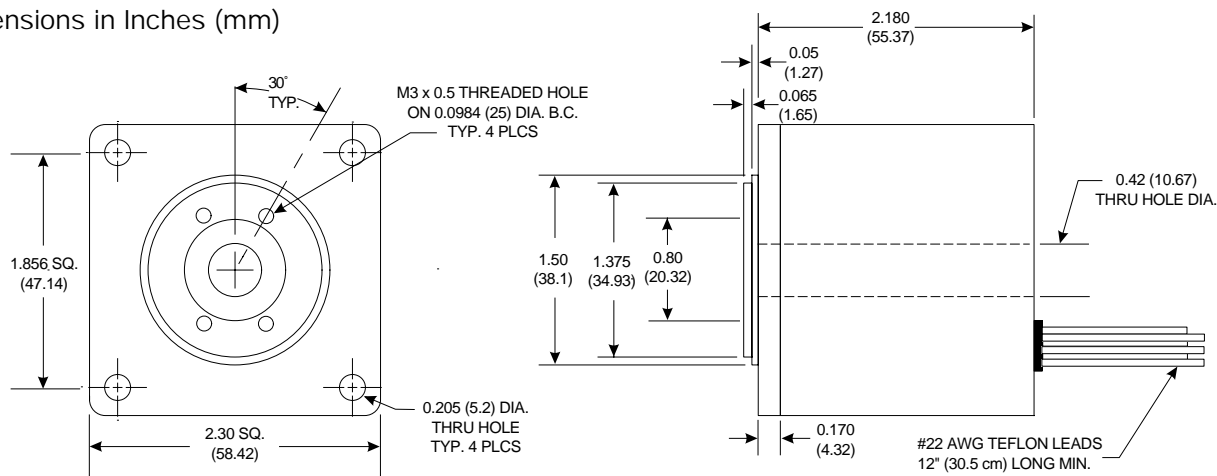
MRB0812 12 mm Pitch Ball Screw

MRB1020 † 20 mm Pitch Ball Screw

† Adapter plate required.

MECHANICAL

Dimensions in Inches (mm)

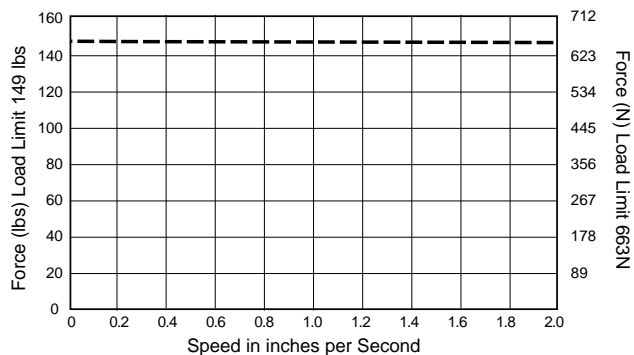


IOS Motor Systems

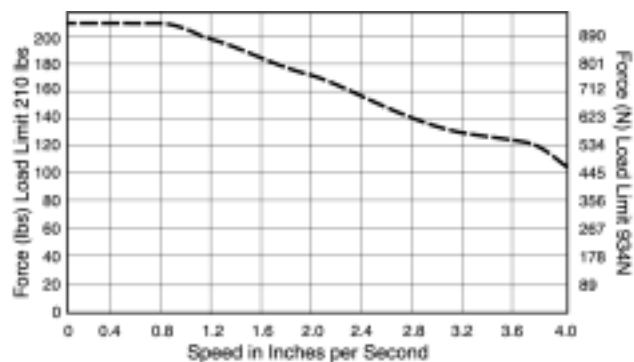
SIZE 23 1.8° HYBRID IOS STEPPING MOTOR

FORCE SPEED CURVES

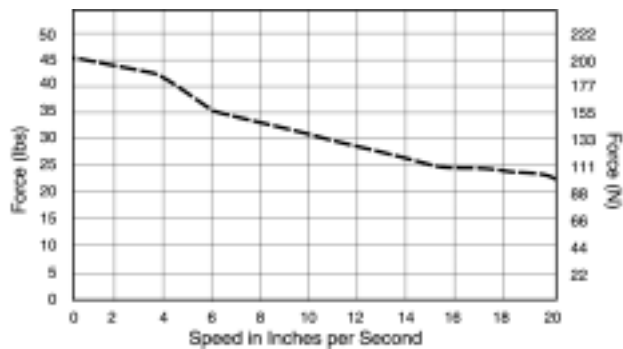
Parallel: 6 Amps RMS, 75 VDC



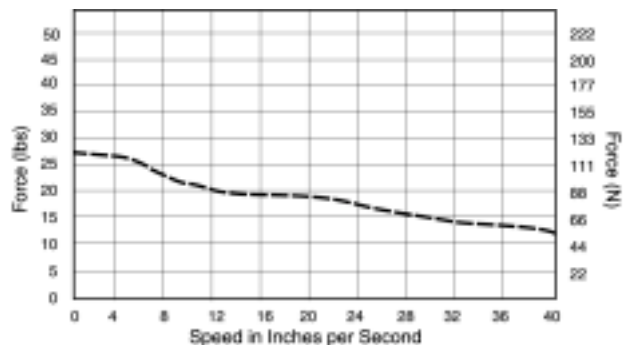
MRB0601 1 mm Pitch Ball Screw
 Inches / (mm)
 Travel/Full Step 0.000197 (0.005)
 Max. Screw Deflection 0.0008 (0.020)
 Backlash 0.002 (0.050)



MRB0802 2 mm Pitch Ball Screw
 Inches / (mm)
 Travel/Full Step 0.000394 (0.005)
 Max. Screw Deflection 0.0008 (0.020)
 Backlash 0.002 (0.050)



MRB0812 12 mm Pitch Ball Screw
 Inches / (mm)
 Travel/Full Step 0.00236 (0.005)
 Max. Screw Deflection 0.0008 (0.020)
 Backlash 0.002 (0.050)



MRB1020 20 mm Pitch Ball Screw
 Inches / (mm)
 Travel/Full Step 0.00394 (0.005)
 Max. Screw Deflection 0.0008 (0.020)
 Backlash 0.002 (0.050)