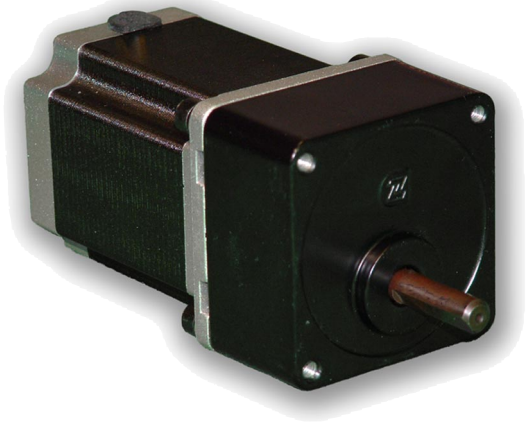


# 23YSG Series Gear Motor



## FEATURES

- **Spur Geared NEMA Size 23 Stepper Motor**
- **Eleven gear ratios from 3 to 150**
- **High Torque - Up to 700 oz-in torque**
- **Ideal for low-precision applications**
- **Can be Customized for**
  - Winding Current
  - Shaft Options
  - Cables
  - Connectors
- **CE Certified and RoHS Compliant**



## DESCRIPTION

The 23YSG Series gearmotors offer a great value without sacrificing quality. A broad line of motor windings, gear ratios, and three stack lengths are available off-the-shelf, or the motors can be customized to fit your machine requirements. The standard 8-lead motors can be connected in all possible configurations: series, unipolar, or parallel, to allow the maximum flexibility for your application. We can also customize the winding to perfectly match your voltage, current, and maximum operating speed.

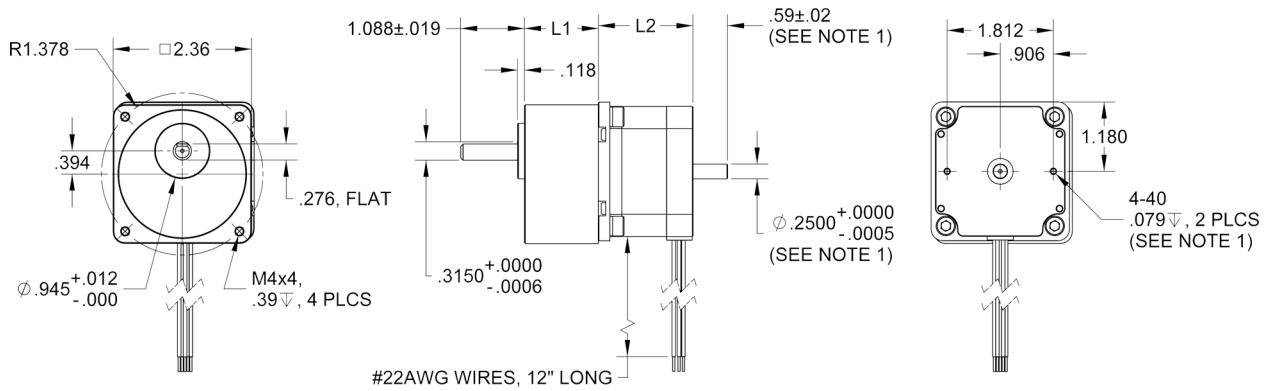
## SPECIFICATIONS

Model #	Motor Bipolar Torque (oz-in)	Peak Torque (oz-in)	Series Current (A)	Gear Ratio	L1 (inches)	L2 (inches)	Total Length (inches)	Reflected Rotor Inertia (oz-in-sec <sup>2</sup> )	Average Backlash (deg)	Weight (lbs)
23YSG006S-LW8-R3	76	228	2.1	3:1	1.26	1.62	2.88	0.0153	4	1.56
23YSG106S-LW8-R3	175	525	2.1	3:1	1.26	2.20	3.46	0.0378	4	2.06
23YSG106S-LW8-R12.5	175	700	2.1	12.5:1	1.26	2.20	3.46	0.6563	4	2.06
23YSG106S-LW8-R50	175	700	2.1	50:1	1.65	2.20	3.85	10.5000	3	2.16
23YSG206S-LW8-R75	262	700	2.1	75:1	1.65	2.99	4.64	38.25	3	2.92
23YSG306S-LW8-R75	425	700	2.1	75:1	1.65	4.53	6.18	57.9375	3	4.34

\*Weights for gearmotors will vary slightly, based on the gear ratio selected.

Notes: Refer to 23Y Series Motor Specifications for complete list of available motors to match to gear ratios of 3, 12.5, 15, 25, 30, 50, 75, 90, 100, 120 or 150. Peak torque values can be greater in some applications. Backlash is determined by the Gear Ratio. LW8 is for 8 leadwires, other leadwire options are available. The 9th character "S" denotes a single shaft, use "D" for double shaft. Double shafts include encoder mounting provisions. Custom leadwires, cables, connectors, and windings are available upon request.

L010198



(All units are inches)

Note 1: Double shaft option only.

