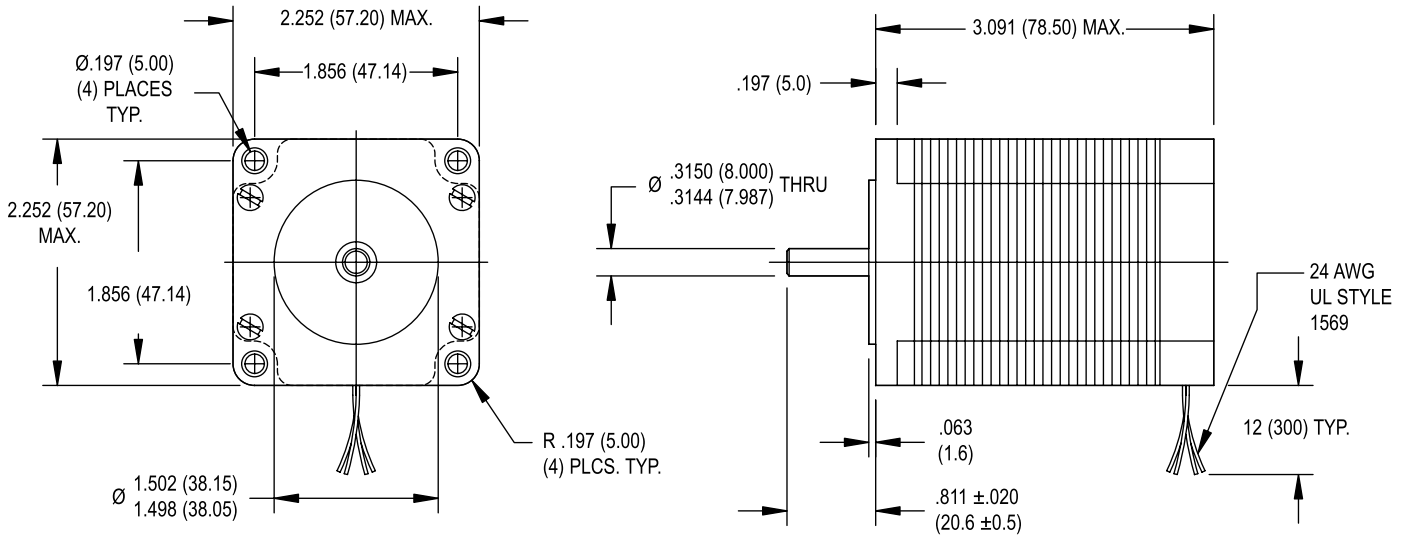
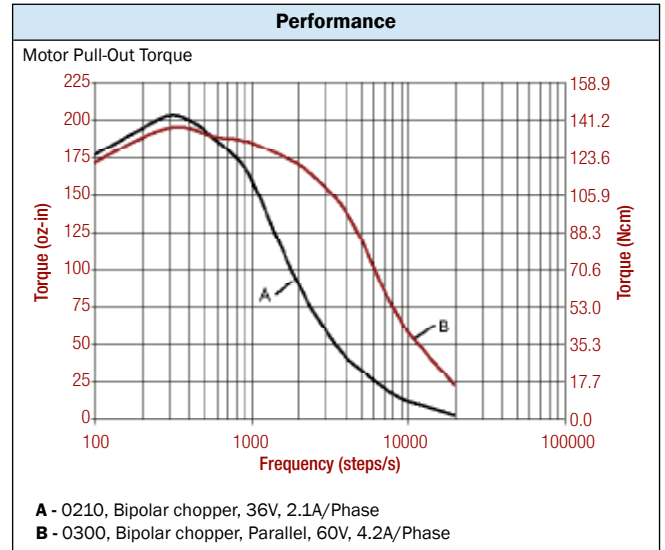


# SIZE 23 HIGH PERFORMANCE STEPPER MOTOR DATA



Specification	Units	HS 200 2231	
		0210	0300
Rated Phase Current	A	2.10	3.00
Phase Resistance	$\Omega$	2.0	1.1
Phase Inductance	mH	6.5	1.7
Holding Torque Unipolar	oz-in Ncm	—	177 125
Holding Torque Bipolar	oz-in Ncm	228 161	231 163
Detent Torque	oz-in Ncm	9.6 6.8	9.6 6.8
Rotor Inertia	oz-in-s <sup>2</sup> $\times 10^{-4}$ g-cm <sup>2</sup>	48 340	48 340
Motor Weight (Mass)	lb kg	2.2 1.0	2.2 1.0
Maximum Voltage	V	75	75
Std. No. of Leads	—	4	8

Available through the MotionExpress program.



- Standard Features**
- Step angle: 1.8°
  - Step angle accuracy: 5%
  - Insulation class: B (130°C)
  - Optimized for microstep operation
  - NEMA 23 mounting configuration
  - AlNiCo magnets
  - Additional windings and customization options available

- Complementary Products**
- Gearboxes
  - Encoders

