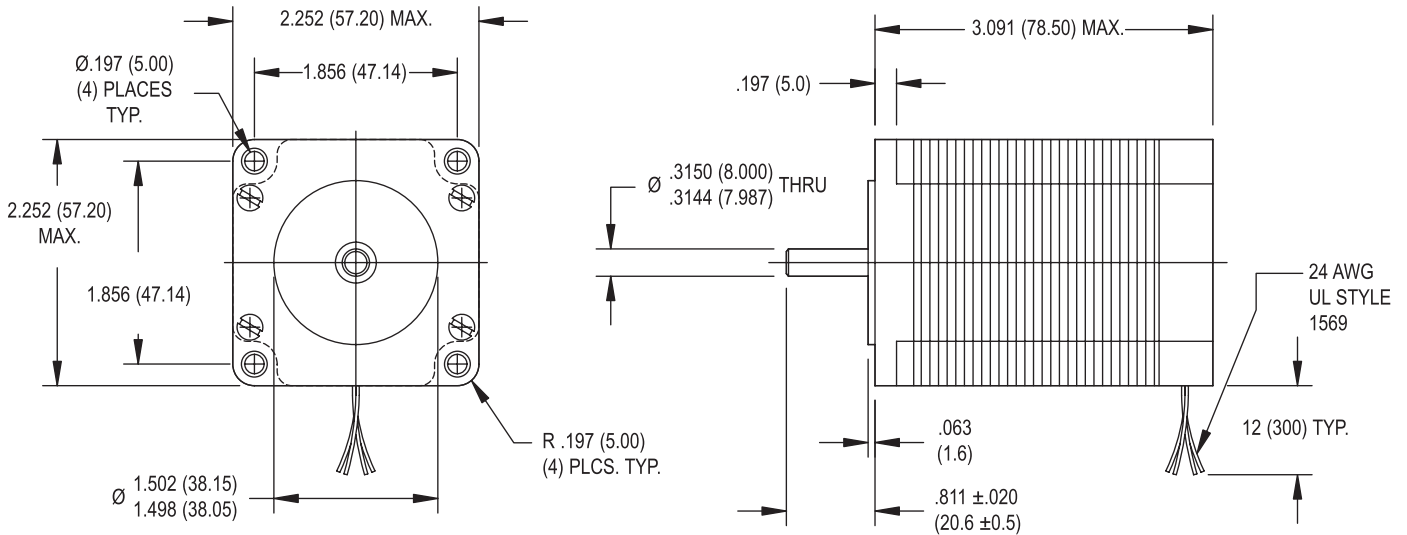
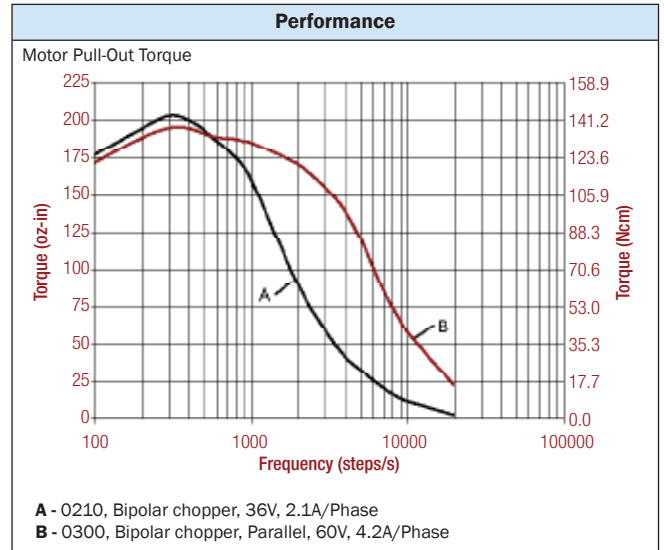


SIZE 23 HIGH PERFORMANCE STEPPER MOTOR DATA



| Specification | Units | HS 200 2231 | |
|-------------------------|--|-------------|------------|
| | | 0210 | 0300 |
| Rated Phase Current | A | 2.10 | 3.00 |
| Phase Resistance | Ω | 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 ² $\times 10^{-4}$ g-cm ² | 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

