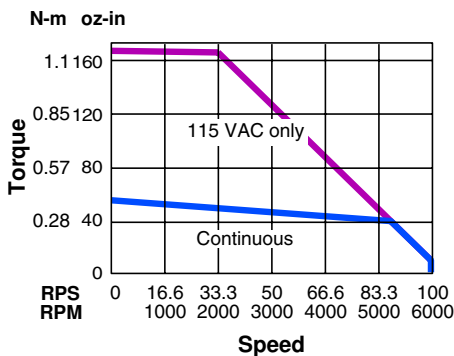
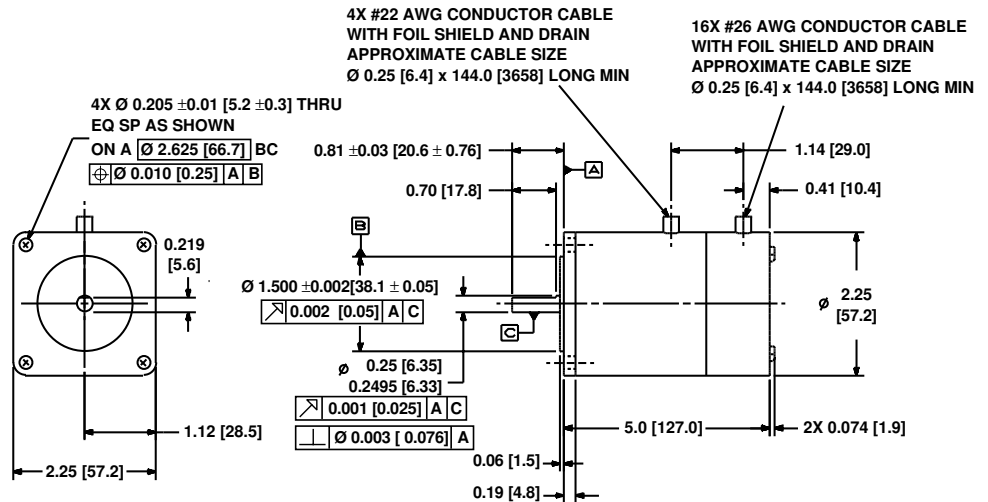




- Performance using B8000 Series controls
- IDC recommends at least a 10% torque safety margin and taking winding tolerances into account when applying servo motors.
- See How to Order on page H-48.



- Continuous duty region (115 VAC only) [max RMS torque over any 10-minute interval]
- Intermittent duty region
- 115 VAC speed limit

System Ratings with B8000 Controls

Torque

Continuous Stall Torque oz-in [N-m]	51 [0.36]
Peak oz-in [N-m]	170 [1.2]
Peak Shaft Power @ 230 VAC HP [W]	0.41 [306]

Torque Sensitivity

$K_{T(p-p)}$ oz-in/A [N-m/A]*	32.6 [0.23]
Back EMF, $V_{p-p}/kRPM^*$	24.1

* ±10% tolerance

Motor Data

Rotor Inertia oz-in-sec ² [kg-m] ²	0.00715 [5.06 x 10 ⁻⁵]
Weight lb [kg]	2.9 [1.3]
Axial Shaft Loading lb [kg]	25 [111]
Radial shaft loading lb [kg] @ 0.5 in [12.7 mm]	5.6 [25]
Incremental encoder	1000 line, 4000 counts/rev

Applying Gearmotors*

- See page I-1 for IDC gearmotor information
- See page I-1 for how to determine gearmotor performance
- The servo drive should be current limited if the continuous or intermittent torque of the motor exceeds the gearhead torque ratings.

Performance Planetary Gearmotors

	In-line	Right-angle
Gear Ratio in [mm]	L	A x B
3 to 10	7.76 [197.1]	3.61 x 11.49 [91.7 x 291.8]
16 to 100	8.59 [218.2]	3.61 x 12.32 [91.7 x 312.9]
160 to 700	9.38 [238.3]	Above 100:1, not available

Value Planetary Gearmotors

	In-line	Right-angle
Gear Ratio in [mm]	L	A x B
3 to 10	8.11 [206]	3.61 x 11.78 [91.7 x 299.2]
16 to 100	9.02 [229.1]	3.61 x 12.68 [91.7 x 322.1]