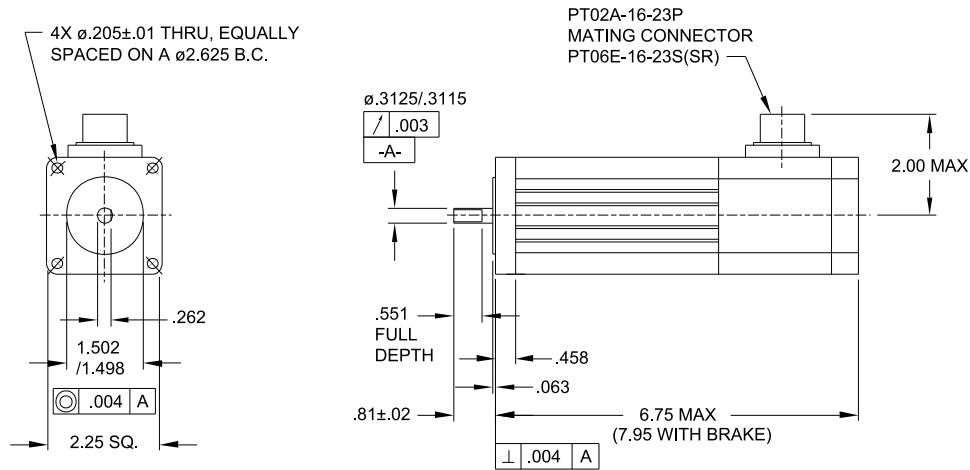




B23 Brushless Servo Motor Specifications



Electrical Data

Continuous Stall Torque	oz-in [N-m]	161 [1.14]
Cont. Torque at Rated Speed	oz-in [N-m]	144 [1.02]
Winding Resistance @ Ambient	ohms	10.6
Winding Resistance @ T_{max}	ohms	15.2
Inductance	mH	16.1
K_t , Phase to Phase Peak	oz-in/A [N-m/A]	57.6 [0.41]
K_v	Vp-p/kRPM	45.5
Number of Poles		4
Electrical Time Constant	ms	1.769

Mechanical Data

Rotor Inertia	oz-in-s ² [kg-m ²]	0.0019 [1.34 × 10 ⁻⁵]
Static Friction	oz-in [N-m]	12.8 [0.09]
Dynamic Friction	oz-in/kRPM [N-m/kRPM]	2.0 [0.01]
Thermal Resistance	°C/W	1.07
Max. Winding Temperature	°F [°C]	118 [155]
Mechanical Time Constant	ms	0.684
Axial Shaft Load	lbs [N]	15 [65]
Radial Shaft Load @ 1/2 in	lbs [N]	40 [180]
Weight	lbs [kg]	4 [1.8]

System Data with B8000 Series

		110VAC	220VAC
Max. Speed	RPM	3200	6500
Drive Bus Voltage	V	155	311
Drive Peak Current	A	8.3	
Ambient Temperature	°F [°C]	77 [25]	
RMS Output Power	W	288	355
Nominal Peak Power	W	353	1238
Nominal Peak Stall Torque	oz-in [N-m]	478	[3.38]

Motor Wiring

