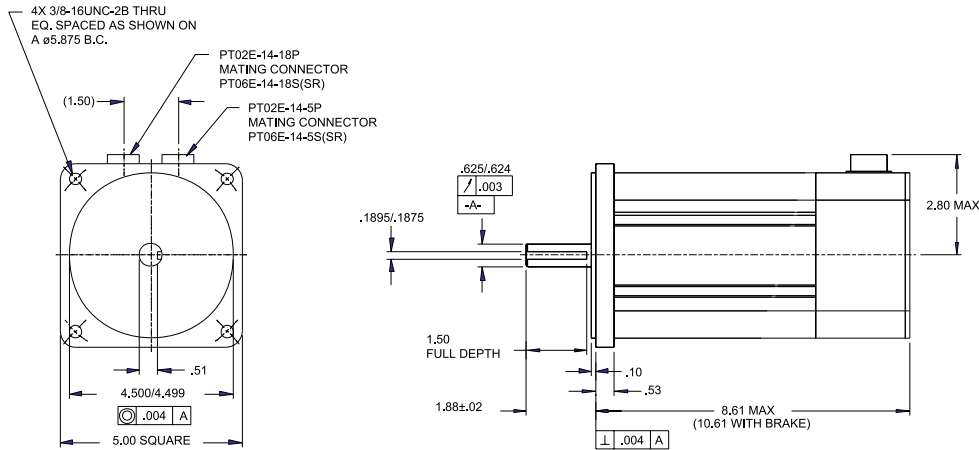




B41 Brushless Servo Motor Specifications



Electrical Data

Continuous Stall Torque	oz-in [N-m]	864 [6.1]
Cont. Torque at Rated Speed	oz-in [N-m]	768 [5.4]
Winding Resistance @ Ambient	ohms	3.6
Winding Resistance @ T_{max}	ohms	5.4
Inductance	mH	24.0
K_t , Phase to Phase Peak	oz-in/A [N-m/A]	187 [1.32]
K_v	$V_{p-p}/kRPM$	148
Motor Constant	oz-in/ \sqrt{W} [N-m/ \sqrt{W}]	98.3 [0.69]
Number of Poles		6
Electrical Time Constant	ms	6.667

Mechanical Data

Rotor Inertia	oz-in-s ² [kg-cm ²]	0.0416 [2.94]
Static Friction	oz-in [N-m]	16.0 [0.11]
Dynamic Friction	oz-in/kRPM [N-m/kRPM]	8.0 [0.056]
Thermal Resistance	°C/W	0.47
Max. Winding Temperature	°F [°C]	310 [155]
0 Ohm Damping	oz-in/kRPM [N-m/kRPM]	7150 [50.5]
Mechanical Time Constant	ms	0.609
Axial Shaft Load	lbs [N]	50 [222]
Radial Shaft Load @ 1/2 inch	lbs [N]	110 [490]
Weight	lbs [kg]	20 [9.1]

System Data with B8000 Series

		110VAC	220VAC
Max. Speed	RPM	1000	2000
Drive Bus Voltage	V	155	311
Drive Peak Current	A	10.0	10.0
Ambient Temperature	°F [°C]	77 [25]	
RMS Output Power	W	455	909
Nominal Peak Power	W	888	1770
Nominal Peak Stall Torque	oz-in [N-m]	1500 [10.6]	

Motor Wiring

