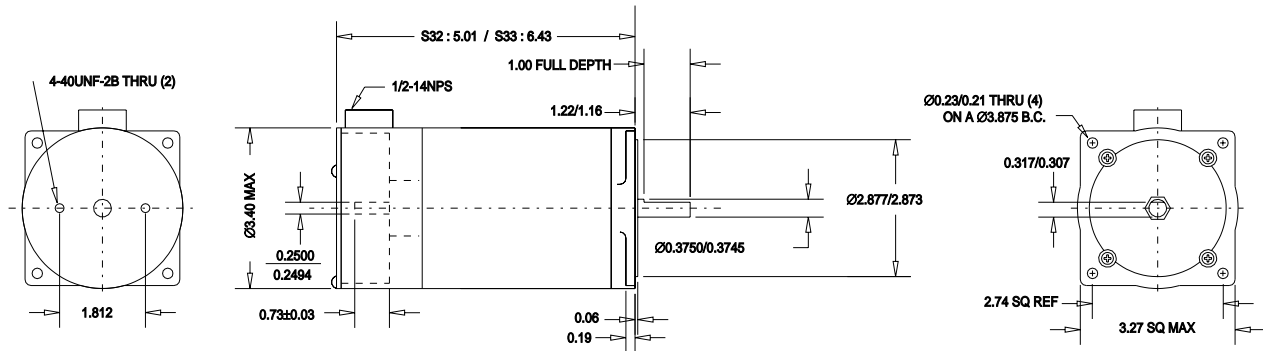




S32/S33 Hybrid Step Motor Specifications



Electrical Data

		S32T (Series)	S32V (Parallel)	S33T (Series)	S33V (Parallel)
Continuous Stall Torque	oz-in [N-m]	300 [7.1]		400 [5.3]	
Recommended Current/Phase	Amps	2.8	5.6	3.5	7.0
Winding Resistance @ Ambient	Ohms	1.03	.26	.96	.24
Inductance	mH	10	2.5	10	2.5
Max. Winding Temperature	°F [°C]	212 [100]		212 [100]	

Mechanical Data

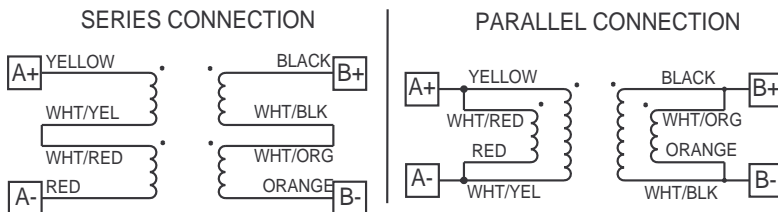
		S32(T/V)	S33(T/V)
Rotor Inertia	oz-in-s ² [kg-m ²]	0.017 [3.51×10 ⁻⁵]	0.0265 [3.51×10 ⁻⁵]
Axial Shaft Load	lbs [N]	50 [222]	50 [222]
Radial Shaft Load - at .5 in	lbs [N]	14.5 [64.4]	14.5 [64.4]
Motor Weight	lbs [kg]	5.1 [2.3]	8.3 [3.8]
Step Angle (full step)	degrees	1.8	1.8

Notes

- Parallel (V) Wiring: 60% Duty Cycle Max. Above 5 rps (300 rpm).
- Always use at least a 50% torque safety margin when applying step motors.

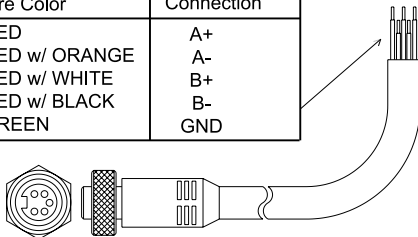
Motor Wiring

12 ft [3.7m] Wire Leads : S32N/S33N



Quick-Disconnect : S32(T/V) / S33(T/V)

Quick Disconnect Wire Color	Drive Connection
RED	A+
RED w/ ORANGE	A-
RED w/ WHITE	B+
RED w/ BLACK	B-
GREEN	GND



S6000 Drive Settings

S32T (Series)

Motor Current	Inductance
2.8 Amps	8' mH
Tenths of Amps	Tenths of mH

S32V (Parallel)

Motor Current	Inductance
5.6 Amps	4' mH
Tenths of Amps	Tenths of mH

*Drive setting closest to actual motor specifications.

S33T (Series)

Motor Current	Inductance
3.5 Amps	8' mH
Tenths of Amps	Tenths of mH

S33V (Parallel)

Motor Current	Inductance
7.0 Amps	4' mH
Tenths of Amps	Tenths of mH

*Drive setting closest to actual motor specifications.