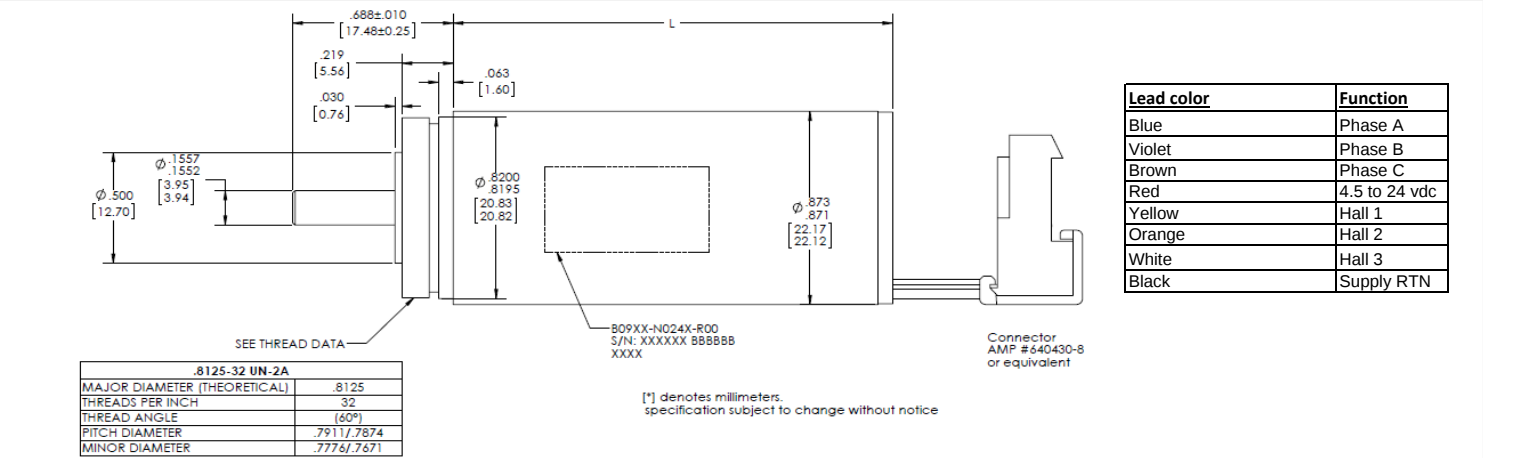




			Motor length and winding options						
			B0906		B0909		B0912		
Electrical Data		Symbols	-N024A-R00	-N024B-R00	-N024A-R00	-N024B-R00	-N024A-R00	-N024B-R00	Units
1	Nominal Voltage	U _N	24		24		24		Volt
2	Max No-Load Current	I _{nl}	465	245	408	215	610	290	mA
3	No-Load Speed	W _{nl}	47,920	23,720	47,860	23,930	53,630	24,005	rpm
4	Resistance - Phase to Phase	R	0.39	1.50	0.22	0.89	0.15	0.67	Ω
5	Continuous Stall Torque	T _{cs}	16.4 (2.32)	16.8 (2.38)	26.5 (3.76)	26.3 (3.72)	30.1 (4.26)	31.8 (4.51)	mNm (oz-in)
6	Continuous Stall Current	I _{cs}	3.53	1.79	5.61	2.78	7.04	3.34	A
7	Peak Torque	T _{pk}	297 (42.1)	154 (21.9)	538.8 (76.3)	265 (37.6)	723.1 (102.4)	356 (50.4)	mNm (oz-in)
8	Peak Current	I _{pk}	61.0	15.7	109.0	26.7	160.0	35.5	A
9	Back EMF Constant	K _e	0.51	1.03	0.52	1.04	0.47	1.05	v/1000 rpm
10	Torque Constant	K _t	4.87 (0.69)	9.8 (1.39)	4.94 (0.70)	9.89 (1.40)	4.49 (0.64)	10.0 (1.42)	mNm/A (oz.-in/A)
11	Motor regulation R/Kt ²	-	16.4	15.6	9.0	9.1	7.4	6.7	10 ³ /Nms
12	Motor regulation Kt/R½	-	7.8	8.0	10.5	10.5	11.6	12.2	mNm/W½
13	Inductance - Phase to Phase	L	0.078	0.31	0.053	0.22	0.032	0.160	mH @1Khz
General Data									
14	Thermal Resistance (winding to ambient)	R _{th}	13.8		10.8		9.8		°C/W
15	Thermal Time Constant	τ _w	844		894		1142		s
16	Mechanical Time Constant	τ _m	3.16	2.98	2.28	2.31	2.38	2.13	ms
17	Electrical time constant	τ _e	0.20	0.21	0.24	0.25	0.21	0.24	ms
18	Rotor Inertia	J	12.67 (17.94)		16.80 (23.80)		20.96 (29.68)		kgm ² 10 ⁻⁸ (oz-in-sec ² 10 ⁻⁶)
19	Max winding temperature	-			155 (311)				°C (°F)
20	Shaft Load max.: radial (static)	-			138 (31)				N (lb)
	axial (static)	-			156(35)				N (lb)
21	Mass	M	65.6 (2.32)		80.54 (2.84)		87.73 (3.09)		g (oz)
22	Length L	L	39.4 (1.553)		47.8 (1.883)		56.2 (2.213)		mm (in)
23	Tolerances	-	Tolerances on all values ±10% unless otherwise specified.						

Notes

- Three phase motor with Wye connections

- Hall sensors: supply voltage 4.5V - 24V

- Typical housing material 303 SS
- Gearbox option: Size 9 Planetary

- Above parameters specified for 25 Deg C ambient temperature

- Typical shaft material 17-4 PH
- Autoclavable versions available

- Sensorless option available on request

- Motor is RoHS Compliant

