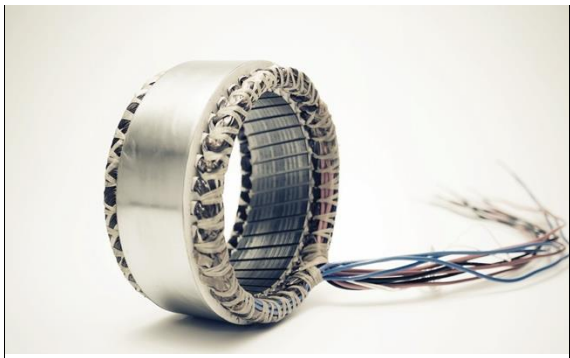




Aveox Launches New “ULTIMATE TORQUE” Series of BLDC Torque Motors for Mission Critical Applications

Simi Valley, CA., Dec. 2, 2019 – Aveox Inc., a World Leader in Brushless DC Motors, Controllers and Power Conversion Electronics, today announced the launch of its “Ultimate Torque” (UT) line of brushless motors and stator/rotor sets. Aveox’s UT direct drive Torque Motors are characterized by very high motor constants (Kt/\sqrt{R}), low inertia and low weight. Proprietary designs created using Finite Element Analysis software have been optimized to deliver high peak and continuous torque while minimizing cogging torque and reducing weight. The Ultimate Torque line of frameless stator/rotor sets ranges in diameter from 1.26” all the way up to 9.0”. The available torque ranges from .7in-lbs to over 500 in-lbs. Almost any aspect of the stators can be customized and Aveox can develop special housings for specific applications. Each stator is subjected to multiple quality checks and surge testing to ensure the highest integrity of turn to turn isolation.



Intended applications include Gimbal and RADAR systems, Unmanned Vehicle (UAV) propulsion and generation, Gun and Antenna Drives, Pumps, Fans and Compressors, Robotics as well as Military and Aerospace actuation systems. Almost any aspect of these stators/rotor sets can be easily customized and Aveox Engineering can rapidly simulate and produce COTS and semi-custom configurations that meet

custom requirements. Along with the launch of the new UT Series Motors is Aveox’s new intuitive online UT Series Catalog developed specifically to assist design engineers find the right motor for their specific application.

“Adding the Ultimate Torque Motors to our successful BLDC motor family provides design engineers with a broad COTS platform for developing high performance systems for high reliability applications.” said John Nino, Aveox President & CEO. “The UT Series motors offer the highest motor torque constant per weight and size in the Industry and have been designed to meet torque-density requirements of todays advanced Military and Commercial Aerospace applications.” Said David Palombo, Aveox Chief Technical Officer.

1.26" OD 9s8p Series Ultimate Torque Frameless Motors

PERFORMANCE TABLE

GENERIC PART NUMBER	UT1000-9S8	UT1000-9S8	UT1000-9S8	UT1000-9S8	UT1000-9S8
STATOR PART NUMBER	40000004	40000005	40000006	40000007	40000008
STATOR OD (IN)	1.26	1.26	1.26	1.26	1.26
STATOR WINDING LENGTH (IN)	0.54	0.75	1.00	1.26	2.00
KT (NPM)	50000				
ISDC (IN-DE)	8	17	23	34	41
LA	4.50	6.00	7.60	9.70	14.00
INDCS	4	4	4	4	4
ID	2.88	2.88	3.00	3.75	7.54
RTA (NPM)	7.850-07	1.940-06	1.940-06	2.380-06	3.770-06
N-OD	9S	9S	9S	9S	9S
GENERIC MOTOR NUMBER	1.000-09	2.000-09	3.000-09	4.000-09	6.000-09
TORQUE (N-M)	0.0007	0.0017	0.0040	0.009	0.0200
ISDC	2.88	3.00	3.00	3.00	3.00
N-PRG	3.00	3.00	3.04	4.00	8.00
25.0-L-IMP	0.250	0.380	0.500	0.740	0.980
0.0-L-05	0.050	0.080	0.090	0.070	1.000
ISDC (NPM)	AVEOX RTA 9S 9S RTA 9S 9S 9S 9S				
4.000 PER MOTOR	22				

SPECIFICATIONS

PART NUMBER	DESCRIPTION	STATOR LENGTH (IN)	LEAD WIRE DIA. (IN)	LEAD WIRE LENGTH (IN)	MAX. OPERATING TEMPERATURE (°C)	APPROXIMATE MOTOR LEAD SIZE (IN)
40000004	1.26" DIA. STATOR FOR 9S8P, 1000 RPM, 0.54" WINDING LENGTH	0.540	0.22	12	0.50	0.43
40000005	1.26" DIA. STATOR FOR 9S8P, 1000 RPM, 0.75" WINDING LENGTH	0.750	0.22	12	0.43	0.43
40000006	1.26" DIA. STATOR FOR 9S8P, 1000 RPM, 1.00" WINDING LENGTH	1.000	0.22	12	1.00	0.43
40000007	1.26" DIA. STATOR FOR 9S8P, 1000 RPM, 1.26" WINDING LENGTH	1.260	0.22	12	1.00	0.43
40000008	1.26" DIA. STATOR FOR 9S8P, 1000 RPM, 2.00" WINDING LENGTH	2.000	0.22	12	2.00	0.43

AVEOX
POWER TO MOTION

"Ultimate Torque" (UT) Series
FRAMELESS MOTOR CATALOG



About Aveox

Aveox Inc. based in Simi Valley California is a World Leader in high power density DC Motors, Controllers and Power Conversion Electronics and Pioneer in UAV propulsion systems for Military, Commercial Aerospace, Industrial and Medical Markets. Aveox is ISO9001 and AS9100 Certified and a strategic supplier to top Military, Commercial Aerospace, Industrial and Medical OEMs and subcontractors worldwide. For more information please visit www.aveox.com to review our online catalog or email sales@aveox.com.