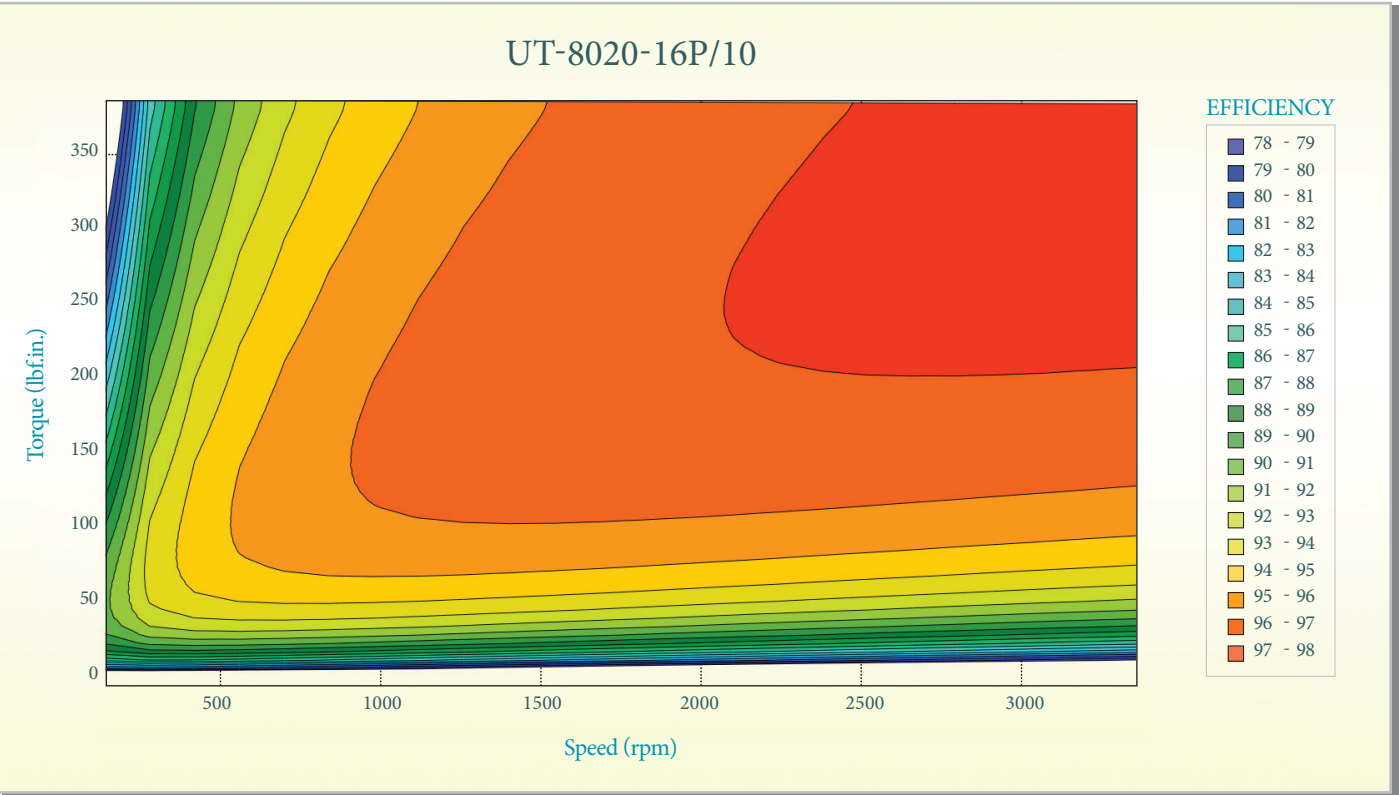
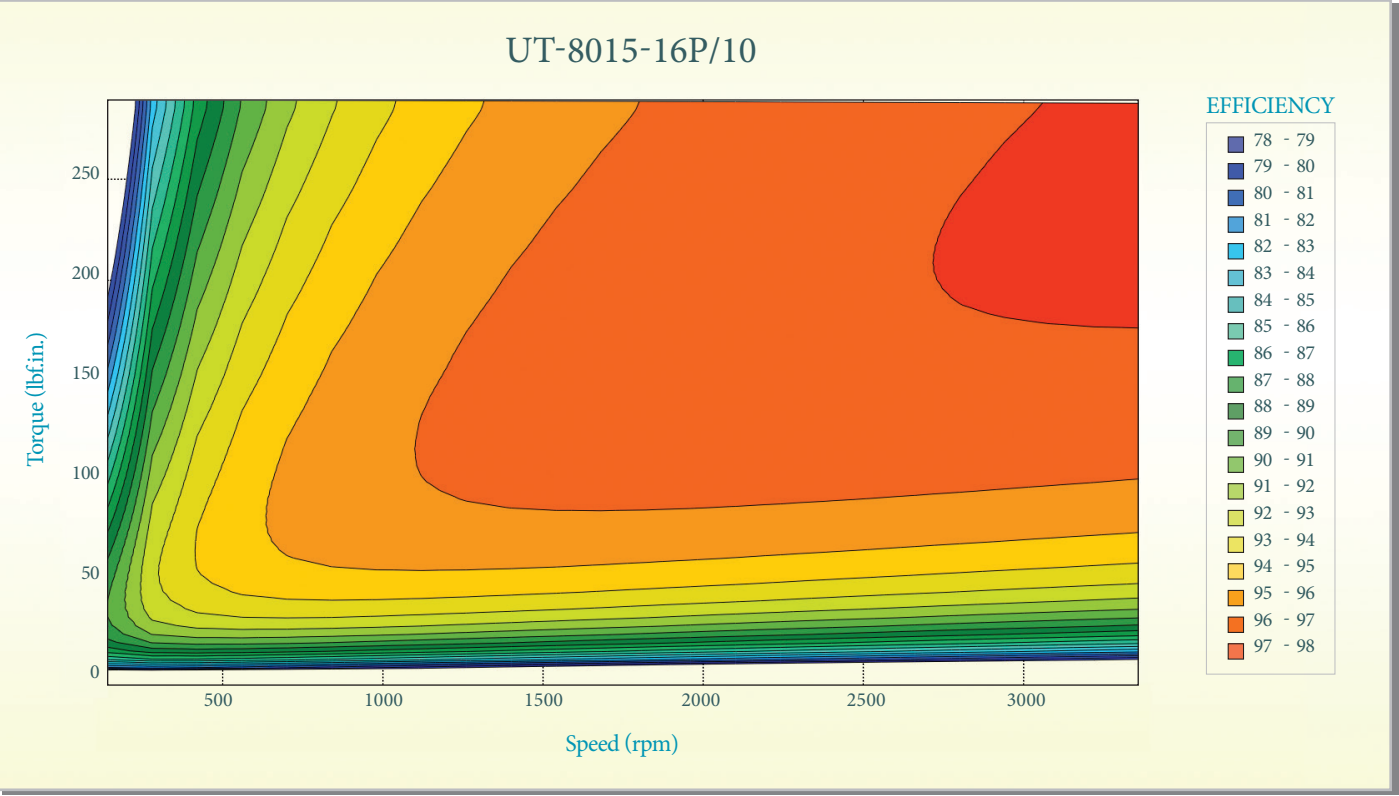


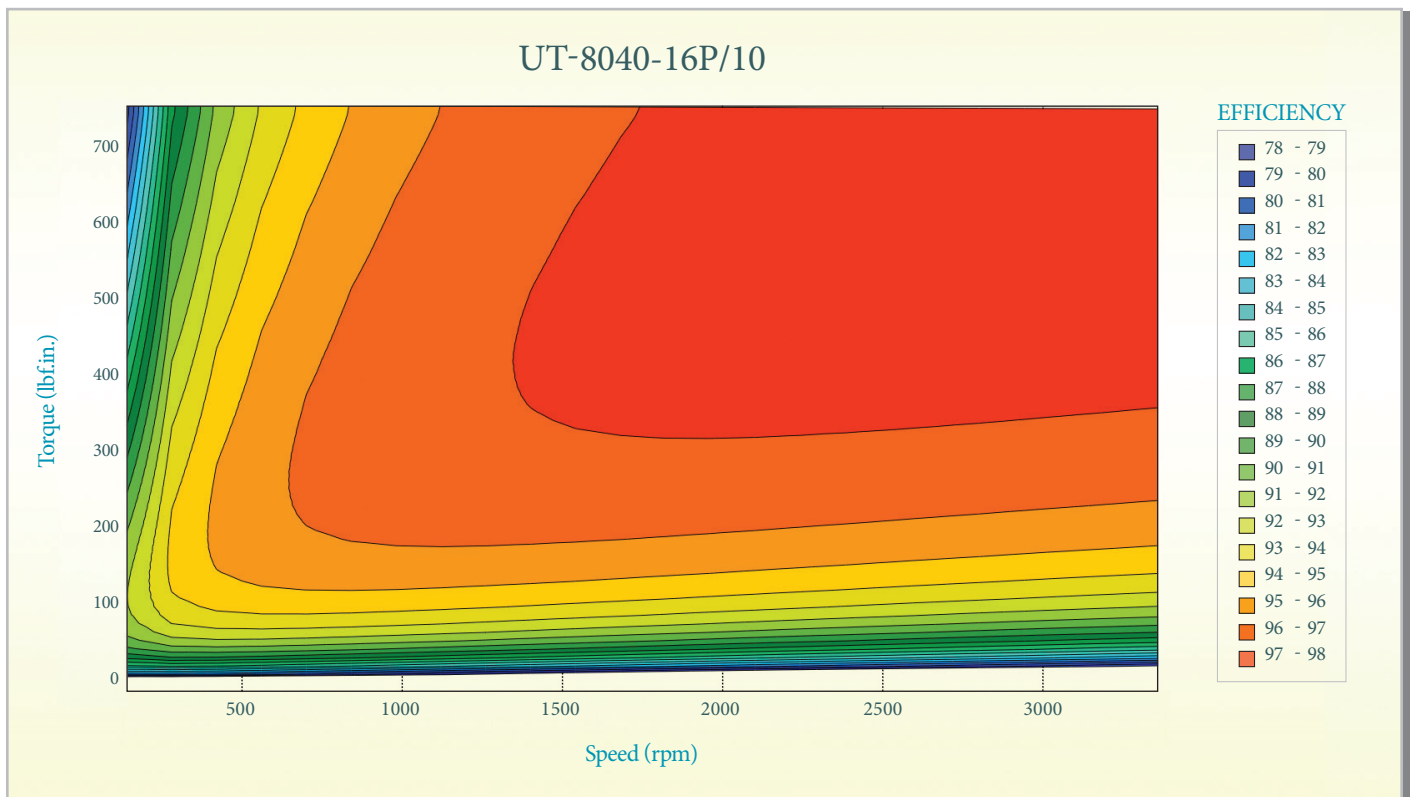
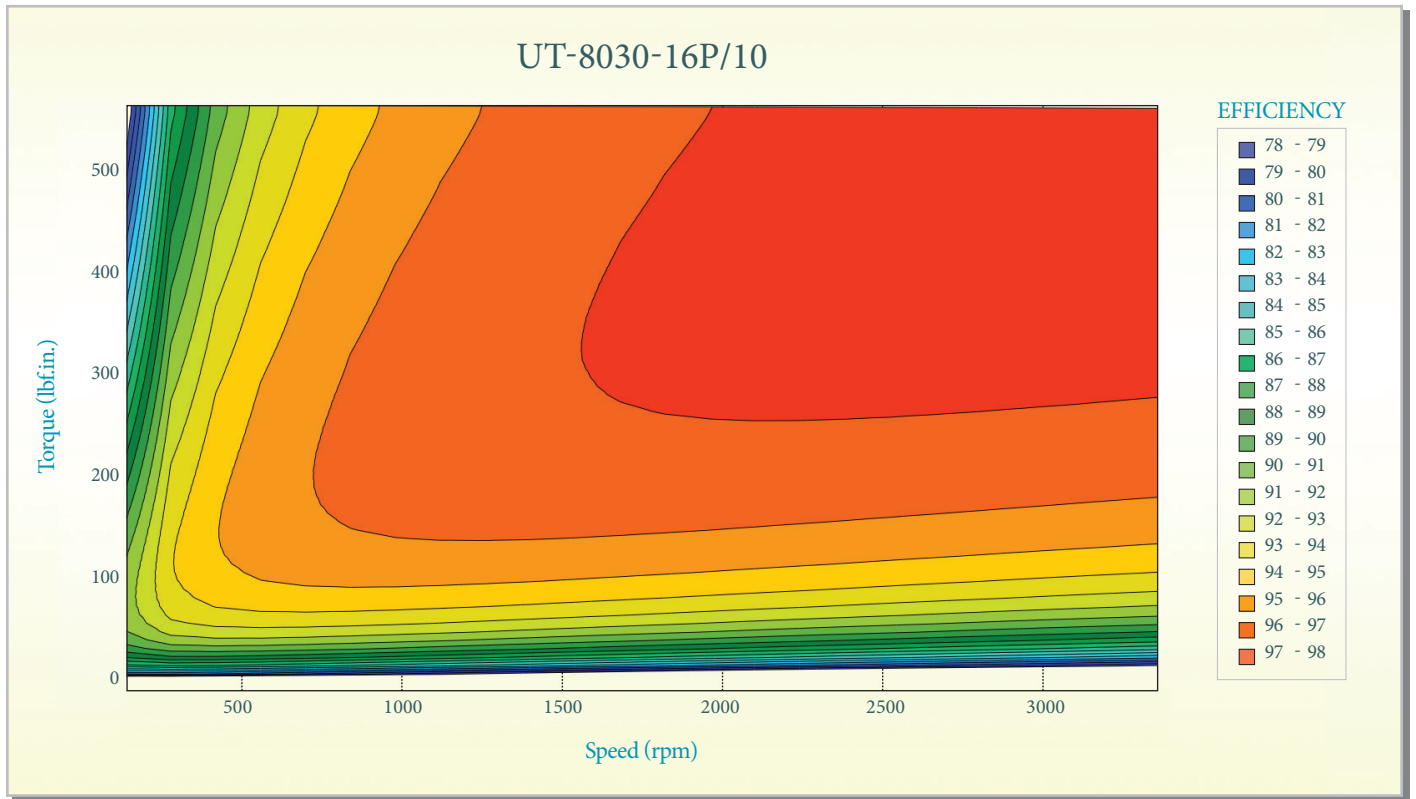
8.0" OD 18s16p Series Ultimate Torque Frameless Motors

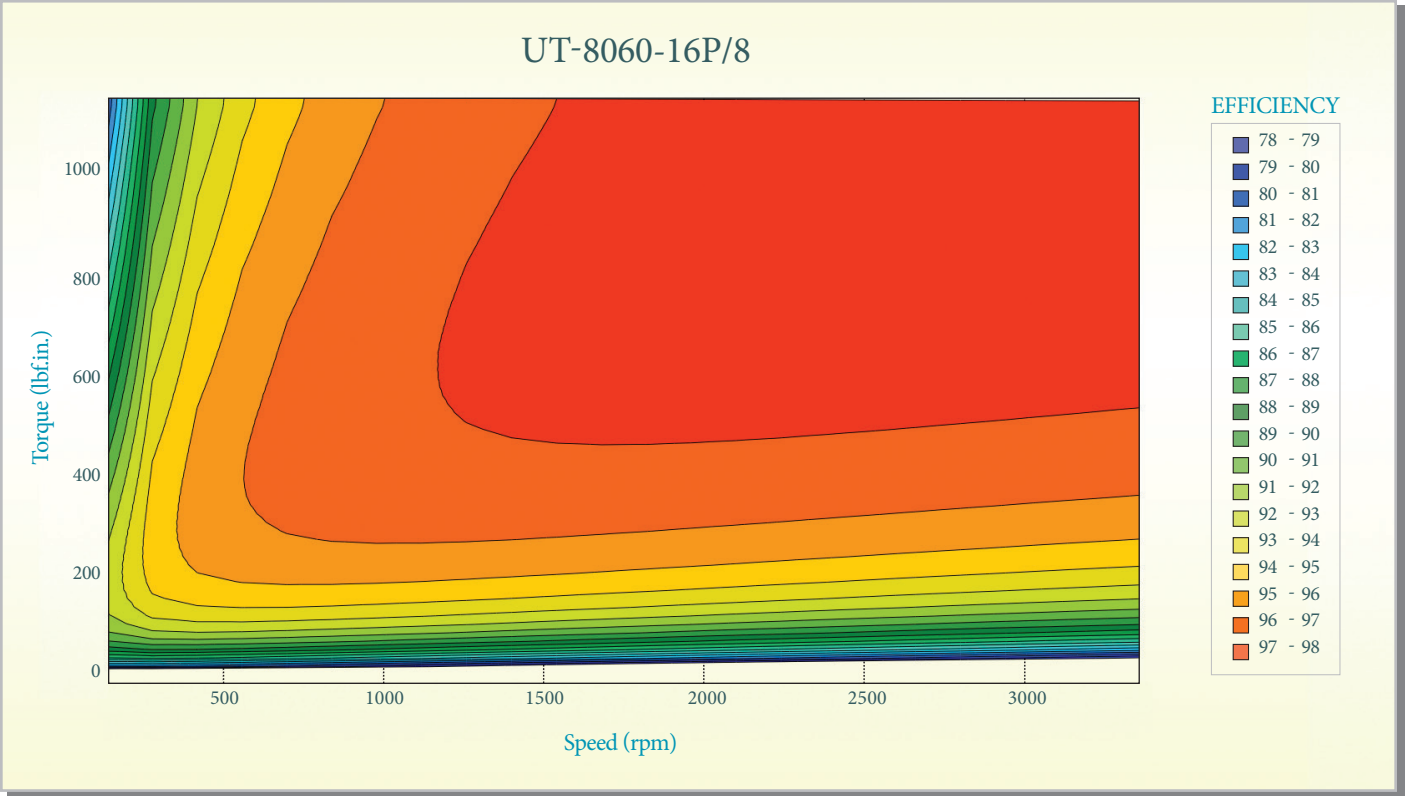
PERFORMANCE TABLE

GENERIC PART NUMBER	UT-8015-16P/10	UT-8020-16P/10	UT-8030-16P/10	UT-8040-16P/10	UT-8060-16P/8
AVEOX INTERNAL P/N (SENSORLESS)	6100337-01	6100337-02	6100337-03	6100337-04	6100337-05
STATOR OD (IN)	8				
STATOR STACK LENGTH (IN)	1.50	2.00	3.00	4.00	6.00
RATED SPEED (RPM)	2800				
RATED TORQUE (IN-LB)	205	273	409	546	818
Km (IN-LB/ $\sqrt{w}$)	20.44	25.47	34.12	41.49	53.41
MAGNETIC POLES	16				
WEIGHT (LB)	12.90	16.60	24.10	31.60	46.50
ROTOR INERTIA (KG*M ²)	8.67E-03	1.16E-02	1.73E-02	2.31E-02	3.46E-02
HYSTERESIS DRAG TORQUE (IN-LB)	1.93	2.57	3.85	5.14	7.67
ELECTROMAGNETIC VISCOUS DRAG (IN-LB/RPM)	7.58E-04	1.01E-03	1.52E-03	2.02E-03	3.03E-03
COGGING TORQUE, PEAK (IN-LB)	1.06	1.41	2.12	2.83	4.24
Kt (IN-LB/Arms)	6.82	9.09	13.64	18.19	21.80
Ke (V/1krPM, PEAK)	71.43	95.24	142.86	190.48	228.58
INDUCTANCE (L-L, mH)	0.538	0.706	1.042	1.378	1.313
RESISTANCE (L-L, Ω)	0.074	0.085	0.107	0.128	0.111
TEMPERATURE SENSORS	2X OMEGA RTD, P/N RTD-1-F3105-36-T-B				
LEAD WIRE AWG PER M22759/11	12				

EFFICIENCY MAPS







SPECIFICATIONS

PART NUMBER	DESCRIPTION	ROTOR LENGTH "R"	LEAD WIRE AWG	LEAD WIRE LENGTH "L"	STACK LENGTH "Z" INCLUDING ENDLAM	ENDTURN HEIGHT, LEAD SIDE "X"	ENDTURN HEIGHT, BOTTOM "Y"
6100337-01	O&M DWG STATOR AND ROTOR SET UT-8015-16P/10, SENSORLESS	1.500	12	12	1.58	0.9	0.7
6100337-02	O&M DWG STATOR AND ROTOR SET UT-8020-16P/10, SENSORLESS	2.000	12	12	2.08	0.9	0.7
6100337-03	O&M DWG STATOR AND ROTOR SET UT-8030-16P/10, SENSORLESS	3.000	12	12	3.08	0.9	0.7
6100337-04	O&M DWG STATOR AND ROTOR SET UT-8040-16P/10, SENSORLESS	4.000	12	12	4.08	0.9	0.7
6100337-05	O&M DWG STATOR AND ROTOR SET UT-8060-16P/8, SENSORLESS	6.000	12	12	6.08	0.9	0.7

OUTLINE DRAWING

