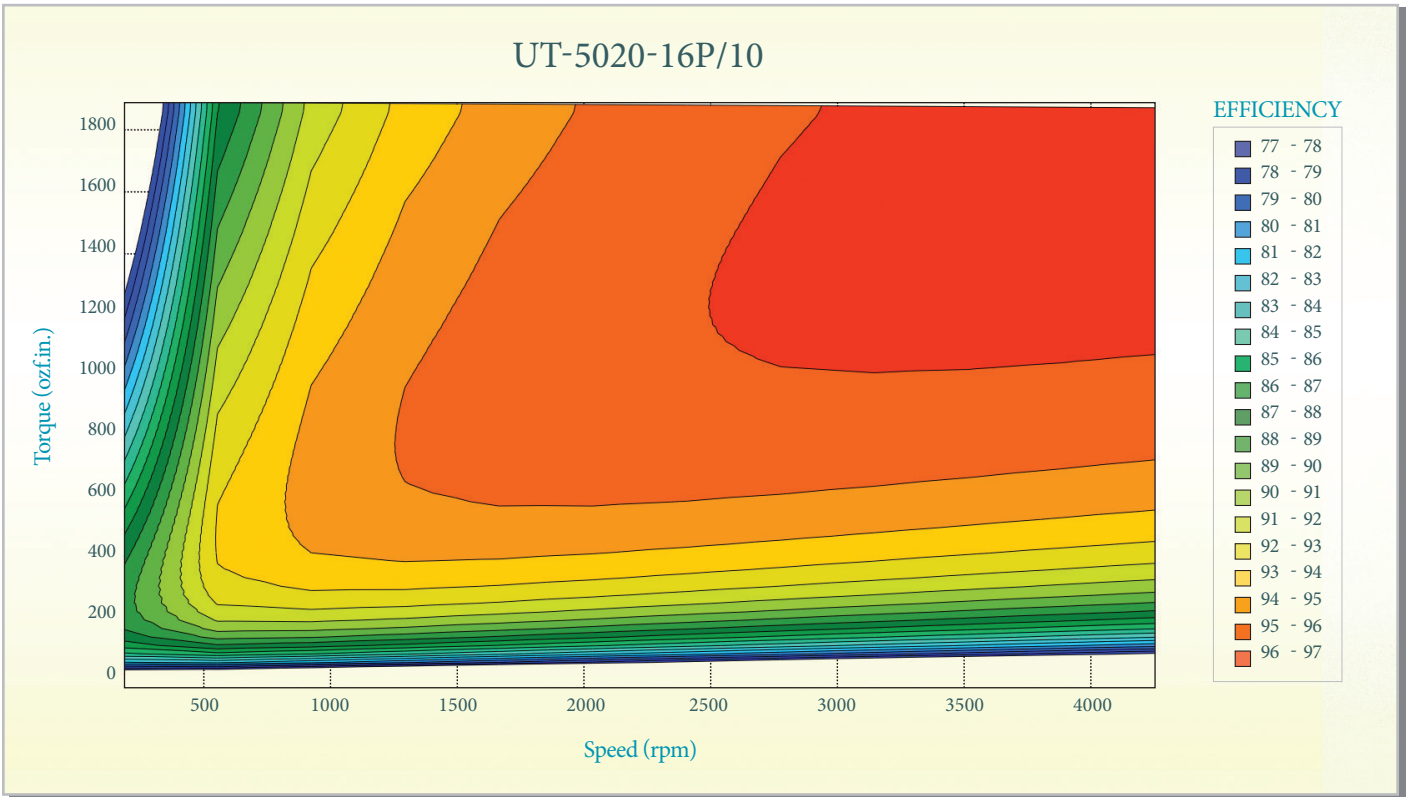
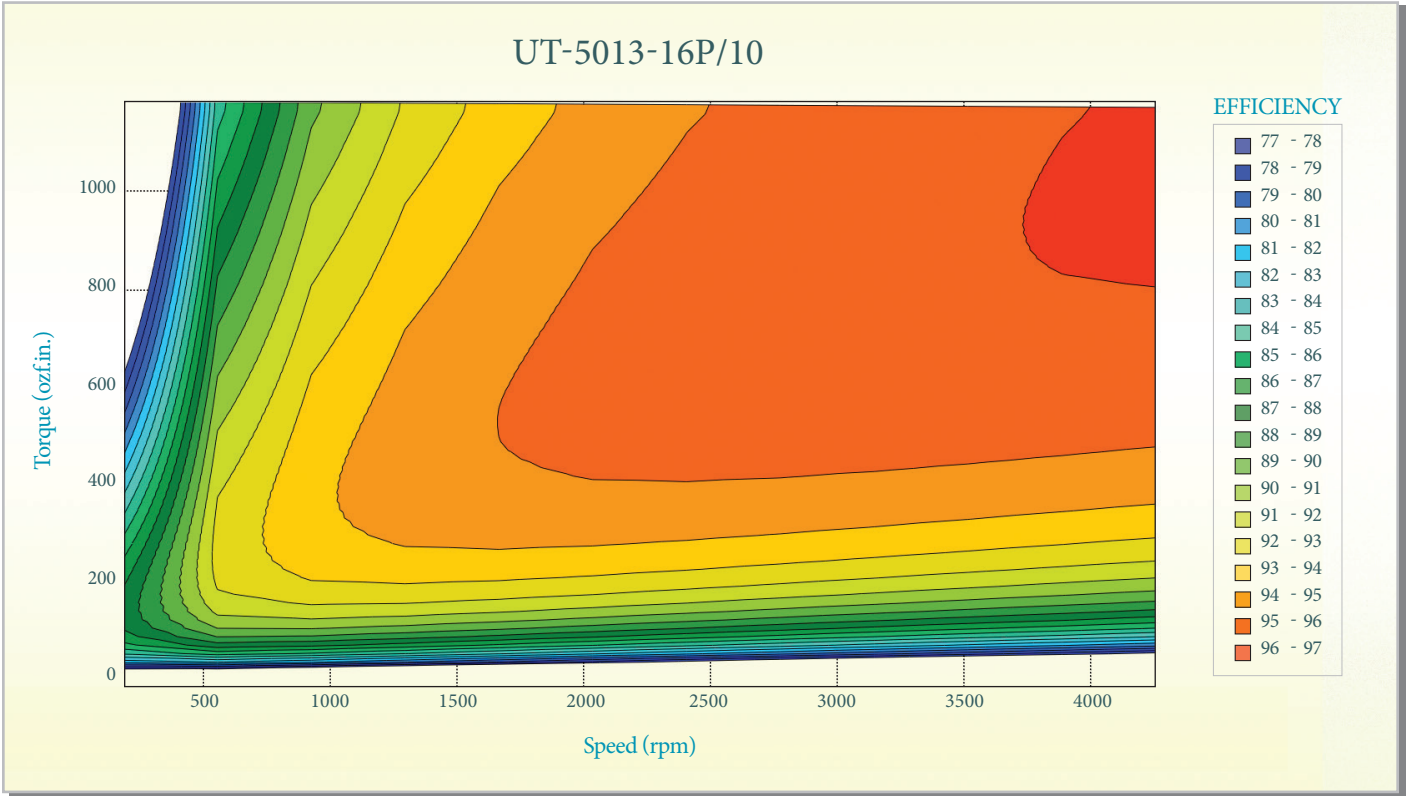


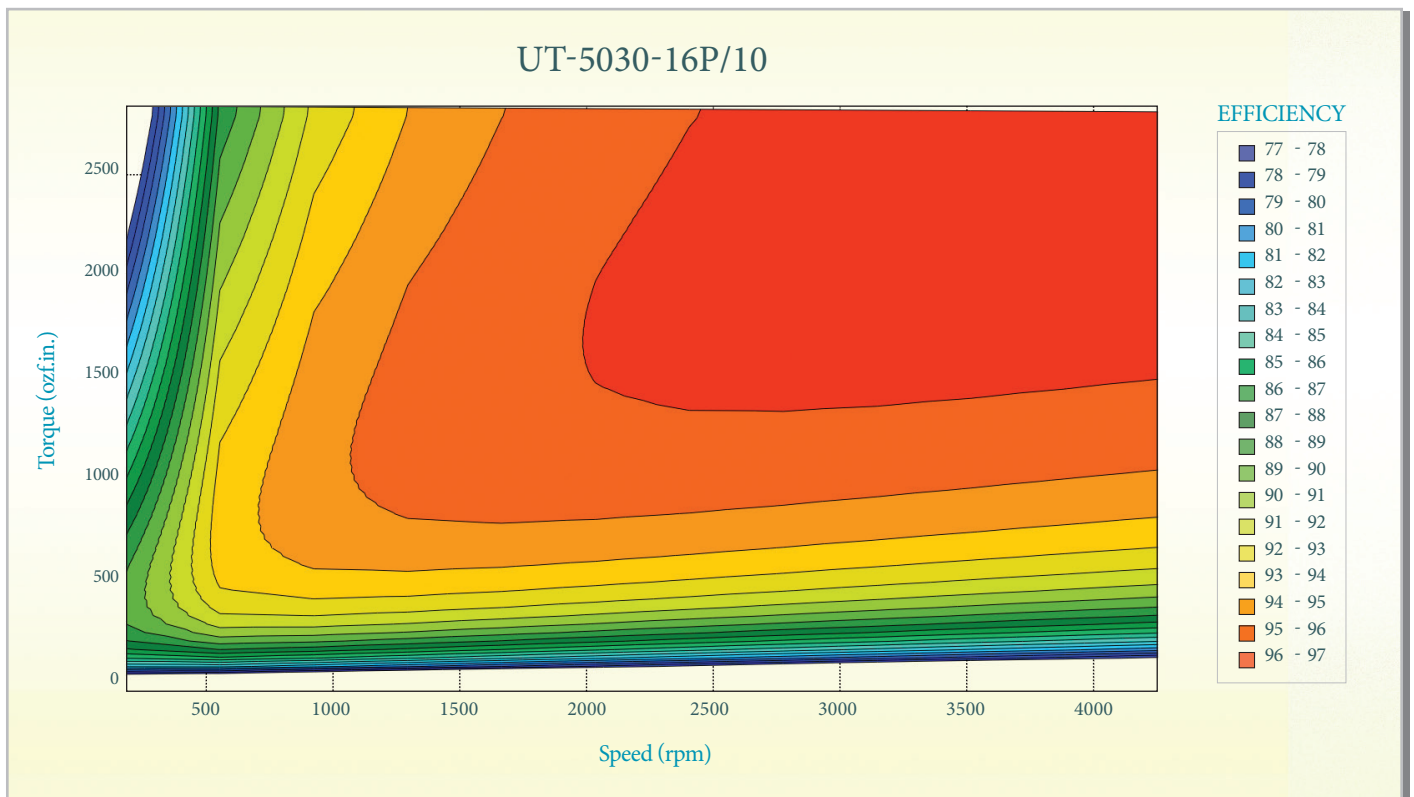
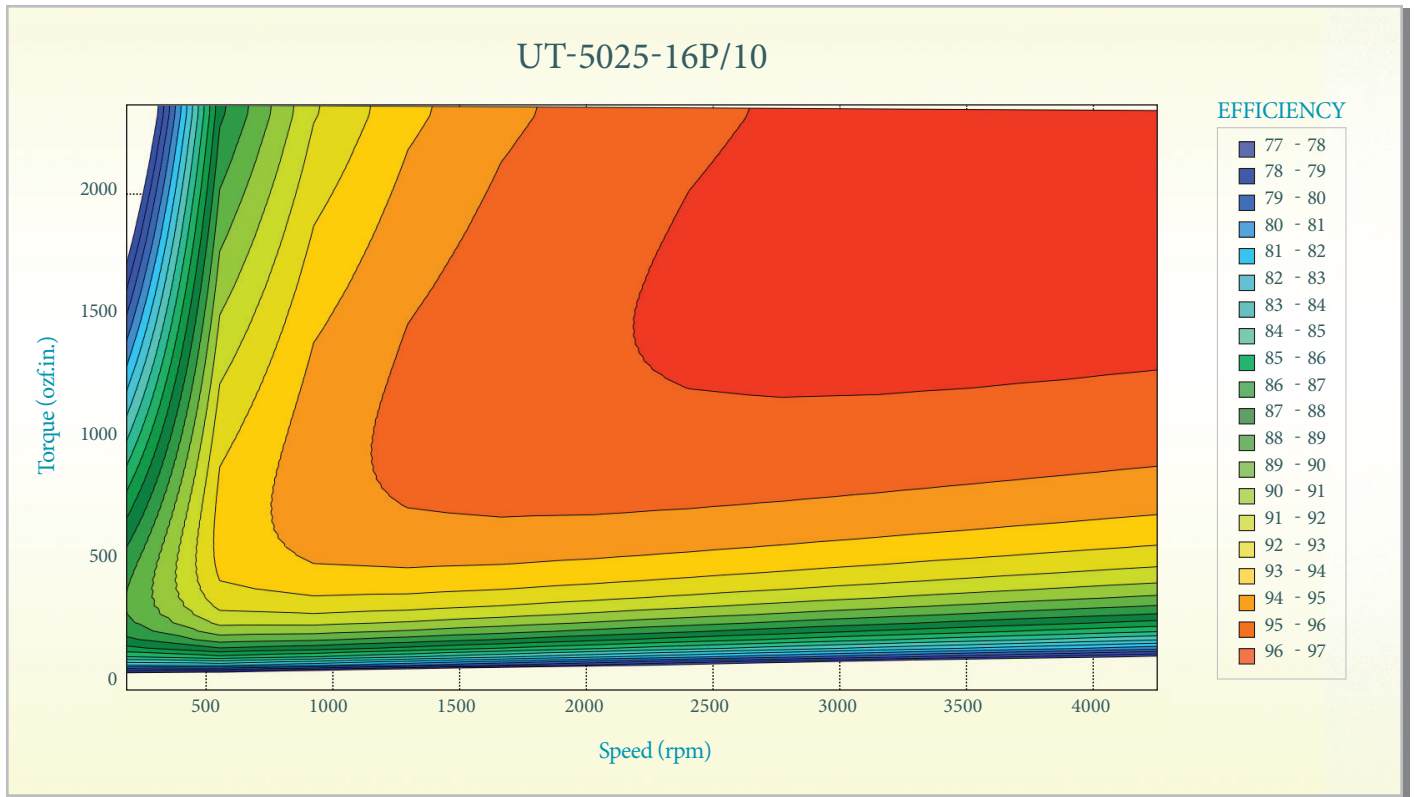
5.0" OD 18s16p Series Ultimate Torque Frameless Motors

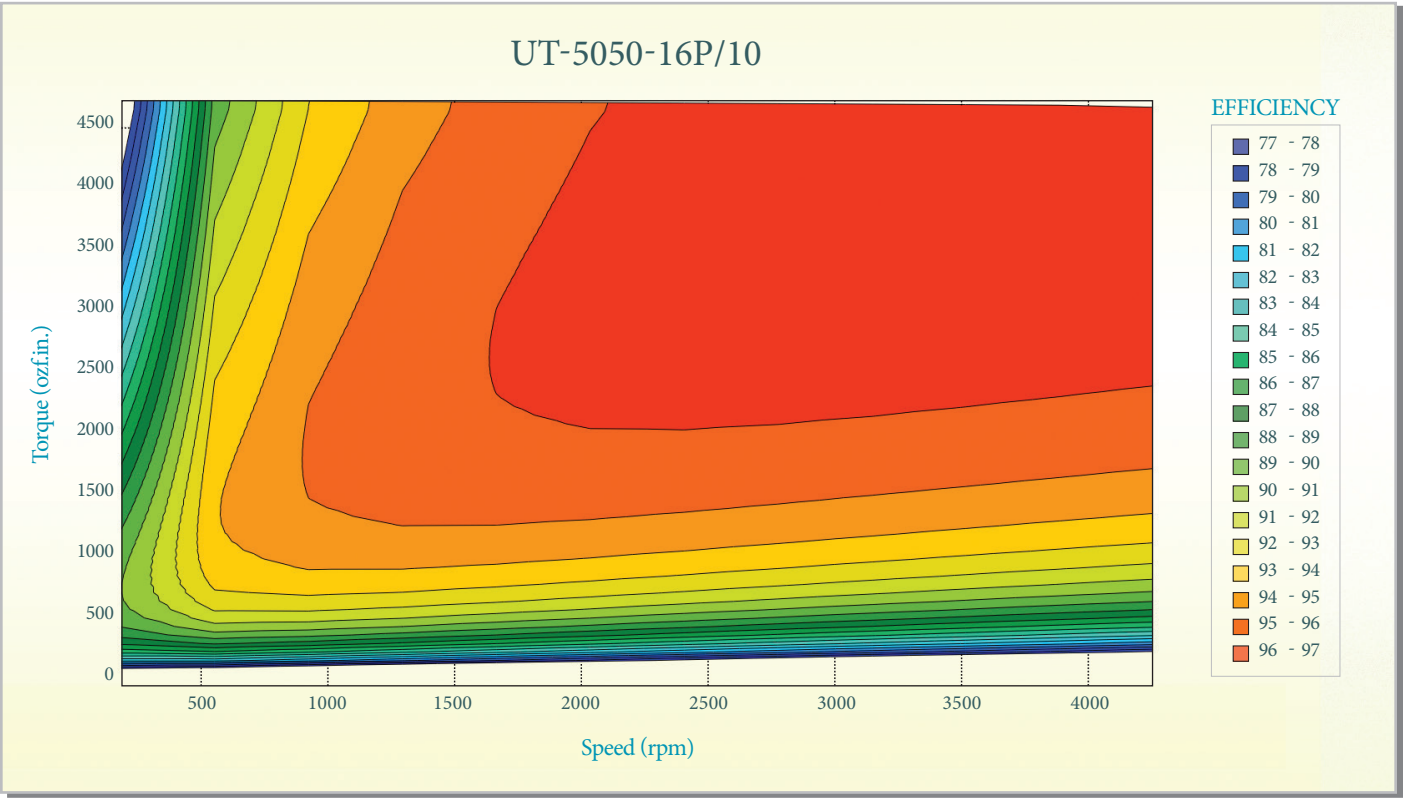
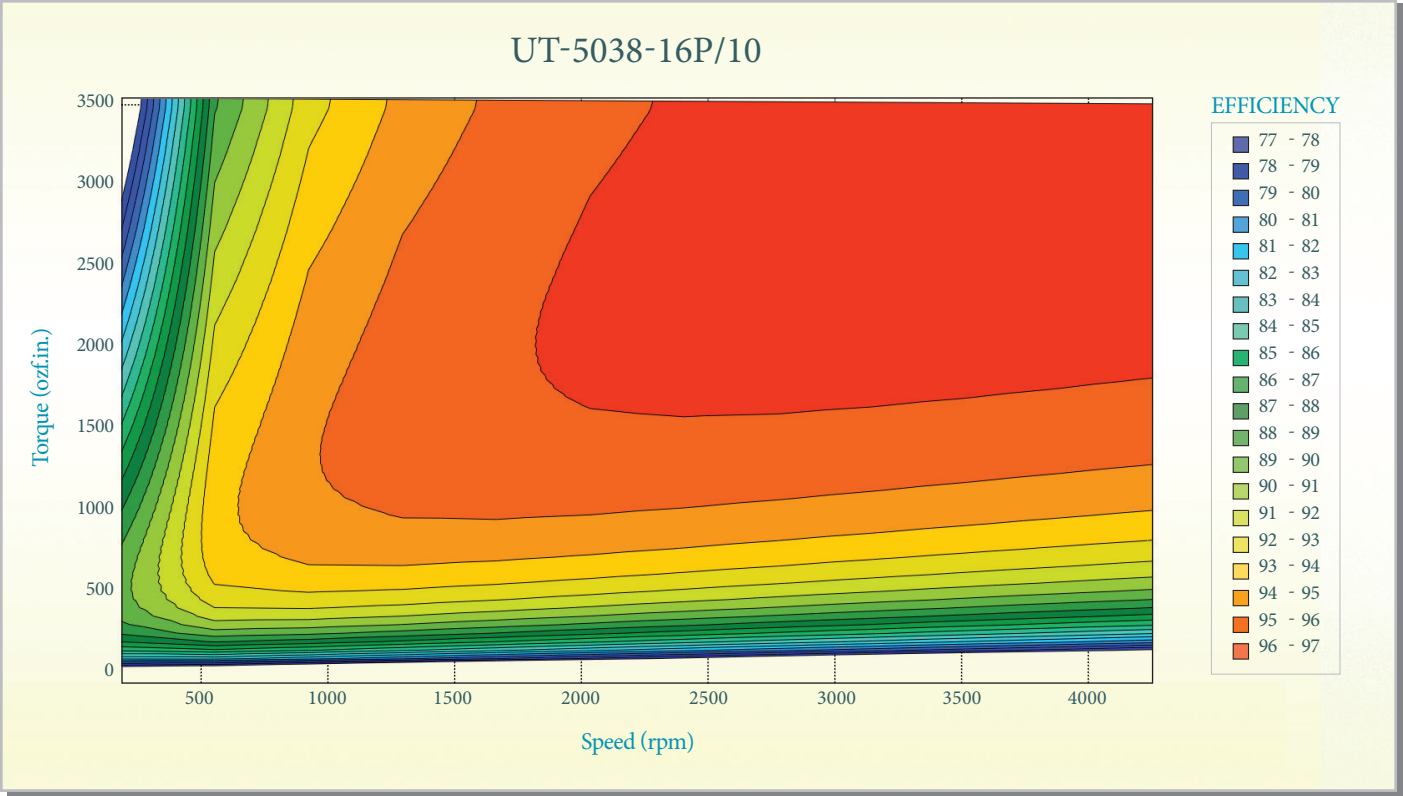
PERFORMANCE TABLE

GENERIC PART NUMBER	UT-5013-16P/10	UT-5020-16P/10	UT-5025-16P/10	UT-5030-16P/10	UT-5038-16P/10	UT-5050-16P/10
AVEOX INTERNAL P/N (SENSORLESS)	6100334-01	6100334-05	6100334-02	6100334-06	6100334-03	6100334-04
STATOR OD (IN)	5					
STATOR STACK LENGTH (IN)	1.25	2.00	2.50	3.00	3.75	5.00
RATED SPEED (RPM)	3700					
RATED TORQUE (IN-OZ)	829	1327	1659	1990	2488	3315
Km (IN-OZ/ $\sqrt{w}$)	126.84	177.85	206.89	233.15	268.61	320.00
MAGNETIC POLES	16					
WEIGHT (OZ)	66.70	102.00	126.00	150.00	185.00	245.00
ROTOR INERTIA (KG*M ²)	9.11E-04	1.45E-03	1.82E-03	2.18E-03	2.72E-03	3.63E-03
HYSTERESIS DRAG TORQUE (IN-OZ)	9.88	15.81	19.76	23.71	29.64	39.51
ELECTROMAGNETIC VISCOUS DRAG (IN-OZ/RPM)	3.75E-03	6.00E-03	7.50E-03	9.00E-03	1.13E-02	1.50E-02
COGGING TORQUE, PEAK (IN-OZ)	6.94	11.1	13.9	16.6	20.8	27.7
Kt (IN-OZ/Arms)	55.29	88.46	110.58	132.69	165.86	221.00
Ke (V/1krPM, PEAK)	35.57	56.92	71.15	85.37	106.72	142.29
INDUCTANCE (L-L, mH)	0.417	0.654	0.813	0.971	1.209	1.605
RESISTANCE (L-L, Ω)	0.127	0.165	0.190	0.216	0.254	0.318
TEMPERATURE SENSORS	2X OMEGA RTD, P/N RTD-1-F3105-36-T-B					
LEAD WIRE AWG PER M22759/11	14					

EFFICIENCY MAPS



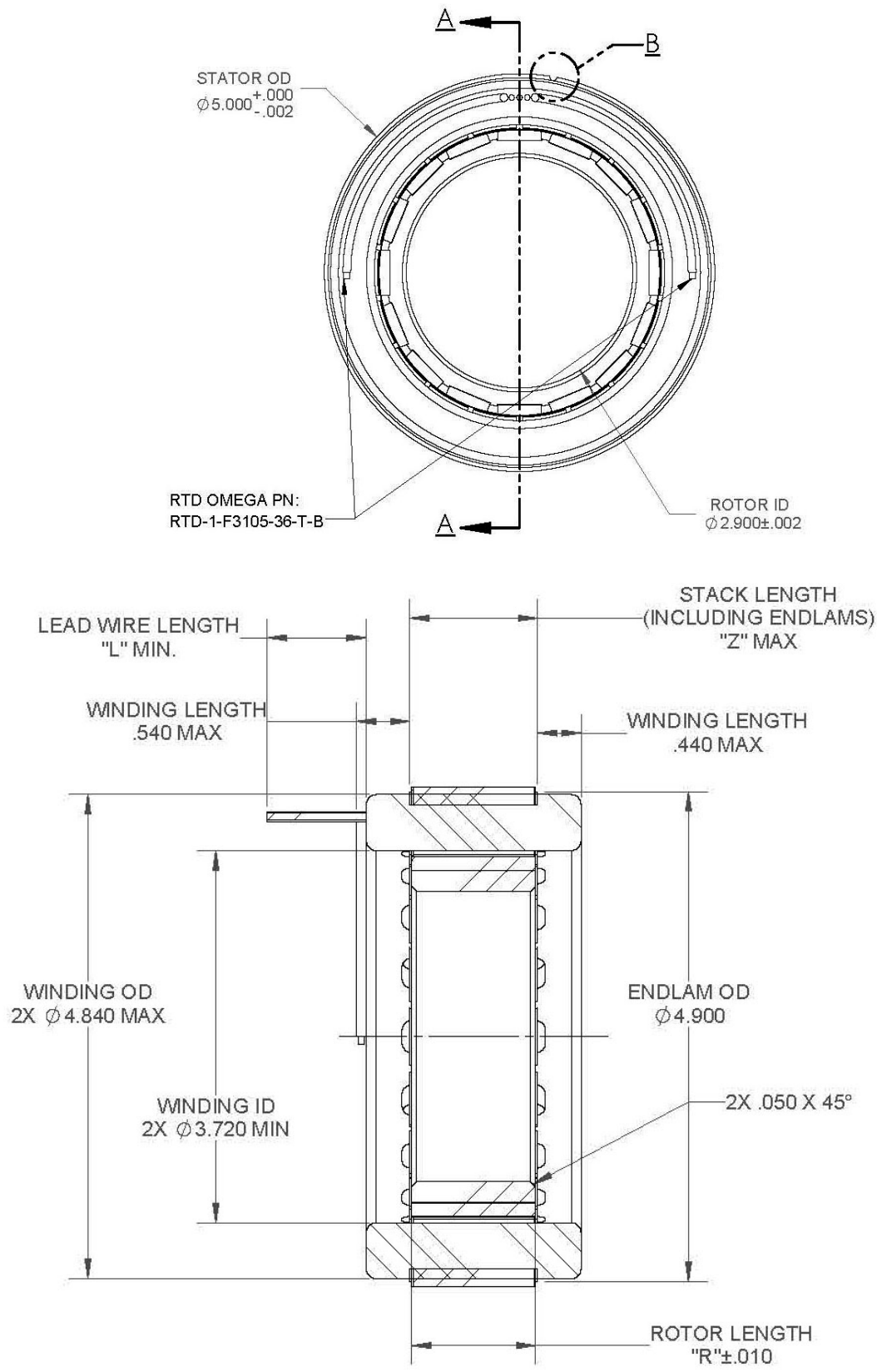




SPECIFICATIONS

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"
6100334-01	O&M DWG STATOR AND ROTOR SET UT-5013-16P/10, SENSORLESS	1.250	14	12	1.33	0.56	0.46
6100334-05	O&M DWG STATOR AND ROTOR SET UT-5020-16P/10, SENSORLESS	2.000	14	12	2.08	0.56	0.46
6100334-02	O&M DWG STATOR AND ROTOR SET UT-5025-16P/10, SENSORLESS	2.500	14	12	2.58	0.56	0.46
6100334-06	O&M DWG STATOR AND ROTOR SET UT-5030-16P/10, SENSORLESS	3.000	14	12	3.08	0.56	0.46
6100334-03	O&M DWG STATOR AND ROTOR SET UT-5038-16P/10, SENSORLESS	3.750	14	12	3.83	0.56	0.46
6100334-04	O&M DWG STATOR AND ROTOR SET UT-5050-16P/10, SENSORLESS	5.000	14	12	5.08	0.56	0.46

OUTLINE DRAWING



SECTION A-A
SCALE 1 : 1.5