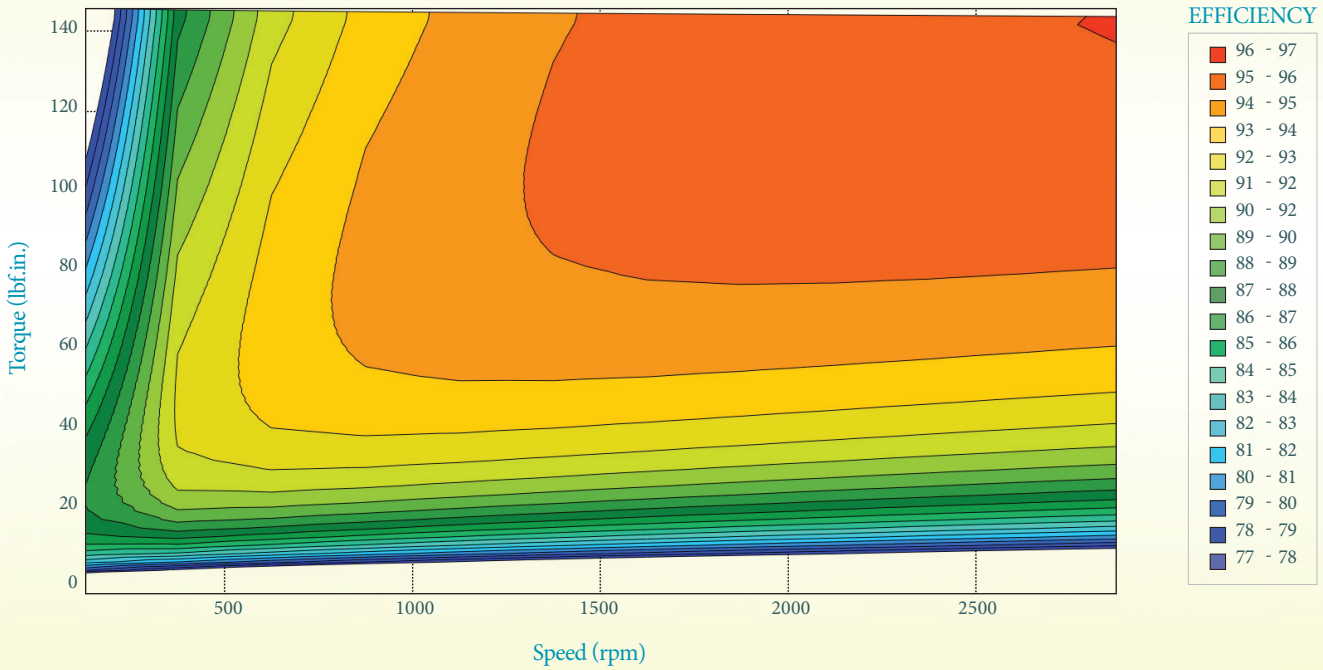
9.0" OD 36s32p Series Ultimate Torque Frameless Motors

PERFORMANCE TABLE

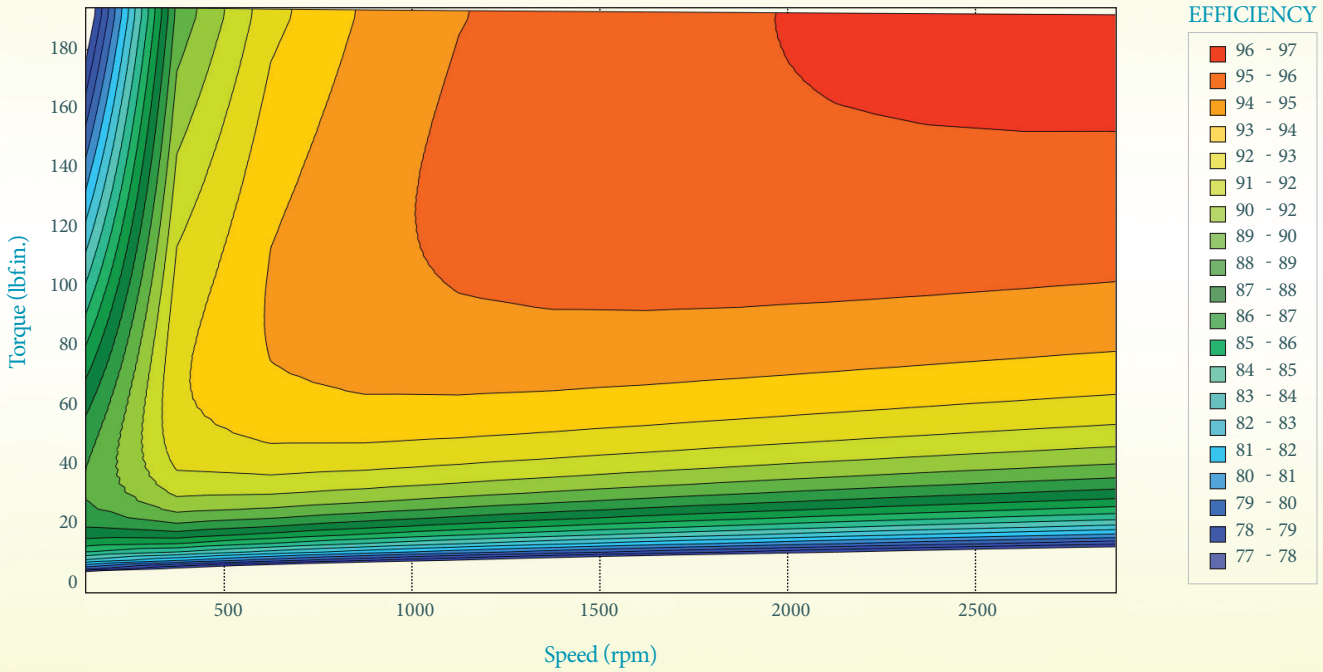
GENERIC PART NUMBER	UT-9008-32P/12	UT-9010-32P/12	UT-9015-32P/12	UT-9023-32P/12	UT-9030-32P/9
AVEOX INTERNAL P/N (SENSORLESS)	6100346-01	6100346-02	6100346-03	6100346-04	6100346-05
STATOR OD (IN)	9				
STATOR STACK LENGTH (IN)	0.75	1.00	1.50	2.25	3.00
RATED SPEED (RPM)	2500				
RATED TORQUE (IN-LB)	102	135	203	305	406
Km (IN-LB/$\sqrt{w}$)	15.66	19.79	27.06	36.24	43.42
MAGNETIC POLES	32				
WEIGHT (LB)	6.92	8.76	12.46	18.00	23.41
ROTOR INERTIA (KG*M^2)	6.46E-03	8.59E-03	1.28E-02	1.92E-02	2.56E-02
HYSTERESIS DRAG TORQUE (IN-LB)	1.59	2.13	3.19	4.78	6.38
ELECTROMAGNETIC VISCOUS DRAG (IN-LB/RPM)	1.16E-03	1.55E-03	2.32E-03	3.48E-03	4.64E-03
COGGING TORQUE, PEAK (IN-LB)	0.50	0.67	1.01	1.51	2.02
Kt (IN-LB/Arms)	9.67	12.89	19.33	29.00	29.00
Ke (V/1kRPM, PEAK)	99.42	132.56	198.85	298.27	298.27
INDUCTANCE (L-L, mH)	0.821	1.071	1.571	2.321	1.728
RESISTANCE (L-L, Ω)	0.254	0.283	0.340	0.427	0.297
TEMPERATURE SENSORS	2X OMEGA RTD, P/N RTD-1-F3105-36-T-B				
LEAD WIRE AWG PER M22759/9	14				

EFFICIENCY MAPS

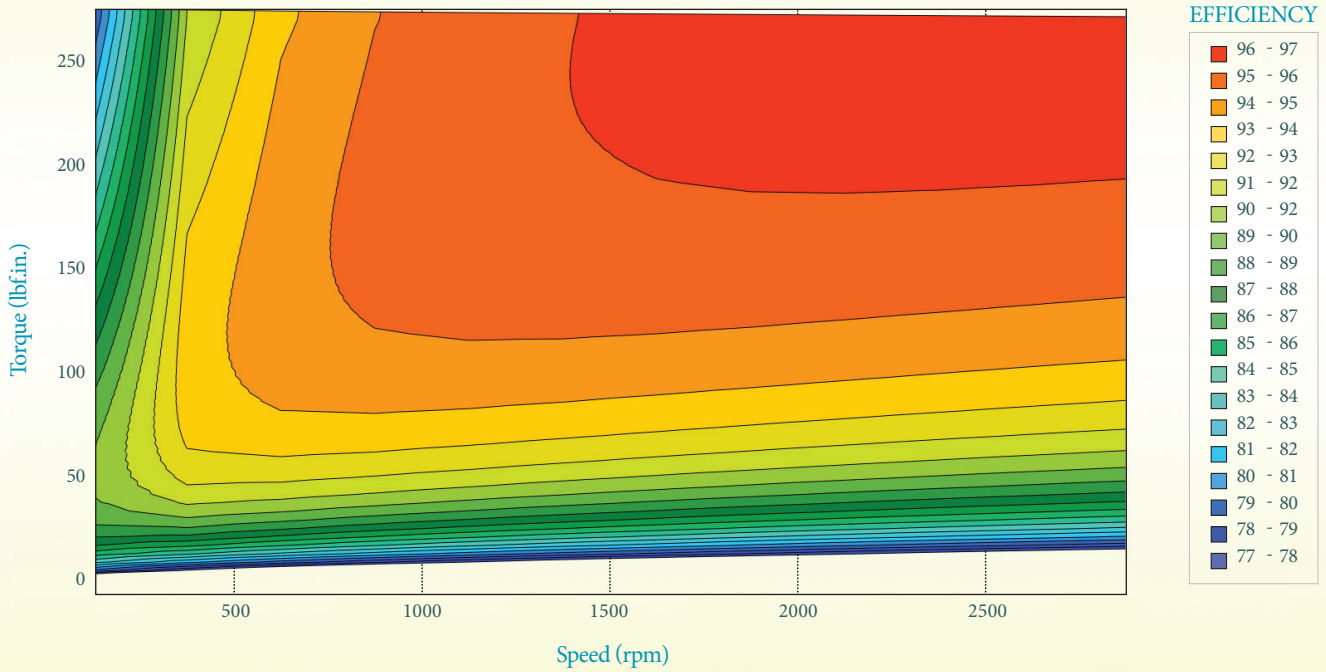
UT-9008-32P/12



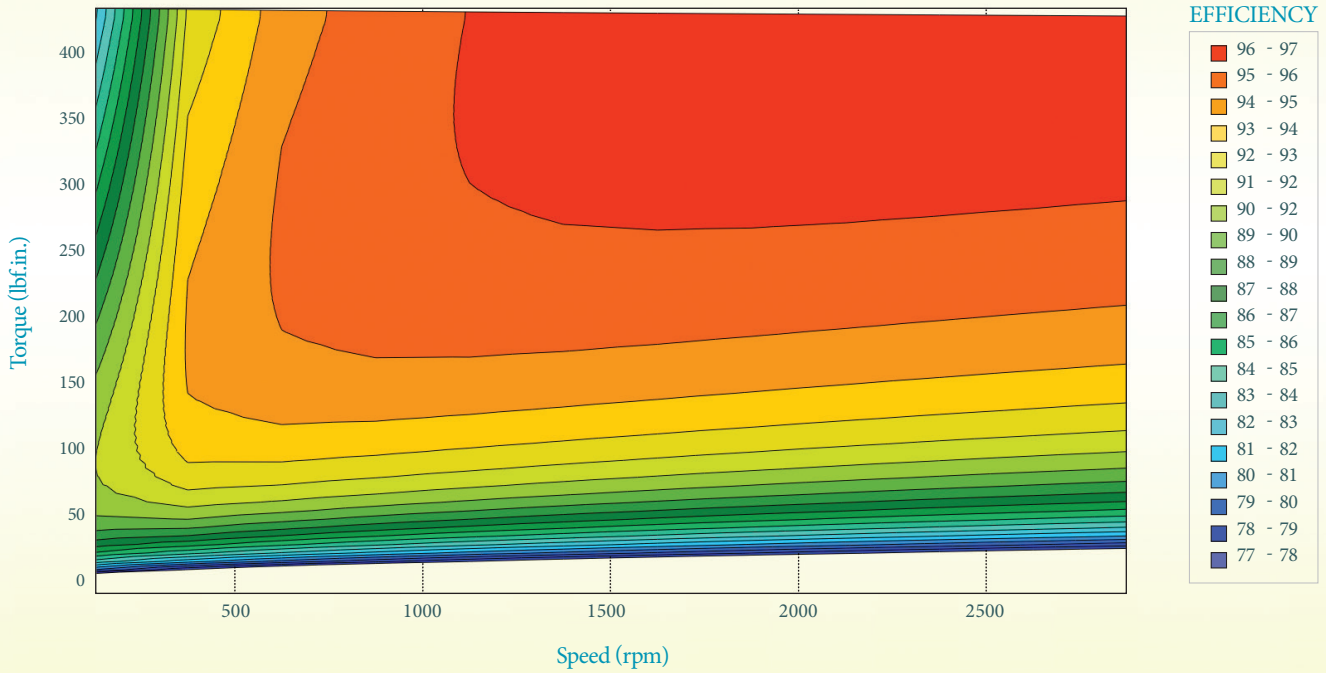
UT-9010-32P/12

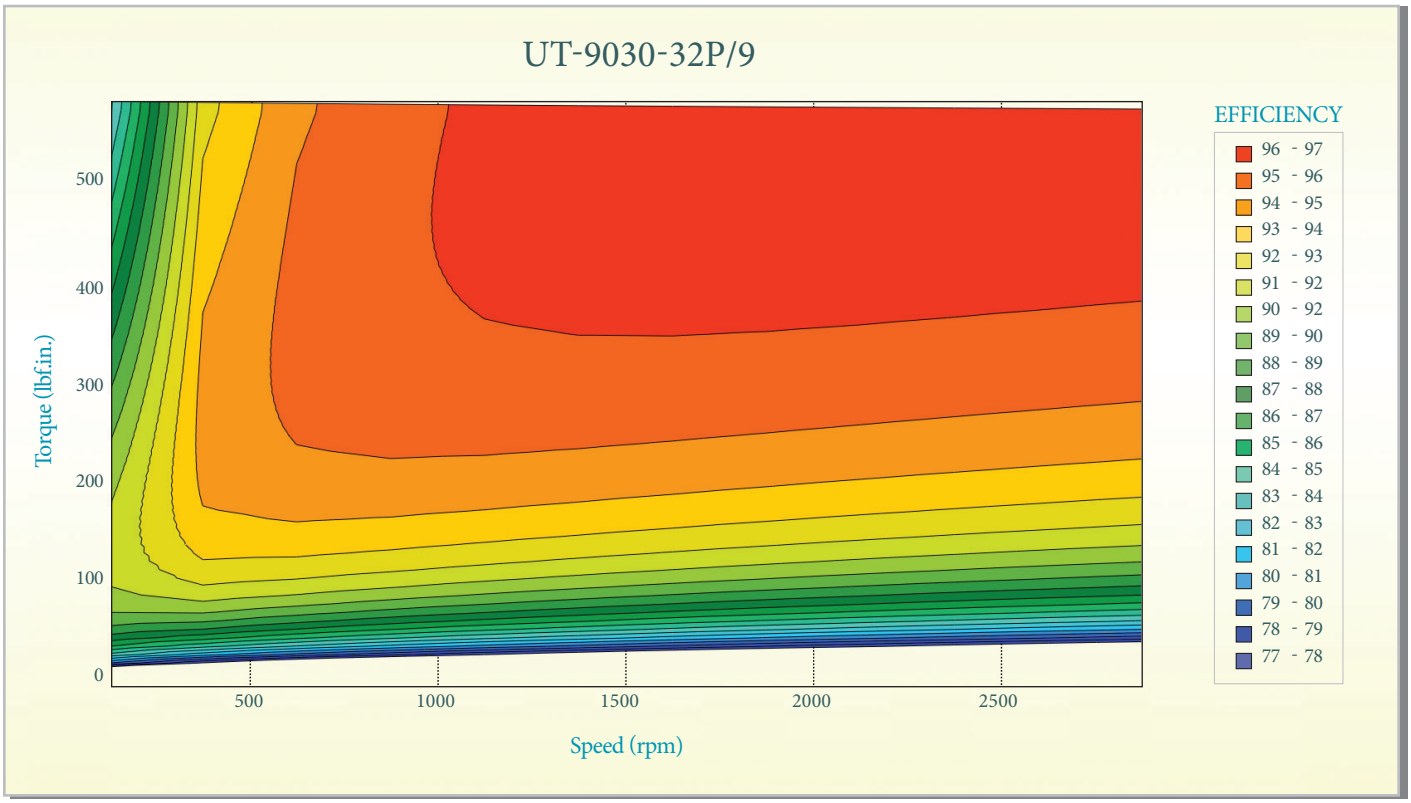


UT-9015-32P/12



UT-9023-32P/12

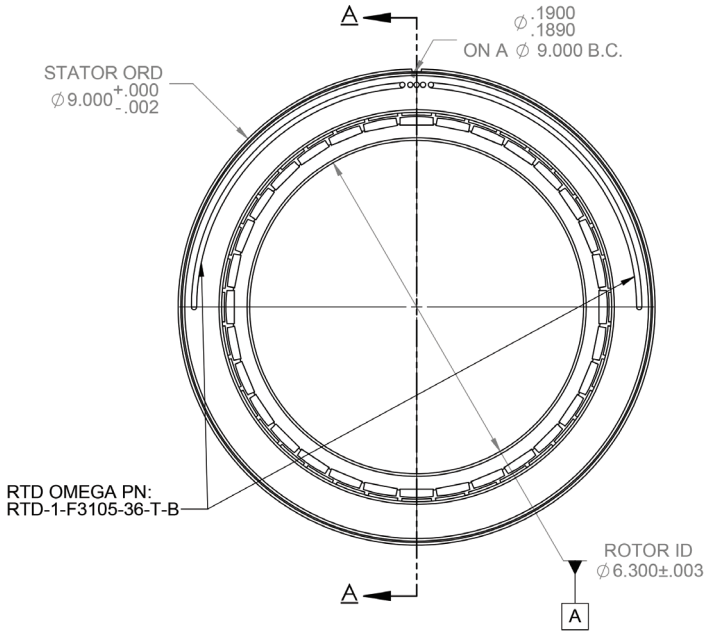


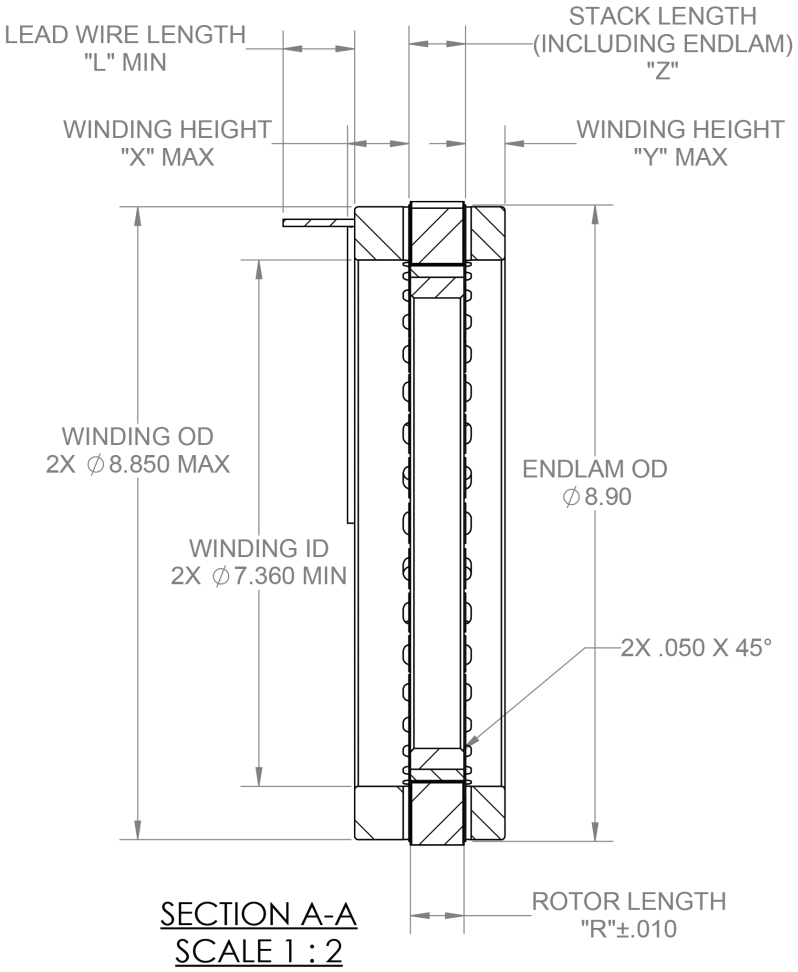


SPECIFICATIONS

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"
6100346-01	O&M DWG STATOR AND ROTOR SET UT-9008-32P/12, SENSORLESS	0.750	14	12	0.83	0.86	0.55
6100346-02	O&M DWG STATOR AND ROTOR SET UT-9010-32P/12, SENSORLESS	1.000	14	12	1.08	0.86	0.55
6100346-03	O&M DWG STATOR AND ROTOR SET UT-9015-32P/12, SENSORLESS	1.500	14	12	1.58	0.86	0.55
6100346-04	O&M DWG STATOR AND ROTOR SET UT-9023-32P/12, SENSORLESS	2.250	14	12	2.33	0.86	0.55
6100346-05	O&M DWG STATOR AND ROTOR SET UT-9030-32P/9, SENSORLESS	3.000	14	12	3.08	0.86	0.55

OUTLINE DRAWING





SECTION A-A
SCALE 1 : 2