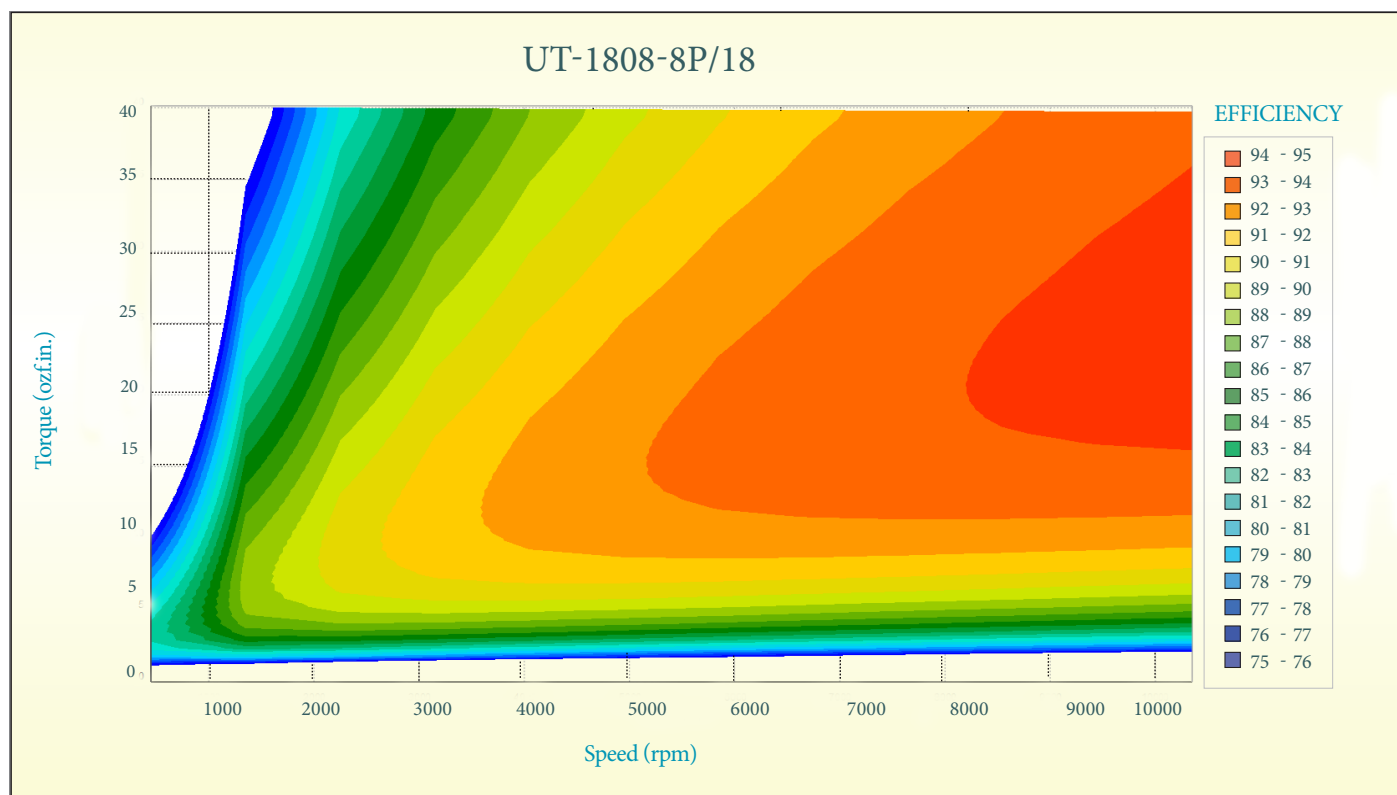
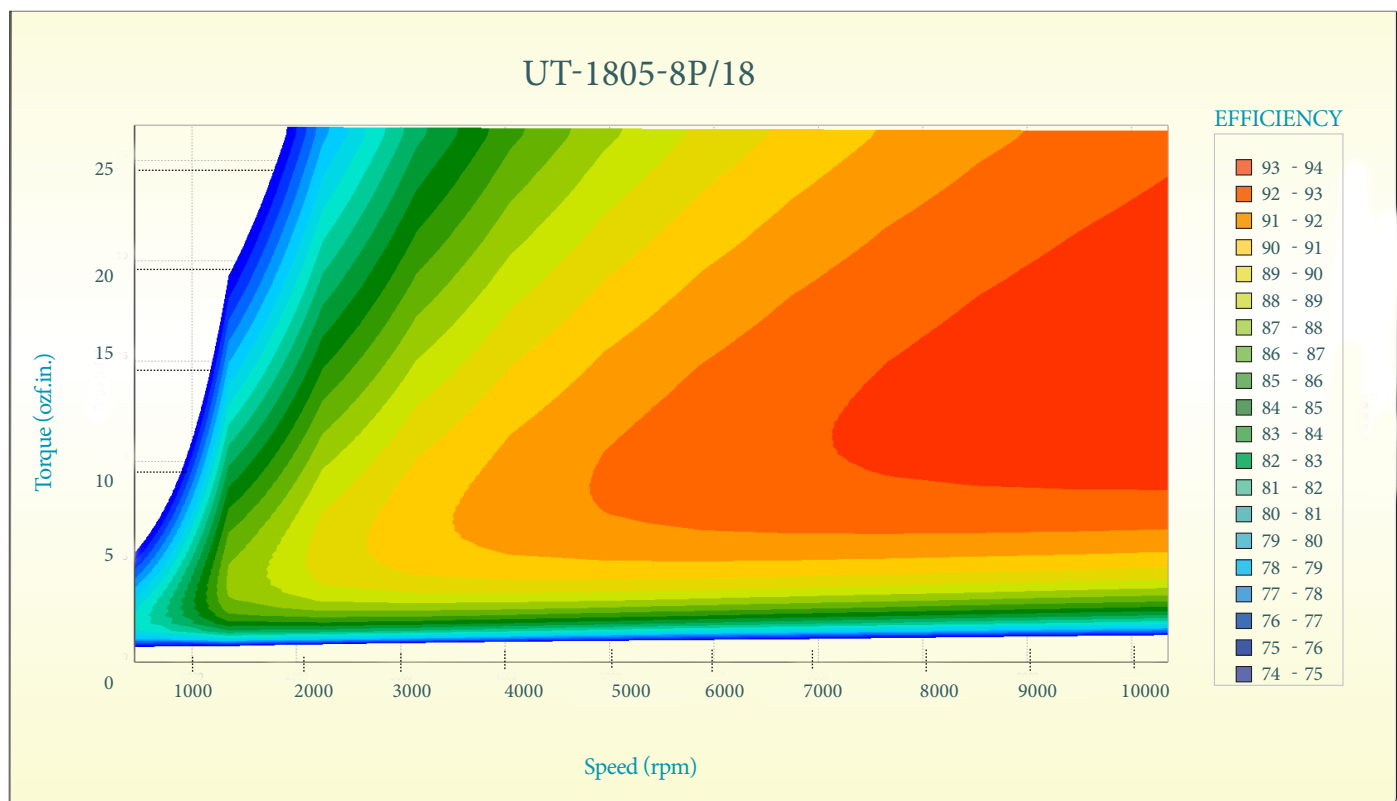


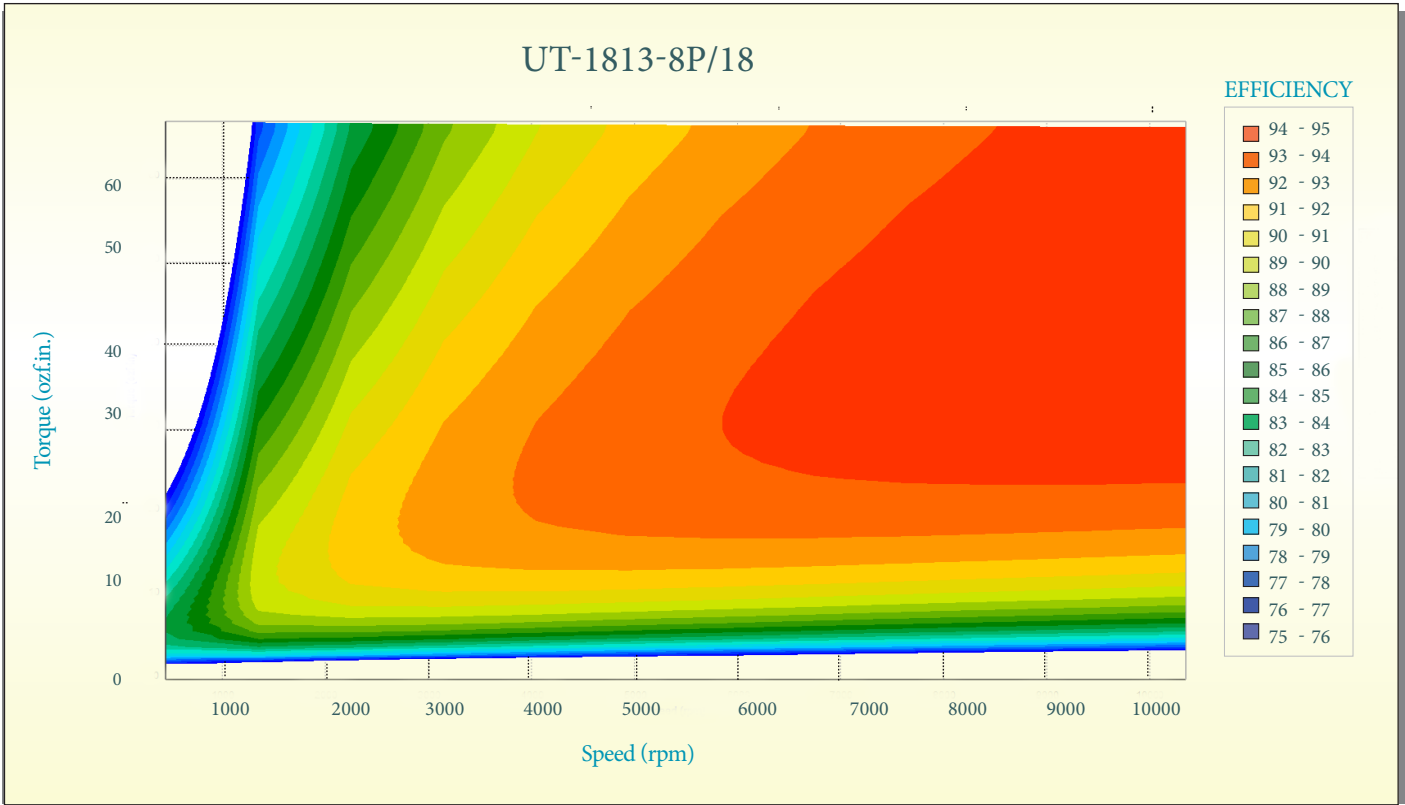
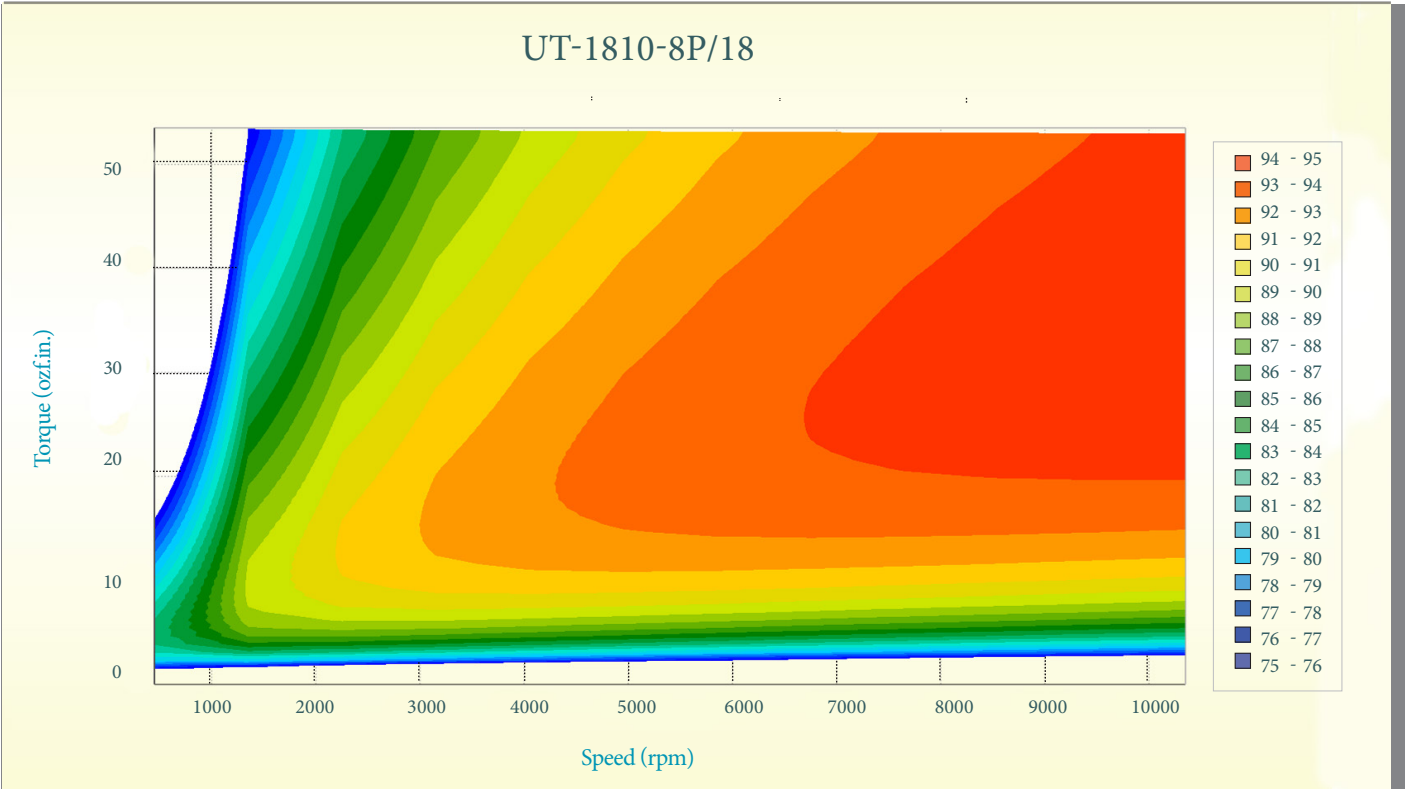
1.75" OD 9s8p Series Ultimate Torque Frameless Motors

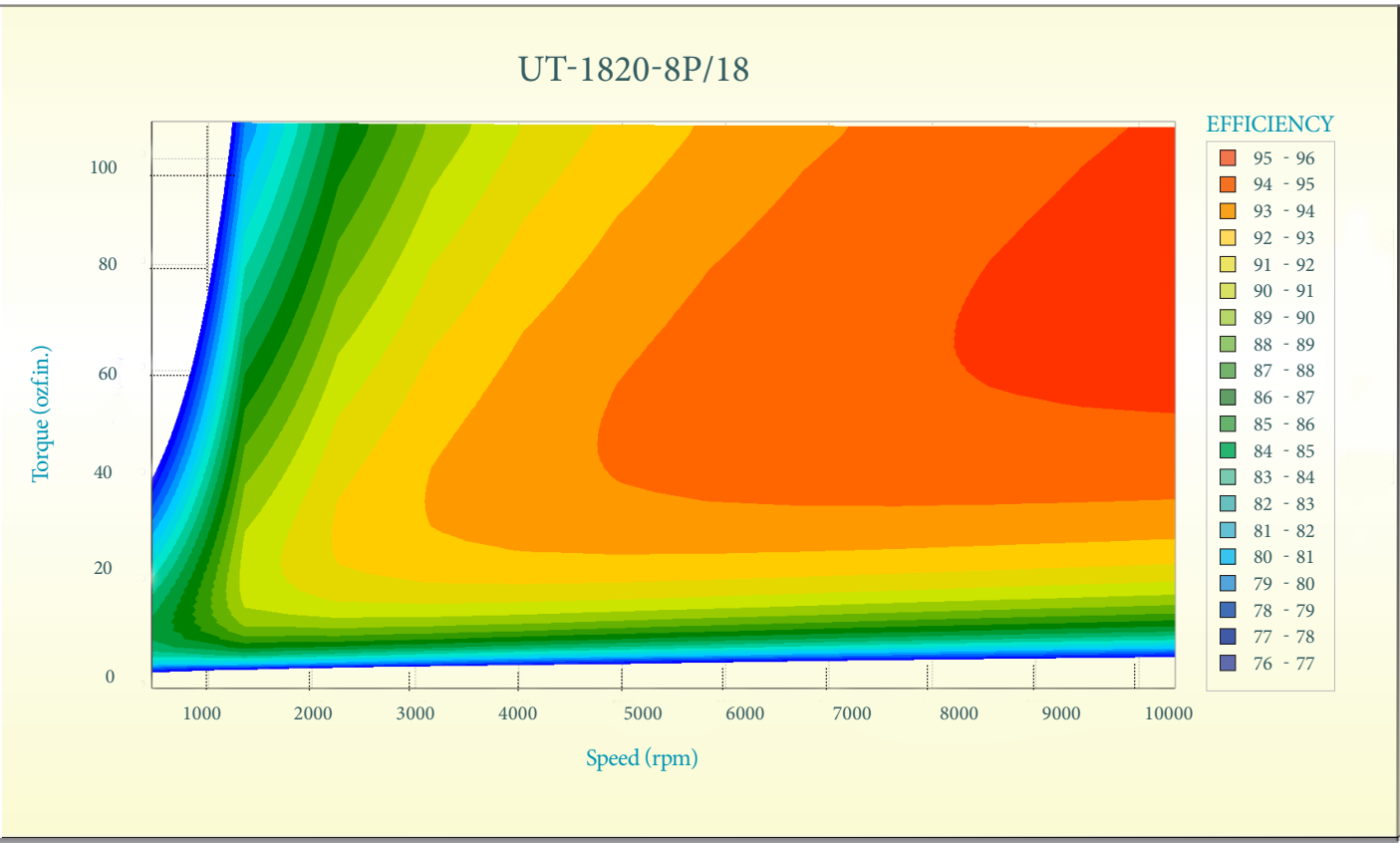
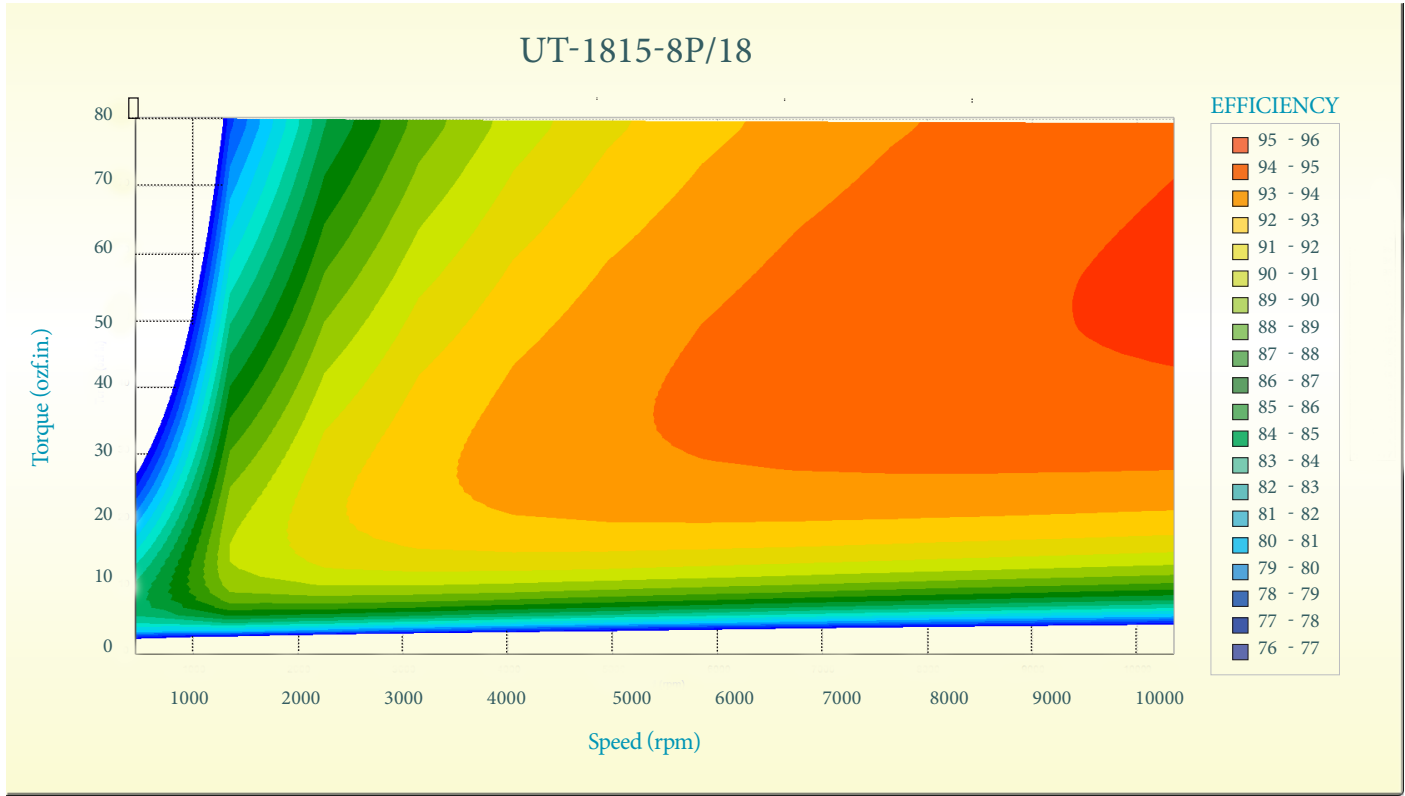
PERFORMANCE TABLE

GENERIC PART NUMBER	UT-1805-8P/18	UT-1808-8P/18	UT-1810-8P/18	UT-1813-8P/18	UT-1815-8P/18	UT-1820-8P/18
AVEOX INTERNAL P/N (SENSORLESS)	6100948-01	6100948-02	6100948-03	6100948-04	6100948-05	6100948-06
STATOR OD (IN)	1.75					
STATOR STACK LENGTH (IN)	0.50	0.75	1.00	1.25	1.50	2.00
RATED SPEED (RPM)	9000					
RATED TORQUE (IN-OZ)	19	28	38	47	56	75
K_m (IN-OZ/ $\sqrt{w}$)	7.54	10.32	12.74	14.89	16.84	20.31
MAGNETIC POLES	8					
WEIGHT (OZ)	4.70	6.50	8.30	10.20	12.00	15.70
ROTOR INERTIA (KG*M ²)	1.91E-06	2.84E-06	3.77E-06	4.71E-06	5.64E-06	7.51E-06
HYSTERESIS DRAG TORQUE (IN-OZ)	0.34	0.51	0.68	0.85	1.02	1.36
ELECTROMAGNETIC VISCOUS DRAG (IN-OZ/RPM)	1.25E-05	1.87E-05	2.50E-05	3.12E-05	3.75E-05	5.00E-5
COGGING TORQUE, PEAK (IN-OZ)	0.01	0.01	0.01	0.01	0.02	0.02
K_t (IN-OZ/Arms)	1.98	2.97	3.96	4.95	5.94	7.92
K_e (V/1krPM, PEAK)	1.23	1.85	2.47	3.08	3.70	4.93
INDUCTANCE (L-L, mH)	0.047	0.068	0.089	0.110	0.132	0.174
RESISTANCE (L-L, Ω)	0.046	0.055	0.064	0.074	0.083	0.101
TEMPERATURE SENSORS	OMEGA RTD, P/N RTD-1-F3105-36-T-B					
LEAD WIRE AWG PER M22759/11	18					

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"
6100948-01	O&M DWG STATOR AND ROTOR SET UT-1805-8P/18, SENSORLESS	0.500	18	12	0.58	0.5	0.3
6100948-02	O&M DWG STATOR AND ROTOR SET UT-1808-8P/18, SENSORLESS	0.750	18	12	0.83	0.5	0.3
6100948-03	O&M DWG STATOR AND ROTOR SET UT-1810-8P/18, SENSORLESS	1.000	18	12	1.08	0.5	0.3
6100948-04	O&M DWG STATOR AND ROTOR SET UT-1813-8P/18, SENSORLESS	1.250	18	12	1.33	0.5	0.3
6100948-05	O&M DWG STATOR AND ROTOR SET UT-1815-8P/18, SENSORLESS	1.500	18	12	1.58	0.5	0.3
6100948-06	O&M DWG STATOR AND ROTOR SET UT-1820-8P/18, SENSORLESS	2.000	18	12	2.08	0.5	0.3

OUTLINE DRAWING

