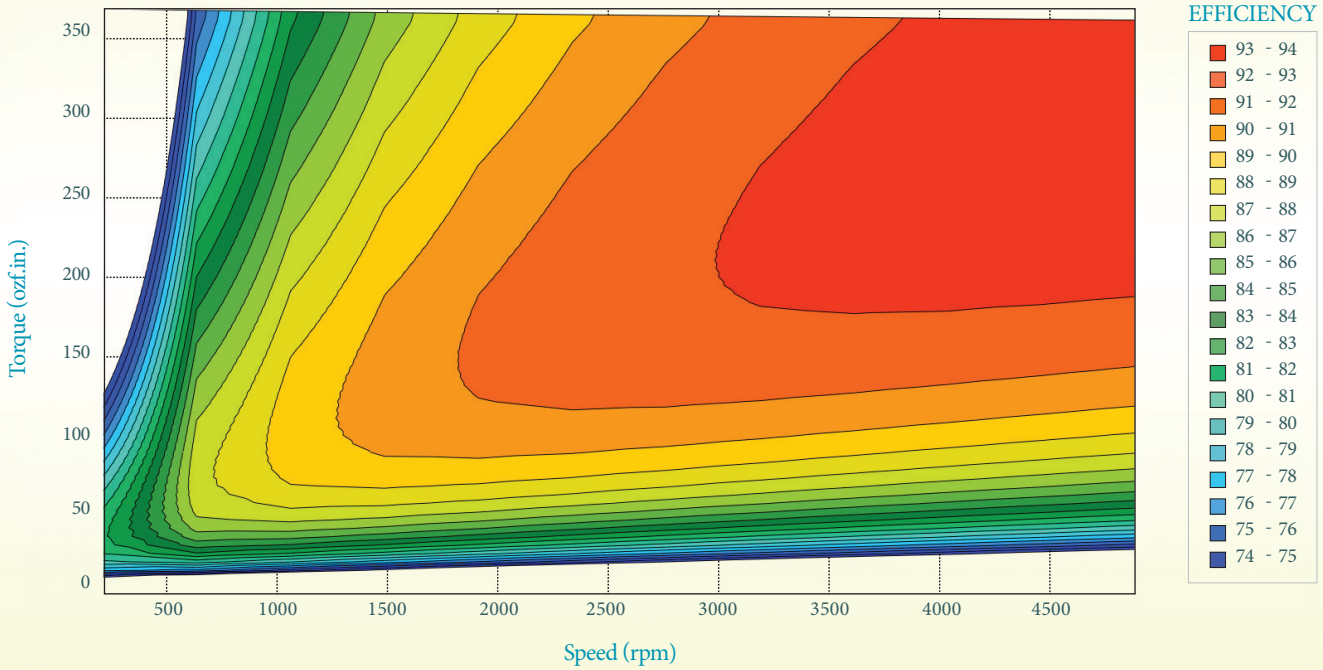
3.5" OD 18s16p Series Ultimate Torque Frameless Motors

PERFORMANCE TABLE

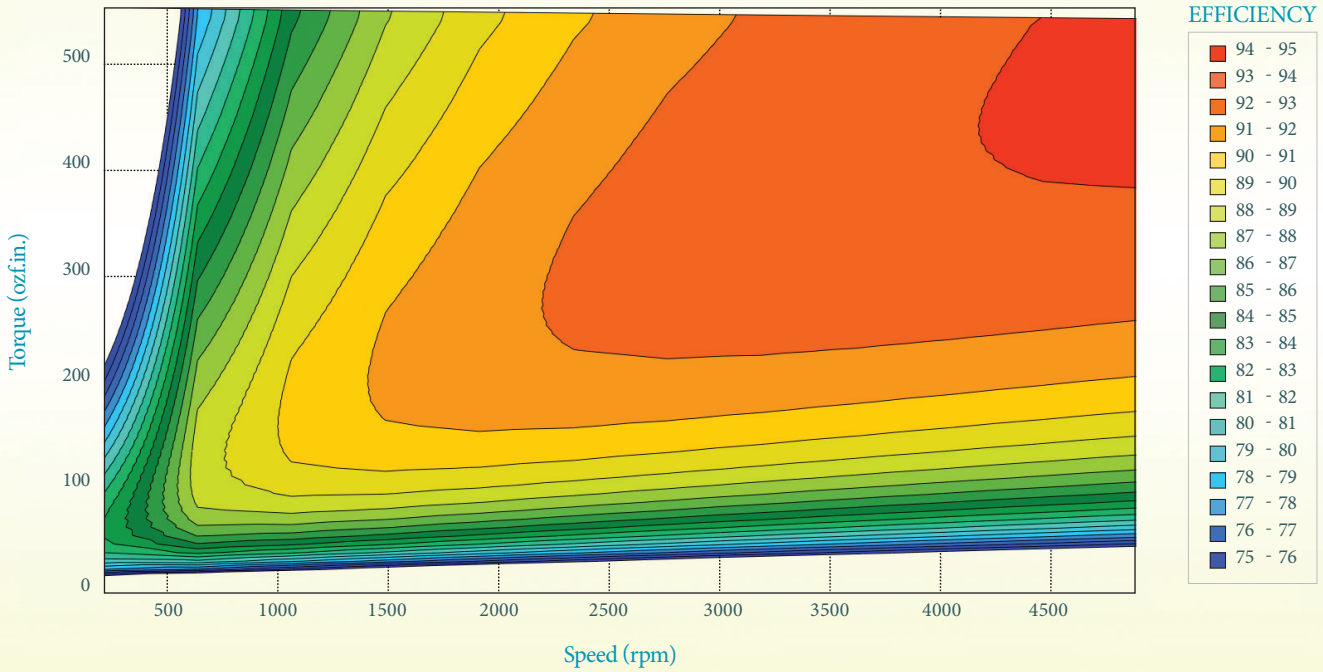
GENERIC PART NUMBER	UT-3510-16P/11	UT-3515-16P/11	UT-3520-16P/11	UT-3525-16P/11	UT-3530-16P/11	UT-3535-16P/11
AVEOX INTERNAL P/N (SENSORLESS)	6100378-01	6100378-02	6100378-03	6100378-04	6100378-05	6100378-06
STATOR OD (IN)	3.5					
STATOR STACK LENGTH (IN)	1.00	1.50	2.00	2.50	3.00	3.50
RATED SPEED (RPM)	4250					
RATED TORQUE (IN-OZ)	255	383	510	638	765	893
Km (IN-OZ/√w)	49.62	65.99	79.87	92.06	103.03	113.06
MAGNETIC POLES	16					
WEIGHT (OZ)	25.40	37.10	48.80	60.50	72.10	83.80
ROTOR INERTIA (KG*M^2)	1.81E-04	2.71E-04	3.61E-04	4.51E-04	5.41E-04	6.31E-04
HYSTERESIS DRAG TORQUE (IN-OZ)	3.15	4.72	6.29	7.87	9.44	11.02
ELECTROMAGNETIC VISCOUS DRAG (IN-OZ/RPM)	1.92E-03	2.87E-03	3.83E-03	4.79E-03	5.75E-03	0.00E+00
COGGING TORQUE, PEAK (IN-OZ)	0.86	1.29	1.73	2.16	2.59	3.02
Kt (IN-OZ/Arms)	31.88	47.82	63.76	79.70	95.65	111.59
Ke (V/1kRPM, PEAK)	20.61	30.92	41.23	51.53	61.84	72.15
INDUCTANCE (L-L, mH)	0.398	0.588	0.778	0.968	1.158	1.348
RESISTANCE (L-L, Ω)	0.275	0.350	0.425	0.500	0.575	0.649
TEMPERATURE SENSORS	OMEGA RTD, P/N RTD-1-F3105-36-T-B					
LEAD WIRE AWG PER M22759/11	18					

EFFICIENCY MAPS

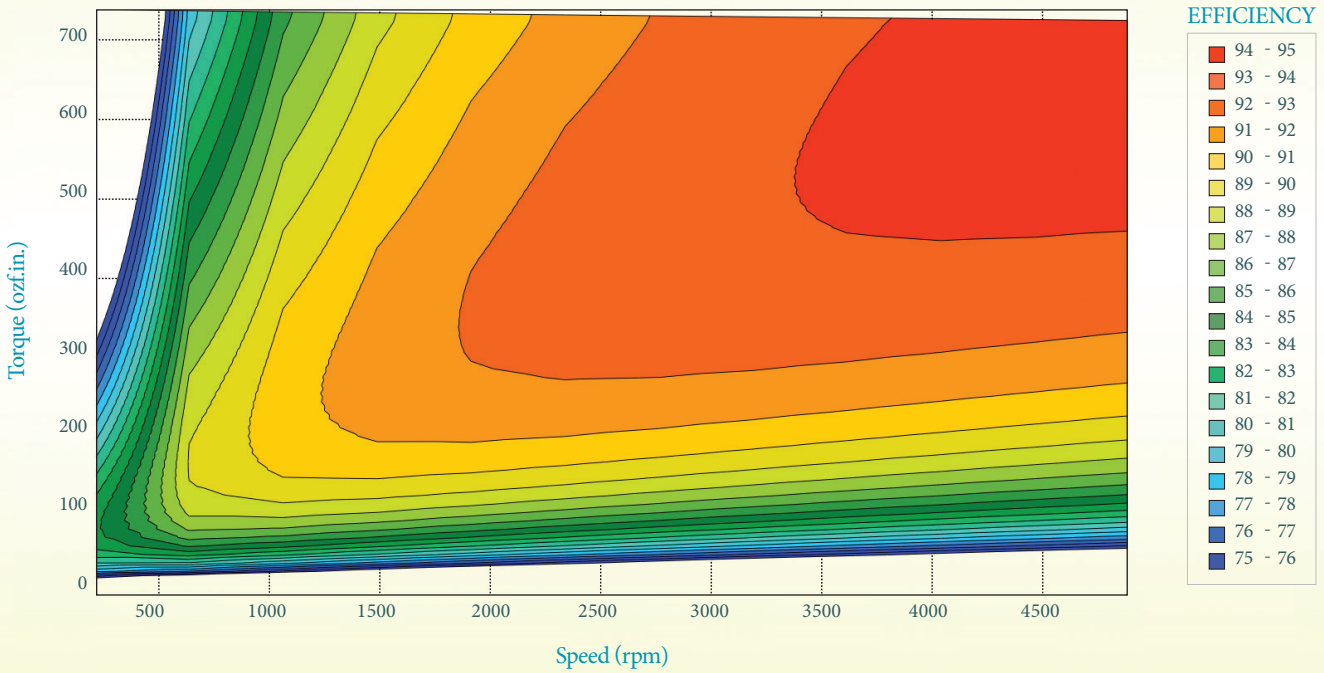
UT-3510-16P/11



UT-3515-16P/11



UT-3520-16P/11



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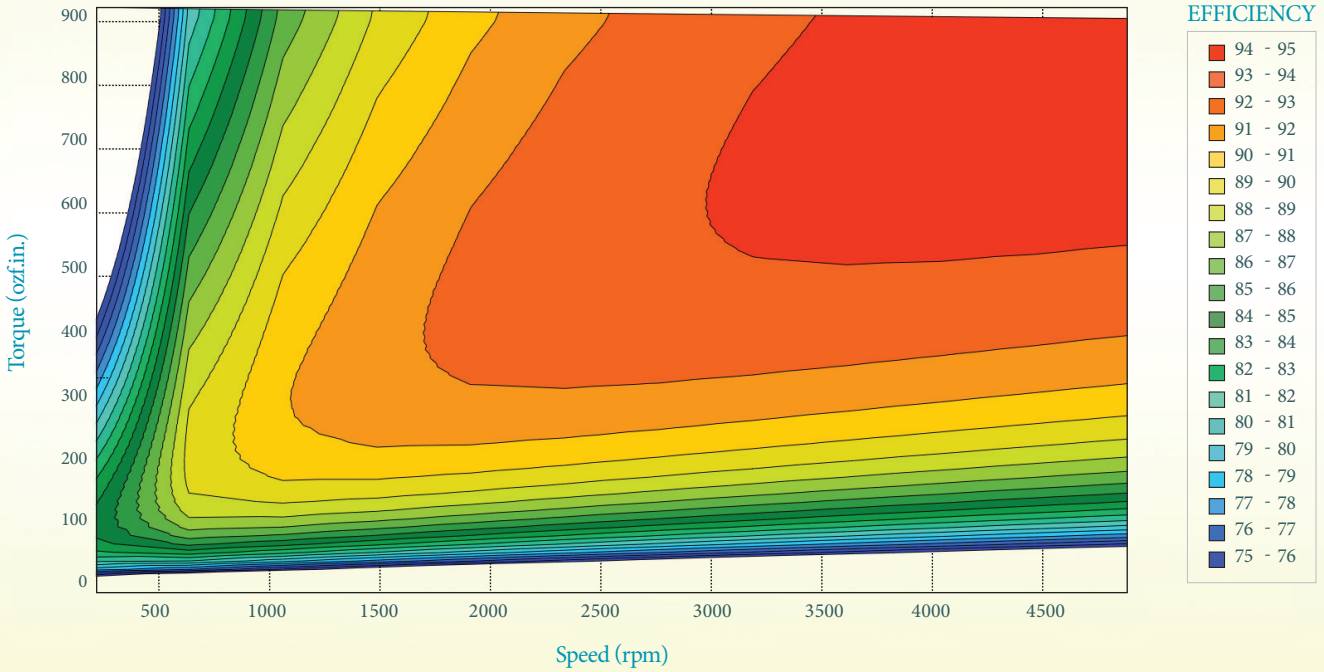
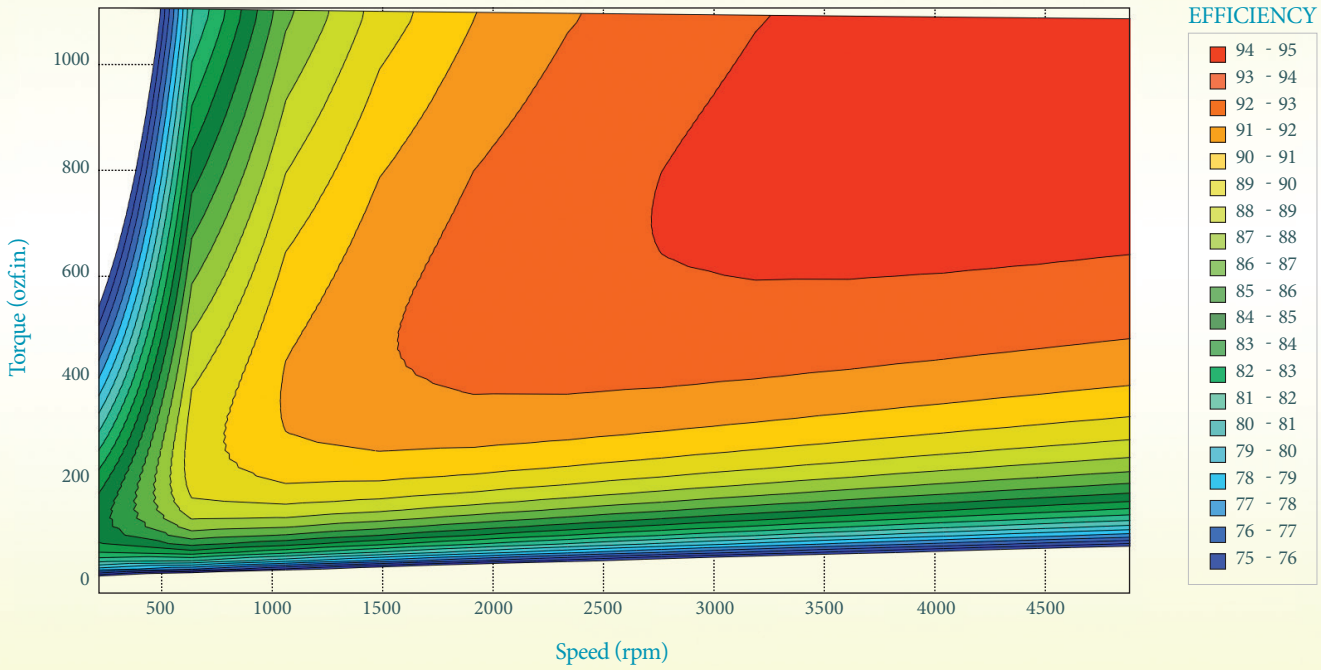


UT-3530-16P/11



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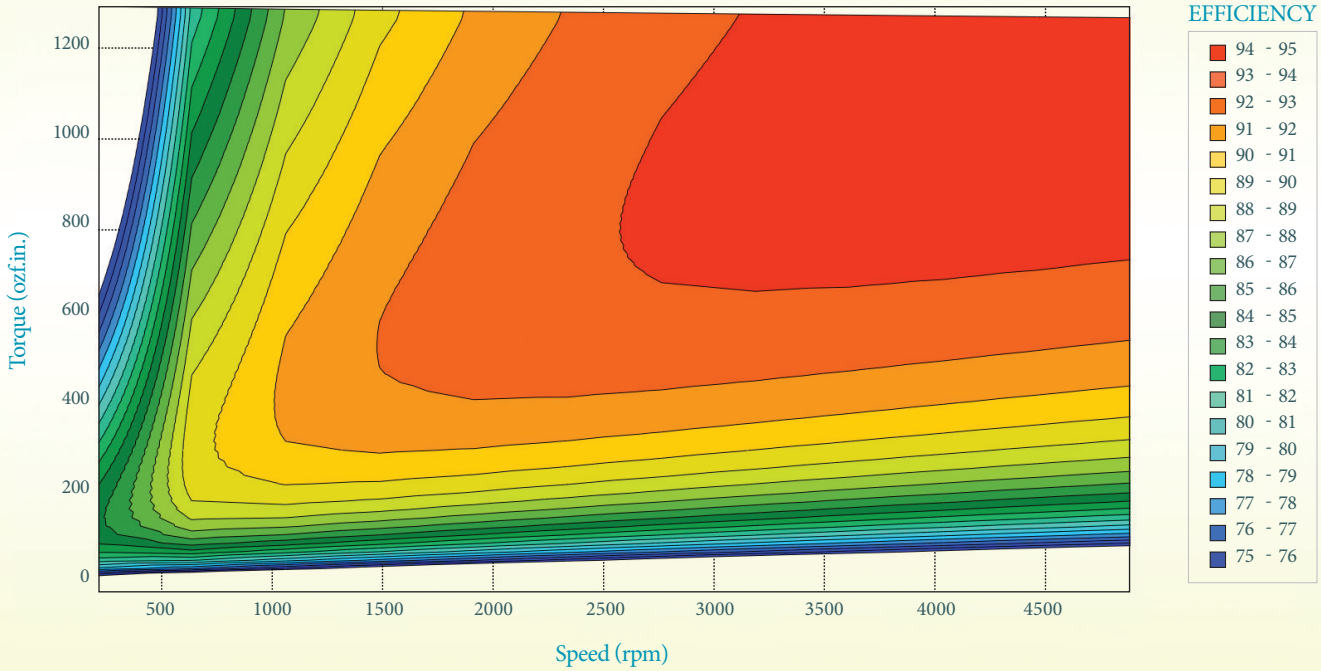
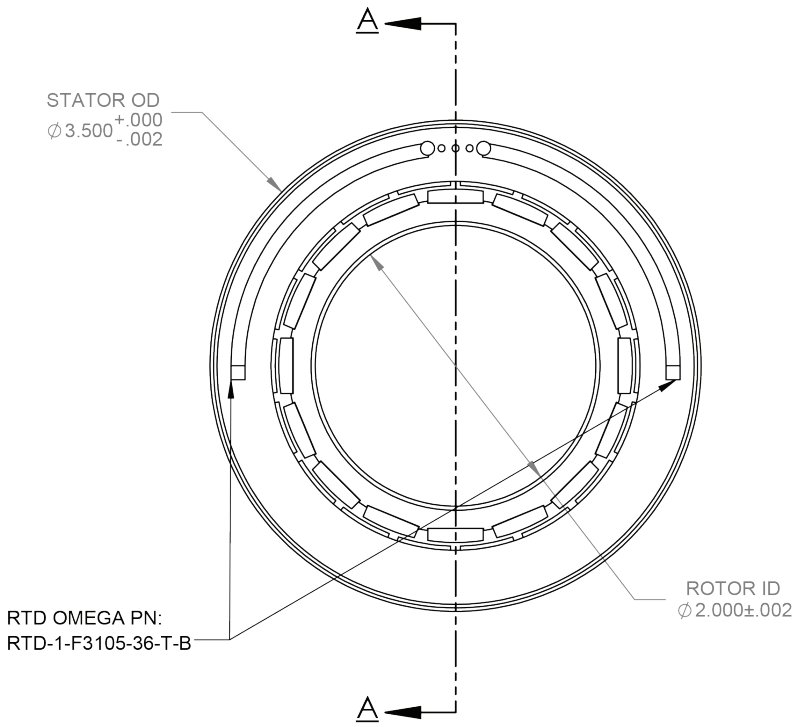
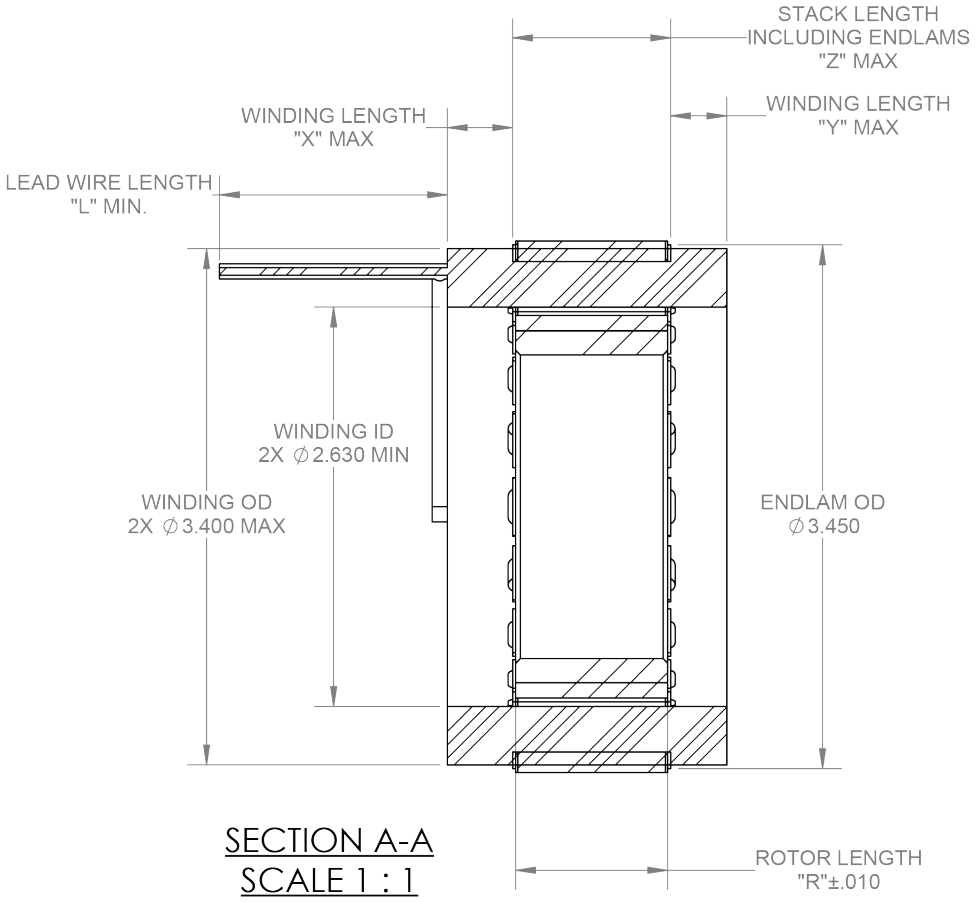


SPECIFICATIONS

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"
6100378-01	O&M DWG STATOR AND ROTOR SET UT-3510-16P/11, SENSORLESS	1.000	18	12	1.08	0.53	0.37
6100378-02	O&M DWG STATOR AND ROTOR SET UT-3515-16P/11, SENSORLESS	1.500	18	12	1.58	0.53	0.37
6100378-03	O&M DWG STATOR AND ROTOR SET UT-3520-16P/11, SENSORLESS	2.000	18	12	2.08	0.53	0.37
6100378-04	O&M DWG STATOR AND ROTOR SET UT-3525-16P/11, SENSORLESS	2.500	18	12	2.58	0.53	0.37
6100378-05	O&M DWG STATOR AND ROTOR SET UT-3530-16P/11, SENSORLESS	3.000	18	12	3.08	0.53	0.37
6100378-06	O&M DWG STATOR AND ROTOR SET UT-3535-16P/11, SENSORLESS	3.500	18	12	3.58	0.53	0.37

OUTLINE DRAWING





SECTION A-A
SCALE 1 : 1