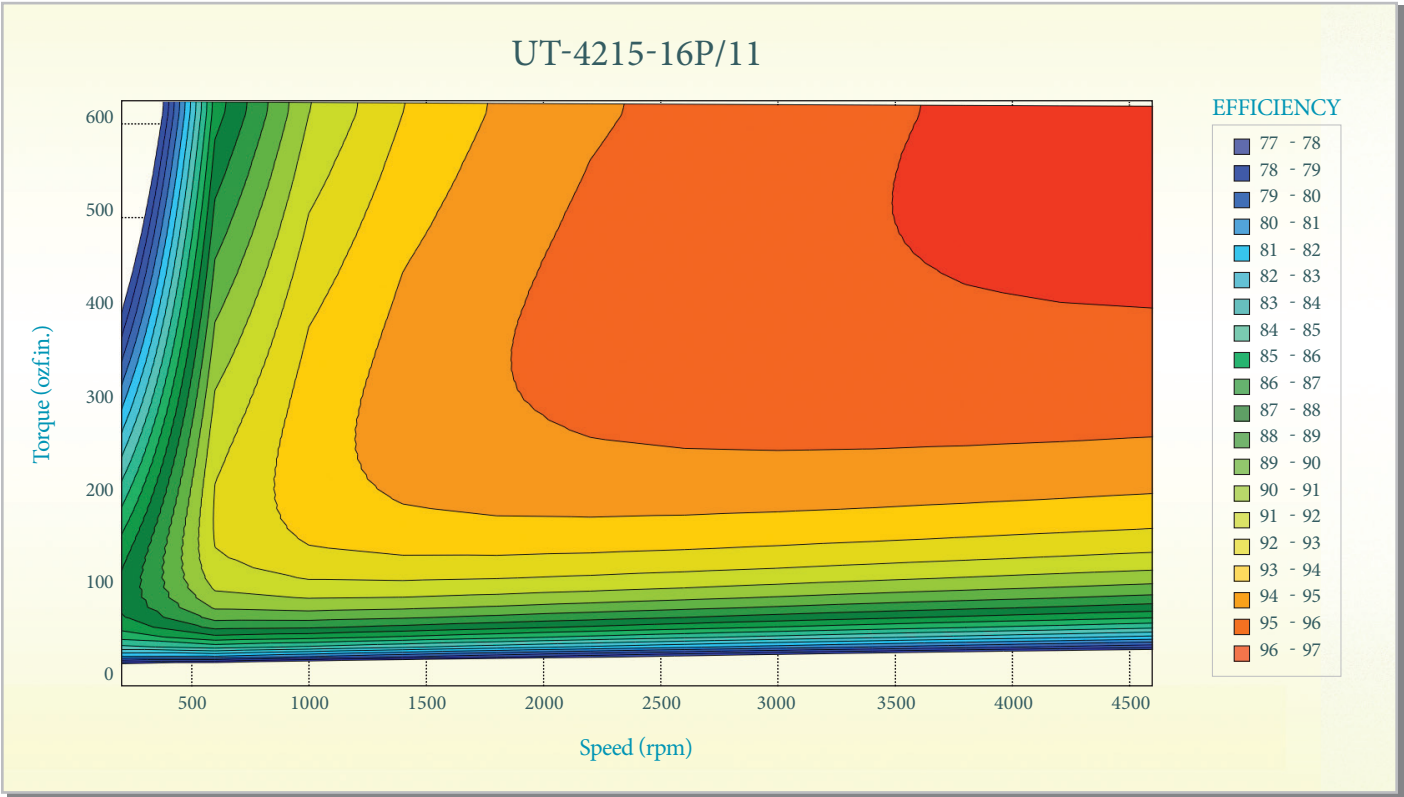
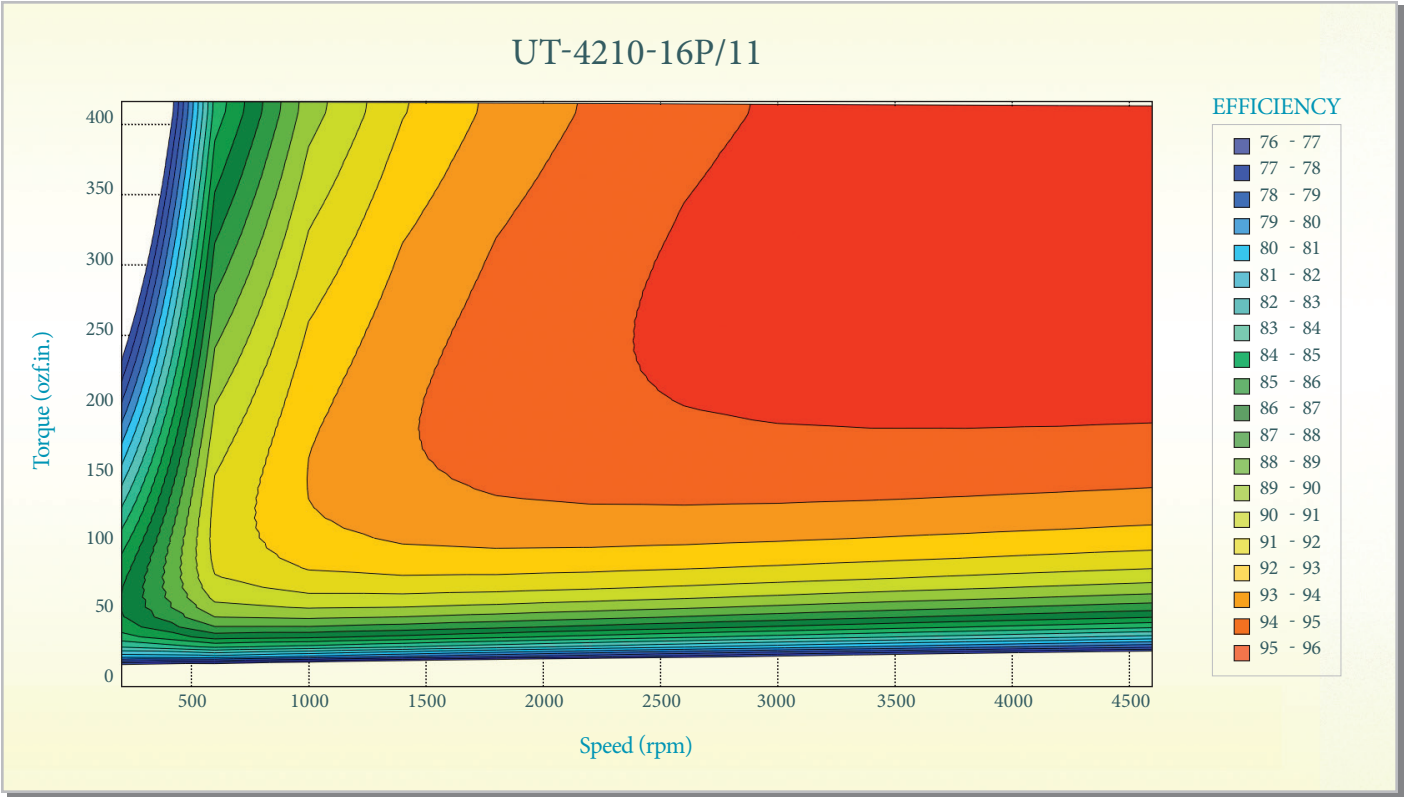


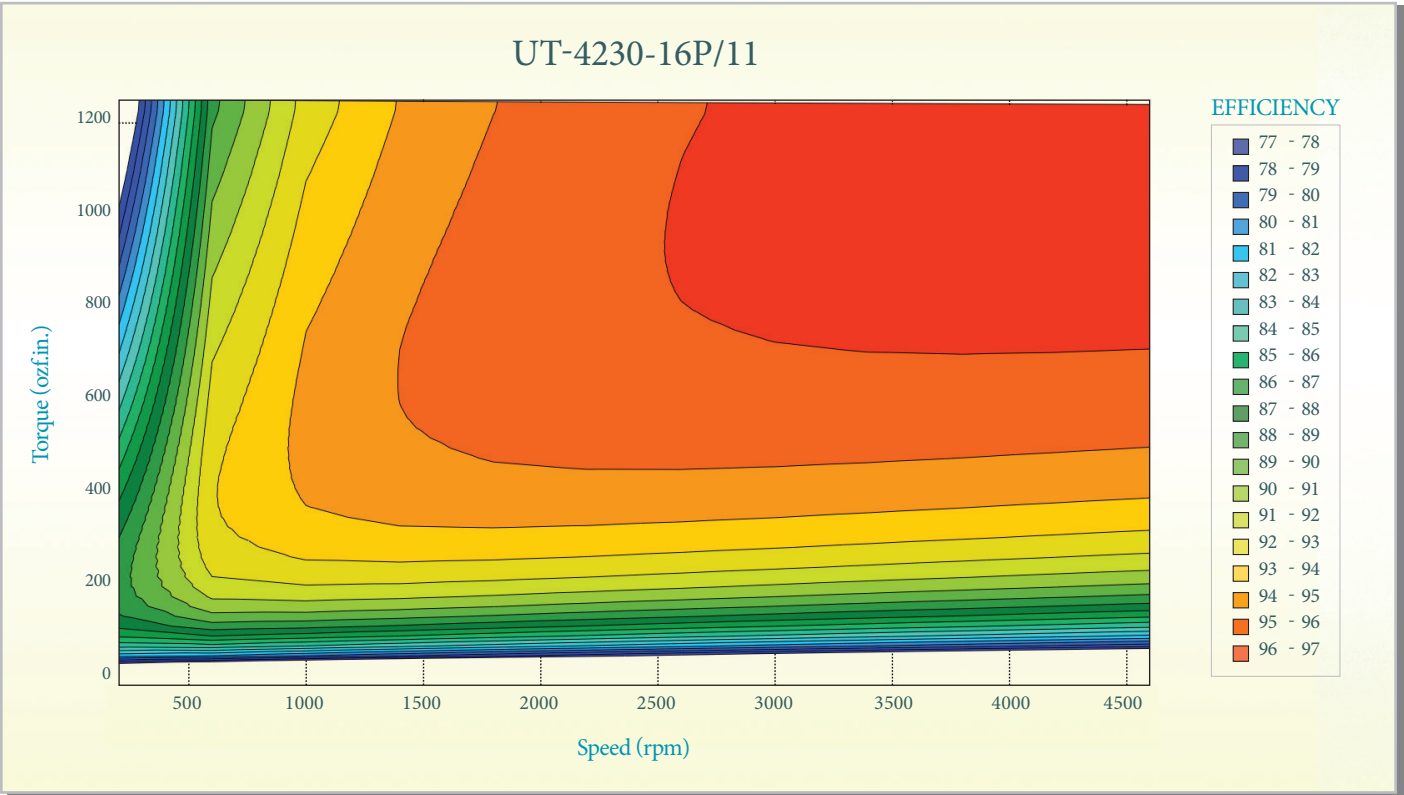
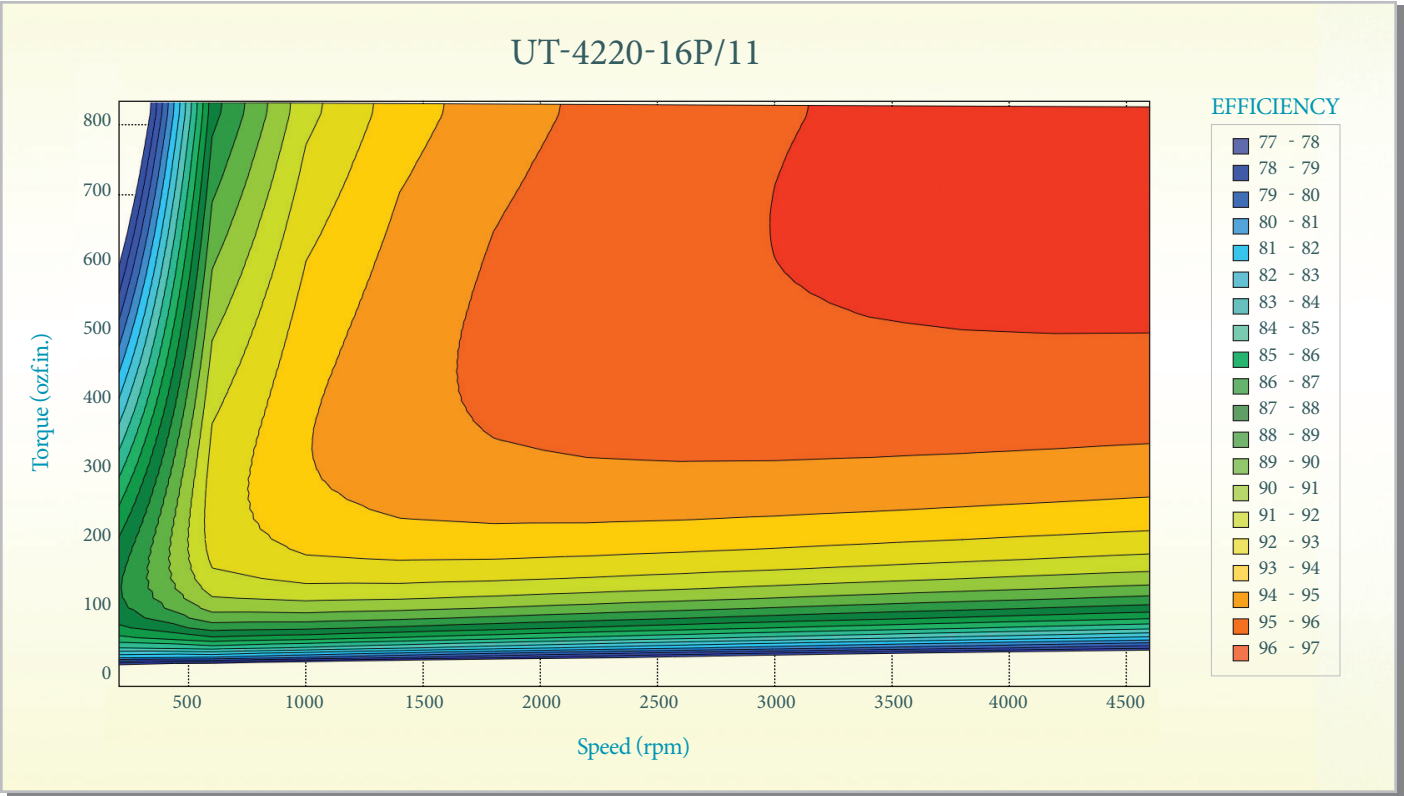
4.2" OD 18s16p Series Ultimate Torque Frameless Motors

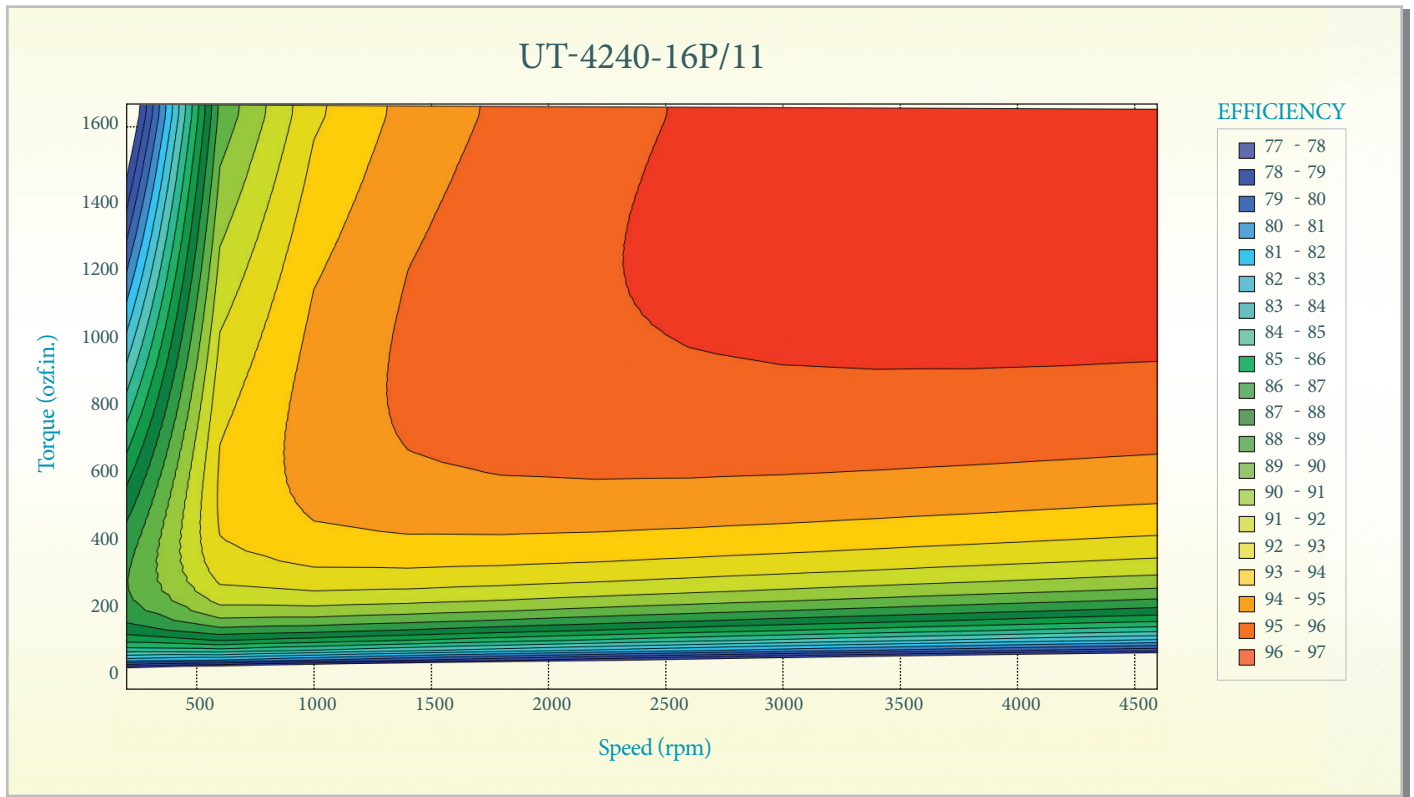
PERFORMANCE TABLE

GENERIC PART NUMBER	UT-4210-16P/11	UT-4215-16P/11	UT-4220-16P/11	UT-4230-16P/11	UT-4240-16P/11
AVEOX INTERNAL P/N (SENSORLESS)	6100329-01	6100329-02	6100329-03	6100329-04	6100329-05
STATOR OD (IN)	4.2				
STATOR STACK LENGTH (IN)	1.00	1.50	2.00	3.00	4.00
RATED SPEED (RPM)	4000				
RATED TORQUE (IN-OZ)	340	510	680	1019	1359
K _m (IN-OZ/√wT)	72.24	96.93	117.99	153.29	182.82
MAGNETIC POLES	16				
WEIGHT (OZ)	43.50	63.00	82.50	122.00	161.00
ROTOR INERTIA (KG*M ²)	2.54E-04	3.80E-04	5.06E-04	7.57E-04	1.01E-03
HYSTERESIS DRAG TORQUE (IN-OZ)	6.07	9.11	12.14	18.21	24.28
ELECTROMAGNETIC VISCOUS DRAG (IN-OZ/RPM)	4.76E-04	7.14E-04	9.52E-04	1.43E-03	1.90E-03
COGGING TORQUE, PEAK (IN-OZ)	1.55	2.33	3.11	4.66	6.21
K _t (IN-OZ/Arms)	35.77	53.66	71.54	107.31	143.08
K _e (V/1krPM, PEAK)	22.87	34.30	45.73	68.60	91.47
INDUCTANCE (L-L, mH)	0.383	0.564	0.745	1.108	1.470
RESISTANCE (L-L, Ω)	0.163	0.204	0.245	0.327	0.408
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"
6100329-01	O&M DWG STATOR AND ROTOR SET UT-4210-16P/11, SENSORLESS	1.000	14	12	1.08	0.63	0.38
6100329-02	O&M DWG STATOR AND ROTOR SET UT-4215-16P/11, SENSORLESS	1.500	14	12	1.58	0.63	0.38
6100329-03	O&M DWG STATOR AND ROTOR SET UT-4220-16P/11, SENSORLESS	2.000	14	12	2.08	0.63	0.38
6100329-04	O&M DWG STATOR AND ROTOR SET UT-4230-16P/11, SENSORLESS	3.000	14	12	3.08	0.63	0.38
6100329-05	O&M DWG STATOR AND ROTOR SET UT-4240-16P/11, SENSORLESS	4.000	14	12	4.08	0.63	0.38

OUTLINE DRAWING

