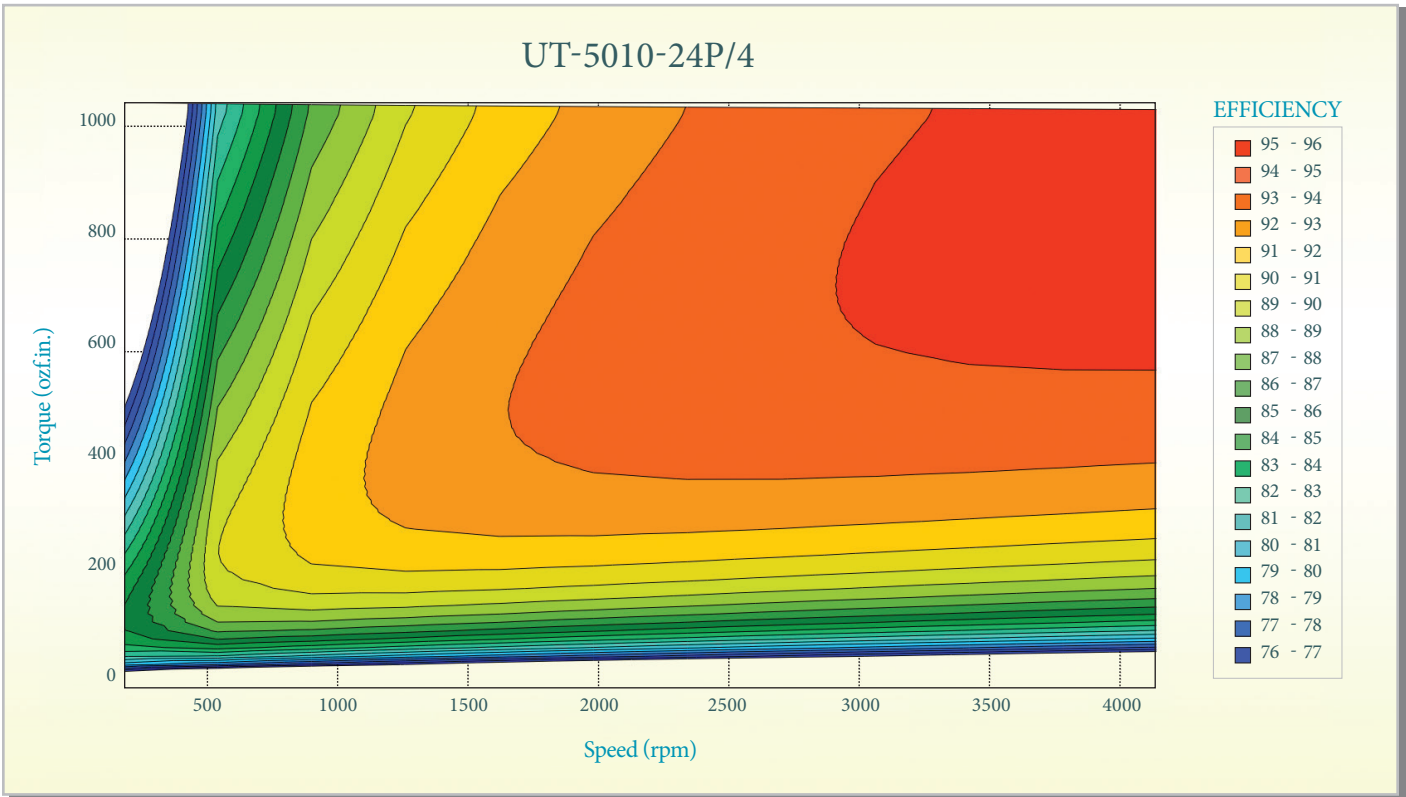
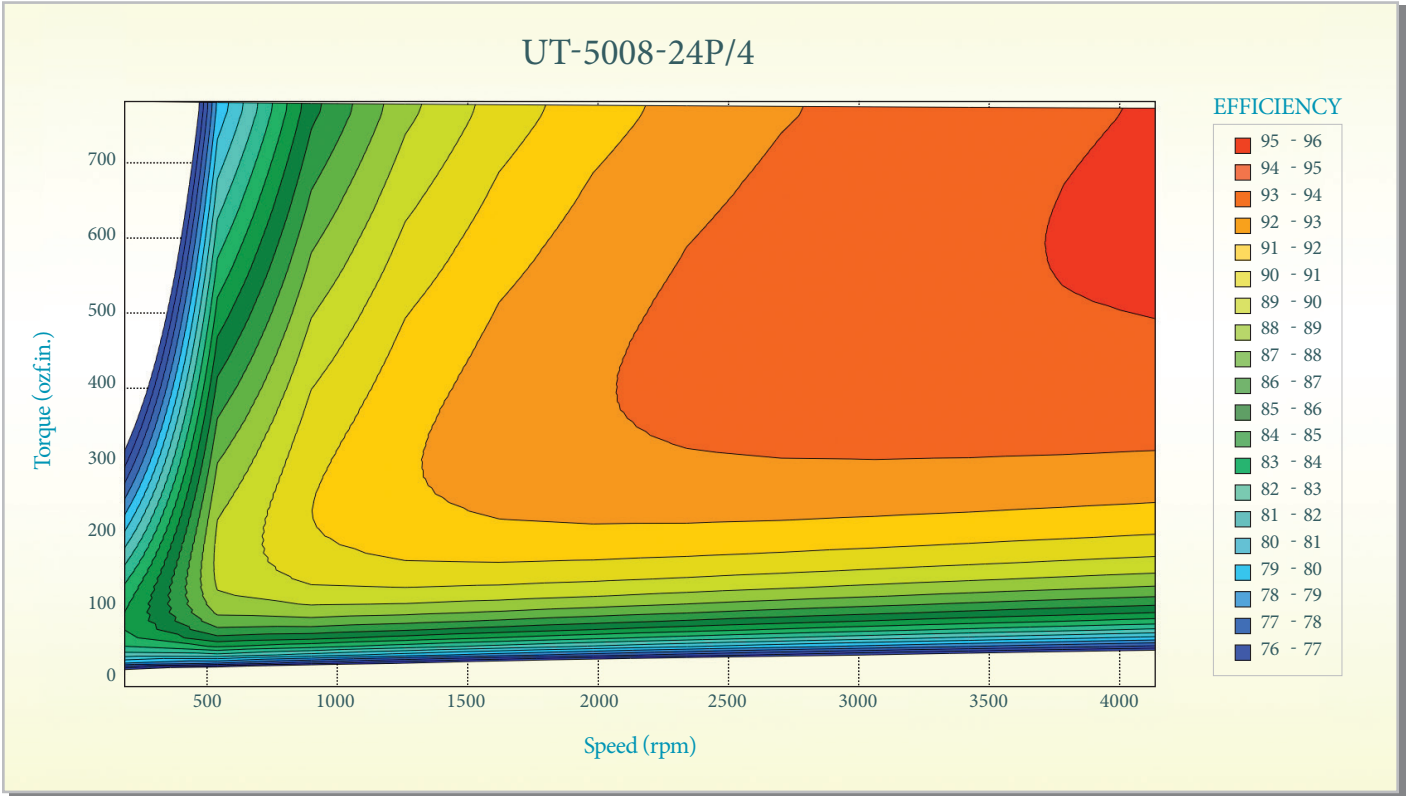


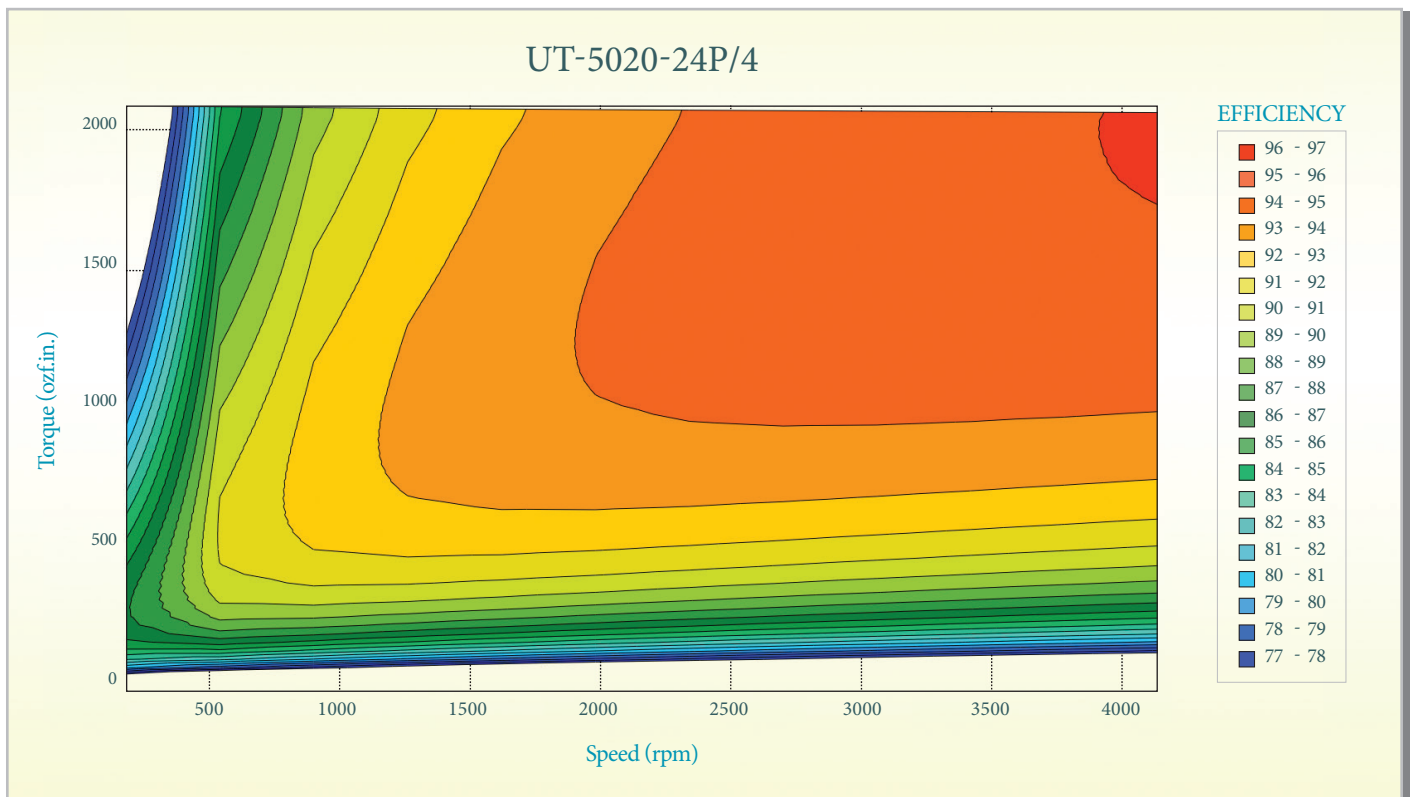
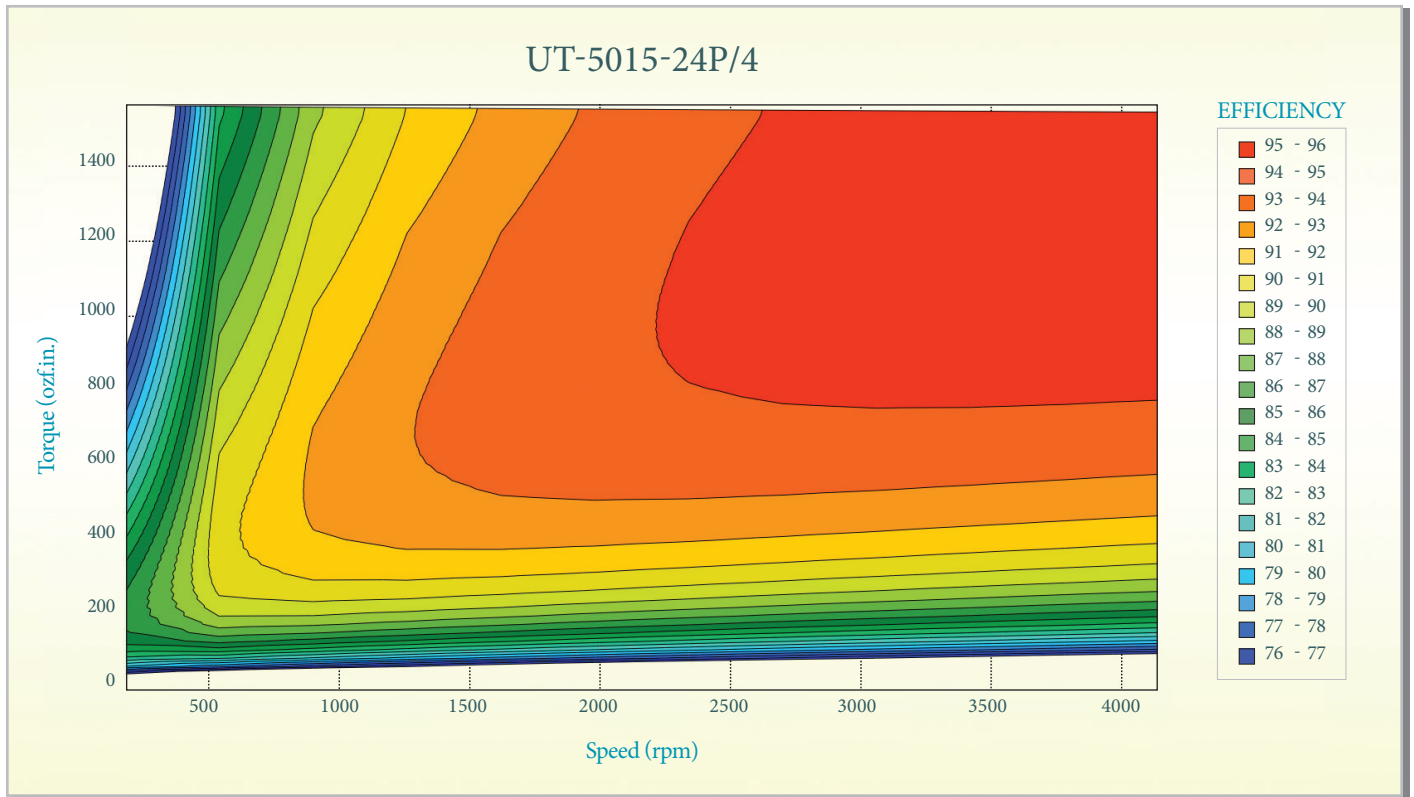
5.0" OD 27s24p Series Ultimate Torque Frameless Motors

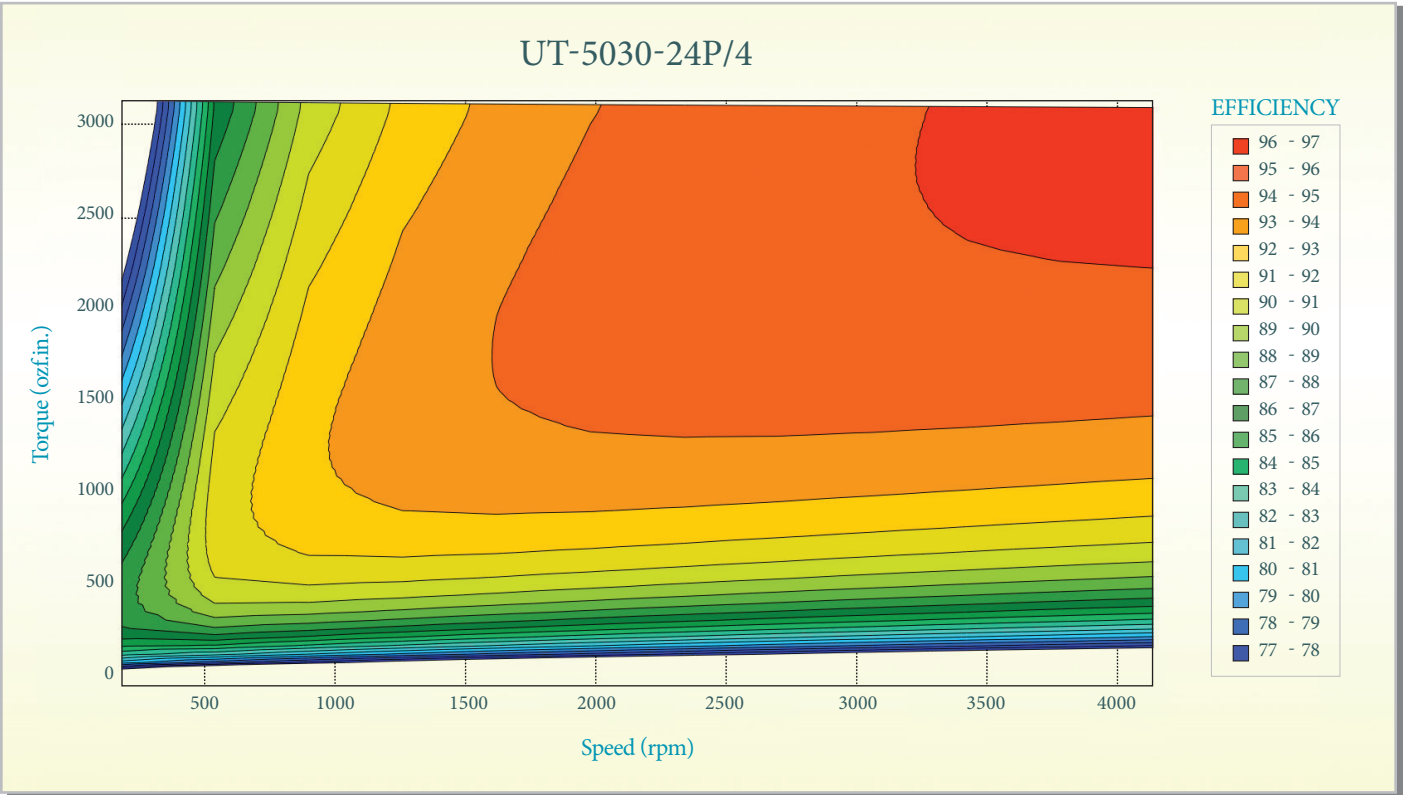
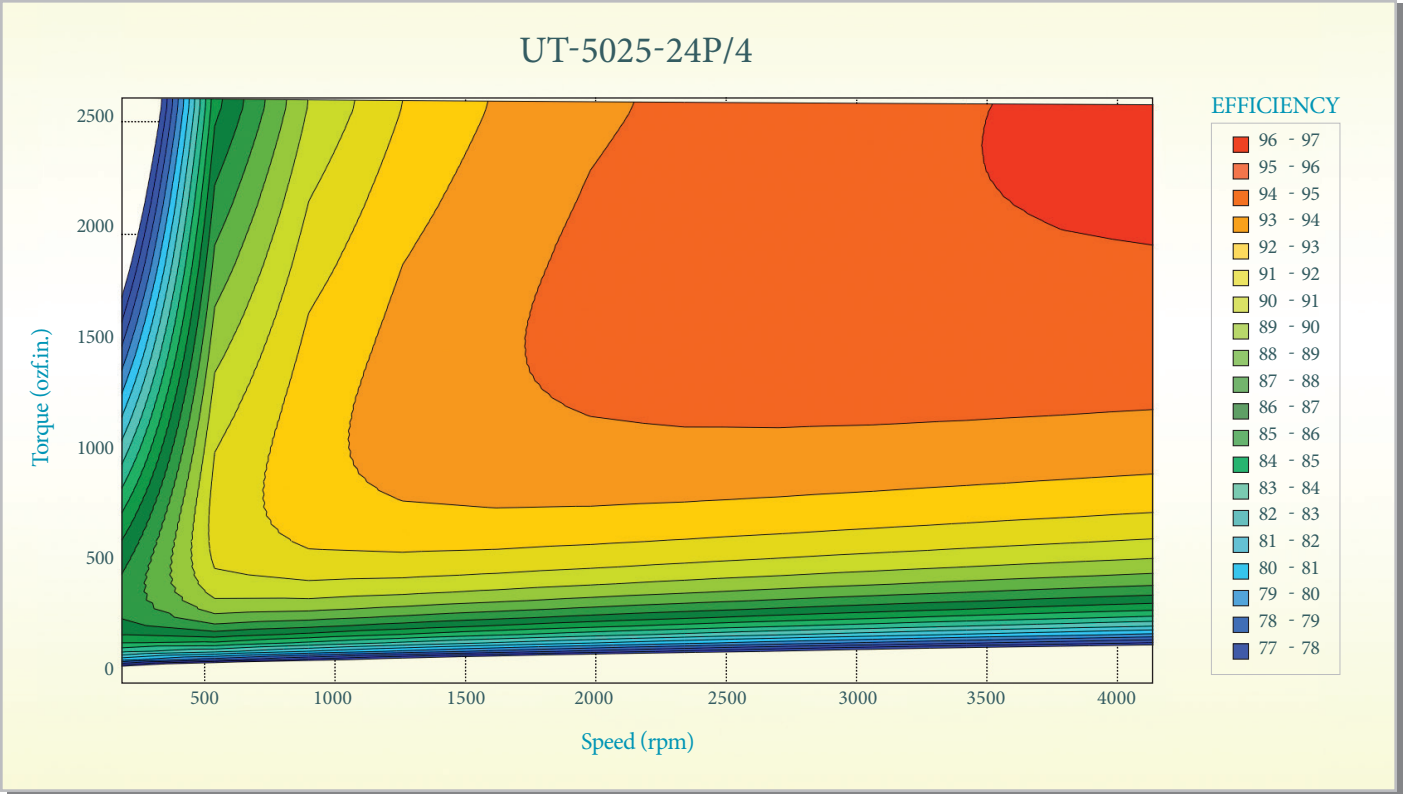
PERFORMANCE TABLE

GENERIC PART NUMBER	UT-5008-24P/4	UT-5010-24P/4	UT-5015-24P/4	UT-5020-24P/4	UT-5025-24P/4	UT-5030-24P/4
AVEOX INTERNAL P/N (SENSORLESS)	6100398-01	6100398-02	6100398-03	6100398-04	6100398-05	6100398-06
STATOR OD (IN)	5					
STATOR STACK LENGTH (IN)	0.75	1.00	1.50	2.00	2.50	3.00
RATED SPEED (RPM)	3600					
RATED TORQUE (IN-OZ)	549	732	1097	1463	1829	2195
Km (IN-OZ/ $\sqrt{w}$)	89.95	111.99	149.87	182.10	210.49	236.07
MAGNETIC POLES	24					
WEIGHT (OZ)	36.30	46.80	67.80	88.80	109.80	130.80
ROTOR INERTIA (KG*M ²)	5.74E-04	7.65E-04	1.15E-03	1.53E-03	1.91E-03	2.29E-03
HYSTERESIS DRAG TORQUE (IN-OZ)	10.96	14.62	21.93	29.24	36.55	43.86
ELECTROMAGNETIC VISCOUS DRAG (IN-OZ/RPM)	1.24E-03	1.65E-03	2.48E-03	3.31E-03	4.13E-03	0.00E+00
COGGING TORQUE, PEAK (IN-OZ)	0.89	1.19	1.79	2.38	2.98	3.58
Kt (IN-OZ/Arms)	21.10	28.14	42.21	56.28	70.35	84.42
Ke (V/1krPM, PEAK)	13.35	17.80	26.70	35.60	44.50	53.39
INDUCTANCE (L-L, mH)	0.061	0.079	0.117	0.155	0.193	0.231
RESISTANCE (L-L, Ω)	0.037	0.042	0.053	0.064	0.074	0.085
TEMPERATURE SENSORS	OMEGA RTD, P/N RTD-1-F3105-36-T-B					
LEAD WIRE AWG PER M22759/11	12					

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"
6100398-01	O&M DWG STATOR AND ROTOR SET UT-5008-24P/4, SENSORLESS	0.750	12	12	0.81	0.65	0.4
6100398-02	O&M DWG STATOR AND ROTOR SET UT-5010-24P/4, SENSORLESS	1.000	12	12	1.06	0.65	0.4
6100398-03	O&M DWG STATOR AND ROTOR SET UT-5015-24P/4, SENSORLESS	1.500	12	12	1.56	0.65	0.4
6100398-04	O&M DWG STATOR AND ROTOR SET UT-5020-24P/4, SENSORLESS	2.000	12	12	2.06	0.65	0.4
6100398-05	O&M DWG STATOR AND ROTOR SET UT-5025-24P/4, SENSORLESS	2.500	12	12	2.56	0.65	0.4
6100398-06	O&M DWG STATOR AND ROTOR SET UT-5030-24P/4, SENSORLESS	3.000	12	12	3.06	0.65	0.4

OUTLINE DRAWING

