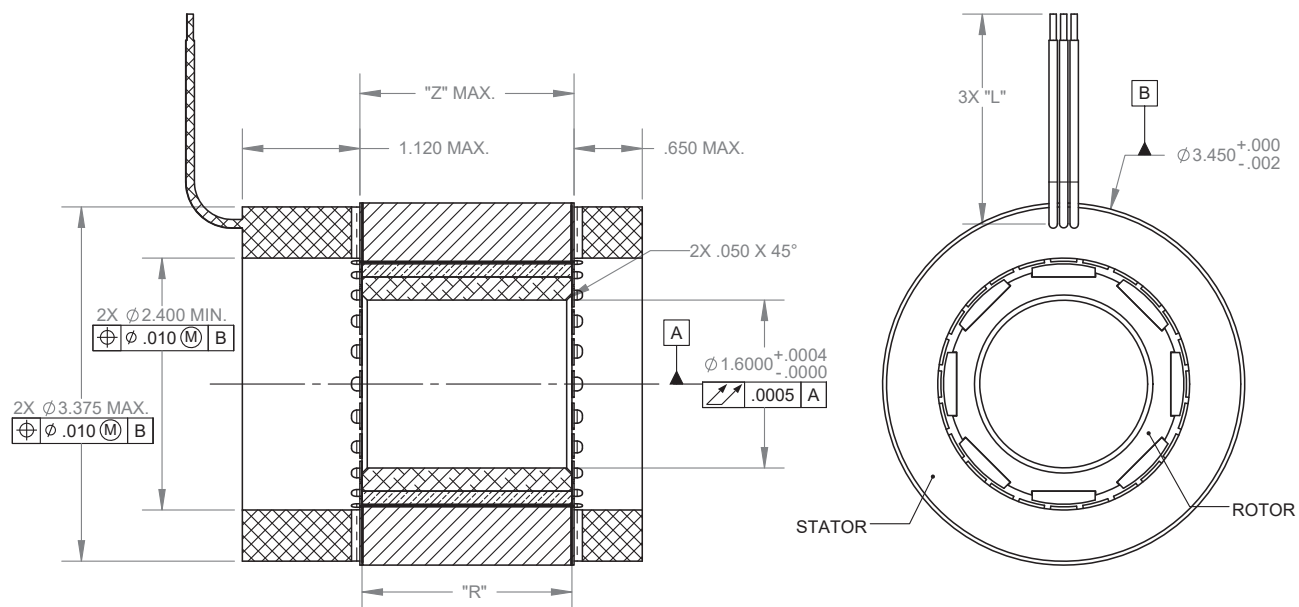
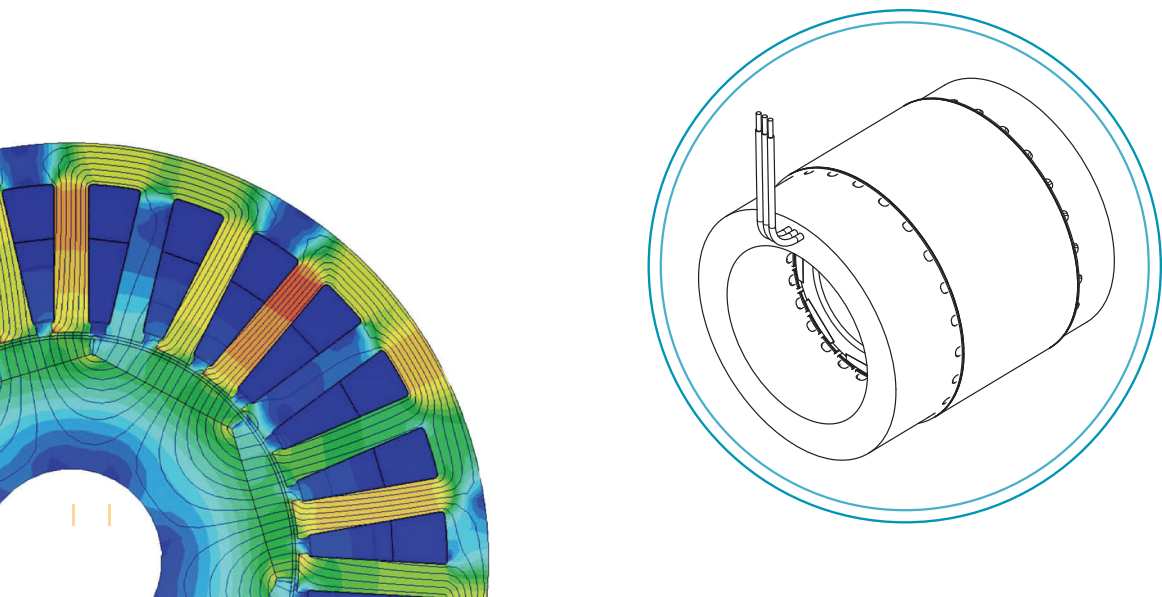


"Superior Torque" (ST) 3500 Series Technical Illustration



PART NO.	DESCRIPTION	"Z" MAX	LEAD WIRE GAGE	"L" ± .500	"R" ± .005
6100253-01	O&M DWG, 3520/11 STD ROTOR AND STATOR SET	2.070	16	12	2.000
6100253-02	O&M DWG, 3520/24 STD ROTOR AND STATOR SET	2.070	16	12	2.000
6100253-03	O&M DWG, 3530/7 STD ROTOR AND STATOR SET	3.070	14	12	3.000
6100253-04	O&M DWG, 3530/16 STD ROTOR AND STATOR SET	3.070	16	12	3.000
6100253-05	O&M DWG, 3540/5 STD ROTOR AND STATOR SET	4.070	14	12	4.000
6100253-06	O&M DWG, 3540/11 STD ROTOR AND STATOR SET	4.070	16	12	4.000
6100253-07	O&M DWG, 3560/3 STD ROTOR AND STATOR SET	6.070	14	12	6.000
6100253-08	O&M DWG, 3560/8 STD ROTOR AND STATOR SET	6.070	16	12	6.000



GENERIC PART NUMBER	3520/11	3520/24	3530/7	3530/16	3540/5	3540/11	3560/3	3560/8
STATOR OD (IN)	3.45	3.45	3.45	3.45	3.45	3.45	3.45	3.45
STATOR STACK LENGTH (IN)	2	2	3	3	4	4	6	6
ROTOR ID (IN)	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
ROTOR LENGTH (IN)	2	2	3	3	4	4	6	6
URNS PER COIL	11	24	7	16	5	11	3	8
RESISTANCE (L-L)	0.658	3.22	0.359	1.84	0.209	1.27	0.103	0.768
INDUCTANCE (L-L)	1.64	7.805	0.985	5.135	0.6635	3.805	0.356	2.535
LEAD WIRE AWG	16	16	14	16	14	16	14	16
KE (V/1KRPM, PEAK)	47.3	103	45.1	103	43	103	38.7	103
KT (IN-OZ/A, PEAK)	78.3	171	74.7	171	71.2	171	64.1	171
KT (IN-OZ/ARMS), TIME-AVERAGED	66.3	145	63.2	145	60.2	145	54.2	145
KM (IN-OZ/SQRT(W))	96.53	95.29	124.67	126.06	155.74	151.74	199.73	195.13
WEIGHT (OZ)	58.3	57.9	84.1	84.4	112	111	165	164
ROTOR INERTIA (KG-M^2)	3.09E-04	3.09E-04	4.63E-04	4.63E-04	6.17E-04	6.17E-04	9.25E-04	9.25E-04
POLE COUNT	8	8	8	8	8	8	8	8
COGGING TORQUE, PEAK (IN-OZ)	15.4	15.4	23.1	23.1	30.9	30.9	46.3	46.3
HYSTERESIS DRAG TORQUE (IN-OZ)	4.79	4.79	7.18	7.18	9.58	9.58	14.4	14.4
ELECTROMAGNETICS VISCOUS DRAG (IN-OZ/RPM^2)	6.44E-08	6.44E-08	9.66E-08	9.66E-08	1.29E-07	1.29E-07	1.93E-07	1.93E-07
DESIGN CURRENT (RMS, SINE DRIVE)	7.77	3.56	12.30	5.38	17.20	7.18	28.80	10.80
DESIGN VOLTAGE	270	600	270	600	270	600	270	600
DESIGN RPM	5000	5000	5000	5000	5000	5000	5000	5000
NO-LOAD RPM	5712	5818	5984	5818	6284	5818	6982	5818
DESIGN TORQUE (IN-OZ)	516	516	780	782	1040	1041	1563	1567
DESIGN OUPUT POWER (W)	1906	1910	2885	2890	3847	3849	5779	5763
ELECTROMECHANICAL EFFICIENCY AT DESIGN OUTPUT POWER	95.2	95.2	95.5	95.6	95.6	96	96	95.7

