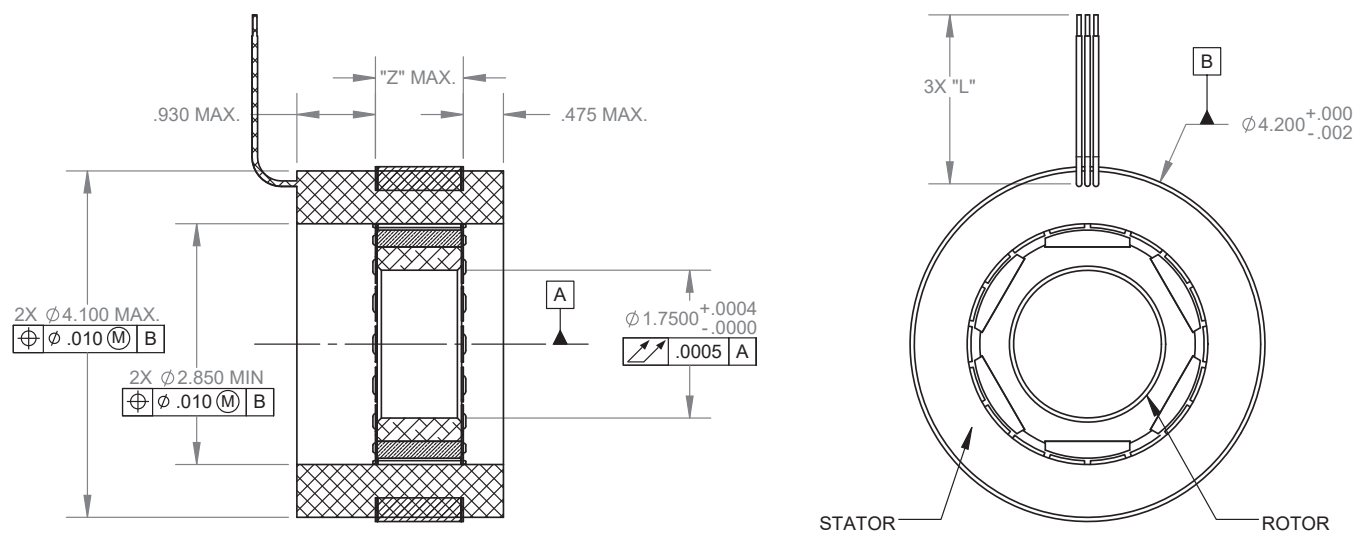
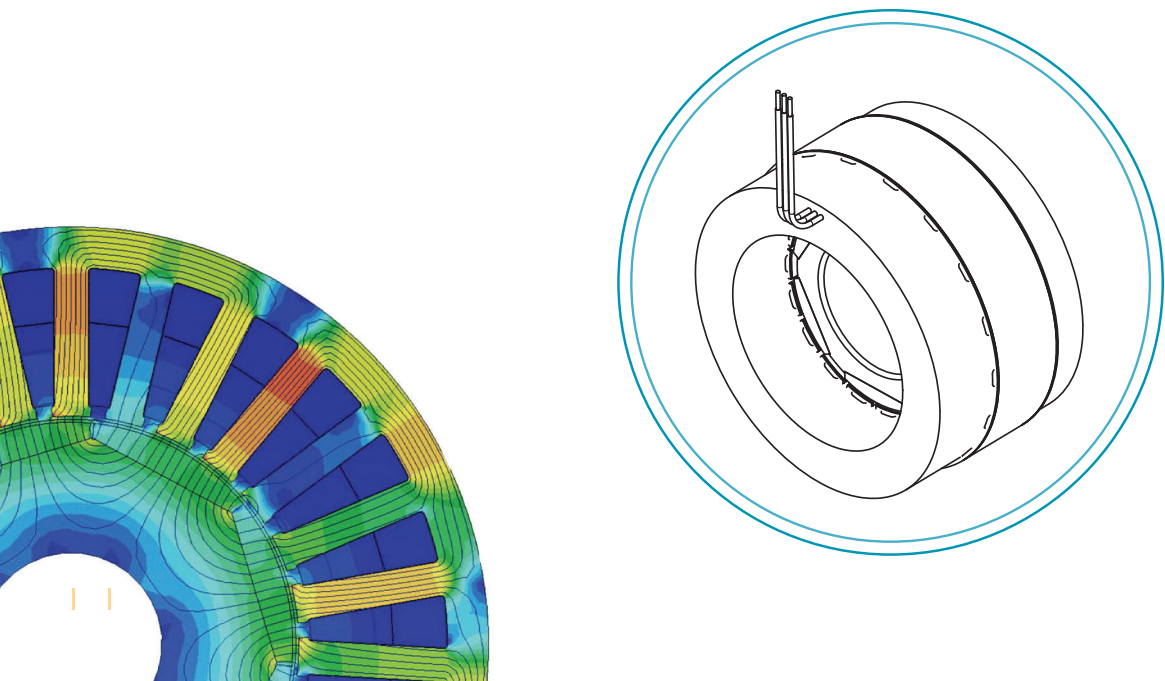


"Superior Torque" (ST) 4200 Series Technical Illustration



PART NO.	DESCRIPTION	"Z" MAX	LEAD WIRE GAGE	"L" $\pm .500$	"R" $\pm .005$
6100254-01	O&M DWG, 4210/16 STD ROTOR AND STATOR SET	1.070	16	12	1.000
6100254-02	O&M DWG, 4210/35 STD ROTOR AND STATOR SET	1.070	16	12	1.000
6100254-03	O&M DWG, 4215/10 STD ROTOR AND STATOR SET	1.570	16	12	1.500
6100254-04	O&M DWG, 4215/23 STD ROTOR AND STATOR SET	1.570	16	12	1.500
6100254-05	O&M DWG, 4220/8 STD ROTOR AND STATOR SET	2.070	16	12	2.000
6100254-06	O&M DWG, 4220/18 STD ROTOR AND STATOR SET	2.070	16	12	2.000



GENERIC PART NUMBER	4210/16	4210/35	4215/10	4215/23	4220/8	4220/18
STATOR OD (IN)	4.2	4.2	4.2	4.2	4.2	4.2
STATOR STACK LENGTH (IN)	1	1	1.5	1.5	2	2
ROTOR ID (IN)	1.75	1.75	1.75	1.75	1.75	1.75
ROTOR LENGTH (IN)	1	1	1.5	1.5	2	2
TURNS PER COIL	16	35	10	23	8	18
RESISTANCE (L-L)	0.678	2.94	0.305	1.42	1.43	1.44
INDUCTANCE (L-L)	0.7845	3.755	0.443	2.34	0.371	1.875
LEAD WIRE AWG	16	16	16	16	16	16
KE (V/1KRPM, PEAK)	31.9	69.7	29.9	68.7	31.9	71.7
KT (IN-OZ/A, PEAK)	52.8	116	49.5	114	52.8	119
KT (IN-OZ/ARMS), TIME-AVERAGED	47.6	104	44.6	103	47.6	107
KM (IN-OZ/SQRT(W))	64.12	67.65	89.63	95.67	44.15	99.17
WEIGHT (OZ)	51.5	52.7	73	73.3	94.6	94.5
ROTOR INERTIA (KG-M ²)	3.33E-04	3.33E-04	4.99E-04	4.99E-04	6.65E-04	6.65E-04
POLE COUNT	6	6	6	6	6	6
COGGING TORQUE, PEAK (IN-OZ)	41.7	41.7	62.6	62.6	83.5	83.5
HYSTERESIS DRAG TORQUE (IN-OZ)	3.66	3.65	5.48	5.48	7.31	7.31
ELECTROMAGNETICS VISCOUS DRAG (IN-OZ/RPM ²)	2.57E-08	2.57E-08	3.85E-08	3.85E-08	5.13E-08	5.13E-08
DESIGN CURRENT (RMS, SINE DRIVE)	7.70	3.50	12.30	5.35	15.30	6.79
DESIGN VOLTAGE	270	600	270	600	270	600
DESIGN RPM	7500	7500	7500	7500	7500	7500
NO-LOAD RPM	8469	8603	9033	8728	8469	8364
DESIGN TORQUE (IN-OZ)	366	364	549	549	728	727
DESIGN OUPUT POWER (W)	2032	2021	3046	3044	4038	4032
ELECTROMECHANICAL EFFICIENCY AT DESIGN OUTPUT POWER	95.5	95.7	96.1	96.1	96.4	96.4

