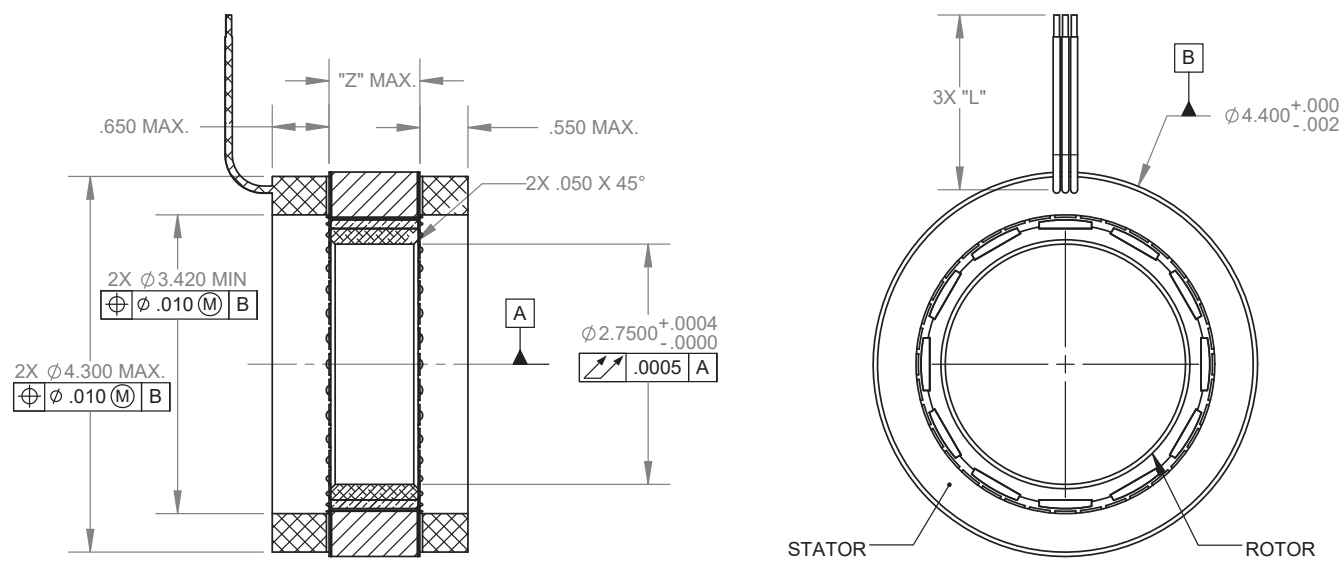
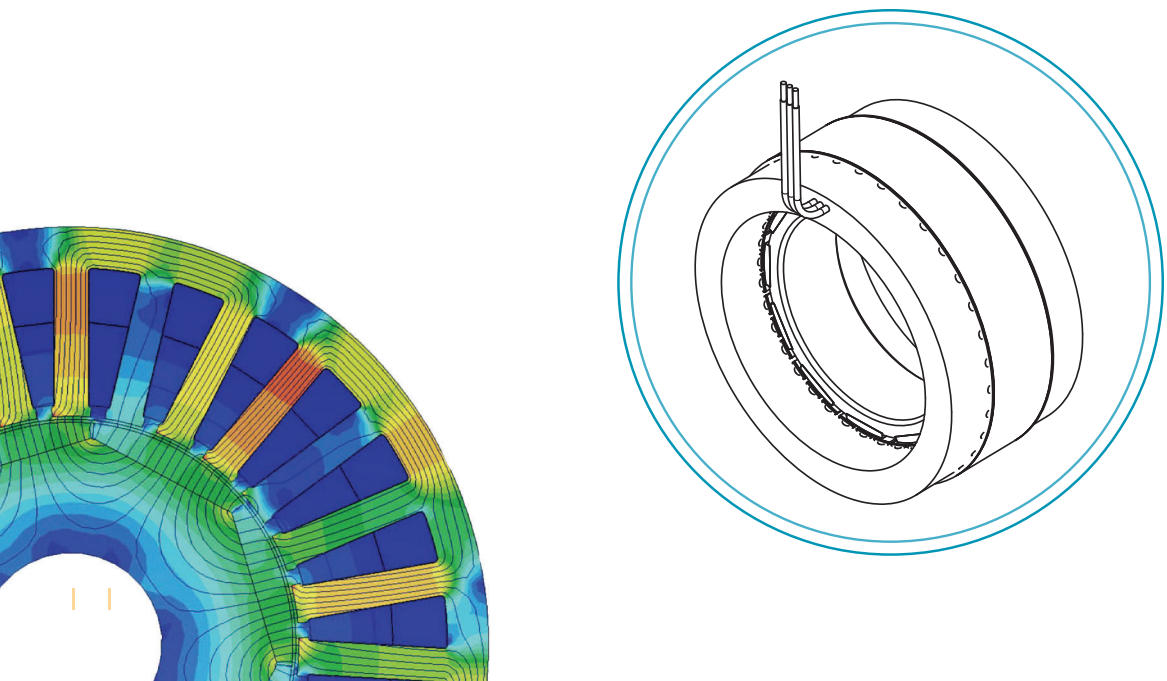


"Superior Torque" (ST) 4400 Series Technical Illustration



PART NO.	DESCRIPTION	"Z" MAX	LEAD WIRE GAGE	"L" ± .500	"R" ± .005
6100255-01	O&M DWG, 4410/10 STD ROTOR AND STATOR SET	1.070	16	12	1.000
6100255-02	O&M DWG, 4410/24 STD ROTOR AND STATOR SET	1.070	16	12	1.000
6100255-03	O&M DWG, 4420/5 STD ROTOR AND STATOR SET	2.070	14	12	2.000
6100255-04	O&M DWG, 4420/12 STD ROTOR AND STATOR SET	2.070	16	12	2.000
6100255-05	O&M DWG, 4430/3 STD ROTOR AND STATOR SET	3.070	14	12	3.000
6100255-06	O&M DWG, 4430/8 STD ROTOR AND STATOR SET	3.070	16	12	3.000



GENERIC PART NUMBER	4410/10	4410/24	4420/5	4420/12	4430/3	4430/8
STATOR OD (IN)	4.4	4.4	4.4	4.4	4.4	4.4
STATOR STACK LENGTH (IN)	1	1	2	2	3	3
ROTOR ID (IN)	2.75	2.75	2.75	2.75	2.75	2.75
ROTOR LENGTH (IN)	1	1	2	2	3	3
TURNS PER COIL	10	24	5	12	3	8
RESISTANCE (L-L)	0.346	2.09	0.125	0.742	0.0565	0.406
INDUCTANCE (L-L)	1.0475	6.045	0.5055	2.91	0.2695	1.915
LEAD WIRE AWG	16	16	14	16	14	16
KE (V/1KRPM, PEAK)	43.1	103	43.1	103	38.8	103
KT (IN-OZ/A, PEAK)	71.4	171	71.4	171	64.2	171
KT (IN-OZ/ARMS), TIME-AVERAGED	60.4	145	60.4	145	54.4	145
KM (IN-OZ/SQRT(W))	121.38	118.28	201.95	198.52	270.09	268.37
WEIGHT (OZ)	38.4	37.9	70.6	70.1	103	103
ROTOR INERTIA (KG-M ²)	4.69E-04	4.69E-04	9.36E-04	9.36E-04	1.40E-03	1.40E-03
POLE COUNT	12	12	12	12	12	12
COGGING TORQUE, PEAK (IN-OZ)	28.3	28.3	56.5	56.5	84.8	84.8
HYSTERESIS DRAG TORQUE (IN-OZ)	4.5	4.5	9	9	13.5	13.5
ELECTROMAGNETICS VISCOUS DRAG (IN-OZ/RPM ²)	5.44E-09	5.44E-09	1.09E-08	1.09E-08	1.63E-08	1.63E-08
DESIGN CURRENT (RMS, SINE DRIVE)	8.75	3.65	17.50	7.30	29.30	11.00
DESIGN VOLTAGE	270	600	270	600	270	600
DESIGN RPM	5000	5000	5000	5000	5000	5000
NO-LOAD RPM	6267	5800	6264	5800	6960	5800
DESIGN TORQUE (IN-OZ)	528	529	1057	1058	1593	1594
DESIGN OUPUT POWER (W)	1977	1982	3952	3957	5948	5969
ELECTROMECHANICAL EFFICIENCY AT DESIGN OUTPUT POWER	94.2	94	95.2	95.2	95.3	95.8

