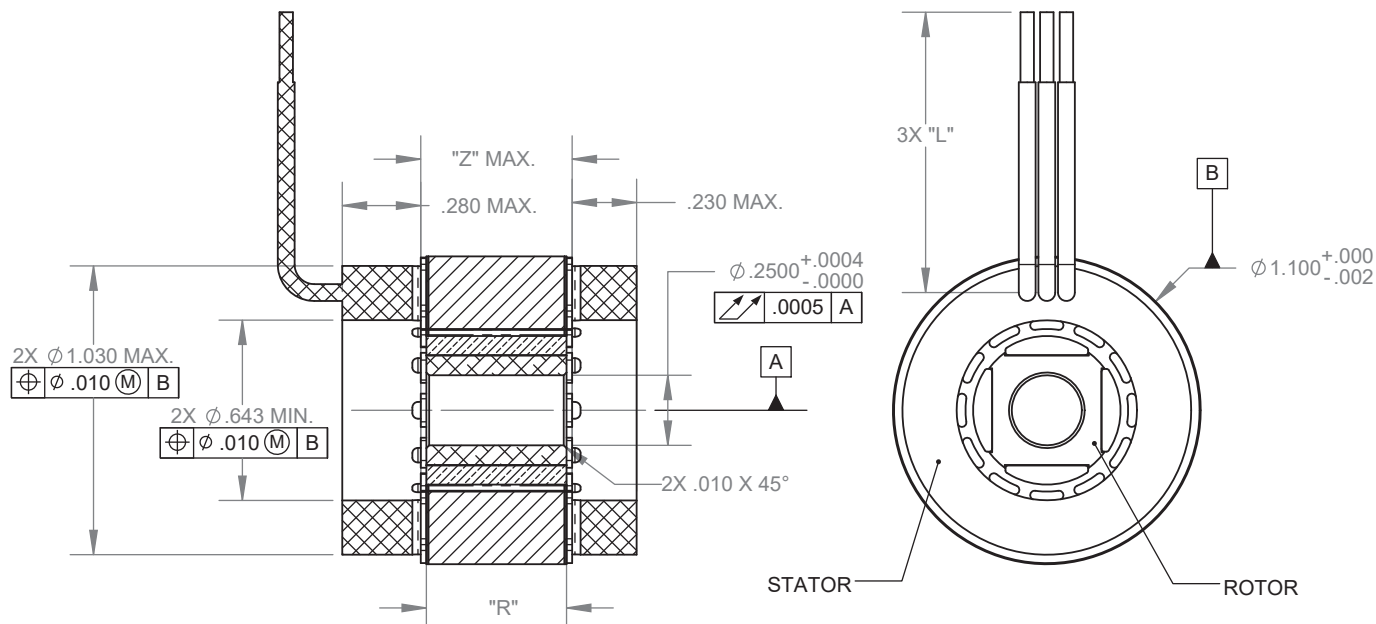
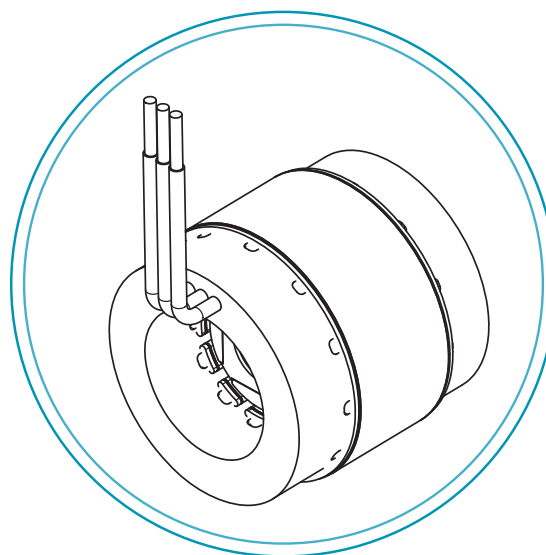
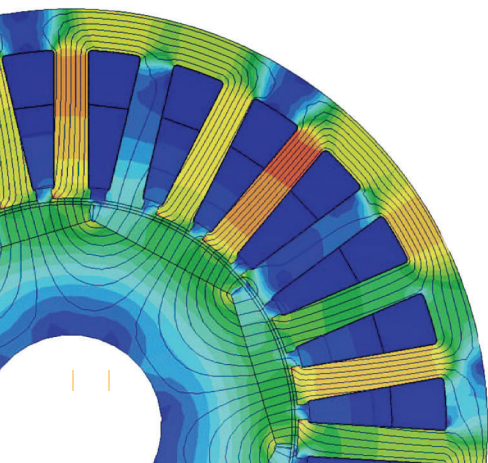


"Superior Torque" (ST) 1100 Series Technical Illustration



PART NO.	DESCRIPTION	"Z" MAX	LEAD WIRE GAGE	"L" ± .500	"R" ± .005
6100248-01	O&M DWG, 1105/6 STD ROTOR AND STATOR SET	.570	18	12	0.500
6100248-02	O&M DWG, 1105/12 STD ROTOR AND STATOR SET	.570	18	12	0.500
6100248-03	O&M DWG, 1110/3 STD ROTOR AND STATOR SET	1.070	16	12	1.000
6100248-04	O&M DWG, 1110/6 STD ROTOR AND STATOR SET	1.070	18	12	1.000
6100248-05	O&M DWG, 1115/2 STD ROTOR AND STATOR SET	1.570	14	12	1.500
6100248-06	O&M DWG, 1115/4 STD ROTOR AND STATOR SET	1.570	18	12	1.500



GENERIC PART NUMBER	1105/6	1105/12	1110/3	1110/6	1115/2	1115/4
STATOR OD (IN)	1.1	1.1	1.1	1.1	1.1	1.1
STATOR STACK LENGTH (IN)	0.5	0.5	1	1	1.5	1.5
ROTOR ID (IN)	0.25	0.25	0.25	0.25	0.25	0.25
ROTOR LENGTH (IN)	0.5	0.5	1	1	1.5	1.5
TURNS PER COIL	6	12	3	6	2	4
RESISTANCE (L-L)	0.176	0.704	0.0602	0.241	0.0339	0.136
INDUCTANCE (L-L)	0.0689	0.2755	0.033	0.1315	0.1031	0.08665
LEAD WIRE AWG	18	18	16	18	14	18
KE (V/1KRPM, PEAK)	0.617	1.23	0.617	1.23	0.617	1.23
KT (IN-OZ/A, PEAK)	1.02	2.04	1.02	2.04	1.02	2.04
KT (IN-OZ/ARMS), TIME-AVERAGED	1.02	2.04	1.02	2.04	1.02	2.04
KM (IN-OZ/SQRT(W))	2.43	2.43	4.16	4.16	5.54	5.53
WEIGHT (OZ)	1.85	1.85	3.38	3.38	4.91	4.91
ROTOR INERTIA (KG-M ²)	3.01E-07	3.01E-07	5.99E-07	5.99E-07	8.96E-07	8.96E-07
POLE COUNT	4	4	4	4	4	4
COGGING TORQUE, PEAK (IN-OZ)	0.284	0.284	0.567	0.567	0.851	0.851
HYSTERESIS DRAG TORQUE (IN-OZ)	0.0624	0.0624	0.126	0.126	0.189	0.189
ELECTROMAGNETICS VISCOUS DRAG (IN-OZ/RPM ²)	6.70E-11	6.70E-11	1.35E-10	1.35E-10	2.03E-10	2.03E-10
DESIGN CURRENT (RMS, SINE DRIVE)	6.68	3.34	14.70	7.36	22.30	11.10
DESIGN VOLTAGE	24	48	24	48	24	48
DESIGN RPM	25000	25000	25000	25000	25000	25000
NO-LOAD RPM	38896	38896	38896	38896	38896	38896
DESIGN TORQUE (IN-OZ)	6.25	6.25	13.8	13.8	20.9	20.8
DESIGN OUPUT POWER (W)	116	116	254	255	386	384
ELECTROMECHANICAL EFFICIENCY AT DESIGN OUTPUT POWER	89.3	89.3	91.5	91.5	92.5	92.5

