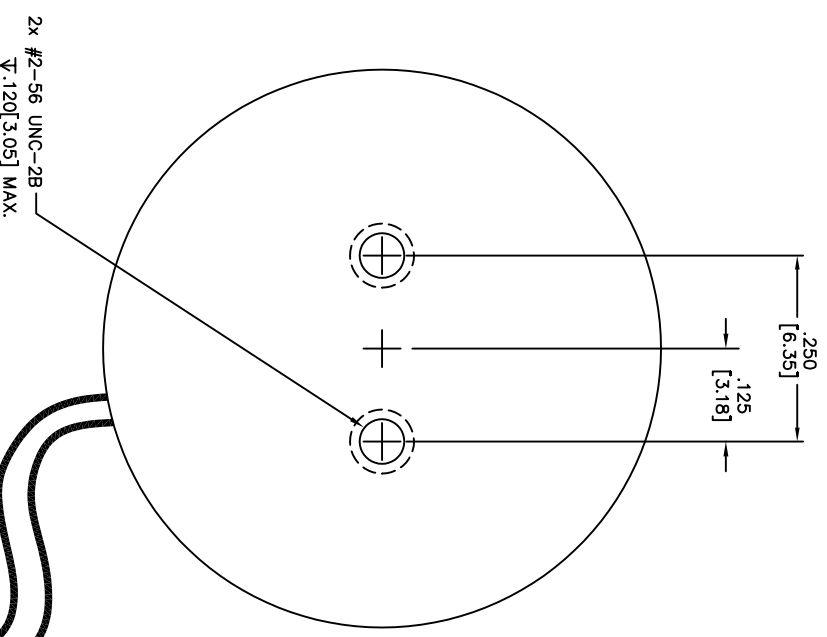
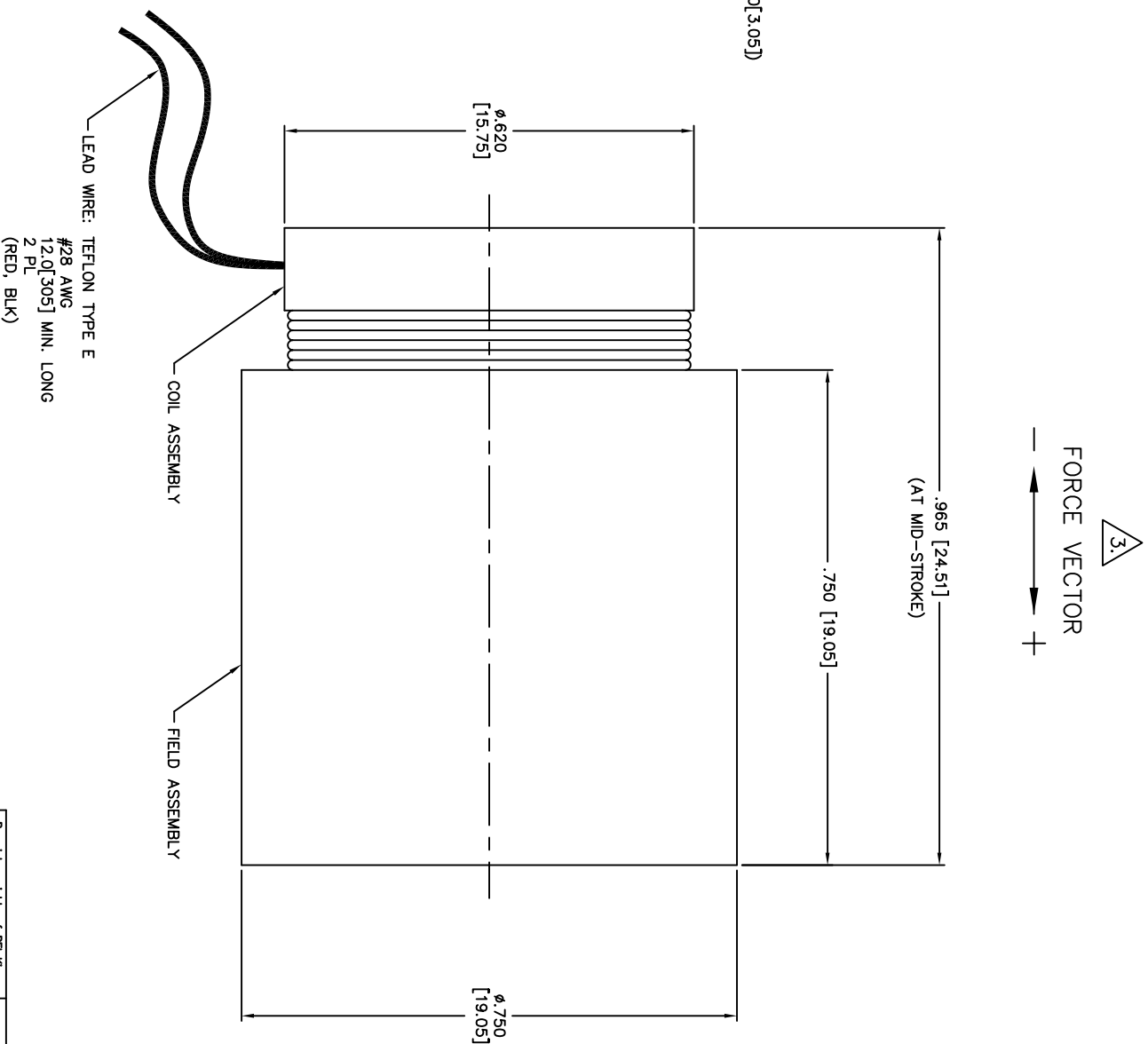
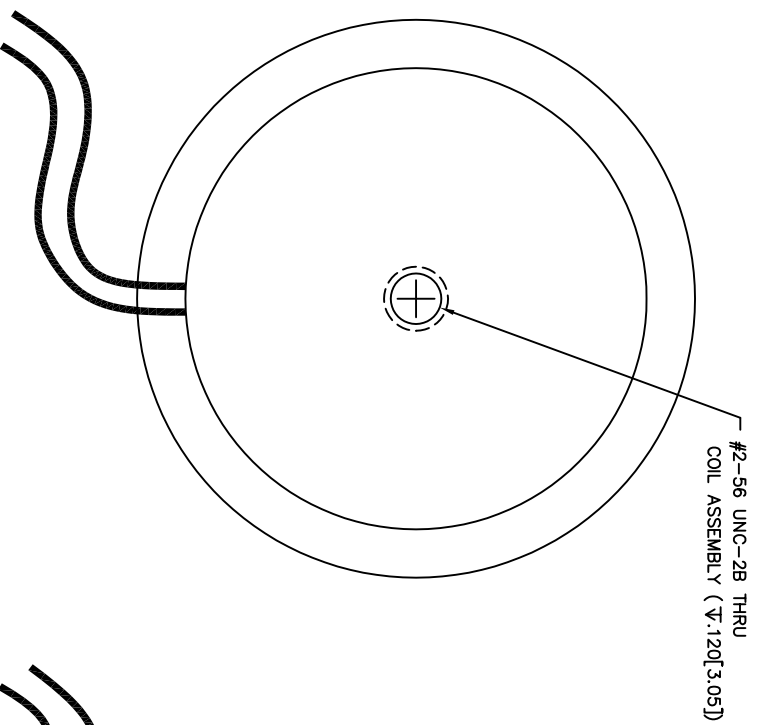


WINDING CONSTANTS *	UNITS	TOL	SYMBOL	WDG A	WDG B	WDG C
DC RESISTANCE	OHMS	±12.5%	R	1.28	4.05	10.03
VOLTAGE @ Fp	VOLTS	NOMINAL	Vp	7.8	13.9	22.0
CURRENT @ Fp	AMPERES	NOMINAL	Ip	6.08	3.42	2.19
FORCE SENSITIVITY	OZ/AMP	±10%	Kf	3.95	7.02	10.97
	N/AMP	±10%		1.1	1.95	3.05
BACK EMF CONSTANT	V/FT/SEC	±10%		0.335	0.595	0.93
	V/M/SEC	±10%		1.1	1.95	3.05
INDUCTANCE ****	MICRO-HENRY	±15%	L	205	648	1583

ACTUATOR PARAMETERS *	UNITS	SYMBOL	VALUE
PEAK FORCE **	OZ	Fp	24
	N		6.7
CONTINUOUS STALL FORCE ***	OZ	Fcs	7.09
	N		1.97
ACTUATOR CONSTANT	OZ/√WATT	Ka	3.49
	N/√WATT		0.97
ELECTRICAL TIME CONSTANT	MICRO-SEC	Te	160
MECHANICAL TIME CONSTANT	MILLI-SEC	Tm	7.9
POWER (P R @ Fp)	WATTS	Pp	47.3
STROKE	± INCHES		0.080
	± MM		2.03
CLEARANCE ON EACH SIDE OF COIL	IN		0.015
	MM		0.38
THERMAL RESISTANCE OF COIL	°C/WATT	θTH	21
MAX. ALLOWABLE COIL TEMP.	°C	TEMP	155
WEIGHT OF COIL ASSEMBLY	OZ	WTc	0.265
	G		7.51
WEIGHT OF FIELD ASSEMBLY	OZ	WTf	0.95
	G		26.9

* MID-STROKE AND 25°C AMBIENT TEMPERATURE
 ** 10 SECONDS AT 25°C AMBIENT & 155°C COIL TEMP
 *** 25°C AMBIENT & 155°C COIL TEMPERATURE
 **** MEASURED AT 1000 Hz



3. A POSITIVE (+) VOLTAGE APPLIED TO THE RED LEAD WILL PRODUCE A FORCE ON THE COIL ASSEMBLY IN THE POSITIVE (+) DIRECTION.
- DIMENSION IN BRACKETS ARE MILLIMETERS [MM] AND ARE FOR REFERENCE ONLY.
 - INTERPRET DIMENSIONS & TOLERANCES PER ASME Y14.5M-1994.
- NOTES: UNLESS OTHERWISE SPECIFIED

ZONE	REV	DOE NO.	DESCRIPTION	INITIALS	DATE	APPROVED
C	030244		UPDATE PARAMETERS	MJL	03/03/03	MG
D	041907		UPDATE PARAMETERS	WPB	05/12/04	SH
E	060143		ADD ROHS LOGO	SLM	02/16/06	MG
F	060603		UPDATE TO INCLUDE B & C WDG	RG	12/01/06	MG

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THIRD ANGLE PROJECTION		UNLESS OTHERWISE SPECIFIED:	
ALL DIMENSIONS IN INCHES	ALL DIMENSIONS IN MILLIMETERS	FINISH	SPRUE
±.005	±.02	AS SHOWN	AS SHOWN
±.010	±.05	SEE DIMENSIONS	SEE DIMENSIONS
±.015	±.075	SEE DIMENSIONS	SEE DIMENSIONS
±.020	±.150	SEE DIMENSIONS	SEE DIMENSIONS
±.030	±.300	SEE DIMENSIONS	SEE DIMENSIONS
±.040	±.600	SEE DIMENSIONS	SEE DIMENSIONS
±.050	±.120	SEE DIMENSIONS	SEE DIMENSIONS
±.060	±.240	SEE DIMENSIONS	SEE DIMENSIONS
±.070	±.480	SEE DIMENSIONS	SEE DIMENSIONS
±.080	±.960	SEE DIMENSIONS	SEE DIMENSIONS
±.090	±.192	SEE DIMENSIONS	SEE DIMENSIONS
±.100	±.384	SEE DIMENSIONS	SEE DIMENSIONS
±.120	±.480	SEE DIMENSIONS	SEE DIMENSIONS
±.150	±.600	SEE DIMENSIONS	SEE DIMENSIONS
±.200	±.800	SEE DIMENSIONS	SEE DIMENSIONS
±.250	±.1000	SEE DIMENSIONS	SEE DIMENSIONS
±.300	±.1200	SEE DIMENSIONS	SEE DIMENSIONS
±.400	±.1600	SEE DIMENSIONS	SEE DIMENSIONS
±.500	±.2000	SEE DIMENSIONS	SEE DIMENSIONS
±.600	±.2400	SEE DIMENSIONS	SEE DIMENSIONS
±.800	±.3200	SEE DIMENSIONS	SEE DIMENSIONS
±.1000	±.4000	SEE DIMENSIONS	SEE DIMENSIONS
±.1200	±.4800	SEE DIMENSIONS	SEE DIMENSIONS
±.1500	±.6000	SEE DIMENSIONS	SEE DIMENSIONS
±.2000	±.8000	SEE DIMENSIONS	SEE DIMENSIONS
±.2500	±.10000	SEE DIMENSIONS	SEE DIMENSIONS
±.3000	±.12000	SEE DIMENSIONS	SEE DIMENSIONS
±.4000	±.16000	SEE DIMENSIONS	SEE DIMENSIONS
±.5000	±.20000	SEE DIMENSIONS	SEE DIMENSIONS
±.6000	±.24000	SEE DIMENSIONS	SEE DIMENSIONS
±.8000	±.32000	SEE DIMENSIONS	SEE DIMENSIONS
±.10000	±.40000	SEE DIMENSIONS	SEE DIMENSIONS
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±.15000	±.60000	SEE DIMENSIONS	SEE DIMENSIONS
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±.50000	±.200000	SEE DIMENSIONS	SEE DIMENSIONS
±.60000	±.240000	SEE DIMENSIONS	SEE DIMENSIONS
±.80000	±.320000	SEE DIMENSIONS	SEE DIMENSIONS
±.100000	±.400000	SEE DIMENSIONS	SEE DIMENSIONS
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±.250000	±.1000000	SEE DIMENSIONS	SEE DIMENSIONS
±.300000	±.1200000	SEE DIMENSIONS	SEE DIMENSIONS
±.400000	±.1600000	SEE DIMENSIONS	SEE DIMENSIONS
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