

WINDING CONSTANTS	UNITS	TOL	SYM	WDG A
DC RESISTANCE	OHMS	±12.5%	R	3.42
VOLTAGE @ FORCE 32.5 LB	VOLTS	NOMINAL	Vc	29.6
CURRENT @ FORCE 32.5 LB	AMPERES	NOMINAL	Ic	8.67
FORCE SENSITIVITY	LB/AMP	±10%	Kf	3.75
BACK EMF CONSTANT	VOLTS/FT/SEC	±10%	Kb	5.09
INDUCTANCE	MILLI-HENRY	±30%	L	1.94

NOTES: UNLESS OTHERWISE SPECIFIED

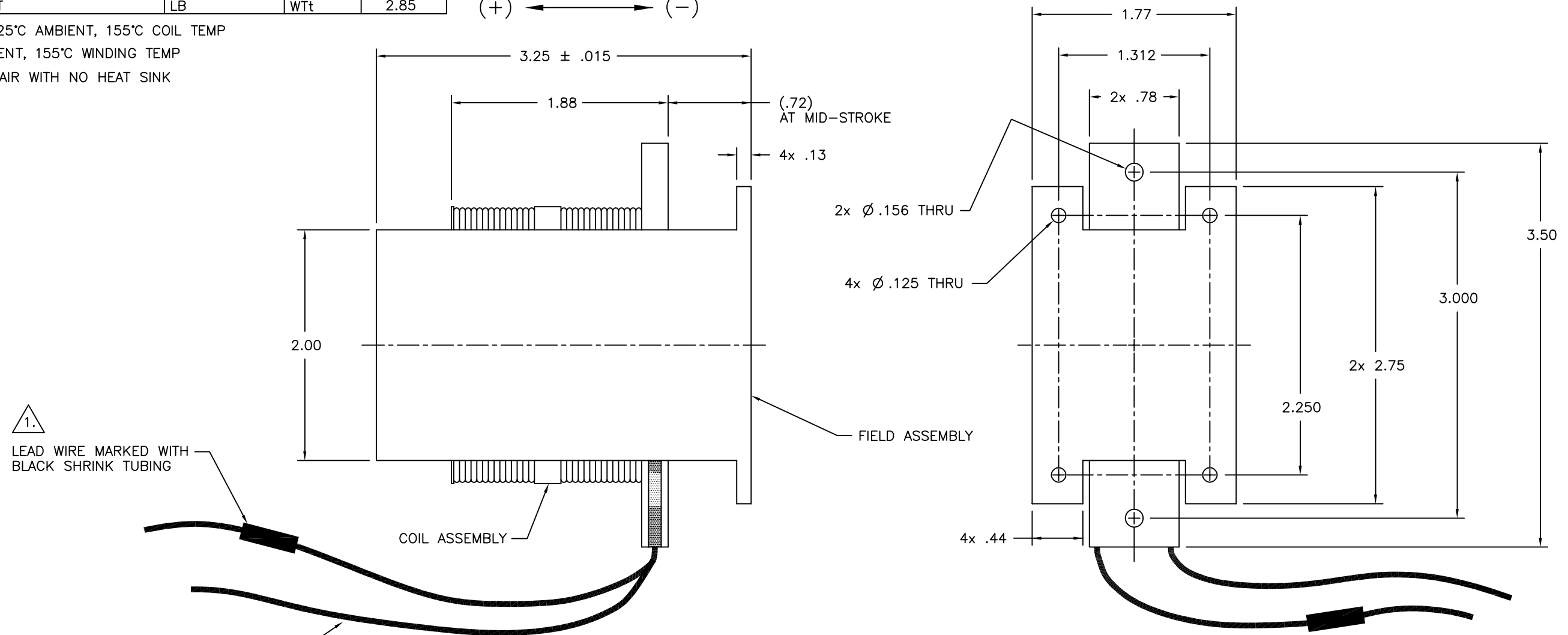
1. A POSITIVE (+) VOLTAGE APPLIED TO THE LEAD MARKED WITH BLACK SHRINK TUBING SHALL PRODUCE A FORCE IN THE POSITIVE (+) DIRECTION.

REV	DCN NO.	DESCRIPTION	DRN	APP'D	DATE
A	93-1251	UPDATE LEAD CALL OUT	SLM	ACM	10/25/93

LINEAR ACTUATOR PARAMETERS	UNITS	SYM	VALUE
PEAK FORCE *	LB	Fp	32.5
CONTINUOUS STALL FORCE **	LB	Fcs	9.7
ACTUATOR CONSTANT	LB/√WATT	Ka	2.03
ELECTRICAL TIME CONSTANT	MICRO-SEC	Te	567
MECHANICAL TIME CONSTANT	MILLI-SEC	Tm	2.0
POWER I ² R @ FORCE 32.5 LB	WATTS	P	257
STROKE	± IN		.25
CLEARANCE ON EACH SIDE OF COIL	IN		.018
THERMAL RESISTANCE OF COIL ***	°C/WATT	Θ _{th}	3.77
MAX ALLOWABLE TEMP. OF COIL	°C	TEMP	155
WEIGHT OF COIL ASSEMBLY	LB	WT _m	.35
TOTAL WEIGHT	LB	WT _t	2.85

* 10 SEC @ 25°C AMBIENT, 155°C COIL TEMP
 ** 25°C AMBIENT, 155°C WINDING TEMP
 *** IN STILL AIR WITH NO HEAT SINK

FORCE VECTOR
 (+) ← → (-)



LEAD WIRE: COONER TYPE AS-999
 2x #22 AWG WHT
 12.0 MIN. LONG

U.S. PATENT NO.
 4,808,955

DO NOT SCALE DRAWING
 DIMENSIONS ARE IN INCHES
 DIMENSIONS ARE AFTER PLATING
 TOLERANCES ARE
 ANGULAR = ± 30' .X = ± .03
 .XX = ± .01 .XXX = ± .005

SIZE B	FSCM NO. 55789	BEI KIMCO MAGNETICS DIVISION SAN MARCOS, CA 92069
TITLE: LINEAR ACTUATOR		DWG NO: LA18-32-000A
SCALE: 1/1	SHT. 1 OF 1	DRN: BUTTERFIELD 9/18/91 APP'D: A. MORCOS 9/25/91