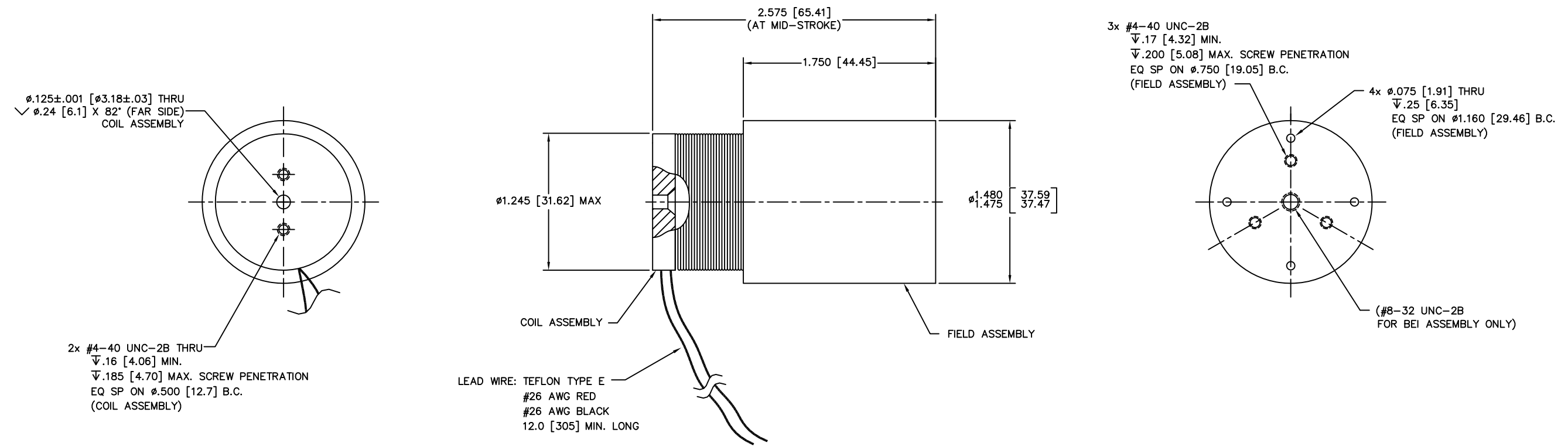
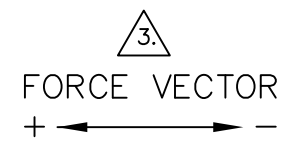


WINDING CONSTANTS *	UNITS	TOL	SYMBOL	WDG A
DC RESISTANCE	OHMS	±12.5%	R	9.1
VOLTAGE @ $F_p$	VOLTS	NOMINAL	$V_p$	46.0
CURRENT @ $F_p$	AMPERES	NOMINAL	$I_p$	5.05
FORCE SENSITIVITY	LB/AMP	±10%	$K_f$	1.98
	N/AMP	±10%		8.81
BACK EMF CONSTANT	V/FT/SEC	±10%	$K_B$	2.68
	V/M/SEC	±10%		8.79
INDUCTANCE ****	MILLI-HENRY	±30%	L	4.2

REVISIONS						
ZONE	REV	DCN NO.	DESCRIPTION	INITIALS	DATE	APPROVED
C	050300		CHANGE MILLI-SEC, NOW MICRO-SEC	JJC	04/19/05	MG
D	060158		ADD RoHS LOGO	SLM	02/27/06	MG
E	140354		ADD $\phi$ .24 X 82" COUNTERSINK	SLM	01/06/15	MG

ACTUATOR PARAMETERS *	UNITS	SYMBOL	VALUE
PEAK FORCE **	LB	$F_p$	10.0
	N		44.48
CONTINUOUS STALL FORCE ***	LB	$F_{cs}$	2.6
	N		11.57
ACTUATOR CONSTANT	LB/ $\sqrt{WATT}$	$K_A$	0.66
	N/ $\sqrt{WATT}$		2.94
ELECTRICAL TIME CONSTANT	MICRO-SEC	$\tau_E$	462
MECHANICAL TIME CONSTANT	MILLI-SEC	$\tau_M$	7.6
POWER $I^2R$ @ $F_p$	WATTS	$P_p$	232
STROKE	± INCHES		0.500
	± MM		12.7
CLEARANCE ON EACH SIDE OF COIL	IN		0.015
	MM		0.38
THERMAL RESISTANCE OF COIL	°C/WATT	$\theta_{TH}$	5.5
MAX. ALLOWABLE COIL TEMP.	°C	TEMP	155
WEIGHT OF COIL ASSEMBLY	OZ	$WT_C$	2.3
	G		65.20
WEIGHT OF FIELD ASSEMBLY	OZ	$WT_F$	10.1
	G		286.33

\* AT MID-STROKE & 25° AMBIENT TEMPERATURE  
 \*\* 10 SECONDS AT 25° AMBIENT & 155° COIL TEMPERATURE  
 \*\*\* 25° AMBIENT & 155° WINDING TEMPERATURE  
 \*\*\*\* MEASURED AT 1000 Hz



- INSULATION RESISTANCE: 100 MEGOHMS MINIMUM AT 500 VDC.
  - 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 IAW ASME Y14.5M-1994.
- NOTES: UNLESS OTHERWISE SPECIFIED

THESE COMMODITIES, TECHNOLOGY OR SOFTWARE IF EXPORTED FROM THE UNITED STATES SHALL BE IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW IS PROHIBITED.

THIRD ANGLE PROJECTION

UNLESS OTHERWISE SPECIFIED:  
 -ALL DIMENSIONS ARE IN INCHES  
 -DIMENSIONS ARE AFTER FINISH  
 DO NOT SCALE DRAWING

APPROVALS

DRAWN	R. ELLIOTT	DATE	05/17/00
CHECKED	P. STAHL	DATE	04/19/05
APPROVED	M. GODKIN	DATE	05/18/00

TOLERANCES:  
 DECIMALS .X ± 0.03  
 .XX ± 0.01  
 .XXX ± 0.005  
 ANGULAR ± 0°30'

BEI KIMCO MAGNETICS DIVISION  
 VISTA, CA 92081

LINEAR ACTUATOR

SIZE	D	FSCM NO.	55789	DRAWING NO.	LA15-26-000A	REV	E
SCALE	2/1	SHEET		1 OF 1			