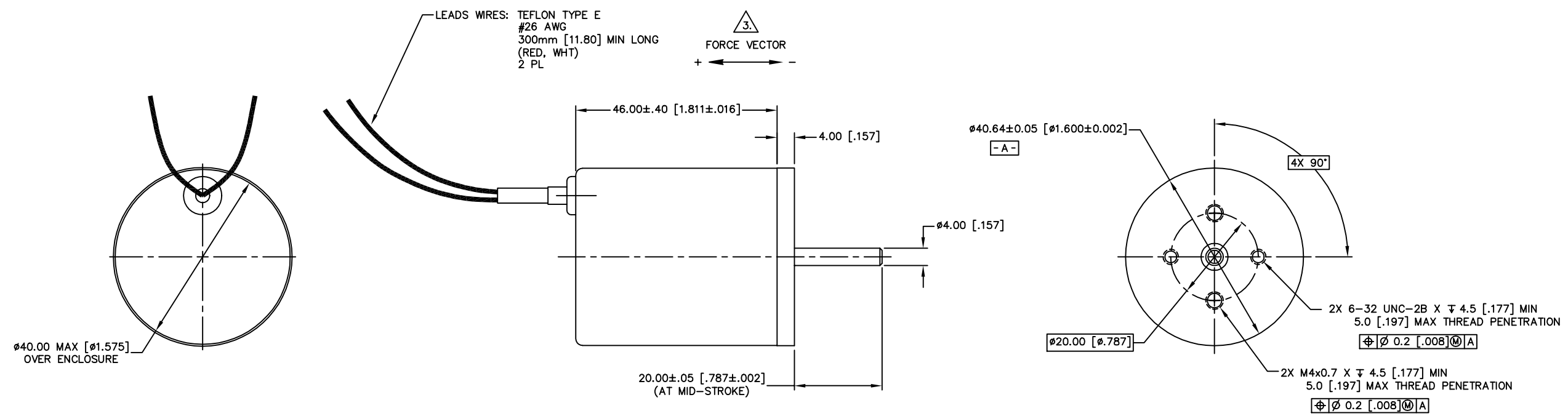
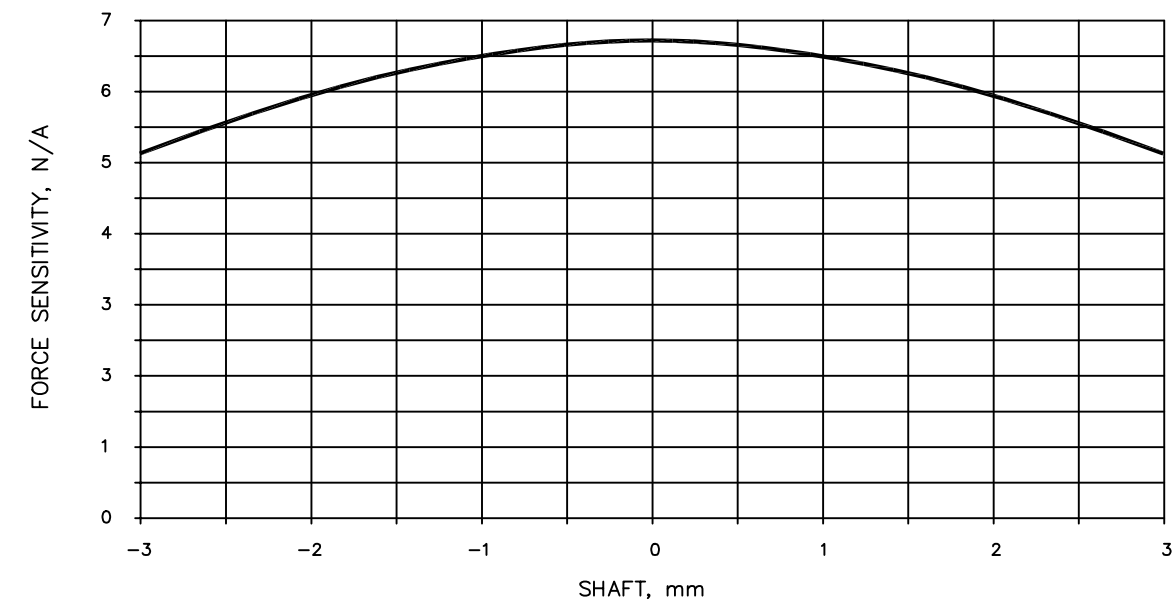


WINDING CONSTANTS *	UNITS	TOL	SYMBOL	WDG A
DC RESISTANCE	OHMS	±12.5%	R	3.3
VOLTAGE @ F _P	VOLTS	NOMINAL	V _P	29.7
CURRENT @ F _P	AMPERES	NOMINAL	I _P	9.0
FORCE SENSITIVITY	N/AMP	±10%	K _F	6.67
	LB/AMP	±10%		1.5
BACK EMF CONSTANT	V/M/SEC	±10%	K _B	6.67
	V/FT/SEC	±10%		2.03
INDUCTANCE ****	MILLI-HENRY	±30%	L	0.38

LTR	ECN NO.	DESCRIPTION	DRN	APP'D	DATE
B	030256	UPDATE PARAMETERS	MJL	MG	3/3/03
C	030605	47.00 NOW 46.00±0.4	MJL	SH	6/2/03
D	030966	CORRECTED LEAD WIRE COLORS	RG	SH	10/28/03

ACTUATOR PARAMETERS *	UNITS	SYMBOL	VALUE
PEAK FORCE **	N	F _P	60
	LB		13.5
CONTINUOUS STALL FORCE ***	N	T _{CS}	13.9
	LB		3.13
ACTUATOR CONSTANT	N/√WATT	K _A	3.67
	LB/√WATT		0.83
ELECTRICAL TIME CONSTANT	MILLI-SEC	τ _E	0.115
MECHANICAL TIME CONSTANT	MILLI-SEC	τ _M	2.97
POWER I ² R @ F _P	WATTS	P _P	267.0
STROKE	± MM		3.0
	± IN		0.118
CLEARANCE ON EACH SIDE OF COIL	MM		0.46
	INCHES		0.018
THERMAL RESISTANCE OF COIL	°C/WATT	θ _{TH}	6.0
MAX. ALLOWABLE COIL TEMP.	°C	TEMP	155
WEIGHT OF COIL ASSEMBLY	G	WT _C	40 MAX
	OZ		1.41 MAX
WEIGHT OF FIELD ASSEMBLY	G	WT _F	198
	OZ		7.0

* AT MID-STROKE POSITION AND 25°C AMBIENT
 ** 10 SECONDS AT 25°C AMBIENT, 155°C COIL TEMP
 *** 25°C AMBIENT & 155°C WINDING TEMPERATURE
 **** MEASURED WITH SENCORE LC102 Z-ANALYZER



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 INCHES [IN.] AND ARE FOR REFERENCE ONLY.
- INTERPRET DIMENSIONS & TOLERANCES PER ANSI Y14.5M-1982.

NOTES: UNLESS OTHERWISE SPECIFIED

U.S. PATENT NO. 5,345,206

METRIC DRAWING

Proprietary rights of BEI Kimco are involved in the subject matter of this material and all manufacturing, reproduction, use, and sales pertaining to such subject matter are expressly reserved. This confidential and proprietary document is submitted for a specified purpose, and the recipient by accepting this material agrees that this material will not be used, copied, or reproduced in whole or in part nor its contents revealed in any manner or to any person except to meet the purpose for which it was delivered.

THIRD ANGLE PROJECTION

UNLESS OTHERWISE SPECIFIED:
 -ALL DIMENSIONS ARE IN INCHES
 -BREAK SHARP EDGES .015 MAX.
 -SURFACE ROUGHNESS-3.2
 -DIMENSIONS APPLY AFTER FINISH
 -MAX FILLET R.010

TOLERANCES:
 DECIMALS ANGULAR
 .X ± .08 ±0° 30'
 .XX ± .025
 .XXX ± .013
 DO NOT SCALE DRAWING

BEI KIMCO MAGNETICS DIVISION
 SAN MARCOS, CA 92069

DRAWN R. GUERRERO	DATE 4/22/02	TITLE LINEAR ACTUATOR			
MECH CHECK R. ELLIOTT	4/26/02	SIZE D	FSCM NO. 55789	DWG NO. LA16-27-000A	REV D
APPD M. GODKIN	4/26/02	SCALE 2/1	SHEET 1 OF 1		
FILE NO. L\TOP LEVEL\LA					

LA16-27-000A D